

Transactions of the Orthoptic Association of Australia

Australian Orthoptic Journal

British Orthoptic Journal

British and Irish Orthoptic Journal

Transactions of the European Strabismological Association

Transactions of the International Strabismological Association

Transactions of the International Orthoptic Association

Transactions of the Orthoptic Association of Australia
Volume 1, 1959

Charles Rasp. Presidential address	2
Peoples M, Charles Rasp	
The British Orthoptic Board	3
Willoughby L, Cashell GT	
Two examples of the A syndrome	8
Lance PM	
Monocular aphakia	10
Hawkeswood H	
A few words on convergence deficiency	13
Balfour B	
Hess charts, typical and atypical	14
Mann D	
Convergence strabismus with a small angle	19
Willoughby L, Cashell GT	
Monocular stimulation in the treatment of amblyopia ex anopsia	24
Carroll M	
Constant strabismus in adults	26
Kirkland M	
Binocular dynamics (clinical examinations)	28
Mann D	
An Orthoptic ABC	43
Willoughby L	
Radio astronomy	48
Kerdel RL	

Transactions of the Orthoptic Association of Australia
Volume 2, 1960

Pan-Asian tour. Presidential address	1
Lance PM	
A study of patients at the Childrens Hospital	7
MacFarlane A	
Eccentric fixation and pleoptics	15
Lewis M	
Pleoptics in Melbourne	20
Carter M	
Occlusion clinic	21
MacFarlane A	
Case history. V syndrome	21
MacFarlane A	
Overconvergence in intermittent divergent squint	23
Hawkeswood H	
Two cases of convergence spasm	25
Mann D	
Bifocals in accommodative squint	28
Walker A	
An observation	30
Peoples M	
Esophoria to intermittent convergent squint	32
Hawkeswood H	
Some problems of ocular paresis	33
O'Connor B	
Atypical Duane's syndrome	38
Kunst JM	
Superior oblique tucking; two cases	39
Mann D	

Transactions of the Orthoptic Association of Australia
Volume 3, 1961

Supranuclear palsies (post-graduate lecture)	3
Lance PM	
Convergence (postgraduate lecture)	6
Lance PM	
Practical aspects of convergence	10
Hawkeswood H	
Surgical cases of intermittent divergent strabismus	15
Kirkland M	
A survey of patients at the hospital for sick children, Brisbane	21
Kirby J	
Some observations of pleoptics at Moorfields Eye Hospital	29
Mann D	
Notes of pleoptic treatment	31
Syme A	
Heterophoria	34
Mann D	
V syndrome (case history)	37
Macfarlane A	
Paresis of medial rectus with V sign	39
Balfour B.	
Case history: Postoperative diplopia in an adult	41
Kirkland M	
Case history: right convergent strabismus	43
McNess M	

Transactions of the Orthoptic Association of Australia
Volume 4, 1962

Patrons address: Orthoptics	2
Henry AV	
A survey of patients at the far west children's health scheme, Manly	6
Rona A	
Abnormal projection tendencies in divergent squint	13
Hawkeswood H	
The aid of bifocals in the treatment of accommodative convergent squint	18
Kirkland M	
Questionnaire on intermittent divergent squint	22
Mann D, Murphy D, Minifie D	
Case history: bilateral paresis of elevation	28
Balfour B	
Survey of the effects of early surgery in constant convergent squint	30
Walker A	
Case history: General fibrosis syndrome with Duane's retraction syndrome	33
Murphy D	
Case history: Secondary eccentric fixation	34
Syme A	
Report on orthoptic student exams	36
Mann D	
Topic for discussion – convergence insufficiency following trauma	38
Bryden-Brown LA	

Transactions of the Orthoptic Association of Australia
Volume 5, 1963

Patrons address	2
Russell E	
Presidents address, Orthoptics	4
Lance PM	
The scope of Orthoptics	9
Kirkland M	
Australian survey of intermittent divergent squints requiring surgery	15
Murphy D	
Some suggestions on anti-suppression exercises with red coloured filter	32
Rona A	
The possibility of a counter-fusional pull	34
Bryden-Brown LA	
Statistics of convergence insufficiency	37
Coddington J	
The physiology of accommodation and convergence	43
Swan D	
The accommodative element in strabismus	45
Cher I	
Orthoptic treatment of accommodative convergent strabismus	49
Kunst JM	
A survey of the use of miotics	52
McNess M	
Pleoptic discussion	59
Red filter treatment of eccentric fixation	61
Kunst JM	
Intermittent overconvergence of unknown causes	62
Hawkeswood H	
A new syndrome? Ptosis on convergence	63
Lance PM	
Aims, aids and methods in orthoptic teaching	67
Craig D	

Transactions of the Orthoptic Association of Australia
Volume 6, 1964

Twenty one years Orthoptics – Presidential address	4
Collins L	
NOTES FOR ORTHOPTIC TEACHERS	17
TOPICS Cover test	19
The Binocular Reflexes	20
Binocular subjective anomalies	20
Small angle squints and fixation disparity	21
Accommodation and convergence	26
Superior oblique tendon sheath syndrome	30

Transactions of the Orthoptic Association of Australia
Volume 7, 1965

Opening address	3
Handley HA	
Why are you an Orthoptist?	5
Willoughby L	
Thoughts on an overseas tour	6
Ryan H	
Preposterous?	8
Rona A	
Recovery from amblyopia	10
Wesson M, Jameson Evans P	
Diagnostic pleoptic methods and problems encountered	12
Doyle M	
Deterioration of the fixing eye under occlusion	19
Lewin B	
Occlusion for older children	21
Peoples M	
Three Japanese studies of amblyopia	23
Craig D	
Subjective anomalies	26
Stereoscopic tests for map makers	28
Retalic L	
Case history: Blow-out fracture of the left orbit	29
Carter M	
Aetiology of apparent superior oblique tendon sheath syndrome	32
Smith E	
Orthoptists and contact lenses	38
Anderson S	

Australian Orthoptic Journal
Volume 8, 1966

Miotics in practice	1
Wood G	
Management of strabismus patients	7
Brown D	
Single binocular vision in aphakes	9
Anderson S	
Value of early surgery in strabismus	14
Bishop J.	
Surgical results of oculo motor nerve palsy	20
Lewin B	
Anomolous fusion faculty	28
Metcalf A	
Pleoptic treatment of a blind eye	34
Kelly S	
Some thoughts on occlusion	38
Shanahan M	
Results of monocular stimulation	39
Taylor J	
Unconventional orthoptics	43
Kirby J	
Photography of history sheets	45
Hawkeswood H	

Australian Orthoptic Journal
Volume 9, 1969

Twenty cases of eccentric fixation	1
Syme A	
The electro-oculogram (EOG)	5
Russell JG	
A case of fundus flavimaculatis	7
Balfour B	
Divergent squints with abnormal retinal correspondence	10
Stock L	
Aniseikonia	12
Wesson M	
Incomitance and its causes	15
Wesson M	
The treatment of eccentric fixation in private practice	19
Crawley S	
Acquired paralytic squint and the Orthoptist	25
Lance PM	
Post traumatic convergence insufficiency	37
Hawkeswood H	
Case history: Alternate day squint	38
Willoughby L	

Australian Orthoptic Journal
Volume 10, 1970

The prognosis of the treatment of eccentric fixation	1
Kelly S	
Dyslexia	4
Drummond S	
Evaluation of postoperative results in intermittent divergent strabismus	8
Dennison B	
Suppression in heterophorias	11
Hawkeswood H	
Alternate day squint	13
Gyaw M	
Orthoptic participation on ophthalmic research	17
Russell JG	
Seeing is believing	19
Hitch A	
Help	22
Heard N	

Australian Orthoptic Journal
Volume 11, 1971

Prolonger (Marlow) occlusion	1
Hertzberg R	
About the AC/A and some Australian afterthoughts	3
Hollows HC	
Fusion a function of accommodation	6
Hargraves MD	
Orthoptists and the Royal Australian air force	8
Daley, Air Vice-Marshal	
A summary of pleoptic treatment and results	10
Dennison B	
Abnormal retinal correspondence	13
Wesson M	
Some cases of convergence squint with abnormal retinal correspondence	23
Hawkeswood H	
A case of transient bilateral fixation in infancy	24
Cornell E	
Paradoxical innervation	27
Cornell E	
Strabismometry through the eyes of an observer	36
Wesson M	
Orthoptic reports	45
Craig D	
A case of surgery for convergence insufficiency	47
Hawkeswood H	
Scotoma in retino-choroidal dystrophies	63
Russell JG	

Australian Orthoptic Journal

Volume 12, 1972

<https://www.aojournal.com.au/archive/1972/volume-12>

Dyslexia: An interdisciplinary approach Fenelon B	1
Dyslexia: An interdisciplinary approach: The binocular basis of dyslexic confusion Dunlop DB	4
Dyslexia. The orthoptic approach Dunlop P	16
Reading difficulties Jolly N	21
A problem readers clinic Peoples M	29
A new role for orthoptics Alexander J	31
Learning difficulty Dunlop P	32

Australian Orthoptic Journal

Volume 13, 1973-1974

<https://www.aojournal.com.au/archive/1973-1974/volume-13>

Orthoptics and the young child	1
Lowe RF	
Past, present and future	2
Lance PM	
New binocular factors in reading disability	7
Dunlop P & EM Banks	
Differential diagnosis and management of sensory adaptations	12
Spooner V	
Use of concave lenses in the management of intermittent divergent squint	17
Merrick F	
The Hess Weiss	19
Dunlop P	
Press-on prisms	26
Lance PM	
Practical use of Fresnel prisms	29
Jolly N	
Use of Fresnel prisms	31
Brown S	
Transparencies	33
Kirby J	
Reversal amblyopia	35
Croker D	
Case report: inverse Marcus Gunn phenomenon	38
Carter M	
Case history: Alternate day squint in an adult	39
Magin J	
Case history: Unilateral aphakia	40
Hawkeswood H	

Australian Orthoptic Journal

Volume 14, 1975

<https://www.aojournal.com.au/archive/1975/volume-14>

Orthoptics and the community	
Community involvement in the Western metropolitan health region	1-2
A MacFarlane	
Surveys and all that!	3-4
P Wister	
Vision screening – pilot survey	5-6
S Brown, S Gillis, S Stanley	
Visual screening of children in western Australia	7
B Balfour	
Orthoptics and cerebral palsy	7-9
VC Elliot	
The orthoptics contribution to the multi-disciplinary group concerned	9-15
With learning difficulties	
P Dunlop	
Development of visual acuity	15-17
V Spooner	
The education of Orthoptists in New south Wales	17-19
PM Lance	
The use of “half patch” occlusion	20-21
M Hansor	
Objective orthoptic treatment	21-26
D Craig	
Superior oblique surgery	26-31
J Yap	
Alternating sursumduction: 3 case histories	31-36
D Craig	
Case history: headaches	36-37
J Fitzsimmons	
Case history: induced hypo accommodative squint	37
M Sullivan	
Hypoplasia of lateral rectus and abnormal inferior oblique insertion	38
J C Stewart	
Case history	
Case history: convergent squint of sudden onset	39
F Merrick	

Australian Orthoptic Journal

Volume 15, 1977

<https://www.aojournal.com.au/archive/1977/volume-15>

Address	2
WE Gillies	
Orthoptics – the expanded role	3
V Gordon	
The challenge of the present	4-5
S Brown	
Current concepts in the investigation of macular disease	6-8
JD Cairns	
Eye injuries in sport	9-11
H Toyne	
Far out orthoptics	12-14
G O’Sullivan, A McIndoe	
Orthoptic management of the cerebral palsied child	15-18
M Binovec	
Visual development of 148 pre-school children over a period of 3 years	19-23
P Dunlop	
A Survey of the incidence of defective vision and strabismus in kindergarten	24-28
Age children – Sydney 1976	
S brown, D Jones	
Lincoln institute kindergarten screening	29-31
L McKenzie	
Some aspects of Swiss orthoptics	32
U Messerli	
Distance eso-deviation or vergence insufficiency	33-34
WE Gillies	
Ocular muscular dystrophy	35-37
H McLean	
The role of the Orthoptist in the management of dysthyroid eye disease	38-40
J Mein	
Case history: Superior oblique tendon sheath syndrome in siblings	41-42
P Monteath	
Hypoaccommodative squint: 2 case histories	43
H Hawkeswood	
Case history: recurrence of alternate day squint in an adult	44
J Wuff (Magin)	
Case history: innervational anomaly and head turn	45
P Wister	
Book review: Orthoptics, past, present, future	46
P Lance	

Australian Orthoptic Journal
Volume 16, 1978
<https://www.aojournal.com.au/archive/1978/volume-16>

Manpower surveys	3
Brown S	
Symptoms & Heterophoria	
Helen Hawkeswood	
Medical therapy for amblyopia after occlusion failure	6
MacLean H, Carter M	
The significance of binocular visual acuity in intermittent exotropia	9
Hitch A	
Fresnel prisms in the management of sunlight deviations	10
Edwards K	
Stereoacuity tests: Titmus compared with TNO.	13
Jolly N	
Stereoacuity in kindergarten children	17
Pardy J	
Purposeful perimetry	20
Paul B	
A review of 100 cases of children with reading problems	25
Brown S	
Visual assessment of CVA patients	30
MacFarlane A, Longhurst T	
The Orthoptists role in a team approach to partially sighted children	33
Pardy J, Guy M	
Present state of orthoptic treatment in Buenos Aires	36
Ciancia AI	
Some eye problems in Singapore: Infants and children	39
Boon WH	
Australian Aboriginal eye health and what must be done	45
Hollows FC	

Australian Orthoptic Journal

Volume 17, 1979-1980

<https://www.aojournal.com.au/archive/1979-1980/volume-17>

Contrast sensitivity – a more realistic measure of visual function	1
Dunlop DB	
A clinical assessment of new methods of treatment for amblyopia	6
Banks R	
Summary of Royal Children's hospital and national research vision institute	10
control trial of CAM vision stimulator	
Keith CG, Mitchell D, Howell E, Smith S	
Comments on CAM stimulator from Newcastle, NSW	11
Dunlop P	
Results of treatment with the SAM vision stimulator from Sydney Eye Hospital	13
Brown S	
Orthoptic treatment in twelve cases of eccentric fixation	14
Joura O	
Bilateral eccentric fixation – fact or fixation?	17
Tait S	
Case report: Bilateral microtropia without identity	23
Pardy J	
An evaluation of proximal convergence by the use of infra-red photography	24
Cornell E, Mitchell R	
The influence of orthoptic treatment on proximal convergence	30
Cornell E	
The effect of darkness on the miosis associated with the near reflex	33
Loughhead J	
The effect of the accommodation-convergence synkinesis on the difference	37
between distance and near measurements of deviation	
Rubie C	
Visual assessment of cerebro-vascular accident patients in rehabilitation	42
Programmes	
Macfarlane A Longhurst EC	
The subjective visual assessment of the severely mentally handicapped child	48
Erby J	
The results of visual screening of eighty mentally retarded children	53
Brown S	
A study of the visual defects in hearing impaired children	56
Simon I	
The Orthoptists role in rehabilitation of the partially sighted	59
Wulff J	
An evaluation of visual acuity levels	62
Loughhead J, Priest L	
Nystagmus blocking syndrome	68
Cort S	
An atypical response to occlusion of a congenital esotrope	71
Stephens A	
Secondary and consecutive exotropia	75
Pardy J	
Case history: Recurrent VI nerve palsy in a child	77
Hunter J	

Problems associated with the integration of theory and practice in clinical Orthoptics	78
Jolly N	
MacFarlane A, Longhurst T	
A survey of the clinical evaluation of stereopsis in Australian orthoptics	81
Neill RA	

Australian Orthoptic Journal
Volume 18, 1980-1981

<https://www.aojournal.com.au/archive/1980-1981/volume-18>

Orthoptic role with the handicapped in Brazil	8
R Kinker	
Orthoptic role in head injuries	10
J Mein	
Diplopia and the cancer patient	15
S Moore	
Amblyopia and disorders of ocular motility in craniosynostosis	19
R Collin, J Walker, K Wybar	
Fourteen patients with superior oblique defect and convergence excess	23
Corrected by sagittalization	
M Wesson	
A Method of vision testing of the severely handicapped children	25
J Krstic	
Retraining of central fixation in the partially blind – due to demyelinating	26
Disease or other organic lesions	
U Altmann	
Further roles of the Orthoptist in the rehabilitation of the partially sighted	28
R Wellington	
Electrophysiology and the Orthoptist	30
D Stark	
A new method of electrophysiological investigation of visually handicapped	36
Children	
F Zamfirescu	
Static perimetry – A psychophysical test	39
M Doyle	
Examination of visual fields in the physically handicapped child	43
V Gordon	
Free space stereotests revisited	45
R Neill, P Dunlop, D Dunlop	
The effect of peripheral fusion on the four prism dioptre test	49
J Sparke	
Development of ocular fixation	52
N Jolly	
Infant Esotropia: Pilocarpine treatment	55
P Dunlop	
Foveal abnormalities in ametropic Amblyopia	59
S Tait	
An ophthalmologist reviews learning disabilities	63
D Stark	
Convergence insufficiency and Duane's retraction syndrome	6
I Simon	
Case report: Alternate day squint treated with prisms without the need for surgery	68
J Attwenger	
Case report: surgery for convergence insufficiency	69
H Hawkeswood	
Case report: Myasthenia gravis presenting following trauma	70

J Dalzell

Australian Orthoptic Journal

Volume 19, 1982

<https://www.aojournal.com.au/archive/1982/volume-19>

On the relationship of eso to exotropia in Newcastle Dunlop P	5
Central retinal lesions and orthoptics Cowell S	11
Assessment of visual field anomalies using the visually evoked response Fitzgerald A, Montgomery P, Billson F.	17
The visual evoked response and stereopsis Neill RA, Fenelon B, Dunlop DB, Dunlop P	251
Saccadic velocities Webster V	31
Abnormal head postures – a review of 116 patients Francis IC, Brown S	35
Ultrasonography for orthoptists McIndoe A	41
Career patterns and attitudes Nordholm LA, Westbrook MT	45
Results of kindergarten screening Ormerod G	51

Australian Orthoptic Journal

Volume 20, 1983

<https://www.aojournal.com.au/archive/1983/volume-20>

Psychological correlatives of accommodative squint	5
Rona A	
The OKN response and binocular vision in early onset strabismus	13
Mein J	
New aspects of dissociated vertical deviation	19
Tait S, Atkins I, Brown S, et al.	
Evidence of abnormal optic nerve fibre projections in patients with Dissociated vertical deviation (DVD) – a preliminary report	23
Fitzgerald A	
Ocular motility disorders following head injury	31
Mitchell R	
The Orthoptist as a safety net	37
Collett S	
Intractable diplopia	41
Brown S, Atkins I, Doyle M et al	
The Miller Fisher syndrome	45
Atkins I	
Visual function in 58 intellectually handicapped children	47
Freeman G, Loughhead J	
Results of Lion's club amblyopia survey	57
McKenzie L	
Australian contribution to International Orthoptic Association survey	59
Lance PM, Mitchell R	
The effects of alcohol on the visual and ocular motor systems	51
Wilson G	

Australian Orthoptic Journal

Volume 21, 1984

<https://www.aojournal.com.au/archive/1984/volume-21>

Suppression of a blurred visual input by normal subjects can be demonstrated using the VER	1
Jolly N, Cornell E, Hettiaratchi E, Burne JA	
Vision in the elderly – a need for public awareness	5
Mitchell RA	
A study of ocular signs in normal and pathological aging	11
MacFarlane A, Mitchell R, Williamson M, Broe GA	
The role of saccadic velocity testing in the management of orbital fractures	17
Webster V	
Ophthalmological aspects of fronto-nasal encephalocoeles	23
Pyne RJ	
A simple test of spatial frequency discrimination in patients with multiple sclerosis	29
Delle Vergin S, Cornell E, Francis IC	
The effect of a reading efficiency program on visually impaired tertiary students	33
Ritzmaurice K, Keast JJ	
Vision defects in Down's syndrome at Newcastle school for specific purposes	39
Dunlop P	
Acquired Brown's syndrome; a case report	43
Searle C, Horne S	
Combined internuclear ophthalmoplegia and contralateral superior oblique palsy	47
A case report	
Cornell E, Francis IC	

Australian Orthoptic Journal

Volume 22 1985

<https://www.aojournal.com.au/archive/1985/volume-22>

Orthoptics and professional accountability	1
Lance PM	
The assessment of visual acuity by the forced preferential looking method	3
Gole GA, Hall PA	
Minus overcorrection: conservative treatment of intermittent exotropia in the young child	9
Goodacre H	
Does the Uhtoff's symptom always mean MS?	19
Hall JE	
The use of vertical prisms in progressive supranuclear palsy (Steele Richardson Olszewski disease)	23
Cornell E, Francis IC	
A comparative assessment of the Lang, TNO and Titmus stereo tests	27
Johnstone R, Brown S	
Colour vision tests and their interpretation	31
Fitzgerald A	
Visual standards of the participants in the Shaklee junior sports development programme	41
Jolly N, Jolly R	
Awareness of the eye health care team by other health professionals	49
Ferraro K	
Improvisation in Orthoptics – the role of an Orthoptist in the management of the multi-handicapped visually impaired child	53
Crossman H	
Reading efficiency of visually impaired students – review of pilot program	57
Fitzmaurice K	
The visual assessment of fifty-seven mentally retarded school children	61
Morey J	

Australian Orthoptic Journal

Volume 23, 1986

<https://www.aojournal.com.au/archive/1986/volume-23>

The newborn follow up clinic: preliminary report of ocular anomalies	1
Searle C	
Visual performance in the low vision child	7
Rubie C	
The spectrum of congenital rubella	13
Crossman H	
Visual responses of patients with eccentric viewing	17
Fitzmaurice K	
The treatment of convergence insufficiency in Australia	21
Cornell E	
Analysis of the AC/A ratio in a sample of intermittent exotropes of divergence excess type	29
Smith C	
Human colour vision: its basis and clinical significance	33
Fitzgerald A, Billson F	
Evaluation of the City University colour vision test	41
Fitzgerald A	

Australian Orthoptic Journal

Volume 24, 1987

<https://www.aojournal.com.au/archive/1987/volume-24>

The orthoptic care of the elderly	3
Yapp JM	
Underaction of the medial rectus muscle following surgery for squint	9
Strang NT, Brooks AMV, Gillies WE	
Single versus multiple pinhole – does it make a difference?	13
McKenzie L	
Colour vision: Ishihara and City University tests	17
Crisp J, Green J, Pollock J	
Visual acuity is not the bottom line: some techniques of visual rehabilitation	23
Fitzmaurice K, Taylor L	
The caring Orthoptist	27
Rubie C	
Intra-ocular lens calculation – the Waikato's first year	31
Bull S	
Visual fields in retinitis pigmentosa	35
Mulhall L	

Australian Orthoptic Journal

Volume 25, 1989

<https://www.aojournal.com.au/archive/1989/volume-25>

Tinted lenses and dyslexia: a review of the literature	1
Fitzgerald A	
Dyslexia is a dab word	7
Littlewood R	
Normal contrast sensitivity in 200 children aged seven to thirteen years	10
Fitzgerald A	
The use of the planimeter to measure fields of binocular fixation	17
Brown S, Pitt A, McConaghy G	
Accommodation measurement – clear or blurred?	20
Pollock J	
Persistent incomitance of long standing fourth nerve palsies	23
Stephens A, Kelly J, Merrick F, Marshall S, Doyle M	
Blurred vision with head movements – testing the efficacy of the vestibulo-ocular	29
Reflex	
Green J	
Unilateral central field loss: a case study	33
Fitzmaurice K, Heriot W	
Duane's retraction syndrome – a review of 39 cases	35
Bourne K	

Australian Orthoptic Journal

Volume 26, 1990

<https://www.aojournal.com.au/archive/1990/volume-26>

Accommodation deficits in a group of young offenders	1
A Pitt	
Infant visual field assessment	6
K Bourne, A Crampton, C Searle	
Evaluation report – the Cambridge video refractor	13
C Searle, R Miller, K Bourne, A Crampton	
Limitations of superior rectus movement – a literature review and clinical study	19
A Hornbrook, J Kelly, F Merrick, G Stead, M Doyle	
Brown,s Syndrome, Current concepts & Clinical Review of twenty cases	24
K Bourns	
Brown’s syndrome associated with pregnancy: a case report	28
S Moore, p McCartney	
Visual ocular motility performance of one hundred cricketers	32
S Brown	
Applications of microcomputers to orthoptic measurement	37
J Burne	
Homonymous blindness in multihandicapped children	42
H Crossman	
An update in genetics for the Orthoptist – a brief review of gene mapping	45
L Adams	

Australian Orthoptic Journal

Volume 27, 1991

<https://www.aojournal.com.au/archive/1991/volume-27>

Five years of tinted lenses for reading disability – the Patricia lance lecture 1990	1
A Fitzgerald	
The effect of acute physical activity on levels of Stereoacuity	13
S Brown, S Malcolm	
The ocular motor development of infants	19
L McKenzie	
A review of the Farnsworth Munsell type colour vision test	25
A Fitzgerald	
The effect of spectral composition of lighting on visual performance of persons with retinal pathology	37
K Fitzmaurice	
The Orthoptist and driving skills	43
N Jolly, R Zropf	
Blowouts fracture	49
R Wilkinson	
Transient superior oblique syndrome in scleroderma: a case study	59
RH West, JC Griffiths, AJ Barnett	
Acquired intermittent superior oblique tendon sheath syndrome (SOTSS): 3 case reports	63
M Stamos	
Botulinum toxin for the treatment of blepharospasm and hemifacial spasm	69
J Price, J O'Day	

Australian Orthoptic Journal

Volume 28, 1992

<https://www.aojournal.com.au/archive/1992/volume-28>

The computerized visual field: the complexities of its analysis. A Literature review H Goodacre	1
Retinal photographic grading: the orthoptic picture R Sparkes, P Mitchell, P Darzins	11
Consecutive Exotropia G Page, H Ryan, C Prior, J O'Day	19
The effect of cluster seating in the classroom on visual function M-E Jones, CM Searle, SJ King	25
Eccentric viewing position as a predictor of potential level or near visual acuity K Fitzmaurice	29
Vision testing of adult drivers with a vision screener K Ferraro, I Story, E Freshwater	33
Driver rehabilitation reference points for the Orthoptist N Jolly	37
Duane's retraction syndrome type 1 associated with dissociated vertical deviation: a case report S brown, V McGough, S Garrett, M O'Rourke	43
A case study – brown's syndrome associated with accommodative Esotropia A Pitt, Z Goergievski	47

Australian Orthoptic Journal

Volume 29, 1993

<https://www.aojournal.com.au/archive/1993/volume-29>

Untreated early onset Esotropia in the visual adult	1
The Patricia lance lecture 1992	
C Calcutt	
Visual agnosia – an update on disorders of visual recognition	9
Emmie Rusel prize 1992	
R Cingiloglu	
A computer generated method of training eccentric viewing	13
K Fitzmaurice, JF Kinnear, Y Chen	
The effects of aerobic exercise on intraocular pressure	18
P Elmurr, M Thompson, H Goodacre	
Contrast sensitivity and visual acuity after eximer laser treatment for Myopia	25
- preliminary findings on 15 patients	
A Fitzgerald, P Beaumont, M Minogue	
Contrast sensitivity in adolescents with diabetes	33
A Fitzgerald, J Munns	
Pelli-robson contrasts sensitivity on 122 children aged 6-12 years	40
A Fitzgerald, J Mitchell, J Munns	
Alcohol and visual function – an overview	46
C Devereaux, I Story, A Pitt	
Vision and ocular functions in the older driver	51
K Ferraro	
Diplopia and driving	55
N Jolly, K Goodacre, N Seve, L Ireland	
Case reports	
Partial sixth nerve palsy resulting from spinal anaesthesia - a case study	61
LA Jones, RJ Armstrong	
Visual therapy in hysterical blindness – a case study	65
S Marshall, C Sherriff, L Kennedy	

Australian Orthoptic Journal

Volume 30, 1994

<https://www.aojournal.com.au/archive/1994/volume-30>

Presidents address – the orthoptic association of Australia – 50 years A Fitzgerald	1
Patricia Lance lecture – The next 50 years in orthoptics and ocular motility J Seabar	5
The incidence of reduced visual acuity and squint in pre-school children Aged 3 in Australia A Fitzgerald	17
Vizassess: a Computer generated test of visual function K Fitzmaurice, A Chen	27
Improving eye gaze communication through ocular movement exercise H Crossman	33
The effects of central and peripheral binocular visual field masking on Fusional disparity vergence Z Georgievski	41
Do table tennis players have better eye movements? P Elmurr, E Cornell, R Head, F Kenny	49
Superior oblique myokymia B Jennings	55
Unusual feature of chronic progressive external ophthalmoplegia M Stamos	57
A Case study in cortical plasticity J Mitchell, H Crossman	61
Dysthyroid eye disease from the inside looking out C Calcutt	67
Continuing intrigue with brown's syndrome and its association with Esotropia Z Georgievski, A Pitt	71
Testing Stereopsis. Which test should be used? K Mill, S Brown	73
Ultrasound of the eye and orbit F Byrne, F Green	75
Atlas of clinical ophthalmology Spalton, Hitchings & Hunter	75
Ocular anatomy and physiology Suade	76
Management of difficult glaucoma Higginbotham & Lee	77
Ocular differential diagnosis Lea & Febiger	77
Clinical management of strabismus Calorosa and rouse	78

Australian Orthoptic Journal

Volume 31, 1995

<https://www.aojournal.com.au/archive/1995/volume-31>

Visual field screening in diabetes	5
B Jennings	
Visual acuity: area retinal stimulation	13
R Duyshart	
Comparison of crowded single optotypes with linear acuities in amblyopes	21
M Williams, T Wong, HH Goodacre	
Visual screening in a Nepalese community	29
C Devereux, L Benich, A Drum	
Stereoacuity and fusional vergence ranges of siblings of children with	35
Familial strabismus	
D Ferguson, A Mayo, E Cornell	
Case presentation	
Supranuclear downgaze saccadic palsy persisting after total ophthalmoplegia	41
following severe closed-head trauma	
Z Georgievski, L Kowal, R Wilkinson, PJ McCartney	
Diagnosis of defective colour vision	45
J Birch	
Contact lens practise: a clinical guide	47
R Fletcher, L Lupelli, a Rossi	

Australian Orthoptic Journal

Volume 32, 1996

<https://www.aojournal.com.au/archive/1996/volume-32>

Torsionometer evaluation	9
Evaluating torsion with the torsionometer synoptophore, double Maddox rod test and Maddox wing : a reliability study	
Z Georgievski, L Kowal	
Blindspot mapping	13
Evaluation of compensatory torsion by blind spot mapping	
E Cornell, J Flanagan, R Heard	
Central red fields	19
Normal threshold values for red targets in the central 10 degree visual field.	
J Piraino, H Goodacre	
Visual acuity variables	27
The influence of uncontrolled variables in paediatric assessment of visual acuity: do we measure visual acuity?	
R Duyhurst	
Head trauma review	33
Ocular sequelae following head trauma: a review	
N Apostolou	
Vision & Function	41
Vision and functional capacities of older people in the community	
K Fitzmaurice, H Kendig, R Osborne	
Case: INO	
Internuclear ophthalmoplegia as a presenting neuro-ophthalmic manifestation of multiple sclerosis	47
M Ryan, J Kelly	

Australian Orthoptic Journal

Volume 33, 1997-1998

<https://www.aojournal.com.au/archive/1997-1998/volume-33>

The Patricia lance lecture 1007 – heredity and strabismus R Wilkinson	13
Visual assessment in a developmentally disabled population: Marsden eye surgery V Tosswill, M MacLean	23
The assessment of impaired visual functioning due to cataract B Haynes, L Santamaria, I Sotry, A Pitt	34
The use of predictive factors in stroke rehabilitation N Jones	38
Accommodation values in a normal Sydney population, the RAF rule still valid? E Cornell, R Heard	45
A comparison of contrast sensitivity between people with colour vision defect And those with normal colour vision M Buffrey, J Vassar, N Jolly, R Heard	49
Visual acuity testing in pre-school aged children – what can be expected? M Whitton	55
An historical look at Amblyopia – from patch to patch S Shippman	60
An overview of recent developments in automated perimetric techniques used in the detection of glaucoma A Rota-Bartelink	63
Overview of the GDX nerve fibre analyser M Whitton, G Stead, A Sclavos, M Doyle, J Kelly	69
The assessment of driving skills in the presence of restricted visual fields associated with retinitis pigmentosa N Jolly	72
An ‘Atypical’ case of vertical retraction syndrome in association with klippel-feil syndrome L Santamaria	77
The physiology and neurology of vergence eye movements : an update C D Luu, J F Green	81

Australian Orthoptic Journal

Volume 34, 1999

<https://www.aojournal.com.au/archive/1999/volume-34>

The effect of room illumination on visual acuity measurement Wozniak H, Kelly M, Glover S, Moss N	3
Low vision rehabilitation: an update Fitzmaurice K	9
Outcomes of cataract surgery – what are we measuring? Haynes B, Santamaria L, Pitt A	15
School screening – referral criteria and incidence of ocular disorders in the Blacktown local government area of Western Sydney Jones L	20
Corporate vision screening Giribaldi M, Wulff I	25
The orthoptic treatment of dyslexia using the LASD Lawson A, Kiernicki R, Peterson R	33
Traumatic superior orbital fissure syndrome – a case study Rando A	41

Australian Orthoptic Journal

Volume 35, 2000

<https://www.aojournal.com.au/archive/2000/volume-35>

Congenital esotropia – an overview Wilkinson R	2
The effects of age on saccades made to visual, auditory and tactile stimuli Sullivan A, Abel L	7
Negative vergence training and its effect on the divergence range and heterophoria size Salah A, Thompson K, Cornell E, Moss N	13
Effect of whiplash injury on contrast sensitivity Brown S	22
Vision impairment in Australian children Tosswill V	27
Humphrey and Tomey biometry for cataract surgery: is there a difference in visual outcome? Haynes B, Talevski S, McCarty DJ	33
Research: a journey of innovation or rediscovery Fitzmaurice K	37
1999 review, reflect, realise, rehabilitation Wulff I	42

Australian Orthoptic Journal

Volume 36, 2001-2002

<https://www.aojournal.com.au/archive/2001-2002/volume-36>

Microtropia – a challenge to conventional treatment strategies Symyniuk M, Hendersen K	2
The effect of eccentric viewing on the visual function of persons with age-related macular degeneration Vukicevic M, Fitzmaurice K	8
Patterns of abnormal binocular fixation in a symptom free subject with a well controlled exophoria Cornell E	12
ADD/ADHA and ocular conditions Tosswill V	17
Testing VA: do symmetrical charts make a difference? Cornell E, Moss N	21
The non-surgical management of accommodative esotropia – a personal reflection Calcutt C	23
Vision and sport: the past, present and future role of orthoptics Elmurr P	27

Australian Orthoptic Journal

Volume 37, 2003

<https://www.aojournal.com.au/archive/2003/volume-37>

The complicated diagnosis of cortical vision impairment in children with multiple disabilities Wright M	2
The effect of aging on horizontal saccades and smooth pursuit eye movements Santamaria L, Story I	6
The effects of reading from different mediums (computer screen and paper) on blink rates and lacrimation Major J, Jolly N, Heard R	18
Clinical judgement of GDX vcc versus GDX gas in the detection of nerve fibre layer thinning for glaucoma patients Sciavos A, Kelly J, Somerville-McAlester K, Stead G	26
Vision and computer use – a literature review Jolly N	30

Australian Orthoptic Journal

Volume 38, 2004-2005

<https://www.aojournal.com.au/archive/2004-2005/volume-38>

Is tropicamide a more effective cycloplegic than cyclopentolate in children with dark iridise?	2
Jones N, Kee S, Ming KH	
The standard f vergence eye movements in children with reading difficulties	5
Wulff I	
The effect of training on horizontal saccades and smooth pursuit eye movements	9
Santamaria L, Story I	
Double trouble, patient satisfaction following non surgical intervention for diplopia	16
MacFarlane A, Pedemont K	
By doing eye exercises can you really throw away your myopic correction?	19
Thompson K, Cornell E, Moss N	
Child and adolescent health in New South Wales	26
Tosswill V	
Prenatal factors in infantile strabismus	29
Stamos-Pritchard M, Santamaria L, McCarty C, Devereux C, Story I	
Non standard vision tests to predict functional vision	35
Major J, Jolly N	

Australian Orthoptic Journal
Volume 39 (1), 2007
<https://www.aojournal.com.au/archive/2007>

Editorial. The new Orthoptics	6
Editorial. The value of case studies	7
Two cases of valsalva retinopathy treated with Nd:YAG laser hyaloidotomy Vasallo S, Mancuso C, Harper A	8
Temperature – A contributing factor in a case of superior oblique palsy Somerville McAlester K, Kelly J	13
Discordant unilateral myopia in adult female monozygotic twins. Discordant refraction in monozygotic twins Dirani M, Chamberlain M, Garoufalis P, Chen C, Guymer RH, Baird PN	17
The speed of emmetropia Leone J, Georgievski Z, Koklanis K	21
Acquired colour vision assessment – is Ishihara really enough? Green K	24
Intermittent exotropia: a review of the natural history and non-surgical treatment outcomes Zhang KK, Koklanis K, Georgievski Z	31

Australian Orthoptic Journal
Volume 39 (2), 2007
<https://www.aojournal.com.au/archive/2007>

Editorial. On convergence. On the strength of community	6
Editorial. The value of reviews	7
Comparison of the effect of enlarged print versus a hand held Visiolett magnifier on reading performance in fully sighted children	8
Roediger N, Silvera S	
Surgical considerations in the treatment of intermittent exotropia: a review	14
Le T, Georgievski Z, Koklanis K	
Glaucoma and sleep apnoea: Is there a link? A review	19
Moore S, Malesic L	
Vision disturbances in pituitary prolactinomas: A case report	24
Freijah L	
Ocular title reaction caused by a polycytic astrocytoma: a case report	29
Le T	

Australian Orthoptic Journal
Volume 40 (1), 2008
<https://www.aojournal.com.au/archive/2008>

Editorial. Life begins in the 40's. A Ruby tribute to this Australian Orthoptic Icon	6
Eye movements in vestibular function and dysfunction: a brief review	8
Cornell E, Curthoys I	
Vision rehabilitation and the development of eccentric viewing training: a historical review	13
Vukicevic M, Fitzmaurice K	
Diurnal variation of central corneal thickness and intra-ocular pressure in normal and suspect glaucomatous eyes	19
Keel S, Malesic L	
Surgical management of essential infantile esotropia	23
Mocnay N, Koklanis K, Georgievski Z	
Suitability of monovision laser correction in patients with ocular motility disorders	27
Ta SS	

Australian Orthoptic Journal
Volume 40 (2), 2008
<https://www.aojournal.com.au/archive/2008>

Editorial - Looking for you, looking for us?	6
Georgievski Z, Koklanis C	
The Evolution of Colour Vision Testing	7
French A, Rose K, Thompson K, Cornell E	
The Specialised Orthoptic Role in Management of Contact Lens Use in Infants	16
Sendelbeck S, Brennan L	
Are Clinical Measures Good Indicators of Performance of Daily Activities in Vision-Impaired Children	21
Dawson N, Fitzmaurice K	
Functional Vision Assessment: Looking Beyond Clinical Measures of Ocular Function	26
Vukicevic M	

Australian Orthoptic Journal

2009 Volume 41 (1)

<https://www.aojournal.com.au/archive/2009>

Editorial - Searching AOJ Scientific Papers and Authors	6
Myopia, Near Work, Atropine and Bifocals: Critical Reflections of the Key Literature. Examining the Influence of Several Factors Upon the Progression of Myopia	7
Inez Elderman, Meri Vukicevic	
The Use of Peer - Supported 'Case Conferencing' to Enhance Orthoptic Students' Learning in a Clinical School Environment	13
Kylie Robinson, Zoran Georgievski, Konstandina Koklanis	
A Case of Tropopia: A Case of Conversion Disorder?	17
Julie Fitzpatrick	
A Case of Brown's Syndrome in Association with Goldenhar Syndrome	20
Kara Muecke, Linda Santamaria	
Double Elevator Palsy with Congenital Esotropia: A Case Study	23
Marika Hensman	

Australian Orthoptic Journal

2009 Volume 41 (2)

<https://www.aojournal.com.au/archive/2009>

Editorial - The Importance of Evidence Based Practice	4
The Verbal Skills Used by Orthoptists During Private Patient Consultations	5
Irina Sim, Neryla Jolly, Karen Pepper	
Why are Males with Compressive Optic Neuropathy Predisposed to Developing Cranial Nerve Palsy and Binocular Vision Problems?	12
Inez Eveine Elderman, Meri Vukicevic	
Vision Screening in Individuals with Mild Intellectual Disability	17
Kate Hanman, Kaori Suda, Konstandina Koklanis, Zoran Georgevski	
Concordant Esotropia and Bilateral Hypermetropia in Young Monozygotic Twins	20
Melissa Jurgens	
Selected Abstracts from the OAA 66th Annual Scientific Conference, held in Brisbane, 15-18 November 2009	23

Australian Orthoptic Journal
2010 Volume 42 (1)
<https://www.aojournal.com.au/archive/2010>

Editorial - Orthoptic Practice Variations and Effective Care: The Need for Clinical Practice Guidelines to Improve Care	6
Electroretinography in a Paediatric Setting: A Useful Diagnostic Tool Stephanie Crofts, Louise Brennan, Katie Scanlon	8
A Case of Diplopia Following Monovision with Contact Lenses Barbara Haynes	15
A Case of Orbital Cellulitis with Accompanying Bilateral Ptosis Stephanie Norman, Linda Santamaria, Sonia Biondi	18
A Case Study: Bilateral Internuclear Ophthalmoplegia Jade Portingale, Linda Santamaria, Mark Etheridge	21

Australian Orthoptic Journal
2010 Volume 42 (2)
<https://www.aojournal.com.au/archive/2010>

Parental Predictors of poor Visual Outcome with Occlusion Treatment for Unilateral Amblyopia Carla Coasta Lanca, Elisabete Carolino	4
Minimising Sun-Related Damage to Australian Children's Eyes Sue Silveria	9
Spontaneous Resolution of Early Onset Esotropia: Two Case Studies Lora Parsons	14
Monocular Nystagmus in a Case of Septo-Optic Dysplasia Rebecca Moorhead, Maria Moon	17
Selected Abstracts from the Orthoptics Australia 67th Annual Scientific Conference held in Adelaide, 21-24 November 2010	21

Australian Orthoptic Journal

2011 Volume 43 (1)

<https://www.aojournal.com.au/archive/2011>

Tribute – Associate Professor Zoran Georgievski	6
Clinical Management of Coats Disease: A Case Study Christopher R Drowley, Justin O'Day	8
'Does Size Matter?' – An Investigation of Anisometropia, Aniseikonia and Anisophoria Kristen L Saba, Ross Fitzsimons	12
Orthoptic Interventions in Stroke Patients Ann Macfarlane, Neryla Jolly, Kate Thompson	17
Two Case Studies: Eccentric Fixation and Amblyopia – A Challenge to the Treating Practitioner Jessica Boyle, Linda Santamaria	24

Australian Orthoptic Journal

2011 Volume 43 (2)

<https://www.aojournal.com.au/archive/2011>

A Child with Myasthenia Gravis and Defective Accommodation: A Case Study	6
Karen Pedemont, Neryla Jolly, Loreto Rose	
Visual Screening Competencies Questionnaire (VSCQ) and Orthoptic Practice	11
Carla Costa Lanca, Elisabete Carolino, Carla Nunes	
Effect of Vertical Interline Spacing on Word Recognition and Reading Speed using Peripheral Retina	16
Alannah O'Connor Price, Meri Vukicevic	
Selected Abstracts from the Orthoptics Australia 68th Annual Scientific Conference held in Canberra, 20-22 November 2011	22

Australian Orthoptic Journal

2012 Volume 44 (1)

<https://www.aojournal.com.au/archive/2012/volume-44-2>

Ocular complications of mucopolysaccharidoses	4
Randee A, Flaherty M, Silveira S, Sillence D.	
Juvenile idiopathic arthritis and uveitis in a paediatric Sydney population	9
Geering K, Crofts S.	
Ocular myositis: a case study	13
Lai S.	
A case study: management options for a patient with congenital fibrosis of the extraocular muscles	16
Vogrin F, Zhang KK.	

Australian Orthoptic Journal

2012 Volume 44 (2)

<https://www.aojournal.com.au/archive/2012/volume-44-2>

Improved visual acuity in patients with congenital nystagmus following Anderson-Kestenbaum procedures Norman SC, Green JF, Elder JE.	4
Culture in the clinic: a review of the public health challenge of preventing age-related low vision or blindness in African Americans: with implications for eye health care in Australia Fitzpatrick J.	10
Predictors of retinal vascular calibre: a review Keel S, Koklanis K, Vukicevic M, Istiopoulos C, Brazionis L.	14
Selected abstracts from the orthoptics Australia 69 th annual scientific conference held in Melbourne, 25-28 November 2012	19

Australian Orthoptic Journal

2013 Volume 45

<https://www.aojournal.com.au/archive/2013/volume-45>

Editorial – Orthoptics at the crossroads: matching future workforce needs. Scheetz J, Koklanis K, Long M, Morris ME.	4
The relationship between the clinical assessment, temporal artery biopsy and the positive diagnosis of giant cell arteritis Duffy N.	6
A case study and literature review of coexisting dissociated vertical and horizontal deviations Norris S, Santamaria L.	10
The multidisciplinary glaucoma monitoring clinic at the Royal Victorian Eye and Ear Hospital Gleeson D.	15
A case report: complicated traumatic hyphaema Khuat K, Dickeson E.	19
Charles Bonnet visual hallucinations in children: a systematic review Vukicevic M, Keel S.	24
Selected abstracts from the 70 th Annual Scientific Conference, Hobart.	28

Australian Orthoptic Journal

2014 Volume 46

<https://www.aojournal.com.au/archive/2014/volume-46>

Editorial: Orthoptic Education in NSW – New Beginnings	
Authors: Kathryn Rose	4
The Development of Aphakic Glaucoma Following Lensectomy in Congenital Cataract in a NSW Children’s Hospital	
Authors: Stephanie Crofts, Katie Geering	5
Indication for Anti-VEGF Treatment for Neovascular Age-Related Macular Degeneration Based on Optical Coherence Tomography Interpretation: Decision Agreement Rate between Orthoptist and Ophthalmologist	
Authors: Yong Ern Lim, Meri Vukicevic, Konstandina Koklanis, Jessica Boyle	9
Laser Pointer Retinal Injury: A Case Report	
Authors: Meri Vukicevic, Trevor Gin, Stuart Keel	14
Reframing Vision Impairment for the Australian National Disability Insurance Scheme	
Authors: Sue Silveira	17
Profile of the Australian Orthoptic Workforce 2012/13	
Authors: Konstandina Koklanis, Meri Vukicevic	23
Selected Abstracts from the Orthoptics Australia 71st Annual Scientific Conference held in Brisbane 23 to 26 November 2014	27

Australian Orthoptic Journal

2015 Volume 47

<https://www.aojournal.com.au/archive/2015/volume-47>

Editorial: Blended Learning Strategy: Application for Orthoptic Teaching Authors: Meri Vukicevic, Konstandina Koklanis	4
Letter to the Editor: Manifest Strabismus in Children Previously Diagnosed with Pseudostrabismus Authors: Harry O Orlans, Edward Bloch, Nabil Uddin , Alistair Jones , Saurabh Jain	5
Use of MAIA Microperimetry in Routine Tertiary Retinal Practice Authors: Heather Mack, Jessica Boyle, Meri Vukicevic, Wilson Heriot	6
Reporting for the National Disability Insurance Scheme: Incorporating the Functional Impact of Vision Impairment Authors: Sue Silveira	17
Amblyopia in Older Patients: Can Treatment Work? Authors: Eyal Pat, Neryla Jolly	24
Selected Abstracts from the Orthoptics Australia 72nd Annual Scientific Conference held in Wellington 1 to 4 November 2015	28

Australian Orthoptic Journal

2016 Volume 48

<https://www.aojournal.com.au/archive/2016/volume-48>

Editorial: The Current Relevance of Paediatric Strabismus Care in Australia L Brennan, Stephanie Crofts	4
Cataract Surgical Outcomes: A Five Year Audit L Santamaria, C Chen, M Favilla	5-13
Investigating the Effectiveness of an Orthoptist-Led Diabetic Retinopathy Screening Clinic A Cramer, K Koklanis, Z Dayoub, J Gazarek	14-18
A Missed Case of Acute Macular Neuroretinopathy S Marshall	19-22
Unusual Deviations from Standard Postoperative Instructions and Subsequent Review Protocol P Lu, G Sutton, C Hodge	23-26
The 2016 Patricia Lance Lecture- 50 years: The Development of Research and Publication in the Australian Orthoptic Journal L Santamaria	27-31
Letter to the Editor- The National Disability Insurance Scheme: Positive Implications for Current and Future Orthoptic Practice J Fitzpatrick	32-34

Australian Orthoptic Journal

2017 Volume 49

<https://www.aojournal.com.au/archive/2017/volume-49>

Retrospective Audit of Goldmann Applanation Tonometry Measurements in a Consultant-Ld Glaucoma Clinic D Gleeson, M Vukicevic, M Jamieson	4-8
Persistent Diplopia in Miller Fisher Syndrome: A Case Report S Maddii	9-12
Two Brothers with Horizontal Gaze Palsy with Progressive Scoliosis M Patti	13-17
Disparity between the Australian National Disability Insurance Scheme Access Requirements and the Needs of People with Vision Impairment S Silveira	18-22
The Impact of Reduced Vision on Fall for Community-Dwelling Older People: A Literature Review K Pedemont, N Jolly, R Heard, L Clemson	23-29
Orthoptics and Orthoptists: The War Years 1939-1945 S Brown	30-36
The First Sydney Orthoptist- Emmie Russle or Audrey (Roberts) Wormald? S Brown	37-38
Selected Abstracts from the Orthoptics Australia 74 th Annual Scientific Conference held in Perth 30 th October to 1 st November 2017 (No author stated)	39-44

Australian Orthoptic Journal

2018 Volume 50

<https://www.aojournal.com.au/archive/2018/volume-50>

A Case of Duane's Retraction Syndrome and Synergistic Convergence P Freijah, A Komen, C Lewis, K Koklanis	4-6
Autoimmune Retinopathy: Three Case Reports J Lynch	7-12
A Rare Clinical Case of Unexplained Unilateral Vision Loss on a Background of Metastatic Breast Cancer J Boyle, H Baig, J Thomson	13-19
Teaching Orthoptics to Ophthalmology Residents: A Needs Assessment Study K K Zhang, D Lie	20-25
Excluding Non-English Speaking People from Health Research Including Falls Research for Community-Dwelling Older People K Pedemont	26-30
Functional impact of perifoveal geographic atrophy in patients with dry AMD: a systematic review J Boyle, M Vukicevic, K Koklanis, C Itsiopoulos, WJ Heriot	31-40
Selected abstracts from the Orthoptics Australia 75 th Annual Scientific Conference held in Adelaide, 19 th to 21 st November 2018 (No authors stated)	41-45

Australian Orthoptic Journal

2019 Volume 51

<https://www.aojournal.com.au/archive/2019/volume-51>

Educating Patients with Neovascular AMD about its Treatment and Low Vision Support Services Available to Them: An Evaluation from the Patient and Clinician Perspective	4-16
J Boyle, M Vukicevic, K Koklanis, C Itsiopoulos, G Rees	
Gaze Behaviour and Accuracy among Novice and Glaucoma Specialist Orthoptists During Optic Disc Examination: A Cross Sectional Study	17-24
J Scheetz, K Koklanis, M McGuinness, M Long, M E Morris	
Orthoptics Australia Workforce Survey 2017	25-30
N Jolly, J Kelly, S Silveira, M Giribaldi	
Selected Abstracts from the Orthoptics Australia 76th Annual Scientific Conference held in Sydney 9th to 11th November 2019	31-39

Australian Orthoptic Journal

2020 Volume 52

<https://www.aojournal.com.au/archive/2020-volume-52/volume-52>

Why do simple, inexpensive convergence training exercises continue to perform as well as more expensive computer-based home therapies? Uncoupling your expectations. A Christoff	4-13
Retrospective review on the orthoptic phone call clinic for nasolacrimal duct obstructions and chalazia F Willett	14-18
Does health-related physical fitness differ amongst visually impaired and fully sighted young people? R Stin, M Vukicevic, K Koklanis	19-26
Paediatric laser pointer induced retinopathy in a successfully treated amblyope: A case report Mooney G, Martin FJ.	27-9
Intraoperative floppy iris syndrome in association with Tamsulosin-hydrochloride medication: a case study De Zoysa A, Koklanis K, Vukicevic M.	30-2
Editorial: COVID-19 impact of Australian orthoptic clinical practice Schuller J.	33-5

Australian Orthoptic Journal

2021 Volume 53

<https://www.aojournal.com.au/archive/2021-volume-53/volume-53>

Real-world visual outcomes of treatment-naïve patients with diabetic macular oedema Vukicevic M, Obtinalla C, Jaross N.	4-8
Orthoptist-led glaucoma monitoring: a pilot quality assurance audit of the reliability of orthoptists in glaucoma management decisions Koklanis K, Thorburn D.	9-15
Comparison of the efficacy of standard epithelium-off corneal collagen cross-linking and Iontophoresis-assisted transepithelial corneal-collagen cross-linking in the treatment of keratoconus: a systematic review Tillyer M.	16-29
The accuracy of the Retcam as a wide-field digital retinal imaging device relative to binocular indirect ophthalmoscopy for the diagnosis of retinopathy of prematurity: a systematic review of diagnostic test accuracy Brown S.	30-9
Treating dry eye disease in an orthoptic-led ophthalmology clinic Daruwalla Z, Vukicevic M, Koklanis K, Jaross N.	40-7
Clinical outcomes of dexamethasone intravitreal implantation for recalcitrant diabetic macular oedema using ImageJ software analysis Malkoun T, Kaur A, Vukicevic M, Jaross N.	48-56

Australian Orthoptic Journal

2022 Volume 54

<https://www.aojournal.com.au/archive/2022-volume-54/volume-54>

Orthoptist-led diabetic retinopathy screening: a pilot quality assurance audit of the reliability of orthoptists in diabetic retinopathy screening Koklanis K, Thorburn D, Vukicevic M.	4-8
Treatment outcomes in patients with meibomian gland dysfunction: preliminary findings of a retrospective clinical study within an orthoptist-led dry eye clinic. Darawalla Z, Vukicevic M, Koklanis K, Jaross N.	9-15
Effective use of 2RT® nanosecond laser for the treatment of chronic central serous chorioretinopathy Papuga M, Vukicevic M, Jaross N.	16-18
Is icare as accurate as Goldmann or Perkins applanation tonometry at measuring intraocular pressure in the setting of suspected or diagnosed congenital glaucoma?: a systematic review Barclay J, Moore A.	19-27
The effect of phacoemulsification cataract surgery on the onset and progression of diabetic retinopathy in patients with type 2 diabetes: a systematic review and meta-analysis Corless D, Malesic L, Koklanis K.	29-36

British Orthoptic Journal
Volume 1, 1939

Loss of Central Fixation I.Yoxall	15-19
Some Observations on Partial Occlusion in Accommodative Squints E.Pemberton	20- 22
A few samples of Traumatic Heterophoria S.Mayou	23-27
Operative Impressions in Orthoptic Training OM Duthie	28-33
Summary of routine treatment given at the Manchester Royal Eye Hospital E.Stringer	34-37
Voluntary Diplopia S.Mayou	38-43
Paralysis of External Rectus; Treatment of Muscle Grafting P.Jameson Evans	44-45
Some Observations on Squint Operations Dr Gordon Napier	46-49
Suitability of cases for Orthoptic Training CH.Bamford	50-53
Occlusion K.Bastow	54-57
Some Recent Methods used in an Attempt to shorten Orthoptic treatment S.Jackson	58-62
History of Orthoptic treatment CL Gimblett	63-65
Occasional Divergent Squint S.Jackson	66
Unusual cases of divergent squint treated at the Manchester Royal Eye Hospital E.Stringer	67
Divergent Strabismus and its treatments K.Bastow	68-69
Divergent Squint	70

J.Strickland Approach to the Phorias Wing Commander Livingstone	71-104
Certain aspects of the Evolution of the eye I.Mann	105

BOJ Volume 2, 1944

Some Observations on accommodative squint M.Parsons	13-15
Some Observations on experimental work on the relation of squint to emotional disturbances carried out at the Oxford Eye Hospital B.Hare	16-20
Our Failures E.Stringer	21-24
Graded Squint Operations J.Foster, EC Pemberton, SS Freedman	25-32
Prognosis of postoperative Diplopia in adult Squints EC Pemberton	33-35
Some notes on treatment of abnormal retinal correspondence B.Hare	36-37
Convergence deficiency OM.Duthie	38-41
Civilian Heterophoria D.Adams Campbell, J Mein	42-46
Adult Heterophoria JH.Doggart	47-49
Some Interesting aspects of heterophoria in relation to flying AV.McLellan	50-55
Some Observations on Orthoptic treatment following head injury R.Chandler	56

BOJ Volume 3, 1945

A Surgeons View of the development and future of Orthoptics OM Duthie	13-19
Orthoptics in Industry J.Strang	20-27
Orthoptics under the education committee BM Baker	28-29
Some American Methods of Orthoptic Treatment LB Billingham	30-33
Myopia and Pseudomyopia JP Spencer Walker	34-38
The Art of Seeing R.Sparrow	39-43
Binocular Vision AB.Nutt	44-47
Experimental work in stereoscopic vision and visual acuity JH Swift, NF Balkwill	48-52
Advantages and disadvantages of the myotomy of the internal rectus muscle A.Wynn Green	53-56
Surgical and Orthoptic treatment of varied types of ocular motility Imbalance J.Bradley	57-71
Treatment of convergence deficiency S.Mayou	72-82
Doubts and Difficulties E.Exner	83-86
Cases treated in the Orthoptic department of the Birmingham Eye Hospital AB Curry	87-89
Squint Cases seen in the outpatient department J Parker Smith	90-94
Observations and Occlusion BM Voisey	95-97
Interesting cases of diplopia	98-99

F Taylor

Experiences in hospital and private practise
HG Lee

100-102

BOJ Volume 4, 1947

What is Orthoptics? WB Lancaster	21-29
The Role of Orthoptic treatment D Mann	30-34
Anew Method of Developing Normal Retinal Correspondence S Mayou	35-38
The Modern Technique of Squint Operations A Seymour Phillips	39-47
The Adoption of Rhythmic illumination for Orthoptic Treatment H Cotter	48-53
Some Problems in the Diagnosis of symptom Production Heterophoria TK Lyle	54-64
Orthoptic in the Royal Air Force R Rowe	65-74
Some Aspects on the treatment of Squint AB Nutt	75-79
Divergent Strabismus E Stringer	80-82
Are Orthoptics Really Necessary? P Merory	83-84
A Survey of Esophoria and Ciliary Spasm G Irvine	85-95
The Choice of Operation in cases of squint LHG Moore	96-102
Accommodative Squint associated with emmetropia KM Parson	103-104
The Relationship between the Ophthalmic Surgeon and the Orthoptist RD Weedon Butler	105-106
Abnormalities of accommodation in cases of heterophoria B Hare	107-108
Muscle Imbalance and Squint M Ranken	109-110
The Occlusion of infants	111-113

M Lyon

The Effect of Operative Alterations in the height of the external rectus
Insertion 114-116

J Foster, EC Pemberton

Views of selecting Suitable Cases of heterophoria for Treatment 117-119
E Stringer

The History of Orthoptics 120-121
JH Austin

An Orthoptist with the Royal Air Forces at home and overseas 122-134
B Mayou

Esophoria 135-136
P Ward

Proprioceptive Reorientation 137-138
E Pemberton

Some Observations on Operative Results 139-142
IV Banks

Homework exercises in the treatment of heterophoria 143-144
M Bell

Notes on bar reading 145-147
P Ward

Some attempts to shorten treatment for country patients 148-149
EB Dolan

Case Notes of Special Interest 150-156
Inferior Oblique Overaction 150-151
S Mayou

Ocular motility imbalance with disease 151-152
B Mayou

Accommodative Spasm 152-153
B Hare

Compensated Heterophoria 153-156
B Mayou

BOJ Volume 5, 1948

Movement disorders of the Eyeball P Sandifer	18-32
A Review of Orthoptics in Northern Ireland D Rankin	33-44
Some New Ideas in the treatment of a fully accommodative convergent squint S Mayou	45-49
Sidelights on the inferior oblique muscles J Ringland Anderson	50-61
Orthoptics in perspective D Salisbury	62-65
Some Observations on the treatment of the ARC M Brooke	66-68
Intermittent divergent squint Miss Thornhill	69-72
Eleven years experience of posterior marginal myotomy and orthoptic training R Lang	73-77
Selection and Orthoptics treatment of adult cases P Ward	78-81
Brazilian Interlude B Mayou	82-83
Le Traitement non Operatoire du Strabisme Concomitant SB Vallon	84-93
Overaction of the inferior oblique J Mein	94-98
Observations based on a Survey of 3 years Orthoptics in a small department R Scott	99-102
Statistical Tables	103-116
An Adjustable bar reader K Parsons	117-118
Eye exercises – self help C Maclagen	118-119

Case of bilateral superior oblique paresis following Cerebral decompression BL Goswell	120-122
Right concomitant convergent squint with onset at 11 months and binocular single vision postoperative S Chalmers	123
Vertical Paralysis with binocular single vision postoperatively FB Badcock	124
Vertical Paresis with convergence deficiency JF Mills	125-127
Re-education of binocular vision in a case of monocular aphakia BL Goswell	128-129
AHP in 2 cases of lateral rectus palsy JF Mills	132
A Case of Traumatic diplopia S Mayou	133

BOJ Volume 6, 1949

Suppression in normal and abnormal Binocular vision NM Brooke	16-21
A Review of the treatment of convergent squint I Llyod	22-23
The Psychological approach to Orthoptics ME Holland	24-27
Aniseikonia Lord Chernwood	28-31
Varying Responses to tests for Binocular vision in cases of divergent squint S Heetly-Spencer	32-36
Heredity in Orthoptics SH Faulkner	37-41
Vertical deviation associated with convergent squint J Mein	42-49
The Hess screen test with Mirror dissociation VT Lees	50-55
Barriers and Aids to Fusion M Eyles	56-61
Experiences in the treatment of squints EM Mitchell	62-69
Selection and treatment of cases in a single handed orthoptic clinic FMS Ganam	70-72
Contact Lenses C Knott	73-75
The Value of Orthoptic investigation in the prescription of contact lenses Orthoptics dept, Moorfields Eye Hospital	76-80
Brains Trust S & B Mayou, G Vaughton, TK Lyle	81-88
Functional Home exercises in cases of eye strain M Eyles	89-93
The Phoro Optometer H Cotter	94-104

Convergent squint with lack of fusion and response to orthoptic treatment 105-106
EC Anderson

Convergent squint becoming Postoperative divergent squint 106-107
EC Anderson

Deficient movement of left inferior rectus with overaction of right superior 108
oblique
S Mayou

BOJ Volume 7, 1950

Observation on the State of Binocular Single Vision Existing in the Non-Squinting child, and that, restored in cases of convergent squint, by refractive, Orthoptic and Surgical treatment. DD Rankin	23
Treatment of Convergent squint associated with hypermetropia G Vaughton, M Stewart	36
Some Observations on the development of binocular vision following operation in cases primarily regarded as having poor prognosis GTW Cashell	45
A few problems in Australia DE Balfour	51
The work of an Almoner in an Eye Hospital D Collis	56
Contact Lenses AG Cross	58
Orthoptics and Contact lenses S Mayou	63
Inauguration of the New Orthoptic Dept of the Westminster Branch, Moorfield Westminster and Central Hospital London WC1	70
The Use of Orthoptics in the diagnosis and treatment of Diplopia F Janus	74
The Decompensation Factor in Adult Squints N Boyle	70
Comments on the psychological significance of Vision, Derived from a study of certain cases RD Scott	83
A Years work in an Orthoptic Training School – April, 1949- March 1950 FB Badcock, BL Gosnell, JF Mills	96
A Students Conference D DaCunha	99
Some Observations in Switzerland and Egypt MJ Roper-Hall	101
A Review of the Treatment of Squint I Lloyd	105

The Potentialities of the Pigeon-Cantonnet Steroscope DD Rankin, PB Dowler	107
Selection of cases for orthoptic treatment and orthoptic management of a new case	115
Orthoptics in Amsterdam R Scott	122

BOJ Volume 8, 1951

A cross section of cross eyes J Ringland Anderson	14
Abnormal Head Postures M Fitton	34
Some Observations on the expectation of the development of binocular Single Vision RA Scott	43
Investigation into Peripheral Fusion NW Boyle	50
Convergence Deficiency: An Occupational Study A Smith	56
An Examination of the Aetiology and Treatment of small convergent deviations, associated with a low degree of hypermetropia with a new approach to the treatment of this condition R Gittoes-Davies	71
Oxford Conference Some recent developments in the treatment of manifest and latent squint with particular reference to the use of convergence exercises BM Lee	85
A Study of divergent Strabismus in Australia R Holt	95
Some limitations of Orthoptics A Wells	101
Plastic Surgery of the eyelids and orbit DN Matthews	108
Clinical Meeting, British Orthoptic Society, 27 th October 1951	118
Prognosis in abnormal retinal correspondence AMB Shepherd	119

BOJ Volume 9, 1952

Circumstances leading to the development of squint EB Alabaster	11
The Long-term outlook on Accommodative squint KM Parsons	15
The terminology of Ocular rotations A Stanworth	18
A Survey of intermittent convergent strabismus, apparently due to insufficiency of the harmonic reflex T Robinson	28
The theory of dysfunction of accommodation in the convergent squints of Childhood I Lloyd	40
Survey of a series of cases of accommodative strabismus PB Dowler	46
The influence of the vestibular apparatus on Ocular Movements T Cawthorne	52
Headaches LH Savin	57
Some inaccuracies in visual perception J Gloster, B Chir, R Harrison, J Vertigen	58
The Students conference	72
Anomalies of fusion: The Signature of Accommodative in Orthoptic Treatment M Stewart, G Vaughton	75
Aids in teaching Ophthalmic Optics EJ Naylor	81
Observations on squint therapy in Switzerland A Meyer	89
A Case of Divergent Strabismus J Mein	94
Australian new-letter I Martin	96
Eccentric Fixation with Variations J Bagshaw	98

The Young Deaf Child CM Corbishley	103
A Survey of accommodative squint M Fitton	106
An Examination of classes of small degree Esotropia R Gittoes-Davies	113

BOJ Volume 10, 1953

Congenital Anomalies of the Extra-Ocular Muscles HE Hobbs	3
A Changed approach to abnormal retinal correspondence M Levinge	10
Peripheral and Macular Fusion JE Winkelman	20
The Suppression Theory H Asher	23
Modified Combination of the Lancaster and Hess Tests J Foster, EC Pemberton, J Bagshaw	32
Vertical deviations in horizontal squint RA Crone	37
Aetiology and treatment of paralytic squint WOG Taylor	40
Nystagmus CRS Jackson	51
Some therapeutic contraindications in the treatment of squint F Janus	54
Partially sighted children and their education PMcG Moffat	58
Education in schools for the partially sighted EE Weavers	59
The Cerebral Palsied child at school MA Budd	64
Orthoptics in Belgium MA James	68
Four Years of Orthoptics in the Zurich Universitats-Augenklinik C Braun J Boissonnas	71
Occlusion Clinic E York	76
Total Occlusion S Mayou	78
Case Notes Right Convergent concomitant strabismus, later complicated by paralysis of left Lateral rectus DD Rankin	79
Gross ex-cyclophoria in unilateral Aphakia J Foley	80
Unilateral Aphakia, originally myopic, with anisometropia J Foley	81
Left convergent strabismus (tonic type) treated in infancy R Holt	82

BOJ Volume 11, 1954

Orthoptic investigation in unilateral aphakia	3
J Foley	
Clinical significance of the contact lens in orthoptics	10
F Riley	
Accommodation reflex	13
FW Campbell	
Some Observations on accommodation-convergence synkinesis	18
WM Walker	
Role of cortisone in ocular disease	23
C Cook	
An Answer to the suppression theory	32
Lord Charnwood	
Amblyopia and strabismus	38
CM Ferguson	
Evolution of spectacles	43
L F Whitaker	
Occupational therapy, treatment, and training	52
M Smith-Rose	
Measuring the Angle of Squint	57
JG Van Den Bosch	
Orthoptic Forum	60
British Orthoptic Society: Oxford Congress	65
Surgery and Sensory adaption in binocular vision	66
GTW Cashell	
Vertical Deviations in Children	80
PB Dowler	
Treatment of small vertical deviations	86
BL Gosnell	
Treatment of Cerebral Palsy by the inhibition of abnormal reflex action	88
K Bobath and BO Bobath	
New methods of overcoming suppression	99
ODM Goodall	
Suppression and post-operative diplopia in relation to the sensory pattern	104
M Marsh	
Post Operative Central Suppression	110
J Bagshaw	
Case Notes	
Alternating convergent strabismus with alternating hypertropia where	112
A functional result followed treatment	
R Gittoes-Davies	
Intermittent divergent squint of mixed type treated by surgery	113
ODM Goodall	
Decompensated Esophoria complicated by accommodative spasm	114
J Boardman	

BOJ Volume 12, 1955

Observations on the aetiology and treatment of the vertical congenital Ocular Palsy AB Nutt	4
The Place of fixation in orthoptic procedure JE Lancaster	21
Investigations and treatment of cases of strabismus and heterophoria In which surgery is contemplated L Billinghamurst	26
The Orthoptic Department, past, present and future S Mayou, FD Badcock, BR Finlayson and BL Gosnell	33
Importance of the History in the prognosis of convergent squint P Kempe	41
Abnormal retinal correspondence Y Maurer	48
Investigation of abnormal retinal correspondence and eccentric fixation H Cotter	71
A note on abnormal retinal correspondence S Mayou	75
Aetiology of convergent strabismus RW Stephenson	77
Spontaneous Divergence in cases of convergent strabismus JS Groves	79
Further ideas on selection and treatment of small degrees of Convergent strabismus	85
Observations on the psychological aspect of early surgery for squint L Billinghamurst	89
Case notes Two patients with Amblyopia of the left eye showing usual response to Synoptophore tests MH Fitton	91
Left Convergent strabismus with Aniseikonia PB Dowler	93
Left convergent strabismus (accommodative type) with underlying Paresis of the left superior oblique PB Dowler	95
Consecutive divergence following surgical correction of a lateral Rectus palsy incurred in adult life CM Stewart	97
Apparatus AT Wagstaff	99

BOJ Volume 13, 1956

Use of bifocal spectacles in the treatment of accommodative esotropia	3
HM Burian	
Some Psycho-physiological aspects of vision related to orthoptic procedure	7
MAD Eyles	
Reaction to young children to admission to hospital	14
RS Illingworth	
Prevention of emotional sequelae in young children during operation	18
For strabismus	
P Pinkerton	
Value of occupational therapy for hospitalized children	21
BG Collins	
Results of early operation for strabismus	28
JA McCann	
Overaction of the inferior oblique muscle. A description of six cases	33
AB Nutt	
The Retraction Syndrome. An Analysis of cases	48
Read by Joyce Mein, representing the Sheffield United Hospitals Orthoptic Training School	
Scope of Speech Therapy	65
CE Renfrew	
Progress in Orthoptics	72
DA Campbell	
America Revisited	75
L Billinghamurst	
Television Trainer	82
EC Anderson	
Use of Sight Saving Schools in the Supervision of Amblyopia Ex Anopsia	86
J Bruce Hamilton	
Intermittent Divergent strabismus	89
D Thornhill, EA Cameron, A Bonsor	
Case Note	
Marked vertical strabismus, controls of deviation being associated with	96
Bilateral vertical nystagmus and abnormal head posture	
D W Hall	

BOJ Volume 14, 1957

Ophthalmoplegia in systemic disease	4
K Wybar	
Observations on the surgical treatment of strabismus	11
AB Nutt	
Observations on convergent strabismus associated with defective movement Of the superior oblique muscle	29
ME Wesson	
Reflections on the Aetiology of strabismus	39
I Lloyd	
Pleoptics	43
H Gale	
New ideas gleaned in foreign clinics for the treatment of Amblyopia Especially that due to eccentric fixation	47
R Downey	
Contribution to discussion on pleoptics	53
J Foster	
Orthoptics in Lyons	56
CM Douthwaite	
A case of eccentric fixation in an adult in which central fixation has Has been restored	61
E Stringer	
Treatment of Amblyopia secondary to anisometropia	68
JW Bishop	
Pilocarpine in the treatment of accommodative strabismus	75
V Mead	
Application of physiotherapy to the treatment of acquired Ocular palsy	82
JM Egerton	
Mayou Bar-reader	88
S Mayou	
Mental effort ion orthoptic treatment	91
M Crane	
Suggestions for comprehensive History-taking	94
L Billinghamurst	
Further Observations on the hospitalization of children with strabismus	97
1. H Ditchman & S Finch	
2. M Marsh	
Case Notes	
Ciliary Spasm	101
JB McLeod	
Some interesting cases of adult strabismus	106
JM Hancy	
Unusual case of convergent strabismus	107
PP Beale	
A Case of uniocular Aphakia	109
J Tremlett	
Annotations	
Incidence of divergent squint among fair-haired people	111
A Morgan	
Training convergence on the synoptophore	112

ME Wesson
Viewing television
ME Wesson

113

BOJ Volume 15, 1958

Retrospective Diagnosis	3
JH Doggart	
Mechanism of Amblyopia	16
ES Perkins	
An introduction to the study of pleoptics	23
K Wybar	
An investigation of pleoptics	27
C Douthwaite, B Lee	
Amblyopia	36
R Downey	
Diplopia and ocular palsies ion relationship to general medicine and Neurology	55
SP Meadows	
Diplopia following Injury	61
AB Nutt	
Use of drugs in treatment of strabismus	73
RW Stephenson	
Results of early surgery for strabismus	77
GJO Bridgeman	
Need for research in orthoptics	82
ZJ Bryer	
Prevention and treatment of amblopia ex anopsia in the school health service	86
S Sutcliffe	
Treatment of suppression	98
R Pigassou, M Chadourne	
Accommodative strabismus with convergence excess	103
K Parsons, R Salisbury	
Treatment of accommodative strabismus with convergence excess	109
S Sutcliffe	
Orthoptics in the USA	113
EB Stanley	
Elimination of suppression	120
AM Adams	
Three cases of acquired paralytic strabismus with unusual reactions To diplopia	122
PB Dowler	
Correspondence	124
Hospitalization of young children	
RAD Crawford	

BOJ Volume 16, 1959

“twenty-one”	3
S Mayou	
Orthoptic treatment of concomitant strabismus	7
T Keith Lyle	
Indications for superior oblique surgery	21
K Rubinstein	
Adaptions of the squinting eye	41
P Jameson Evans	
Cause of accommodative strabismus	51
EF Fincham	
Treatment of accommodative strabismus with convergence excess	60
S Mayou	
Research into migraine	66
EL Tonks	
Occupational orthoptics	75
CRS Jackson	
Small-angle strabismus and the modified major amblyoscope	85
A Stanworth, D Da Cunha	
Methods and standard of investigation of strabismus in Great Britain and on the Continent of Europe	91
H Gale	
Spectacles for low visual acuity	100
BK Russell	
Some observations on the use of contact lenses in the treatment of anisometropia	104
J Dixon	
Incidence of Amblyopia in children with strabismus	109
EJ Naylor, AG Wright	
Some comments on the question of early operation	114
A Bonsor	
Importance of correcting vertical deviations	119
R Gartenberg	
Orthoptics in Ceylon	123
T Tissera	
Development of concomitance	126
J Mein	

BOJ Volume 17, 1960

Visual screening of 3 year old children	1
S Sutcliffe	
Accommodative Esotropia	12
HM Burian	
Report on pleoptics	21
C Douthwaite	
Punch card for recording deviations of the binocular imbalance	32
GH Jonkers	
Clinical signs and diagnosis of the A and V syndromes	43
ME Wesson	
Ocular complications in Thyroid Disease	55
AB Nutt	
Anisometropia and Amblyopia	66
PR Stevens	
Ocular electromyography in disorders of motility	74
SI Davidson	
Management of unilateral Aphakia	82
K Rubinstein	
Some results of the use of Di-isopropyl-fluorophosphate in the treatment of Strabismus	87
E Stanley	
Effect of the passage of time on accommodative strabismus of the convergence excess type	93
AR Parker	
The evil eye and its relation to squint	99
B Brooke and V Rayner Smith	
3 years experience of orthoptics in Munich	104
B Thatcher	
Case notes:	
Acquired bilateral sixth nerve palsy in a child	110
MC Ward	
Third nerve palsy with loss of fusion	114
SL Wade	
Persistent Diplopia	116
D Thornhill	

BOJ Volume 18, 1961

Recent developments in the treatment of Amblyopia	1
PA Graham	
Amblyopia in anisometropia	9
B Usher Killen	
Simple anisometropia and Amblyopia	13
J Robinson	
Prevention and treatment of Amblyopia in the young child	27
ME Wesson	
Principle of ophthalmoscopy	32
AN Cameron	
The Pleotophore	42
K Bullock	
Observations on pleoptic treatment in Missouri USA	48
J Plowright	
Occlusion of the amblyopic eye	52
MC Ward	
Alternating sursumduction or dissociated vertical divergence	61
T Keith Lyle, J Wilkinson	
Some practical observations on alternating Hyperphoria	78
AV Maclellan	
Some factors concerned in the production of heterophoria	84
K Wybar	
Assessment of the results of orthoptic treatment in heterophoria	87
ZJ Bryer	
Esophoria with particular reference to the divergence weakness type	90
J Mein	
Convergence Excess	95
J Bagshaw	
Hereditary tendencies to congenital muscular anomalies	100
SA Bekenn	
Primary divergent strabismus	106
IB Hall	
Orthoptic treatment of intermittent divergent strabismus of the divergence excess type	110
I Durran	
Intermittent divergent strabismus of the divergence excess type	114
ME Wesson	
Orthoptic treatment of loss of convergence and accommodation caused by road accidents ("Whiplash" injury)	117
M Anderson	
A defence of the use of the cover test to estimate the angle of deviation	121
SA Bekenn	
Case notes: A fully accommodative strabismus becoming a large constant	124
Manifest deviation with no predisposing cause	
S Gibbons	

BOJ Volume 19, 1962

Pleoptics Symposium: Foreword	1
T Keith Lyle	
Principles underlying the treatment of Amblyopia	2
AB Nutt	
Modern therapy of suppression Amblyopia	8
R Sauberli	
Recent developments in pleoptics	13
JW Walker	
Treatment of Amblyopia by inverse occlusion and pleoptics	19
W Barnard	
Dark-adaption in amblyopes	31
H Saiduzzafar and M Ruben	
Pleoptics in the USA	35
MH Fitton	
Unilateral Aphakia	39
CM Ruben	
Survey of patients referred for Orthoptic examination from the Contact lens department	62
Y Maurer	
Some children's diseases seen by an Ophthalmologist	80
MAC Jones	
Brain Tumors and their effects	85
E Turner	
Recession of the inferior oblique	95
OO Ffooks	
Mitosis and strabismus	102
J Whitewell	
Anomalies of accommodation	113
B brooke	
Binocular vision after treatment for convergent squint	119
A Stanworth, EJ Naylor	
Cases of accommodative strabismus discharged as Orthoptically Satisfactory	126
BL Goswell, SA Finch	
The AV Syndrome	133
AG Gross	
Photography in the Orthoptic Department	136
Y Maurer	
Case note: Gross Anisometropia	141
A Dayson	
Use of Physiological diplopia in treating strabismus by means of the Gillie Diploscope	144
J Calder Gillie	

BOJ Volume 20, 1963

Neurological significance of disturbances in ocular motility	1
W Papst	
Head postures in Labyrinthine defects	12
J Kodicek	
Abnormal head posture	18
AB Nutt	
Diagnosis of visual defect in early childhood	29
MD Sheridan	
Early surgery of strabismus	37
A Arruga	
Convergent squint of early onset results of treatment	45
GJO Bridgeman	
Incidence of spontaneous improvement in convergent strabismus	54
D Rankin	
Use of transparencies in the treatment of accommodative strabismus of The convergence excess type	64
A Kane	
Significance of peripheral Fusion	69
J Hughes, AJ MacKinlay	
Surgical treatment of Ptosis	79
PL Blaxter	
An approach to heterophoria	87
D Craig	
Physiological diplopia	91
DM Jester	
New visual aid for demonstrating projection and optical correction	95
Y Maurer	
Te Graph Chart	100
E Lowndes Yates	
An Orthoptic Cabinet	109
BL Gosnell	
Case note: Secondary convergence spasm following primary failure of Accommodation	112
J Bagshaw	

BOJ Volume 21, 1964

Entopic Phenomena in the treatment and diagnosis of strabismus	5
M H Fitton	
The ocular significance of abnormal head postures	14
ME Wesson	
Nature and cause of squint of early onset	29
AA Douglas	
Fact-finding with a punch card system	50
FB Badcock	
Disturbances of vision that result from head injury	59
P RR Clarke, GF Rowbottom	
The deviation behind a cover	63
N Cridland	
Near vision testing in young children	68
GL Cantrell	
Management of eccentric fixation	73
I. Children up to the age of 5 years – J Steer	
II. Children aged 5 years and over – J Mein	
Treatment of eccentric fixation by the red filter method	83
K Bullock	
Symposium on planning research	85
I. what is meant by casual connexions – PG Espinasse	
II. Judging significance – RJ Nicholson	
III. Planning a research project – DD Stenhouse Stewart	
Micro-corneal lenses in unilateral aphakia	93
GT Willoughby Cashell	
Obesity and ophthalmology	98
JH Doggart	
Observations on the role of vision in human learning	103
SH Haskell	
Hypermetropic anisometropia	106
CRS Jackson	
Anisometropic Amblyopia	111
BL Gosnell	
Correspondence	
BE Lewis	
E Rivers	
Improvement in the visual acuity in anisometropic Amblyopia treated by glasses alone	
SL Wade	
Case notes – alternating inferior oblique “Palsy”	116
J Mein	
Appliances – a selective occluder	120
M Ruben	
A visit to North America 1963	122
BM Lee	

BOJ Volume 22, 1965

Cyclotropia due to bilateral superior oblique palsy caused by head injury T Keith Lyle	2
Neuropathological aspects of visual disturbance L Wolman	10
Some aspects of surgery of the vertically-acting extra-ocular muscles M C Handscome	23
Atropine treatment for Amblyopia ex anopsia RF Lowe	35
Punch-card recording of squint statistics EJ Naylor	43
A survey of the results of early surgery for strabismus carried out in The North of England J Bagshaw	53
The risk of rubella in pregnancy C G Parsons	63
Ophthalmic problems in spina bifida and hydrocephalus RB Zachary	70
Ocular changes in hydrocephalus UK Goddard	72
Loss of fusion following brain damage SL Wade	81
Strabismus in cerebral palsy VH Smith	84
The single optotype OOF Ffooks	95
The symbol test. A new test for visual acuity OOF Ffooks	98
Two cases treated by pleoptic methods J Walker	101
The treatment of intermittent divergent squint of the divergence excess type P catterall	104
Theory in orthoptics illustrated by means of the horopter concept DF woodhouse	112
Case notes – allergy to phospholine iodide C Good	118

BOJ Volume 23, 1966

The electrical detection of eye movement	1
JH Kelsey	
A modified corneal contact lens: Binocular single vision in uni-lateral aphakia	19
J Bagshaw, SP Gordon, A Stanworth	
Tucking of the superior oblique	31
J Nolan	
Fixation disparity	41
K Bullock	
Vision screening of school entrants	48
A Ainsworth, A Greenwood, S Zintel, PR Stevens	
Anisometropic Amblyopia, Axial length in strabismus and some observations	57
On spectacle correction	
CI Phillips	
Abnormal head shapes associated with ocular defects	62
ME Wesson	
The "heavy eye" phenomenon: a preliminary report	75
J Bagshaw	
A Backward look at orthoptics	79
AA Douglas	
A comparison of conventional and aniseikonic slides used as a synoptophore	90
Screening test for binocular function in unilateral aphakia	
M Adams	
Another look at pleoptics in St Gallen and Giessen	96
KE Bullock, VA Hughes	
Incidence of ocular disease and asthenopia related to age and type of work	100
J Lambert	
A work teaching aid for orthoptics and ophthalmology	108
DML Willimas	
The Miniature red and green cross	112
EC Lowndes Yates	
The rotating pinhole	114
EC Lowndes Yates	
Case notes	
A Case of apparent intermittent overaction of the left superior oblique	116
E Clarke	
Unilateral spasm of accommodation and transient convergent squint	118
Due to an anxiety neurosis	
AW Sollom	
A case of right convergent strabismus with some Amblyopia	120
S Mayou	

BOJ Volume 24, 1967

Ocular and ocular muscle anomalies in thalidomide children	2
JF Cullen	
Some ocular manifestations of myopathies	15
DP Greaves	
Some aspects of vision in infants	25
GL Ruskell	
Visual problems and cerebral palsy	33
O Ffooks	
Problems or teaching cerebral palsied children	42
ML Slather	
The significance of squint in certain forms of malignant disease	47
K Wybar	
The incidence of squint in minimally handicapped children	53
W A Venebals	
The anatomical basis of the pupillary reflexes	56
WN Dugmore	
The management of exophthalmic ophthalmoplegia	63
CAL Palmer	
The use of double-focus glasses in the treatment of convergent strabismus	82
MA James	
Congenital Glaucoma	90
A Lister	
Research techniques in orthoptics	102
M Fitton	
Reliability of the Phi Phenomenon in Normal subjects	107
JH Goldstein	
Low visual acuity aids and pleoptic treatment. Their application	109
In eccentric fixation following a loss of vision in the fixing eye	
N Hudson, JW Walker	
Pleoptic treatment of adult patients using simple equipment	116
G Tillson	
Contact lenses used as occluders	120
M Ruben, J Walker	
A new E Chart	126
GH Jonkers	
Heterotopia of the Macula. Pseudo-eccentric fixation	129
S Hudson-shaw	
A case of acquired intermittent inferior oblique "palsy"	132
PV Milles, MA Coate	

BOJ Volume 25, 1968

The Dual nature of human extra-ocular muscle	2
NA Locket	
The A and V phenomena	12
A Stanworth	
Factors influencing decompensation	29
J Mein	
Some aspects of orthoptic treatment in cases of fully accommodative strabismus	37
MB Unwin, JM Rogers	
The limitation of suppression to one half of the visual field in the	42
Pathogenesis of strabismus	
MH Gobin	
A New approach to esophoria	40
S Mayou	
5 year survey of the use of occlusion in the treatment of eccentric fixation	66
A Dayson	
Review of results of contact lens trial s at the orthoptic department of the	75
Birmingham, Midland eye hospital between Jan 1966 and Sept 1967	
J Davies, M Panter	
A classification of intermittent squint	82
G Roper-Hall	
Case notes:	
Heredity in the superior oblique tendon sheath syndrome	91
M Gowan , J Levy	
A case of co-existing normal and abnormal retinal correspondence	94
HG Bredemeyer, K Bullock	
Correspondence: Pleoptics with children	97
M Cawood	
First international congress of orthoptics, 1967	100
BM Lee	

BOJ Volume 26, 1969

The objective assessment of visual function in young children RB Harcourt	1
Neurophysiology and assessment of visual function in children OO Ffooks	10
Sensory phenomena associated with suppression JA Pratt-Johnson	15
A Critical look at the significance of binocular vision W Martin Walker	25
Microstrabismus J Lang	30
Small-angle squints – theory and practice A Stanworth	38
From Orthophoria to microtropia RA Crone	45
Surgery of the cornea D Ainslie	52
The external ophthalmoplegia of myasthenia gravis IA Chisholm, A Marshall	57
Clinical electromyography of the extra ocular muscle IM Strachan	60
Convergence accommodation and convergence excess EJ Arnott	68
Problems in the treatment of squint CRS Jackson	76
A medical teams visit to Afghanistan A Gilbertson	80
Observations on disturbance of gaze movements RJS Smith	83
The cover test – a guide to its diagnostic and prognostic potential Y Maurer	91
A survey of patients showing transfer of Amblyopia from the originally deviating eye to the originally fixing eye by means of occlusion therapy HM Goodier	103
Case notes: Another case of co-existing abnormal retinal correspondence and Normal retinal correspondence M Wooler	111
Consecutive convergent squint in and infant C Good	114
Paralysis of accommodation C Good	116

BOJ Volume 27, 1970

Orthoptics in orbital injuries	3
Orthoptic dept, Hallamshire hospital Sheffield	
Injuries around the orbit	37
JB Garston, J Kirkpatrick	
Substitution movement in congenital horizontal gaze palsy	51
ME Gowan, J Levy, RJS Smith	
Orbital wall fractures	58
P Fells	
Malfunction of the superior oblique muscle	70
EM Middleton, IA Chisholm	
Genetics and Duane's syndrome	74
TH Kirkham	
Dyslexia	82
S Naidoo	
Assessing the prognosis in strabismus	90
V Rayner-smith	
Reaction of children to hospitalization from strabismus surgery	100
G Roper-hall	
Strabismus following measles vaccination	108
TH Kirkham, VA MacLellan	
An interoculotomy treatment for eccentric amblyopias too old for usual	110
Methods	
L Casellato	
Estimation of the AC/A ratio by comparison for near and distance	113
Prism cover test measurements	
S Polychroniadis	
Reversed or alternated eccentric fixation	118
G Roper-hall	
A method of estimating near visual acuity in young children	123
D Coxon	
Case note:	
A case of variable defective movement of the right superior oblique muscle	125
S Foster	

BOJ Volume 28, 1971

Anomalous fusion in congenital trochlear paralysis	2
R A Crone, N Lafaut	
Further investigations of the AC/A ratio	11
EJ Arnott, KT O'Callaghan	
Unusual results of vertical muscle surgery	23
A Stanworth	
The surgical management of the Duane syndrome and of sixth nerve paralysis	32
MH Gobin, J Bierlaagh	
Orthoptic investigation and management of orbital fractures	42
R Watts	
Diagnostic and therapeutic difficulties in ectopia maculae	55
M Chedgzoy, LMT Collum	
Early surgery in strabismus patients	60
C Calcutt	
Practical considerations for the use of contact lenses in orthoptics	66
SP Gordon	
Superior oblique tendon sheath syndrome	70
J Mein	
Treatment of eccentric fixation	77
LJ Pope	
Computers in hospitals	83
DW Porter	
Trial of black lined total occluders	93
R Watts	
Case notes:	
Loss of fusion after removal of cerebellar tumour	97
A Stanworth, J Mein	
Loss of central fixation following occlusion	99
HA Thompson	
A case of ophthalmoplegic migraine	102
S turner	
Acquired apparent superior oblique tendon sheath syndrome	112
J Sims	

BOJ Volume 29, 1972

Hydrophilic contact lenses	1
Contact lenses. Introduction: Aphakia, anisometropia and astigmatism	8
A Stanworth	
The management of children in contact lenses	17
JB Johnston	
An examination of a new method of screening young children for	22
Defects in visual acuity	
CT Hart	
Orbital fractures	25
GM Bleeker, JPA Gillisen, TH Oei, HH Verkerk, HJ Peters	
Survey adult cases treated with stepped Fresnel prisms	46
MEA Dayson, RC Kempster	
Social factors in strabismus a pilot study	56
W Massoud, S Nissim, WM Barnard	
Patterned visually evoked responses in Amblyopia	62
VJ Marmion, MA Coate	
The treatment of Amblyopia in patients with latent nystagmus	70
C Calcutt, W Cook	
A view on research	73
T Posner	
Case notes:	
A case of cyclic oculomotor spasm in a Sudanese patient	76
E Hadi, E Sheikh, A Gadir Mohammed	
A case of occlusion Amblyopia with constant diplopia	80
C Scott	
Review of literature 1971	84
MH Fitton	

BOJ Volume 30, 1973

Disturbances of the supranuclear control of ocular movements	3
G Roper-Hall	
Acquired ocular palsy	17
F Clifford Rose	
Aspects of the Ocular vergence system	23
TH Kirkham	
The relevance of visual fields in orthoptics	31
J Nolan	
Ocular manifestations of myasthenia gravis	38
PE Cleary	
Diplopia as a presenting symptom	52
JMS Yapp	
The possibility of predicting the appearance of strabismus	66
P Kramar	
Prediction of strabismus. Family history and refractive error in children	74
Under the age of 2 years	
RM Inram	
A review of cases of squint referred from school clinics	81
CRS Jackson, WO Petrie	
Colour vision testing in ophthalmic disease	88
IA Chisholm	
Strabismus and methods of space	92
E Aulhorn, B Bagolini, R Pigassou	
Case notes:	
An atypical case of musculofascial anomaly	101
S Polychroniadis	
Review of literature, 1972	104
MH Fitton	

BOJ Volume 31, 1974

Random dot stereograms	1
JP Frisby	
Periodic alternating deviation with associated periodic alternating nystagmus, head turn and esotropia	9
G Roper-hall	
Investigation methods in neurological disease	16
JG Graham	
Aneurysm-induced oculomotor palsies with particular reference to aberrant regeneration	28
V Spooner	
Some skull deformities and their surgical correction	35
JM Smail	
Orbital blow-out fractures. To operate or not to operate that is the question	47
B Dulley, P Fells	
Some results of conventional occlusion	55
HM Goodier	
A survey of cases of eccentric fixation in children up to 10 years of age, seen during the last 10 years	59
A Pilgrim, S turner	
A survey of Amblyopia treated by atropine occlusion	65
AP Swann, CD Hunter	
Cyclotorsion – A New method of measurement	70
B Dulley, A Harden	
The Phase-difference haploscope of alhorn and its comparison in Clinical use with the synoptophore	78
V Rayner-smith	
Defective vision in children	83
I A R Brown	
Defective accommodation in young children	91
A Karseras, B Unwin, K Wybar	
Defective dissociation of accommodation and convergence in dyslectic Children	96
E Hammerberg, MS Norn	
Case notes:	
Hypotropia caused by thyroid dysfunction. A case of spontaneous recovery	99
D Thornhill	
A case response to occlusion in secondary divergent squint	107
P Dobinson	
A case of divergent paralysis	109
S Foster	
Review of literature 1973	111
HA Thompson	

BOJ Volume 32, 1975

A possible neurophysiological basis for Amblyopia	2
H Ikeda, MJ Wright	
Bilateral eccentric fixation	14
J Mein	
The assessment of visual function in young children	21
JW Howe	
Acuity measurement in the young	28
GV Catford	
The work of a paediatric assessment unit	34
M Hommers	
The visually-evoked response	37
J H Kelsey	
The superior oblique: Its actions and anomalies	43
P Fells	
Single medial rectus recession in convergent deviations	54
R Gupta, I Gayed, A Dayson	
Surgical management of vertical deviations	59
MH Gobin	
Duction measurements in limited ocular rotations	70
G Roper-Hall	
Acquired paralytic squint in children	77
J Gibb	
Ocular muscle palsy associated with skull-pelvic traction	87
B Lewis	
Chronic progressive external Ophthalmoplegia	95
G Roper-hall, RM Burde, TG Klingele	
Glaucoma techniques: The role of the Orthoptist	103
L Foster, C Wortham	
The enigmatic squint	111
GS Willets	
Ophthalmic miniature:	
A true subjective uniocular test in "free space" for depth perception	118
M Wesson	
Case notes:	
Alternating sursumduction developing after surgery in identical twins	119
J Woolley	
Two cases of unilateral vertical nystagmus	122
P TC Docherty, C Lee	
A Case of consecutive Esotropia	124
J Davies	
Review of literature, 1974	126
H A Thompson	

BOJ Volume 33, 1976

Management of Glaucoma in a general hospital	3
F Barnett, PG Watson	
Cerebrovascular disease and the eye	12
R Capildeo	
The influence of laterality on Anisometropic Amblyopia	17
V Rayner-smith	
The changing role of orthoptics in dyslexia	22
P Dunlop	
Ocular side-effects of drugs	29
J Whitwell	
The development of sight	37
M Ruben	
Prognosis for binocular vision in monocular trauma	44
V Greenstein, JH Goldstein, RI Adler and E Karp	
Projection and diplopia	48
M Amphlett	
Vertical gaze anomalies	58
G Roper hall	
Myasthenia gravis and cranial nerve palsies	67
C Dodd	
Moebius's syndrome	69
PH Bannister, J Walker, K Wybar	
Orthoptic aspects of squint surgery	78
V MacLellan, J Hughes	
The use of optical penalization in the treatment of Amblyopia	89
SE Houghton	
Treatment of concomitant Esotropia with fresnel prisms	93
CF Freeman	
The Pinnick double prism	100
ME Kelly	
Ophthalmic miniature:	
What's in a name	101
An Orthoptic saga	101
CF Freeman	
Review of literature, 1975	102
HA Hinchliffe	

BOJ Volume 34, 1977

Occlusion and dominance: Their effect on Amblyopia	1
MD Amphlett, GJ Smithson	
Occlusion and Amblyopia	11
RM Ingram, S Rogers, C Walker	
The place of the Orthoptist in visual screening of pre-school children	23
report of a pilot survey in Ayrshire	
B Roy, M Cameron, DH Paterson, WOG Taylor, JH Cameron	
Area vision screening	26
AV MacLellan	
Aspects of visual field examination	34
C Wortham	
The causes and assessment of visual field defects in young children	46
JW Howe	
Binocular ocular movement simulator	54
Y Maurer, AH Wall	
The rotating light test in the treatment of eccentric fixation	67
E Lowndes-Yates	
Intra-ocular lenses	72
SPB Percival	
Visual Hallucinations	77
DW Sumner	
Head injuries following road traffic accidents	83
MF Porter	
An Orthoptic guide to internuclear ophthalmoplegia	90
S Johnson	
Spontaneous recovery in bilateral superior oblique	96
Tendon sheath syndrome	
J Tapley	
Unilateral vertical nystagmus	101
L Finch	
Craniopharyngioma giving rise to see-saw nystagmus	104
J Arthur	
Review of literature, 1976	106
HA Hinchliffe	

BOJ Volume 35, 1978

New treatment for Amblyopia	1
RV Banks, FW Campbell, R Hess, PG Watson	
Historical review of literature concerning the aetiology of Amblyopia (1959-1975)	13
F Johnson	
An Appraisal of the surgical treatment of horizontal squint	22
MBR Mathalone, C Calcutt	
Results of the treatment of convergence insufficiency	28
EB Schwyer	
The assessment by an Orthoptist of a group of children attending remedial Reading classes	40
V Spooner	
Clinical evaluation of Stereopsis	46
HA Hinchcliffe	
The testing and recording of ocular movements	58
J Mein	
Vascular lesions in the cavernous sinus	65
JL Crompton	
Ocular motor defects in ophthalmic zoster	78
B Dulley, V Kelly, R Marsh	
The increase of hypermetropia in children	83
C Wortham	
Case notes:	
A case late repair of inferior rectus muscle avulsion	91
BM Cooper, RM Brown	
Cyclic Esotropia	97
ME Neatham	
A Case study of defective accommodation following a viral infection	100
JB Brown	
Congenital manifest jerky nystagmus, oscillopsia, and abnormal head posture	110
E Curran, G Buchanan	
Dancing eyes syndrome	112
JJ Clarke	
Duane's-Ehlers Danlos syndrome	114
K Mavromichali-Ioannou	
A case of vertical microtropia	118
JA Shortland	
Review of literature, 1977	121
J Hughes	

BOJ Volume 36, 1979

The visually-evoked potential	1
NR Galloway	
Ultrasonography in ocular diagnosis	7
JS Hillman	
A review of Ophthalmic ultrasonography	18
M Le May	
Orthoptic management of learning disability	25
P Dunlop	
Aniseikonia in corrected anisometropia	36
PV Mille	
Indications for surgery of the A and V phenomena	45
MH Goblin	
Penalization as the primary treatment of strabismic Amblyopia	57
HE Willshaw, F Johnson	
Orthoptics in the gulf	63
FA Hosni, J Green	
Problems of accommodation and convergence in young adolescents	70
J Tremlett	
First catch your squint	78
AV MacLellan	
Pain in and around the eye	84
E Turner	
That wretched deduction	87
HW Rose	
Case notes	
Bilateral internuclear ophthalmoplegia and left 6 th and 7 th nerve palsy	94
J Mein	
A case of orbital dermoid cyst	98
R Long	
A case of micro-exotropia with associated exophoria and corneal ulceration	103
A Mills	
A review of literature, 1978	107
J Hughes	

BOJ Volume 37, 1980

A research project on learning problems in children W Evans	1
New evidence for “visual ambilaterality” in Some dyslexics MS Fowler, JF Stein	11
The investigation of patients with supranuclear and internuclear lesions with special references to the role of Orthoptist A Horwood	16
Centres and pathways concerned with ocular movements HE Willshaw	30
Preliminary survey on the cam visual stimulator JJ Clarke, A Malmheden, A E Williams, L Dean	36
The cam visual stimulator in everyday orthoptic use A Malmheden, L Dean	40
Alternative uses of the cam visual stimulator AE Williams	42
The Cam visual stimulator in everyday orthoptic use JJ Clarke	44
A controlled test of the cam treatment for Amblyopia GD Sullivan, LJ Followfield	47
Duane’s retraction syndrome reconsidered EM Waddell	56
Late onset of Duane’s syndrome associated with friedreichs ataxia RF Mehta	66
A wider concept of Stereopsis DB Dunlop, P Dunlop, RA Neill	71
Bar reading book for children GM MacLure	82
The finer points in ophthalmology DB Goulstine	89
Orthoptics in Rhodesia S Parkinson	96
Case notes: An interesting case of pseudostrabismus C Wilkinson	101
Two cases of vertical deviation C Murray	103
Correspondence The Frisby stereotest. Amended instructions JP Frisby	108
A review of literature, 1979 L Rossiter	113

BOJ Volume 38, 1981

Contrast sensitivity	1
DA Arnold	
Theory and practise in the treatment of Amblyopia	6
PG Watson, RV Banks	
Miotics in the treatment of squint: A re-appraisal	17
GV Catford, A Wilson	
Early treatment of infant Esotropia	23
P Dunlop, DB Dunlop	
Findings in superior oblique palsy	31
A Fox	
Selective enhancement of superior oblique function by anterior extension	37
Of its insertion	
MJ Roper-hall, ME Wesson	
Nystagmus	45
PJL Hunter	
The clinical characteristics of micro-exotropia	54
F Johnson, LAP Cunha, RB Harcourt	
What information is hidden in the diagnosis of exophoria	60
MP Nielsen	
Vision screening of handicapped children in special schools in South Wales	68
ME Kelly	
An unexpected improvement in binocular functions after surgery	72
J Hughes	
The whole child	76
A Raikes	
Laurence/Moon/Beidl syndrome	79
W Cunliffe	
Is it organic?	82
JC Brown	
Case notes:	
An unusual case of alternate-day squint (or cyclic Esotropia)	85
L Johnson	
Review of literature, 1980	87
ME Kelly	

BOJ Volume 39, 1982

Ocular motility disorders associated with thyroid disease	1
B Harcourt	
Diseases of the extra-ocular muscles	7
STD Roxburgh	
Horizontal movement disorders of the eye	12
J O'Day	
Brown's syndrome	17
E Waddell	
Vertical gaze, it's control and disorders	22
DJ Spalton	
The natural and unnatural history of a blow-out fracture	29
E Waddell, P Fells, L Koornneef	
Transfer of fixation in patients having occlusion treatment for Strabismic Amblyopia	33
AA Assaf	
Partial oculomotor nerve palsy possibly due to bromocriptine	42
FA Hosni, A Firth	
The control of intra-ocular lens power	46
JS Hillman	
Accommodative anomalies	51
A McIntyre, J Alexander, C Brown, E Jaron, A Pasteweska, A Patel, C Ryan	
C Self and L Watts	
Effect of light intensity on the prevalence of Exotropia in strabismus populations	55
PH Berg	
Clinical observations on the withdrawal test of symmetrical negative convergence in Esotropia	57
MM Lewis	
Case notes:	
Cyclic oculomotor paralysis including case report	59
GC Walker, JM Hudson	
A case of congenital cyclic oculomotor spasm	62
JMS Yapp, GA Sutton	
An interesting case of intermittent Esotropia	64
KJ McKeown	
An atypical case of vertical retraction syndrome	70
J Roberts, OP Sikka	
Brown's syndrome in identical twins	73
A Finlay, S Powell	
Review of literature, 1981	78
ME Kelly	

BOJ Volume 40, 1983

The asymmetrical optokinetic response	1
J Mein	
Retinal detachment and orthoptics	5
E Waddell	
The ocular manifestations of endocrine disease	13
DQ Borsey, RW Newton	
The eye in multiple sclerosis	21
WN MacLeod, I Bone	
Ocular motility consequences of trauma and their management	26
J Lee	
Fractures of the middle third of the face	34
NE Marchant	
Subdural haematoma associated with arachnoid cysts	40
SC Sullivan	
Consideration of ocular motor dominance as an aetiological factor in some orthoptic problems	43
MS Fowler, JF Stein	
Observations on the role of the Orthoptist in a paediatric assessment centre	46
JE Clewer	
Indication for the use of contact lenses in the amblyopic and strabismic infant	56
C Calcutt	
Low incidence of consecutive eso deviation following surgical correction of exo deviation	60
P Hutt berg	
Anisometropia in congenital unilateral ptosis – A survey	63
P Till	
A case of recurrent third nerve palsy	66
NB Rudge	
The alleged cause of heterotropia	70
A Firth, C brewer	
Review of literature, 1982	75

BOJ Volume 41, 1984

On the assessment of contrast threshold functions for anomalous vision	1
RF Hess	
The two-pencil test and the new Lang stereotest	15
J Lang	
Pregnancy and ocular problems	22
AY Firth	
The influence of recent contact lens advances upon their use in children	30
T Buckingham	
Ocular findings in newly-diagnosed hyperthyroidism	37
MA Johnstone, RA Edwards, EE Kritzinger, R Wilkinson	
Refraction in children using the Rx1 auto-refractor	46
E Evans	
Prevalence of squint and Amblyopia on the island of Curacao	53
B Devries, WA Houtman, J Van Bochove	
Noonan's syndrome in association with brown's superior oblique tendon	58
Sheath syndrome	
IG Calder, HE Willshaw	
Recipe for research	60
AD Clayden	
Results of surgery in distance Exotropia	66
R Wickens	
The management of orbital tumours	73
P McLeod Kyle	
A new picture visual acuity test	77
H Kay	
Case notes	
Exophthalmos or proptosis? A case report	81
SC Sullivan	
Possible drug-induced paresis of accommodation	83
G Penney	
Review of literature, 1983	85

BOJ Volume 42, 1985

Superior oblique myokymia	1
GC walker	
The one-and-a-half syndrome	5
EA Howrie, HE Willshaw	
Neonatal eye movements: Normal and abnormal	10
A Fielder	
Botulism, botulinum toxin and strabismus	16
JS Elston	
Timing of surgery in congenital strabismus	20
JP Lee	
Assessment and stimulation of vision in multiple-handicapped children	26
W Harrison	
Hydrocephalus	32
AMP Kelly	
Paediatric oncology – selected orthoptic case studies	36
R Auld	
The crowding phenomenon and its significance in senile macular Degeneration	45
MP Rubenstein, J Underwood	
A new linear picture vision test	54
R Elliot	
Kirshenbaum's procedure in nystagmus	58
C Fernandez	
Computer modelling of the macular factors involved in the Aetiology of A and V syndromes	65
RA Clement, A Howrie	
Visual requirements for motorists	69
JV Plenty	
Case reports	
The case of craniofacial dysostosis syndrome of Apert	72
JW Walker	
Consecutive cyclic Esotropia	79
EM Hawkes	
Reversible ophthalmoplegia in Wernicke's syndrome	83
A Murray	
Review of literature, 1984	84
ME Kelly	
Orthoptic miniature binocular vision	88
MC Masters	

BOJ Volume 43, 1986

Contrast sensitivity in alternating deviations	1
AY Firth	
Interactions	10
R McNamara	
The teachers assessment of functional vision in visually handicapped children	19
A Best	
A study of the visual defects detected in children with cerebral palsy and children with downs syndrome	22
GA Shentall, G Hosking	
Myasthenia gravis as a side effect of d-penicillamine treatment	26
A Horwood	
Suppression behaviour in Duane patients older than 17 years of age	34
MF Hoogesteger, YS Everhard-Halm	
Lasers and their use in ophthalmology	29
JSH Jacob	
Vision screening with laser	43
MP Rubenstein	
Computer modelling of anomalous innervation of the extra-ocular Muscles	56
A Howrie, RA Clement	
Low vision aids	61
AM Mackie	
Strabismus: the role of the anaesthetic	65
AM Mackie	
The importance of birth history in the aetiology of strabismus	68
G Kervick	
Case notes	
A case of miller fisher syndrome	72
S Franpoon	
Hurlers syndrome – a case study	75
J Warrington	
Orthoptic miniature aniso-hypermetropia	80
H Glover	

BOJ Volume 44, 1987

Hypertrophy and shrinkage of neurons in the lateral geniculate nucleus of infant monkeys following visual deprivation JJ Sloper	4
Neurological field defects N Sarkies	15
Oculinum the orthoptic involvement P Dunlop	25
Role of Botulinum toxin in the treatment of squint – current indications CM Powell, JP Lee, JS Elston	28
The acuity card procedure: Its use in orthoptics D Price, C Minshull, M Moseley, A Fielder	34
Orthoptic assessment and treatment within a child development centre team: some aspects of 14 years experience W Harrison	39
Orthoptics: An important aspect of paediatric assessment L Westly	48
The abused child G wearing	50
The treatment of convergence excess Esotropia in the myopic patient C Calcutt	55
The AC/A ratio in intermittent Exotropia JV Plenty	59
A comparison of sighting dominance and the reference eye in reading disabled children PM Riddell, JF Stein, MS Fowler	64
Case notes: Acquired Duane's retraction syndrome CF Freeman	70
A case of myasthenia gravis JK Hoole	77

BOJ Volume 45, 1988

Assessment of the patient with pathological nystagmus GN Dutton	1
Cerebrovascular accident and the Orthoptist CF Freeman, NB Rudge	8
A new classical for intermittent Exotropia JV Plenty	19
Stereo-acuity in optic nerve disease PG Griffiths, J Voller	23
Inconsistency or stereo-acuity results using the frisby stereotest J Voller, PG Griffiths	26
Some aspects of eyelid surgery ED Allen	30
Ocular associations of congenital blepharoptosis – A retrospective study TD Dowd, A Patterson	37
Orthoptic management of visual dyslexia MC Masters	40
The effect of varying vergence speed and target size on the amplitude of vergence eye movements MS Fowler, PM Riddell, JF Stein	49
Visual defects in children with hearing impairment H Wager, K Whale	56
Brachial arch syndrome LA Pawelczyk, KE Smith	59
Problems of establishing a photo-refraction screening programme T Smellie	66
Histopathology of extra-ocular muscle in unilateral congenital third nerve palsy CV Clark, B McCarry, A McCartney, P Fells	70
Case notes: The guillain-barre syndrome and ophthalmoplegia D price, NJ Price	74
Left Duane's retractions syndrome associated with dissociated vertical divergence – a case report M Clarke, FM Johnson, B Harcourt	78
Correction of V Pattern Esotropia by unilateral surgery – a case study CM O'Hare	82
The problems of Pseudo-strabismus JB Brown, WM Haining	86

BOJ Volume 46, 1989

Ocular defects in children from birth to 6 years of age JA Kendall, MA Stayte, C Wortham	3
Orthoptic visual screening at 3 ½ years of age by Huntingdon health authority R Beardsell	7
Orthoptists as pre-school screeners: a 2 year study RS Edwards, AJ Whitelaw, AG Abbott	14
An assessment of the present system for visual screening of school children in Nottingham SJ Hardman Lea, The orthoptics staff of University Hospital Nottingham and SM Haworth	20
Spectacle prescribing for children in the hospital eye department MP Rubinstein, J Loades, SJ Hardman Lea	26
The management of paediatric cataracts a retrospective study R Auld	30
Ocular motility problems following road traffic accidents R Fitzsimons, P Fells	40
The effect of lateral incomitance in intermittent Exotropia LP Martin	49
Contact lenses in accommodative Esotropia therapy C Calcutt	59
Preferential looking: The state of the art CM Pearson, A Chandna, RML Doran	66
Contra lateral inferior oblique surgical requirements following unilateral weakening C MacEwan, C MacLellan	73
Child abuse – A growing awareness CJ Hobbs	80
Some syndromes affecting the eyes seen in the neonatal period AGR Rennie	88
Squint in the dysmorphic child J Walker	93
The clumsy child RJ Purvis	98
The education of the visually handicapped EA Ainsworth	102
Amblyopia treatment in microstrabismus YS Everhard-Halm, LJJM Maillette de Bay Wenningerprick	109
Anisometropia: Cause of Amblyopia or result of underlying retinal defect? AY Firth	112
Ocular motility problems following orbital decompression F Kinsela, P Kyle, A Stansfield	117
Skew Deviation G O'Connor	120
Case notes: Reduced accommodation in asthmatic young adults VT Almgill	123
A case of third nerve palsy with delayed recovery PTC Docherty, L Pope	125

BOJ Volume 47, 1990

Eyes and the Turner syndrome: a nationwide survey	6
MC Masters	
Some considerations in the management of paediatric cataracts	11
HE Wilshaw	
Aspects of the neural control of eye movements	23
CJK Ellis	
Botulinum toxin: An alternative to surgery in symptomatic exodeviations	31
JM Bernstein, JP Lee	
Surgery for distance Exotropia	38
DB Clements, LA Johnson	
Up and downshoots in Duane's retraction syndrome treated by lateral rectus	41
Fade operation	
JP Burke, HP Orton, IM Strachan	
Optokinetic nystagmus and the age at onset of strabismus	44
A Hooper	
A revolution in time	48
JS Allen, SE Johnson	
Are your glasses correct	53
SE Johnson, JS Allen	
The effectivity of screening: a comparative study of visual screening	57
SM Allen	
Low vision training – the role of the partially sighted society	61
J Thomas	
Back to basics: Assessment of binocular convergence in Esotropia	67
DM Moore	
Cyclophoria – a simple measuring device	70
JB Brown	
Prematurely born triplets displaying different types of esodeviation	76
DR Trew, CE Ainslie	
General Fibrosis syndrome – keeping it in the family	82
SM Allen	
Case notes:	
A case of lateral rectus palsy following contrast myelography	87
JA Bell, J Eastaugh, TC Dowd, RE Gillis, GG McIlwaine	
Treatment of intermittent distance Exotropia	90
FJ Rowe	
The Aetiology of squint	94
JV Plenty	

BOJ Volume 48, 1991

Orthoptic investigation of neurological patients undergoing rehabilitation MS Fowler, AJ Richardson, JF Stein	2
Management of congenital anomalies and cranio-facial trauma L Benjamin	8
Hypertelorism JW Walker	13
Orthoptic interaction with the craniofacial unit at Oxford SM Czypionka	16
Visual acuity: a comparison of 3 and 6 metres test distance KE Bryant, EM Gay, CD Hazell, SP Harris, TM Hollingsworth, MJ Mosely	21
Blepharoptosis – aetiology, management and outcome in 500 consecutive cases AA McNab, A Dunlop, JRO Collin	25
The treatment of Amblyopia – a historical review B Unwin	28
The incidence of refractive error and anomalies of binocular vision in infants A Bruce, MNA Hurst, H Abbott, H Harrison	32
Duane’s retraction syndrome – bilateral until proven otherwise FJ Rowe, M-L Wong, CJ MacEwan	36
The Dunlop test – fact or fiction? CYM Buckley, JL Robertson	39
An initial study of the treatment of intermittent Exotropia by minus overcorrection PJ Donaldson, EG Kemp	41
Detection of crowding at an earlier age SE Johnson, JA Sparks	44
Can orthoptics refract? PE Arnold, BA Billingham, McGarricle, B Hopkinson	46
Case notes: Sudden reduced vision in a fully-accommodative Esotropia PS Edwards	48
A case of Gradenigo’s syndrome following otitis media LA Johnson	50
Sixth nerve palsy associated with a carotid cavernous sinus fistula GG McIlwaine, D Brosnahan, RM McFadzean, J Prentice, V Glover	52
A Case of miller fisher syndrome JR Murdoch, V Glover, M Cleary	55
An Orthoptist in Romania S Jocelyne Williams	57

BOJ Volume 49, 1992

The crowding phenomenon – can it be detected by the preferential looking test?	1
A McIntyre, C Hogg	
Bilateral Amblyopia in children can be improved by yellow filters	7
MS Fowler, AJ Richardson, AJS Mason, JF Stein	
Infant screening programme: screening for refractive errors in infants with a family history of strabismus – will early detection predict later visual problems?	12
S Anker, J Atkinson, W Bobier, J Tricklebank, J Wattam-bell	
Acquired mechanical restriction of eye movement	15
RB Trimble	
Superior oblique palsy with associated browns syndrome	18
DR Trew, E Lucas	
The incidence of visual abnormalities in children presenting to learning difficulties clinics	22
E Lucas, CB James, V Quinn	
A preliminary appraisal of the Irlen screening process for scotopic sensitivity syndrome and the effect of irlen coloured overlays on reading	25
LJC Kydd, GFM Sutherland, PM MCGettrick	
Development of dominance in the central binocular field	31
P Dunlop	
Adverse ocular effects of systemic drugs. An Orthoptists guide	36
JA Sparks	
Glaucoma in children	39
NR Hawksworth	
Case notes:	
Fibrous dysplasia – an uncommon cause of pseudosquint	44
JR Murdoch, A Betney	
Anisometropic exotropic Amblyopia associated with unilateral peripapillary 46myelinated fibres	
E Ronen, B Bieder, Y Yassur	
Ocular motility in porencephaly	48
TV de Alwys	

BOJ Volume 50, 1993

The outcome of pre-school family screening RS Edwards, AG Abbott, AJ Whitelaw	1
A new look at crowding C Sparks, JA Sparks, S Johnson	2
Audit of outcome – meaningless data or a measure of the quality of care? R Beardsley	7
A comparison of children's cycloplegic refractions obtained from an auto refractor and by retinoscopy SH Dai, RM Ingram	11
Accommodative and convergence insufficiency following whiplash injuries HR Orton, JP Burke	19
Incidence of ocular anomalies in children referred for a Dunlop test JA Sparks, PE Waddingham	22
A chequerboard test for field of binocular single vision SR Perry, E Newcomb, RA Harrod	25
Post-operative levels of stereo-acuity following surgical correction of constant and intermittent distance Exotropia PE Waddingham	33
Infantile Esotropia: current concepts in aetiology and management C Calcutt	37
The early development of binocular single vision in normal infants AM Harwood	42
The attributed effects of visual display units on the general and ocular health of the operator – literature review J Ballantyne	47
The care of elderly people in hospital - the Orthoptists role S Carey	51
Team work in rehabilitation HA Ali, V Simpson, E Ellis, S Martin, S Walker, L Gannon	54
Case notes: Brown's syndrome: a rare aetiology MY Khan, N Edwards, R Holden	58
Horizontal gaze palsy associated with pontine haemorrhage NHV Chong, JR Murdoch, M Cleary	62
Treatment of lateral rectus palsy secondary to cerebellar medulloblastoma with botulinum toxin in a child IM Armitage, ME Nelson	64
Late onset acute concomitant convergent squint – spontaneous recovery S Haider, C Flowers	66

BOJ Volume 51, 1994

An evaluation of cases referred to hospital by the Newcastle pre-school orthoptic service C Milne	1
A Study of children with minor visual defects referred from Primary School screening PS Carney, P Norton	6
Strabismus documentations: an alternative approach EA O'Flynn	10
Clarification of the correct and incorrect use of ophthalmic prisms in the measurement of strabismus AY Firth, JP Whittle	15
The Cardiff acuity test in amblyopic children AM Horwood	19
Evaluation of the binocular Polaroid test and the four dioptre test in the Detection of central suppression PE Waddington	23
What is normal vision using vernier strips? J Suharwardy, B Hopkisson	27
The incidence of symptom-producing near exophoria with or without a convergence defect and associated neurological disease A Mills	30
A report of a clinical audit of the management of convergence insufficiency HR Wicks	35
Botulinum toxin in the management of heterophoria EG Lymburn, CJ MacEwan	38
Pre-operative prism adaption in acquired Esotropia JP Burke, WE Scot, SA Stewart	41
Ergonomics or orthoptics? E Lucas	45
Should Orthoptists screen orbital injury cases JK Hoole, RM McNamara	50
First steps in planning an eye survey LA Wright, CV Bunce	53
The role of accommodation in the maintenance of steady state binocular single vision JD Green, JA Burne	55
Case notes A Case of tolosa-hunt syndrome MT O'Sullivan	58
Binocular single vision restored after 3 ½ years of intractable diplopia JK Hoole	61
A Case of congenital bilateral oculomotor paresis T Cumpstay	64

BOJ Volume 52, 1995

Evaluation of the frisby screening plate and Lang II stereotest in primary vision screening in pre-school children GM Smith	1
Apparent hearing loss in congenital ocular motor apraxia FJ Rowe	5
Evaluation of the Cardiff acuity test in uniocular Amblyopia D Hazell	8
“Shades of grey” a case study of achromatopsia G Henderson, J Clarke	16
Convergence and accommodative insufficiency associated with superior oblique myokymia PE Waddington	21
Fully Accommodative Esotropia in adolescence RH Taylor, IM Armitage, JP Burke	25
Is fixation preference assessment an effective method of detecting strabismus Amblyopia? C Calcutt	29
Surgical management of a patient with browns syndrome in Sri Lanka Rm McNamara, K Fonseka	32
Visual assessment of patients with cerebrovascular accident on the elderly Care wards C Clisby	38
Is 6/9 visual acuity acceptable? Are we screening standards too high? JM Hardy, SA Brailsford, JD Anderson, C Milne	41
Further clarification on the use of ophthalmic prisms in the measurement of strabismus: the isosceles prism versus the right angled prism AY Firth, JP Whittle	48
Case notes Binocular diplopia caused by a pterygium – a case note YC Yang, P Shah	50
A Case of Aicardi syndrome associated with divergent squint J Ashworth, JR Murdoch, JL Noble	52
A Case of congenital cyclic oculomotor palsy J Ford	55
A Case of dorsal midbrain syndrome associated with demyelination S Clarke, NJ Sarkies	57
Convergence paralysis in a patient with sickle cell disease SM Allen	60
An interesting fracture of the orbital floor MJ Logan	63

BOJ Volume 53, 1996

Visual disturbances in chiasmal lesions	1
FJ Rowe	
Measurements of visual acuity using the smelling test in situations of blur	10
EK Tippings	
Is colour vision affected by Amblyopia?	17
AJ Starling	
Ocular motility disturbances in benign intracranial hypertension	22
FJ Rowe	
A comparison of AC/A ratio measurement using the gradient method at near and distance fixation	25
J Gage	
Is congenital nasolacrimal duct obstruction a risk factor for the development of Amblyopia?	29
R Chalmers, PG Griffiths	
Anisometropia. Orthoptics and early diagnosis make the difference	31
A Collins, J Hannah	
The outcome of orthoptic screening in Aberdeen in 1990	36
S Winder, A Farquhar, GKM Nah, WH Church, AGR Rennie	
Cultural factors to consider in the community eye clinic	39
EJ James	
Bangerter foils: a new approach to the management of pathological intractable Diplopia	43
A McIntyre, P Fells	
Post –traumatic suppression loss and confusion following closed head injury	48
DK Parkinson, JP Burke	
The method of testing and recording of the post-operative diplopia test	51
C Gray, A Ansons, A Spencer	
Case notes	
Osteoporosis	54
R Russell	
Duane's retraction syndrome associated with an acquired contra lateral lateral rectus palsy	57
J Short	
Persistent Esotropia following recovery of sixth nerve	60
WH Hockney	

BOJ Volume 54, 1997

Prism fusion range: blur point, break point and recovery point J Narbheram, AY Firth	2
Visual electrophysiological testing of young children MA Deacon, T Kriss	7
The presenting features of parinaud's dorsal midbrain syndrome FJ Rowe	20
An historical look at fresnel M Henderson, J Wylie	24
Normal and abnormal head and eye movements in reading and their role In the classification and management of dyslexia MA Jones	29
Visual anomalies in dyslexia: a review of the literature CG Gordon	34
Orthoptic visual screening of pre-school children in Honk Kong G Leung, M Leung, U Ng, R Tsui	40
Long-term stability of adjustable strabismus surgery PAC Tiffin, G Coyle, CJ MacEwen	44
The effectiveness of inferior oblique z-plasty in V-pattern strabismus due to primary inferior oblique overaction YC yang, A Ward, S Collar, A Chanda	48
Anomalous accommodative response in high AC/A ratio convergence excess Esotropia C Calcutt, P Kinnear	51
Hypo-accommodative Esotropia EL James	54
Accommodative defects in children and young adults C Calcutt, P Kinnear	58
Case notes Convergence insufficiency with esophoria P Watts, J Doran, G Horne	61
Toxocara as a cause of Pseudo-hypertropia occurring with actual hypodeviation of the same eye JK Hoole, OH Nelson, K Davey	63
Total ptosis: an unusual presentation of metastatic bronchogenic carcinoma S Harun, LA Baxter, J Fuller, IS Levi	67

BOJ Volume 55, 1998

The role of diagnostic occlusion in distance Exotropia KJ Walklate	2
Prism adaption versus diagnostic occlusion in constant concomitant acquired Esotropia L Baker	8
An analysis of the post-operative benefits of using pre-operative prism adaption in acquired esotropias CJ Nave	15
Is the orthoptic review of patients with no apparent deviation at Lincoln orthoptic department time well spent? P King	23
The effect of removing vision testing from child surveillance programmes RM McNamara, S Duckworth	26
Comparison of the efficacy of inferior oblique myectomy and recession In the treatment of inferior oblique muscle overaction TL Shipman	32
Acquired immune deficiency syndrome (AIDS) and ocular movement problems EA Tomlin	38
Bilateral Duane's syndrome occurring in three generations of one family SC Turner	41
Diagnostic applications of botulinum toxin: regarding the sensory status of patients with strabismus EG Lymburn, CJ MacEwan	45
Assessment of crossed and uncrossed disparity with the frisby test S Khana, G Henderson, M Cleary	48
The use of fixation disparity for determining AC/A ratios KL Heyes, JP Whittle	53
Esterman driving tests using Humphrey automated perimetry FR Rowe	57
Orthoptic reports: descriptive or graphic? G Henderson	66
Social and psychological implications of strabismus MA Deacon	75
Case notes "what's this whooshing in my head?" case report of carotid-cavernous fistulae presenting with diplopia and ptosis L Cobb	79

BOJ Volume 56, 1999

A review of optokinetic nystagmus (OKN) in infants and children S Garbutt, CM Harris	1
Orthoptics' current shared care role in ophthalmology B McCarry	11
The role of Orthoptists in biometry RS Edwards, AR Davis, JL Shilling	19
Detecting children who will benefit from treatment in an orthoptic clinic for Specific learning difficulties R McNamara	22
'A model of care': looking at the referral, diagnostic and clinical outcomes of an integrated screening programme, 1995/6 to 1998 K Townsend	31
Comparison between methods of threshold estimation in the measurement of visual acuity AJ Simmers, LS Gray, PV McGraw	37
Bifoveal binocular single vision following recovery of microtropia VS Henshall, FJ Rowe	45
Third cranial nerve palsy/paresis: history and prognosis FJ Rowe, T Eariss	49
Acquired sixth nerve palsy in childhood G Henderson, R McKay	53
Blow-out fractures: recovery of ocular motility defects after orbital floor surgery L Ballantine, CJ MacEwen	58
Orthoptic assessment in a schizophrenic population GM O'Mullane, PC Knox, R Gray	65
The effect of red/green filters on TNO stereo-acuity K Tutte, J Whittle, H Davis	69
Does ocular dominance influence the measurement of fusional amplitude? J Hailey, M Cleary, L Wright	72
Development of a machine-readable orthoptic case record BC Reeves, C Macintosh, T Deave for the PEOTA Group	77
Case notes: Bilateral Duane's syndrome associated with mental retardation inherited in an apparently X-linked pattern D Ah-Kine, S Sadiq, RMC Gregson	87

BOJ Volume 57, 2000

Chronic progressive external ophthalmoplegia PG Griffiths, RM Andrews	1
Do patients with convergence insufficiency show a profile of significant psychological distress? T Massey, J Kincey	11
The symptoms of raised intracranial pressure in idiopathic intracranial hypertension FJ Rowe	15
Surgical management of sixth nerve palsy TN Theodorou, A Ansons	19
Dioptré for dioptré? Is there a relationship between refractive error and angle of strabismus? TY Malik, EG Lymburn, CJ MacEwan	23
Low vision services in Africa MT O'Sullivan	28
Comparison of snellen and log based acuity scores for school-aged children C Stewart	32
The Ayrdaile Vision screening programme: a comparison of referral rates between two pre-school age groups L Mulley	39
Prism vergence measurements following adaption to a base out prism LC Tuff, AY Firth, HJ Griffiths	42
The torsionometer: a comparability study J Davidson, M Cleary	45
Cyclofusion: a literature review C Lazenby	50
Case notes The hazards of gardening: two case studies SL Hughes	54
Atypical strabismic fixation reversal due to submacular membrane with vitreous haemorrhage FJ Rowe	57
Radiotherapy in thyroid eye disease: possible beneficial effect on the orthoptic status of patients F Howarth, JA Dewar, CJ MacEwan	59

BOJ Volume 58, 2001

The statistical review	1
J Webster	
Spasm of the near reflex: a literature review	3
A McIntyre	
A review of reading difficulties in relation to saccadic and visual anomalies in very low birth weight children	12
D Newsham, PC Knox	
Education attainment associated with ophthalmic morbidity in a low birth weight population	19
AR O'Connor, TJ Stephenson, A Johnson, MJ Obin, S Ratib, AR Fielder	
When is surgery indicated for distance Exotropia?	24
SR Richardson	
An investigation of the impact of occlusion therapy on children with Amblyopia, it's effects on their families, and compliance with treatment	30
LC Parkes	
Is Stereopsis linked to hand-eye co-ordination?	38
S Joy, H Davis, D Buckley	
Convergence insufficiency with associated superior oblique weakness	42
FJ Rowe, J Swift, CP Noonan	
Refraction after contact lens removal, and a comparison of binocularity in contact lenses and spectacles	45
SK Goyal, JP Whittle	
Case notes:	
Alternate-day hypotropia following retinal detachment surgery	49
P King, H Wortley	
A case of third cranial nerve palsy following recurrent meningitis	53
RM Groom	
A Case of Gradenigo's syndrome in a young child	55
S C Turner	
Sixth nerve and contra lateral fourth nerve palsies associated with diabetes and hypertension	59
VS Henshall, AE Ryder	
Spontaneous Pulfrich's phenomenon occurring with Meares-Irlen syndrome	62
J Clark	
Ataxia Telangiectasia	64
T Wood	
Strabismus associated with orbital rhabdomyosarcoma	66
B McCarry	
Ocular palatal myoclonus following cerebellar and brain stem infarct, ocular motility and recovery	71
LD Stuart, CL Edrich	

BOJ Volume 59, 2002

Editorial stance on duplicate and salami publication AY Firth	1
Preferential looking and grating acuity in the assessment of vision SJ Shea	3
The effect of ageing in eye movement : A literature review JH Davidson, PC Knox	12
Diagnostic, aetiological and management considerations in accommodative insufficiency VS Henshall, FJ Rowe	19
Aniseikonia and it's effect on binocular function: a review C Stewart, J Whittle	23
Reduced adduction following lateral transportation of the vertical rectus muscles for sixth nerve palsy H Murgatroyd, I Fleming, C MacEwen	30
The effect of fresnel prisms on binocular vision ES Moreland, HJ Griffiths	33
Is there a relationship between prism fusion range and vergence facility? AC Melville, AY Firth	38
The relationship between the strength of sensory fusion and motor fusion Amplitude GE Hocking, JE Gage	45
Detection of glaucoma: the role of visual fields CE Coyle, JD Ellis, CJ MacEwan	50
Use of log MAR Charts for the measurement of visual acuity in orthoptic departments throughout the UK C Stewart	53
Case notes: Concomitant Esotropia following sixth cranial nerve palsy FJ Rowe, CP Noonan	57
A case of intraorbital injury M Logan	60
A case of moebius syndrome with vertical muscle involvement, not Well recognised by the literature GCI bates	63
Spasmus nutans: A case review SE Ashurst	67
Isolated abducens nerve palsy without diplopia occurring in ophthalmoplegic migraine G Horne, R Bhola, S Kheterpal	69

BOJ Volume 60, 2003

Sixty yet still active A Y Firth	1
Supranuclear and internuclear control of eye movements: a review F Rowe	2
Stroke re-visited: visual problems following stroke and their effect on Rehabilitation C Macintosh	10
Variability in automated visual fields: a literature review I Cunningham, PC Knox	15
Attention deficit hyperactivity disorder: do we know what we are dealing with? S Rome	21
The orthoptic 'slant' on patients undergoing macular translocation JV Mehta, D Wong, J Wylie, BJ Young	28
The effect of ageing on the range of ocular movements and convergence JH Davidson, PC Knox	34
Blur point versus indistinguishable point assessment of accommodation: Objective and subjective findings in early presbyopes E Goodall, AY Firth	41
Evaluation of the sbisa bar for the measurement of sensory fusion EJ Knowles, HJ Griffiths	45
Case notes Transient inferior rectus, inferior and superior oblique palsy followed Arterial ligation for epistaxis M Forkin, DA Parkin	49
A case report of the use of prism glasses to alleviate the effects of Meniere's disease T Crowley	52
Primary levator synkinesis associated with downgaze CA Jackson, V Salisbury	55
Macular translocation for patient with age-related macular degeneration JM Wylie, BJ Young, JV Mehta, D Wong	57
Macular translocation: 2 case reports of counter-rotation of the globe for Monocular torsion AJ Price	61
The use of blue tint glasses in patients with multiple sclerosis, and others with 'motion disturbance' C MacIntosh	64

BIOJ. Volume 1, 2004

<https://www.bioj-online.com/19/volume/1/issue/0/>

The development of convergence and accommodation AM Horwood, PM Riddell	1
Ocular sequelae from the illicit use of class A drugs AY Firth	10
Traumatic oculomotor nerve palsy: a literature review S Christie	19
Neuroimaging in Amblyopia: a literature review CA Jukes	24
Attention visual fields analysis amongst stroke survivors I Cunningham, FJ Rowe, PC Knox, AC Fisher, C Jack	32
The effect of diabetes and ageing on the initiation of smooth pursuit eye movement JH Davidson, PC Knox	37
Quantifying the vertical fusion range at four distances of fixation in a normal population K Ulya, AY Firth, HJ Griffiths	43
Do we really need binocular single vision? KC Brown, D Buckley	46
Paediatric idiopathic intracranial hypertension FJ Rowe, CP Noonan	52
Case notes Transient extraocular muscle palsy following dental anaesthesia J Dhanji, D Lysons	59

BIOJ. Volume 2, 2005

<https://www.bioj-online.com/15/volume/2/issue/0/>

Publishing Information About Patients – Patient Consent	1
SJ Shea	
Vergence Adaption: A Phenomenon Or Normal Binocular Vision	3
AY Firth	
Clinical Assessments Of Stereopsis And Its Functional Significance	8
H Morris, AR O'Connor, MG Stephenson, M Mitchell, GJ Price, S Anderson	
Congenital Ocular Motor Apraxia	15
M McIndoe	
Attentional Visual Field Analysis Using Fastpac	19
I Cunningham, PC Knox, FJ Rowe, AC Fisher	
A National Survey To Assess The Prevalence Of Written Guidance For	26
Occlusion And Practise Variation In The Treatment Of Amblyopia	
S Elliott	
Factors That Influence The Visual Outcome In Cases Of Infantile Unilateral Cataract	32
C Dewsbury	
Pilocytic Astrocytoma Of The Brainstem	40
C Macintosh	
A Possible Case Of Heavy Eye Phenomenon	43
M McIndoe	
Recurrent Thyroid Eye Disease: A Case Series	46
EJ Wallace & CJ Macewen	
A Case Of Constant Esotropia With Diplopia Associated With Weight Loss	50
In Anorexia Nervosa	
B Manzouri, GGW Adams	

BIOJ. Volume 3, 2006

<https://www.bioj-online.com/16/volume/3/issue/0/>

What's In A Title?	1
JM Woodhouse	
Visual Processing, Fixation And Eye Movements In Able And Disabled Readers: A Literature Review	2
N Northway	
Logmar-Based Visual Acuity Measurements : Limits Of Normality	9
CE Stewart	
Transdermal Scopolamine (Hyoscine): Visual Side-Effects	14
AY Firth	
Effects Of Blur On Humphrey 24-2 Results	17
HL Holmes-Smith, AY Firth	
Listening To Classical Music Can Slightly Improve Stereo-Acuity In Normal Observers	21
EE Griffiths, D Buckley	
Refractive Surgery And Strabismus	27
C Calcutt, B Manzouri	
The Effectiveness Of Inferior Transposition Of The Horizontal Recti In Improving Symptoms In Patients With A Deficit Of Downgaze: A Case Series Of Nine Patients	32
K Russell, S Nabili, CJ Macewen	
Case Notes:	
Silent Sinus Syndrome: Two Cases Presenting With Sudden-Onset Vertical Diplopia	37
C Macintosh, CE Riddell, S Hague	
Case Report Of Acquired Brown's Syndrome Due To Mucocoele	41
MAE Lye	
A Case Of Childhood Multiple Sclerosis	44
L Gaccon	
A Case Of Benign Intracranial Hypertension	47
SJ Shea	

BIOJ. Volume 4, 2007

<https://www.bioj-online.com/17/volume/4/issue/0/>

Editorial: The future of the British and Irish Orthoptic Journal (BIOJ)	1
SJ Shea	
Saccades in strabismus: a literature review	3
HJ Griffiths	
Amblyopia treatment: from research to practice	9
M Cleary	
Visual perception and visual dysfunction in autism spectrum disorder: a literature review	15
E Milne, HJ Griffiths	
Interdisciplinary aspects of vision and communication deficits following stroke	21
S MacDiarmid, FJ Rowe, F Parsons	
The importance of cognitive function in driving following stroke	27
NR Morris	
Ocular motility disturbances in multiple sclerosis	31
N Morris, FJ Rowe	
Visual outcomes and conservative management options for infantile idiopathic nystagmus and manifest latent/latent nystagmus	37
M Christino-Amenos, AR O'Connor	
The role and clinical implications of rectus extraocular muscle pulleys	45
S Virdee	
Retrospective study to investigate the long-term sustainability of amblyopia treatment	51
P King, SC Turner, C Kidals, E Clakre, D Ward, H Wartley, V Chapman, S Mohamoud	
Incidence and nature of orthoptic problems found in children previously screened for retinopathy of prematurity: an argument for orthoptic follow-up?	54
H Bullock, JM Butcher, C Burrows, K Hordern, L Smith, S Clegg	
Prism fusion range: Gulden versus Clement Clarke plastic prism bar	58
JK Bath, AY Firth	
Visual function measurement using a laptop computer: does the screen angle matter?	65
AR O'Connor, PC Knox, J Bridson, R Tompkin	
A pilot study of ocular symptoms experienced by visual display unit users	70
JV Mehta, AR O'Connor	
Inferior rectus recession (IRR): outcome of surgery	76
G Cormack, K Russell, C MacEwen	
Orbital foreign body causing temporary diplopia: case report	80
S Elliott, R Collyer-Powell	
Two cases of Kabuki syndrome	83
C Everett-Allen, S Wilton	
The use of botulinum toxin in acquired nystagmus: literature review and case presentation	86
SL Poulton	

BIOJ, Volume 5, 2008**<https://www.bioj-online.com/18/volume/5/issue/0/>**

Research in binocular vision and amblyopia: recent progress and future challenges F Sengpiel	2
Impairment of vision in children due to damage to the brain: a practical approach E McKillop, Dutton GN	8
Hypermetropia in childhood: a review of research findings relating to clinical management AR O'Connor	15
The spectrum of nystagmus following cerebro-vascular accident FJ Rowe, VIS Group	22
Ultraviolet radiation and age-related macular degeneration: the protective benefit of blue-light-blocking intraocular lenses. A literature review C Howard, FJ Rowe	26
The relationship between ophthalmic deficits and functional ability in low birth weight children V Wong, AR O'Connor, D Newsham, PC Knox, D Clark	32
Normative percentage score for the field of binocular single vision K Shotton, T Smith, I Corbett, N Strong	39
A comparison of the concordance of ophthalmic outcome between low birth weight singletons and twins AR O'Connor, AR Fielder	42
Diagnostic accuracy of school vision screening CE Stewart, JM Gilchrist, PV McGraw, B Winn	47
The effect of coloured paper and lighting on the rate of reading in an adult student population K Naylor, AY Firth	54
Cerebral malaria and the eyes: development of appropriate testing protocols for children in the developing world AR O'Connor, D Newsham, PC Knox	58
Convergence accommodation and distance exotropia AY Firth	63
Orthoptists providing a cost-effective alternative glaucoma service K Phillips	64
Vision screening: a benchmarking audit McNamara R	65
A surviving preschool vision screening service M Cross	68

Thoughts from an Editor's diary: a six-year experience S. J. Shea	1
Multiple sclerosis: diagnostic issues and modern management S. E. Price	5
Screening for amblyopia and strabismus in children aged 4–5 years: where do we go from here? J. Carlton, C. Czoski-Murray	15
Visual neglect: should we attend to it? T. L. Shipman	22
Management of nystagmus by surgery and botulinum toxin options: a review F. Hobson, F. J. Rowe	28
Grapheme-colour synaesthesia and the orthoptist M. E. F. Piano, P. C. Knox, A. R. O'Connor	34
Ocular motility consequences following lesions of the thalamus: a literature review E. Jones, F. J. Rowe	40
A comparative review of methods to record ocular rotations S. Hanif, F. J. Rowe, A. R. O'Connor	47
The effect of artificially reduced bilateral visual acuity on vergence adaptation P. S. Bhatt, A. Y. Firth	52
Does fixation light intensity influence the results from the Sbisá bar when measuring sensory fusion? S. A. Tate, C. Leach	56
Convergence accommodation to convergence (CA/C) ratio: stability with different levels of convergence demand K. J. Hirani, A. Y. Firth	60
Is the prevalence and level of astigmatism different in indigenous Bangladeshi children compared with first-generation children of Bangladeshi origin born in the United Kingdom? F. Mangera	65
The effect of induced vertical divergence on horizontal fusional amplitudes G. A. Richardson, A. Y. Firth	71
Pseudo-strabismus secondary to macular heterotropia: a case report and literature review L. B. Wilkinson	75
Prevention of stimulus deprivation amblyopia in children with eyelid capillary haemangioma S. Hussain, C. Dewsbery	79
Controlled binocular acuity (CBA) A. Y. Firth, H. Davis	82

BIOJ, Volume 7, 2010

<https://www.bioj-online.com/2/volume/7/issue/0/>

Editorial

Amblyopia treatment: do we have enough evidence for a treatment plan? 1

C. E. Stewart

Review of amblyopia treatment: Are we overtreating children with amblyopia? 3

M. P. Clarke

Review articles

What does that mean? A review of some aspects of orthoptic terminology 8

M. Piano, A. R. O'Connor and M. G. Stephenson

Enhancement of quality of life in progressive supranuclear palsy: a review of clinical practice elements 14

L. Pickett and F. J. Rowe

An audit of atropine penalisation as a primary treatment for amblyopia 20

K. Taylor, C. Hudson and K. Merchant

Health visitor referrals to secondary vision screening clinic: a 5-year review 27

S. Elliott

A comparison of visual outcomes at age 8 years in children detected by pre-school screening with those detected at reception screening 30

C. Y. Buckley and A. M. Perkins

Visual screening: a comparison of the Keeler crowded logMAR and Snellen tests 37

N. Ainscough, J. Bates and L. North

Stimulus and response AC/A ratios in an orthoptic student population 41

L. C. Gratton and A. Y. Firth

A comparison of the effect of 3M Fresnel prisms and Trusetal prism foils on visual function 45

S. H. Cotton and H. J. Griffiths

The effect of Fresnel prisms on dynamic visual acuity 49

G. Maconachie, H. Griffiths and D. Buckley

Influence of bar reader colour and contrast when reading 54

F. J. Rowe and L. Tremarco

Comparison of the Plusoptix S04 binocular autorefractor with cycloplegic refraction performed by an ophthalmologist 59

L. M. Gilmartin

Contrast sensitivity thresholds in children with autistic spectrum disorder 62

E. Milne and D. Buckley

The range of visual acuity using the crowded Kay Picture test and the range of refractive error present in children aged 42–48 months 66

M. Cross, V. Ager and A. Fakis

Linear scleroderma 'en coup de sabre' with ptosis and oculomotility disorders: case report and review of the literature 72

C. Taylor, M. Riley and J. Bowyer

Dense amblyopia: should we consider encouraging long-term continued refractive correction of the amblyopic eye? A case of getting the balance right 77

J. M. Vardy

BIOJ, Volume 8, 2011

<https://www.bioj-online.com/3/volume/8/issue/0/>

Editorial

- Implementation of research findings in the clinic 1
C. E. Stewart

Major review

- Preterm birth: the ophthalmic consequences 3
A. R. O'Connor

Review article

- Are we doing enough for the patient with myopia? A literature review 10
M. Parker and A. R. O'Connor

Original articles

- Clinicians' perspectives of health-related quality of life (HRQoL) implications of amblyopia: a qualitative study 17
J. Carlton

- Convergence excess accommodative esotropia: a descriptive review of patients presenting over a period of 10 years 23
T. Garretty

- The effect of luminance on visual acuity with Fresnel prisms 29
R. Knight and H. J. Griffiths

- Visual rehabilitation following cerebellar stroke 33
T. L. Shipman and L. A. Hughes

- Orthoptic assessment and management of patients with stroke in Scotland 36
A. Pollock, C. Hazelton and M. Brady

- Visuo-motor control in low birth weight children without major ophthalmic or neurologic sequelae 43
A. R. O'Connor, P. C. Knox, D. Newsham, V. Wong and D. Clark

- Chromostereopsis and stereograms 50
K. L. Summersgill and P. D. Keating

- Can orthoptically trained personnel carry out pre-school vision screening in the absence of an orthoptist? 54
L. North and G. Menon

Case reports

- Self-correcting amblyopia: case report 59
J. D. Senior and A. R. O'Connor

- Case report of concomitant intermittent exotropia as a rare presentation in a child with temporal arachnoid cyst 62
Y. H. Yew, A. Loo and V. Subrayan

- Ocular manifestations as a result of Lyme disease: a case report 66
K.-A. Moynagh and R. McNamara

- A presumed case of functional visual loss with eventual diagnosis of Stargardt's disease 69
M. McIndoe

Letter to the Editor

- What is vision screening? And more importantly, what is it not? 71
J. Carlton and R. Auld

Editorial

- Building research capacity for Orthoptists: opportunities from the National Institute for Health Research (NIHR) 1
C.E. Stewart

Major review

- Why do words jump? An exploration of visually symptomatic readers 3
N. Northway

Review articles

- Anisometropic amblyopia: factors influencing the success or failure of its treatment 9
S.S. Toor, A.M. Horwood, P.M. Riddell
Prism adaptation: is this an effective means of rehabilitating neglect? 17
K. Lavery, F.J. Rowe
Saccades and the Muller-Lyer illusion: implications for the two-visual-systems hypothesis 23
D.C. Mackeith, P.C. Knox

Original articles

- Twice weekly atropine as a primary treatment for amblyopia: how does this compare to daily atropine? 30
K. Taylor, S. Bryant
Normative data for the crowded logMAR Kay's pictures vision test in children 36
T. Saul, K. Taylor
Can improving prism fusion range with training also improve stereo-acuity? 44
M. Watson, H. Davis, D. Buckley
Comparison of the uniocular field of fixation assessed objectively and subjectively using the Goldmann perimeter. 49
A. Bjerre, L. Baldwin
The prevalence of visual problems in stroke patients and the effectiveness of the current screening tool used. 55
Z. Naeem
The orthoptic role and experiences in breaking bad news. 59
N. Theodorou
Are orthoptic measures robust during exposure to unpleasant environmental noise? 63
S. Vickers, A. Bjerre, D. Buckley

Case reports

- Secondary exotropia following H1N1 viral infection (swine influenza). 68
I. Dawson
Restoration of binocular single vision following multiple treatments for longstanding bilateral internuclear ophthalmoplegia and unilateral third nerve paresis in Chiari II malformation. 70
G.E. Arblaster, J.P. Burke
Myasthenia gravis masquerading as acute sixth nerve paresis following head trauma – or vice versa? A case report. 74
D.E. Eckersley, L. North, J. Gowan
Dancing eye syndrome: a case presentation. 78
R.M. Parker, R.S. Edwards

BIOJ, Volume 10, 2013<https://www.bioj-online.com/5/volume/10/issue/0/>

Editorial

The future for the British and Irish Orthoptic Journal	1
D. Newsham	

Major review

The BIOJ: a comparative review	3
J. Carlton, GE. Arblaster, LA Hughes	

Review articles

The use of the plusoptiX photoscreener for vision screening	11
LP. Tidbury, AR. O'Connor	
The use of prisms and botulinum toxin in the detection of binocular vision: a literature review	17
K. Hanna, FJ. Rowe	

Original articles

Surgical correction of superior oblique palsy: a case series and guideline for surgical choice	23
G. Coyle. CJ. MacEwen	
A potential new colour vision assessment for young children	28
I. Cunningham, W. Holmes, C. Dickinson	
Undergraduate orthoptic students' perception of feedback during clinical placement	35
LC. Tuff	
Uptake, referral and attendance: results from an inner city school based vision screening programme	41
A. Bruce, L. Outhwaite	
Vision screening referral criteria: an audit	46
R. Wickens, MZ. Asghar, L. Pawelczyk, S. Johnson. P. Norton	
Is there an ideal speed for the prism fusion range?	51
SM. Ludden, CJ. Codina	
Experience can increase prism fusion range	56
W. Zaman, C. Leach, D. Buckley	

Case reports

Internuclear ophthalmoplegia as a presenting sign of Lyme disease: a case report	60
L. North, J. Govan	
Congenital cataracts presenting as a childhood squint	64
S. Sharma, C. Lafferty, GW. Adams	

Letter to the Editor

The BIOJ: Evolution or revolution?	66
J. Carlton, GE. Arblaster, LA. Hughes	
Response from the Editor	67

BIOJ, Volume 11, 2014**<https://www.bioj-online.com/6/volume/11/issue/0/>**

Editorial

Translating research into practice	1
D Newsham	

Review articles

Oculocutaneous albinism: an African perspective	3
GR McBride	
The importance of contrast sensitivity testing in children	9
AF Milling, AR O'Connor, D Newsham	

Original articles

Is there a North-South divide in quality of life for children undergoing amblyopia treatment?	15
J Carlton	
Survey of British and Irish orthoptists in the measurement of the AC/A ratio	20
C Murray, D Newsham	
Do the Pelli-Robson and Test Chart 2000 Xpert demonstrate comparable contrast sensitivity results?	28
A Channa	
Perceiving 3D in the absence of measurable stereo-acuity	34
LP Tidbury, RH Black, AR O'Connor	
The effect of a projected virtual reality training environment on vision symptoms in undergraduates	39
M Cristino Amenos, PC Knox	

Case reports

Successful alignment following multiple surgeries in a child with severe esotropia and a congenital cranial dysinnervation disorder	46
LC Gratton, JP Burke	
Inferior rectus muscle palsy with constant diplopia following orbito-facial trauma	50
M Zayed, H Quhill, JP Burke	

BIOJ, Volume 12, 2015**<https://www.bioj-online.com/8/volume/12/issue/0/>**

Editorial

Evidence-based orthoptic practice	1
D Newsham	

Review articles

The significance of periventricular leukomalacia on ophthalmic outcome	2
KA McDonnell, AR O'Connor	
Assessment of visual distortions in age-related macular degeneration: emergence of new approaches	9
N Pitrelli Vazquez, PC Knox	

Original articles

A comparison of pre-school versus school-age orthoptic screening programmes in the North-East of England	16
M Dent, CS Fieldsend	
Vision screening – referral to discharge. Outcomes from a routine vision screening programme.	20
MA Maqsud, SD Medforth	
Primary vision screening: outcomes from referrals unrelated to visual acuity.	26
K Taylor, H Whibley	
Predicting the long-term use of overlays in children: the Pattern Glare Test.	29
JW Short, AY Firth	
The repeatability of the Sbisa bar for testing density of suppression.	35
LCJ Crawford, HJ Griffiths	

BIOJ, Volume 13, 2016**<https://www.bioj-online.com/9/volume/13/issue/0/>**

Editorial

Breaking new ground	1
D Newsham	

Review articles

Convergence accommodation in orthoptic practice	2
AM Horwood	
Adapting the orthoptic investigation for children with autism spectrum disorders: how can research from other healthcare areas be applied to orthoptic practice? A literature review	9
A Harrison, AR O'Connor	

Original articles

The redevelopment of the Kay picture test of visual acuity	14
A Milling, D Newsham, L Tidbury, AR O'Connor, H Kay	
Do the near computerised and non-computerised crowded Kay picture tests produce the same measure of visual acuity?	22
AJ Dawkins, A Bjerre	
Dynamic cues to binocular depth	29
LP Tidbury, AR O'Connor, SM Wuerger	
A comparison of the conventional and modified push-up methods of measuring the near point of accommodation	35
Esmail, GE Arblaster	
How to undergraduate medical students learn ophthalmology in a clinical environment?	40
GR McBride, P Cantillon	

Case reports

Pharmacological management of a patient following strabismus surgery	45
GR McBride	
Two cases of fourth nerve palsy in pregnancy	48
AK Sehmi, J Hakim, GGW Adams	
Diplopia following retinal detachment repair: prisms or surgery long-term?	52
GR McBride	

BIOJ, Volume 14, 2018

<https://www.bioj-online.com/10/volume/14/issue/1/>

Routine Orthoptic-led Paediatric Fundus Digital Imaging: Benefits to Patients and Healthcare System	1-5
L B Ramm, C Bradbury, M V Parulekar	
The Impact of Strabismus Surgery on Irish Adults	6-10
B Power, M Murphy, J Stokes	
What Do We Expect Nw Graduate Orthoptists to Do?	11-19
A M Horwood	
The Need for Unified Protocol for Termination of Amblyopia Treatment	20-24
M M Nassar, F C Mitchell	
The Provision of Patient Information about Nystagmus	25-29
A Bjerre, G E Arblaster, A Nye, H J Griffiths	
A Case Report of Progressive Brown Syndrome	30-34
A Coughlan, G E Arblaster, J P Burke	
The Effect of Childhood Eye Disorders on Social Relationships during School Years and Psychological Functioning as Young Adults	35-44
C Y Buckley, J C Whittle, L Verity, P Qualter, J M Burn	
Simulation of Oscillopsia in Virtual Reality	45-49
D Randll, H Griffiths, G Arblaster, A Bjerre, J Fenner	
An Interesting Case of Pupillary Changes During the Testing of Ocular Movements and its Influence on the Diagnosis?	50-55
S Breton	
A Retrospective Study of Orthoptic Students' and Teaching Experience with the Introduction of Technology Promoting a Blended Learning Environment	56-63
C Lanca, A Bjerre	
Postural Patterns of the Subjects with Vergence Disorders: Impact of Orthoptic Re-education, a Pilot Study	64-70
G Delfosse, D Brémond-Gignac, Z Kapoula	

BIOJ, Volume 15, 2019<https://www.bioj-online.com/11/volume/15/issue/1/>

Corrigendum: The Need for a Unified Protocol for Termination of Amblyopia Treatment M M Nassar, F C Mitchell	1-2
Ophthalmologists on Smartphones: Image-Based Teleconsultation A Mohan, N Kaur, V Sharma, P Sen, E Jain, M Gajraj	3-7
The Impact of Diplopia on Reading B Lijka, S Toor, G Arblaster	8-14
Which Stereotest do You Use? A Survey Research Study in the British Isles, the United States and Canada K Vancleef, J C A Read	15-24
Bilateral, Unaugmented, Loop Myopexy Performed for a Severe Case of Heavy Eye Syndrome D Maskill, J Hoole, K Oikonomi, I Simmonds, E Drimtzias	25-27
VerSE: Vertical Reading Strategy Efficiency for Homonymous Hemianopia after Stroke: A Feasibility Study L Hepworth, F Rowe, H Waterman	28-35
Visual Profile on Children who Passed or Failed the UK School Vision Screening Protocol S McCullough, K Saunders	28-35
The Test Retest Variability of the COMplog System in Participants with Induced Non-Normal Visual Acuity M W Kan, A Bjerre	47-52
The Impact of Visual Field Loss on Driving Skills: A Systematic Narrative Review G Patterson, C Howard, L Hepworth, F Rowe	53-63
Stiff-Person Syndrome: A Case Report and Review of the Literature J Smith, H Storey	64-71
The Effects of Anisometropic Amblyopia on the FNS and TNO Stereotest Thresholds in Four- to Eighth-Year-Olds A Ateiza, H Davis	72-81
Arguments for the Adoption of a Nystagmus Care Pathway C M Harris, J Owen, J Sanders	82-88
Ten Years On- A Survey of Orthoptic stroke services in the UK and Ireland L Hepworth, F Rowe	89-95
Challenges of Eye Health Care in Children and Strategies to Improve Treatment Uptake: A Qualitative study from the Perspective of Eye Care Professionals in the UK V Cassetti, T Sanders, A Bruce	96-104
Orthoptic home visits for stroke survivors: Results from a UK prospective survey K Hanna, F Rowe	105-114
Pilot study evaluating the feasibility of comparing computer game play with close work during occlusion in children aged 2-7 years with amblyopia C Jukes, A Bjerre, J Coupe, J Gibson	115-124
Short-listing the program choice for perimetry in neurological conditions (PoPiN) using consensus methods L Hepworth, F Rowe	125-132
Patient perspectives in geographic atrophy (GA): exploratory qualitative research to understand the impact of GA for patients and their families J Carlton, S Barnes, A Haywood	133-141
Could modifying the Bagolini glasses improve the reliability of responses? A O'Connor, L Tidbury	142-146

BIOJ, Volume 16, 2020

<https://www.bioj-online.com/13/volume/16/issue/1/>

Acquired Brown syndrome in head trauma: does fixation of associated nasal and frontal bone fractures provide a cure? M Wats, J McQuillan, S Holmes	1-3
Strabismus surgery for esotropia, Down syndrome and developmental delay; is an altered surgical dose required? A Literature review A Harrison, L Allen, A O'Connor	4-123
Scottish pre-school vision screening – first 3 years of national data L Pentland, S patel	13-18
Does the EyeChart app for iPhones give comparable measurements to traditional visual acuity charts? K Ansell, G Maconachie, A Bjerre	19-24
Acquired synergistic divergence: contrary to current literature M Waters	25-28
Orthoptic services in the UK and Ireland during the COVID-18 pandemic F Rowe, L Hepworth, C Howard, S Lane	29-37
How does vertical reading affect reading speed? K Porter, G Arblaster	38-43

Comparison of binocular vision parameters pre- and post- EPILASIK laser vision correction surgery for myopia in a pilot study – can vision therapy augment refractive results? Natarajan R, Dandapani SA, Hussaindeen JR.	1-7
Abducens palsy and anosmia associated with COVID-19; a case report Francis JE.	8-12
Parental home vision testing of children during COVID-19 pandemic Painter S, Ramm L, Wadlow L, O'Connor M, Sond B.	13-9
How much superior rectus underaction is considered normal? Shaw B, Codina C, Toor S.	20-6
Eye care for children in special schools: an audit of provision Allen LC, Dillon A, Bowen P.	27-32
How successful is combined superior and inferior oblique muscle surgery in young children with superior oblique underaction presenting in infancy with a severe head tilt? Littlewood RA, Burke JP.	33-40+
Utilising the orthoptic skill set to improve access to eye care for adults with severe/profound learning disabilities – a service evaluation. Diplock K, Mehta J.	41-50
Vertical tropia following horizontal transposition surgery Thomas A, Watts P.	51-5
The impact of the first peak of the COVID-19 pandemic on a paediatric ophthalmology service in the United Kingdom: experience from Alder Hey Children's Hospital Wood M, Gray J, Raj A, Gonzalez-Martin J, Yeo DCM.	56-61
Grey filter contact lens as therapeutic option for acquired reduced binocular visual performance Van Vliet H, Jellema HM, Nieuwendaal C, Lapid-Gortzak R, Riemsdijk F, van der Meulen I.	62-9
Evaluation of a new method to track changes in vision at home for children undergoing amblyopia treatment O'Connor A, Waters M, England L, Milling A, Kay H.	70-8
A rare case of cyclotorsion due to medial rectus displacement following orbital trauma Green E, Harwood H, Bansal S.	79-84
The use of botulinum toxin in a case of acquired periodic alternating nystagmus Venturi N, Adams G, Theodorou M.	85-90
The accuracy of GP referrals into Manchester Royal Eye Hospital orthoptic department Waters M, Clarke R, England L, O'Connor A.	91-6
A post-surgical stereovision surprise in an adult with an exotropia since infancy previously managed, at two years, with surgery Littlewood RA, Rhodes M, Burke J.	97-103
Behavioural adaptation to hereditary macular dystrophy: a systematic review on the effect of early onset central field loss on peripheral visual abilities. Baig A, Buckley D, Codina C.	104-18
Can visual acuity be reliably measured at home? Validation of telemedicine remote computerised visual acuity measurements. Ritchie A, Atamian S, Shah N, Laidlaw A, Hammond C.	119-26
A study to assess the feasibility of utilising virtual reality for the treatment of	127-33

accommodative and vergence infacility

Minsamy A, Paruk H.

Prevalence of falls in patients presenting to an ophthalmic outpatients department; a surveillance study 134-41

Mehta J, Knowles K, Wilson E.

Is a depth camera in agreement with an electromagnetic tracking device when measuring head position? 142-49

Burchell V-J, Arblaster G, Buckley D, Wheat J.

Acute abducens nerve palsy in a patient who sustained mechanical trauma to the orbit 150-54

Geressu A, Patil J, Cody J.

The impact of preceptorship for newly graduated orthoptists on clinical confidence and attitudes towards public health Farrelly-Waters M, Mehta J.	1-10
The effect of test method on visual acuity in school children aged 4-5 Lewis R, Codina C, Griffiths H.	11-17
Clinical utility of 'Peekaboo Vision' application for measuring grating acuity in children with Down syndrome Sumalini R, Satgunam PM, Subramanian A, Conway M.	18-26
A comprehensive overview of vision screening programmes across 46 countries Carlton J, Griffiths HJ, Mazzone P, Horwood AM, Sloot S, EUScreen Study Consortium	27-47
Nystagmus in Down syndrome – a retrospective notes review Oladiwura D, Shweikh Y, Roberts C, Theodorou M.	48-56
Changes to visual parameters following virtual reality gameplay Banstola S, Hanna K, O'Connor A.	57-64
The impact of visual impairment on completion of cognitive screening assessments: a post-hoc analysis from the IVIS study Bould J, Hepworth, L, Howard C, Currie J, Rowe FJ.	65-75
Characterising refractive errors, near accommodation and vergence anomalies and symptoms in an optometry clinic Wajuihian SO.	76-92
Using a computerised staircase and incremental optotype sizes to improve visual acuity assessment accuracy O'Connor A, King C, Milling A, Tidbury L.	93-100
Change in incidence and severity of abusive head trauma in the paediatric age group pre and during COVID-19 lockdown in the North East of England Salisbury T, Qurashi N, Mansoor Q.	101-110
Evaluation of the nystagmus information pack Bjerre A, Griffiths H, Foulds M, Arblaster G.	111-120
A comparison of the incidence and type of ocular motility defects in patients presenting to Birmingham Midland Eye Centre Emergency Department during 2019 and 2020 to assess the impact of the COVID-19 pandemic Edwards J, Russo E, Auld R.	121-129
Measurement of saccade parameters in relation to adaptation to homonymous hemianopia Howard C, Knox P, Griffiths H, Rowe FJ.	130-143
Utilising virtual clinics and orthoptists to aid COVID-19 service recovery in adult strabismus Francis JE, Rhodes M, Simmons J, Choi J.	144-151
Conservative and surgical management of unilateral and bilateral internuclear ophthalmoplegia (INO) – a retrospective analysis Simmons J, Rhodes M.	152-158
Corrigendum: using a computerised staircase and incremental optotype sizes to improve visual acuity assessment accuracy O'Connor A, King C, Milling A, Tidbury L.	159-160

Simultaneous development of acute acquired concomitant esotropia in two siblings during the COVID-19 pandemic: a case report Carter, Pujara P, Bolton K, Nicholson R.	1-6
A Quality Assurance Audit of an Orthoptic-Led Virtual Neuro-Ophthalmology Clinic Smith J, Hirst N, Yagan A.	7-14
Associations between Accommodative Facility, Age, and Refractive Errors in Early, Older Adolescent Myopes and Emmetropes Ramamurthy D, Radhakrishnan H, Pardhan S.	15-25
Cost Analysis of Orthoptist-Led Neurofibromatosis Type 1 Screening Clinics Kaur N, Lewis C, Staffieri S, Ruddle J, Goranitis I, Stiles J, Dabscheck G.	26-34
Diagnostic Accuracy of Online Visual Acuity Testing of Paediatric Patients Painter SL, Hamilton R, Livingstone IAT.	35-43
Visual Behaviours (ViBes) in Cerebral Visual Impairment: Validating a Descriptive Tool to Support Diagnosis and Monitoring Pilling RF, Allen L, Anketell P, Bullaj R, Harwood J, Little S.	44-51
Evidence of the Amplitude of Accommodation of School-Going Children in the 21 st Century Munsamy AJ, Ngema A, Bisetty S, Lushaba S, Mayaba N, Mthiyane B, Nyathi N, Thabethe A.	52-63
Low Vision Services Provision throughout NHS Trusts in the UK Codina CJ, Rhodes M.	64-70
Treating Visual Inattention in Acute Stroke Survivors Using a Therapy Scanning Wall: A Proof-of-Concept Study Sharp N, Hepworth LR.	71-77
The Effect of Illumination on Positive Fusional Vergence Azam R, Karmakar S, Mondal A, Bhardwaj GK.	78-84
Accommodative Facility and Response Time before and after Computer Task of Varying Durations in Young Adults Kaliugavaradhan A, Ramamurthy D.	85-95
Vision Screening in Older Adults Admitted with a Fragility Hip Fracture: A Healthcare Quality Improvement Report Baig A, Foss A, Sahota O, Sehat K, Ash I.	96-107
The Role of Thymoma and Thymic Hyperplasia as Prognostic Risk Factors for Secondary Generalisation in Adults with Ocular Myasthenia Gravis: A Systematic Narrative Review Wilson L, Davis H.	108-119
Non-Surgical Treatment of Symptomatic, Oblique Strabismus: A Simplified Approach Christoff A.	120-126
Amblyopia Treatment Outcomes Re-Audit, Comparing Current Outcomes to Those from the 2011–12 Audit Blyth M, Bryant S.	127-134

Exploring Correlations between Headaches and Refractive Errors in an Optometry Clinic Sample Wajuihian SO.	1-15
Perspectives of Orthoptists Working with Patients with Communication Impairments Lau S, Power E, French A.	16-30
Do Socioeconomic Inequalities Exist Within Ophthalmology and Orthoptics in the UK?: A Scoping Review England L, O'Connor A.	31-47
Evaluating the Use of Contrast Sensitivity Tests By Orthoptists in the UK Jones L, O'Connor A, Warburton A.	48-56
Assessment of the Impact of a Head-mounted Augmented Reality Low Vision Aid on Vision and Quality of Life in Children and Young People with Visual Impairment Cottingham E, Burgum F, Gosling S, Woods L, Tandon A.	57-68
UK Optometrists' Professional Learning Needs Toward Engaging with Myopia Control Interventions Omar WEW, Cruickshank F, Radhakrishnan H.	69-84
Are Horizontal Fusional Vergences Comparable When Measured Using a Prism Bar and Synoptophore? Haque S, Toor S, Buckley D.	85-93
The Assessment of Vision in Children with Severe Learning Difficulties: A Systematic Review Esmail H, Arblaster G, Haslam L.	94-104
Can We Talk about Concordance? Codina CJ.	105-106
Strabismus Surgery for Psychosocial Reasons—A Literature Review Arblaster G, Buckley D, Barnes S, Davis H.	107-132
Schizophrenia and Orthoptic Conditions: A Literature Review McBride A, Arblaster G.	133-145
The Impact on Vergence Parameters After Smartphone Gaming Biswas V, Majumder R.	146-153
Parental Awareness of the Preschool Orthoptics Visual Screening in Brunei-Muara District and Factors Contributing to Defaulters Sharbini S, Damit NADA, Maddess T, Abdullah SN.	154-164
Development of Dynamic Contrast Sensitivity Chart Jacob N, Kamath V, Sanjay BN.	165-170
An Investigation Into the Orthoptist Experience of Instilling Eye Drops in Children Attending the Eye Clinic Chauhan H.	171-182
Comparative Analysis of Accuracy, Readability, Sentiment, and Actionability: Artificial Intelligence Chatbots (ChatGPT and Google Gemini) versus Traditional Patient Information Leaflets for Local Anesthesia in Eye Surgery Gondode P, Duggal S, Garg N, Lohakare P, Jakhar J, Bharti S, Dewangan S.	183-192
Risk Factors for Acute Acquired Comitant Esotropia in Children and Young Adults: A Systematic Review Lee MYR, Lee MSP.	193-206
Compliance and Determinants of Spectacle Wear Among Moroccan Adults Residing Beni-Mellal Khénifra Region Dahbi A, Chetoui A, Bentayeb F, Korziti S, Errachidi A, El Merabet Y.	207-216

Artificial Intelligence Chatbots (ChatGPT and Google Gemini) Versus Traditional Patient Information Leaflets for Local Anesthesia in Eye Surgery: Correspondence Daungsupawong H, Wiwanitkit V.	217-218
Spectrum of Visual Dysfunction Detected by a Novel Testing Protocol Within a Special School Eye Care Service Musleh M, Green A, Mankowska A, Viner C, Pilling R.	219-225
Opinions on Amblyopia Treatment in Microtropia – A Questionnaire Study of Orthoptists in Scandinavia Røe J, Arblaster G.	227-235
Case Series Review on Use of Topical Timolol in the Treatment of Superior Oblique Myokymia Smerdon VA, Adeoye J, Rowlands A.	236-240
Enhancing Paediatric and Strabismus Ophthalmology Departments in Spain Through the Inclusion of Orthoptists: Insights from a Nationwide Survey Cruz Lasso AM.	241-257
Idiopathic Intracranial Hypertension – How Can Orthoptists Help Improve Care? MacKeith D.	258-263
Occlusion Outcomes in Unilateral Amblyopia Types: A Longitudinal and Interventional Study in Children from the Marrakech-Safi Region Jaouhari M, El Harrak C, Bentayeb F, El Merabet Y.	264-270

BIOJ, Volume 21, 2025

<https://bioj-online.com/23/volume/21/issue/1>

The Psychological Impact of Amblyopia Treatment: A Systematic Literature Review	1-14
Haine L, Taylor I, Vaughan M.	
Response to: Arblaster G, Buckley D, Barnes S, Davis H Strabismus Surgery for Psychosocial Reasons – A Literature Review. British and Irish Orthoptic Journal 2024;20:107–132	15-16
Johnston G.	
The Role of Orthoptists in Refraction	17-35
Conway ML, Shah R, Chapman E, Evans BJW.	
Bullying and Incivility Experiences of Undergraduate Orthoptic Students on Clinical Placement	36-42
Koklanis K, Vukicevic M, Simpson A, ŠarkiĆ B.	
Children with Additional Support Needs Risk Missing Out on Effective Vision Screening: Audit and Survey Considering Attendance Rates and Parent Reported Barriers to Service Access, including Recommendations for Improvement	43-50
Tooth C, Rogowski J.	
Effects of Visual Display Unit on Ocular Accommodation in Young Adults	51-58
Biswas V, Majumder R.	
Real-World Views of Patching Differ to Health Professionals': An Online Survey of Professionals, Patients, Teachers, Parents and Carers	59-65
Osborne D, McGowan M, Bradshaw J, Ellis H, Evans M, Stallwood J, Fliege J, Self J.	

Foundation of Consilium Europaeum Strabismi Studio Deditum (CESSD)
1962, Paris

Journees Strabologiques de Nancy
1963, Nancy

Journees Strabologiques de Parma
1964, Parma

2nd meeting CESSD
1964, Vienna

Journees Strabologiques de Palma de Mallorca
1964, Palma de Mallorca

3rd meeting CESSD
1965, Paris

International Strabismological Association
1966, Giessen

4th meeting CESSD
1968, Amsterdam

5th meeting CESSD
1968, Leipzig

**Transactions 6th Consilium Europaeum Strabismi Studio Deditum
1969, London**

Determination of motor disturbances of the eye by means of the measurement of dynamic diplopia Adelstein FE.	1
A contribution to the phenomenology in oclo-motor imbalance Jonkers GH.	11
Congenital vertical squint with ocular torticollis of probably non-paretic origin Postic GS.	16
Surgical aspects of combined horizontal and vertical strabismus Nolan J.	23
Clinical uses of electromyography Catford GV.	26
Duane's retraction syndrome Huber A.	36
Orthoptic investigation in recent orbital fractures Friemel E.	44
The diagnosis and management of blow-out fractures of the orbit Whyte DK.	48
Clinical aspects of secondary exodeviation with special reference to postoperative exotropia Gregersen E.	58
Vertical supranuclear ophthalmoplegia with compensatory head movements Sanders MD, Wybar KC.	63
Squint in hydrocephalus: aetiological factors Harcourt RB.	70
Squint in hydrocephalus: an analysis of cases Stanworth A.	73
Ocular myopathy in childhood Wybar KC.	78
A case of infantile neuro-axonal dystrophy Berard-Badier M, Tripier M-F, Bernard R.	82
Visual assessment in children Cashell GTW.	86
The place of the orthoptist in ophthalmic practice Nutt AB.	93
Adopted families with squint Gilkes MJ.	96
Round table discussion: Significance of vertical imbalance in horizontal squint	100
Surgical treatment of deviations due to paresis of the superior oblique Krzyszkowa K.	107
Measuring for recession operations from the limbal conjunctiva Sato O.	113
Surgical management of congenital musculo-fascial anomalies Lyle TK.	119
Proximal convergence Franceschetti AT, Burian HM.	125
Another fusion test Fells P, Watts R.	130
Some theoretical and terminological problems in strabology Starkiewicz W.	134
Management of concomitant strabismus between 2 and 5 years of age Berard PV, Reydy R.	137
Stablisled accommodative squint	142

Rethy I.	
Treatment of anomalous correspondence and suppression by the euthyscope	147
Holland G.	
Influence of homogeneity of laterality on the result of the treatment of squint	151
Vallon S, Depelsenaire J, Drouard ME.	
Small angle strabismus	155
Bagolini B, Capobianco NM.	
Amblyopia of microtropia	160
Lang J.	
Asthenopia in small angle heterophoria	165
Crone RA.	
Aspects of monocular participation in the binocular act (the relative/asolute uniocular visual acuity quotient)	170
Arruga A.	
Eccentric viewing in young children with strabismus	176
Scully J.	
An instrumental technique of fast foveolar reorientation in cases of amblyopia with very eccentric fixation	181
Thomas C, Spielmann A.	
Occlusion, prisms and unilateral cycloplegia as aids to disrupting anomalous correspondence	184
Hamburger FA.	
Round table discussion:	188
Long-term significance of sensory anomalies in squint	

**Joint meeting (German Strabismological Organisation)
1971, Wiesbaden**

**7th meeting CESSD
1972, Perros-Guirec**

**8th meeting CESSD
1975, Geneva**

**Joint meeting (German Strabismological Organisation)
1976, Wiesbaden**

**9th meeting CESSD
1977, Krakau**

**10th meeting CESSD
1979, Athens**

**11th meeting CESSD
1979, London**

**Transactions 12th Consilium Europaeum Strabismi Studio Deditum
3-4th September, 1981, Amsterdam**

Physiological fixation disparity	3
Rashbass C.	
Fixation disparity and the interaction of foveal and non-foveal fusion	11
Russman W, vom Eyser C.	
Fixation disparity in vertical vergence movements	17
Houtman WA, van der Pol BAE.	
Vertical fixation disparity and stereopsis	29
Weiss JB.	
461 curves of horizontal prism fixation disparity in an orthoptic department	35
Crone RA, Noordenbos AM.	
Anomalous fusion	41
Bagolini B.	
Sensorial interactions in reeducated strabismic amblyopia	53
Focosi M, Salvi G, Frosini R.	
Binocularity in comitant esotropia and exotropia	55
Campos EC, Chiesi C.	
Results of the fadenoperation in alternating convergent strabismus of the congenital type	65
De Decker W, Haase W.	
Possibility of correct fusion formation of adults	73
Baranowska-George T.	
Early onset esotropia	79
Harcourt B, Mein J.	
A new hypothesis on latent nystagmus and on the congenital squint syndrome	83
Lang J.	
Strabismus in cerebral palsy	87
Wybar K.	
Comparative study of the anaesthesia test in normal and strabismic children	89
Zato MA, Castiella JC, Garcia Sanchez J.	
Unilateral traumatic aphakia	95
Pameijer JH.	
Motor tonus adaptation in squint	101
Rethy S, Gal S.	
The subjective angle as a basis for the surgery of the anatomical deviation	107
Spielmann A.	
Influence of progressive press-on prisms on changing squinting angles	113
Aichmair H.	
Binocular vision in treated squints	119
Polychronia F, Polychroniadis-Scouros	
Causes and treatment of consecutive exotropia	123
Gobin MH.	
Posterior fixation surgery in paretic strabismus indications and technic	131
De Decker W.	
Results of Cuppers fadenoperation (posterior fixation suture)	143
Kaufmann H.	
Basic motor mechanisms in paretic squint	149
Kommerell G.	
Primary overacting inferior oblique muscle	159
Mukuno K, Furuno K, Yoshida H, Ishikawa S.	
Electrooculographic examinations in comitant and incomitant strabismus	163
Dorn V, Celic M.	
Electrophysiological diagnosis in non-comitant strabismus	173
Frosini R, Boschi MC, Baroncelli D.	
The Bielchowsky head tilt test and ocular counter-rolling	179

Van der Meer J.	
L'electro-oculographie des paralysies oculo-motrices horizontals interet physio-pathologique, diagnostique et therapeutique	185
Quere MA, Pechereau A, Lavenant F.	
The treatment of non-comitant strabismus	197
Fells P.	
Use of adjustable suture technique in surgical management of non-comitant squint	209
Sjostrand J.	
Duane's retraction syndrome: diagnosis and therapeutic considerations in 150 cases	215
Krzystkova K, Pajakowa J, Bilska C, Pyzowski J.	
La chirurgie JC, Orbegozo J, Zato MA, Castiella G.	
Considerations on the surgical management of isolated oculo-motor palsies	229
Deller M.	
Surgical symmetrisation of kinetical incomitances	233
Salvi G, Frosini R, Boschi MC.	
Retro-equatorial myopexy of the vertical recti in traumatic diplopia	237
Koornneef L, Crone RA, Noordenbos AM.	
L-arrachement et la migration anterieure du fil dans la Fadenoperation de Cuppers	243
Pechereau A, Quere MA.	
Oculomotor imbalance in congenital ptosis	249
Castanera Molina A, Castanera Pueyo A, Castanero Molina J, Castanero Molina F.	
Die Bedeutung der Vertikalablenkung bei der horizontalen Blicklahmung	253
Piper HF.	
Preuclear slowly progressive bilateral abducens palsy in Marie's cerebellar ataxia	263
Van Weerden TW, Houtman WA.	
Absence or hypoplasia of extraocular eye muscles	269
Konen W, Russmann W.	
Round table discussion:	275
Posterior fixation suture in noncomitant squint	

Transactions 13th European Strabismological Association
21-23rd June, 1982, Florence

An electro-oculographic comparative study of kinetic troubles in horizontal palsies, retraction syndrome and functional squints Quere MA, Lavenant F.	3
Latent nystagmus and esotropias: an EOG study Duran de la Colina JA, Maroto Garcia S.	21
The optokinetic nystagmus response in early onset strabismus Mein J.	31
The real interest of EOG examination: detection of unnoticed neurological syndromes Weiss JB.	37
Saccadic velocity studies in patients with internuclear ophthalmoparesis Olivier P, Weiss JB.	43
Ocular and skeletal electromyography diagnostic test in external congenital ophthalmoplegia Magli A, Daniele D'Esposito A, Santoro L, Fusco R, Perretti A.	51
Electromyography of congenital esotropia under general anaesthesia Cibis GW, Varghese G.	59
Histological aspects of rectus muscles in concomitant strabismus Balcet U, Castri M, Bosso G.	65
Anatomy components in squint pathogenesis Rivara A, Galiani G, Murgia B.	71
The use of synoptometry in the diagnosis of eye movement disorders Krzyszkowa KM, Kubatko-Zielinska A.	79
Pareses of extraocular muscles as early symptom of occult cerebral tumors or hemorrhages Aichmair H.	93
Accommodative esotropia with convergence excess, associated with myopia Calcutt C, Mathalone B.	97
Electrophysiology of binocular vision Von Noorden GK, Crawford MLJ.	105
Evaluation of binocularity by means of visual evoked responses Campos EC.	119
Squint, a functional behaviour pattern stabilised by sensorimotor adjustments during first year of life Rethy S.	141
Clinical results and electrophysiological investigations in amblyopic patients treated with 'Bascule Reperage-Observation' Galassi F, Scrivanti M, Casi G, Pisani L.	153
Objective assessment of the strength of binocularity in normals and strabismics Chiesi C, Campos EC.	167
New stereotests Lang J.	177
Random-dots stereograms Muller Feuga E, Thiollot ML.	183
Motor dominance and sensorial dominance Nardi M, Falco L.	189
On the nature of suppression scotomas Mehdorn E.	195
Relationships between different kinds of functional amblyopia and perimetry Castellazzo R, Fava GP, Capris P, Fioretto M.	199
Binocular visual field in concomitant strabismus, pre and postoperative evaluation Bellizzi M, Lamorgese C.	213
Clinical study and interpretation of the phenomenon of horror fusionis in 1982 Pigassou Albouy R.	223

Investigations of fixation disparity during light and dark adaptation	233
Schmidt B, Braun I.	
Sensory rehabilitation of binocular vision in concomitant strabismus with early onset	243
Herzau V.	
Sensory and motor rehabilitation by sectors	265
Coudero-Devaux M.	
Esotropia during the first year of life	271
Lobstein-Henry Y, Dorey-Perriguet F.	
The infant strabismus of yesterday is the adolescent strabismus of today	279
Capobianco NM, Arrigoni L, Natale B.	
Preoperative motor assessment	285
Frosini R, Boschi MC.	
Intraoperative strabometry	295
Paliaga GP.	
Microcomputer use in planning strabismus surgery	299
Russmann W.	
Study on the clinical application of the millimetric cover test	303
Ponte F, Vaccaro G.	
Surgical correction of head malpositions of ocular origin	313
Salci G, Boschi MC, Baroncelli D.	
The vertical syndrome in concomitant strabismus	335
Berard PV, Reydy R, Hantisse S, Jourdan D.	
Computer-assisted analysis of cyclovertical squint	359
Konen W, Russmann W.	
Indications for adjustable surgery	371
Spielmann A.	
Considerations on new-born and early childhood depistage for prevention of amblyopic ocular disease	381
Tittarelli R, Guerra M, Valazzi CM.	
Long period time results of strabismus medical early treatment before 18 months of age	389
Badoche JM.	
Effects of Trazodone on eye movements in children affected by neurological disorders (spastic and dystonic syndromes)	397
Papini M, Martinetti MG, Pasquinelli A, Baroncelli D, Milani Comparetti A, Gidoni EA, Fantini ML.	
The treatment of strabismus with botulinum toxin	403
D'Esposito M, Calace P.	
Strabismus and amblyopia associated with congenital glaucoma	409
Tsamparakis J, Kallipolitis P, Stavarakas E, Kitsos T.	
The convergent pseudo-paresis in the postural deficiency syndrome. A sensorial and proprioceptive approach	417
Ribeiro-da-Silva J, Marins-da-Cunha H, Alves-da-Silva O, Castanheira-Dinis A.	
Tendon split lengthening of the superior oblique muscle	427
Ciancia AO, Lavin RJ.	
Our experience of anteroposition of the oblique muscles according to Gobin (preliminary study)	435
De Rosa C, Magli A, Calabro S, Ambrosio G.	
Our experience in strabismus surgery according to Gobin	441
Fedriga P, de Vincentiis L, Ferrari E.	
Desagittalisation of the oblique muscles as a surgical treatment of strabismus	447
Gobin MH.	
Our experience with symmetrical and simultaneous surgery in V esotropias	453
Jovicevic B, Srbinovic N.	
The surgical treatment of squint by desagittalisation of the oblique muscles according to Dr Gobin, our first experiences	459
Maselli E, Esemplio G, Gaddi D, Pitino G, Talatin C.	

Surgical correction of A and V phenomena	469
Papadedes C.	
The so-called weakening surgery of the inferior oblique muscle (IO)	471
Scassellati Sforzolini G.	
The problem of the arc of contact. Our experience with Focosi-s tendon lengthening	481
Boschi MC, Frosini R.	
Loops: indications and results	499
Faraldi I, Contrucci N, Poggi F.	
Single surgical procedure in the management of pseudo-paralysis of the lateral recti	503
Deller M.	
Our experience in retropexy operation	509
Casu L, Guerra R.	
Follow-up results of faden-operation	519
Ambrosio G, Magli A, Chiosi E.	
Evolution of operated esotropias	525
Ciancia AO.	
Vademecum of reoperation	539
De Decker W.	
Findings on revision of Bruckenfadenoperation	547
Polenghi F.	
Adjustable sutures in special cases of rectus muscle surgery	553
Roggenkamper P.	
Diseases of the orbit affecting the extraocular movements	561
Sevel D.	
CT as an exploration method of the orbits	571
Del Pzzo GC.	
Ocular motility alterations in patients suffering from orbital disorders	577
Bonavolonta G, Chiosi E, Capasso-Barbato M, Vassallo P.	
The click syndrome. A case report	583
Miglior M, Lasagni F, Lambertenghi E.	
Reduction of intraoperative bleeding in squint surgery	595
Pinto G, Leonardi E, Silvi MB, Malagola R.	
Retraction Duane's syndrome from an ultrasonic point of view	605
Dorn V, Celic M.	
Alternating esotropia and retinal sensitivity valued through perimetry at different retinal adaptation levels	611
Fusco R, Chiosi E, Uccello G, Colasanti A.	
Methods of tenon-conjunctival suture and amount of correction in esotropias	617
Genovesi E, Cerasoli A.	
The role of the ophthalmologist in the diagnosis and treatment of blowout fracture of the orbit	623
Krzystkova Km, Bartkowski SB.	
Statistical survey on 100 cases about the type of secondary strabismic deviation with monolateral organic amblyopia in relation to age and other parameters. Pathogenic interpretation and operational choice	633
La Rosa G, Bellone G.	
Comment on a complex malformative syndrome with ocular and systemic manifestations	641
Lasagni F, Gornati MV, Ottino A, Forte R.	
Anisometropia	649
Marmion VJ.	
Plaquette, neutralisation and peripheral amblyopia	655
Mawas LJ, Muller Feuga E.	
Bilateral recession in esotropic children: our experience	662
Piccinelli B, Doro D, Riva C.	
Facial occlusion unnecessary in squint during the flexible sensitive period of the first 6 months of life	687

Rethy S.	
The treatment of amblyopia by the prolonged occlusion and the disocclusion	671
Richon J, Devanelle C.	
Pendular electro-oculography with binasal sectors in clinical practice	675
Scrivanti M, Baroncelli D.	
Photorefracton: a useful tool to detect refraction errors, media opacities and strabismus	685
Sjostrand J, Abrahamsson M, Fabian G, Wennhall O.	
The importance of a precise surgical procedure on the correction amount of the deviation angle in concomitant strabismus	691
Tittarelli R, Guerra M, Benedetti S.	
Prism correction of residual postoperative deviation	699
Zahariev A.	

Transactions 14th European Strabismological Association
18-20th May, 1984, Copenhagen

Mechanical model applications	1
Scott AB, Miller JM, Collins CC.	
The elongation range of medial rectus in functional esotropias	9
Quee MA, Pechereau A, Lavenant F.	
The choice between the medial and the lateral rectus in the surgical correction of squint angle	15
Roth A, Safran AB, Bianchi L, Huguenin F.	
Evaluation of mechanical and innervational factors in comitant strabismus	21
Paliaga GP.	
Results of surgical therapy in nonparetic strabismus	27
Kaufmann H, Kolling GHW.	
Operative and conservative compensation of squint angles difference for distance and proximity	35
Baranowska-George T, Tokarz-Sawinska E, Karczewicz D, Grunt E.	
Pseudo-internuclear ophthalmoplegia following surgical weakening of the medial rectus muscles	43
Von Noorden GK, Tredici TD, Ruttum M.	
The retroequatorial myopexy by glue	51
Fava GP, Fioretto M, Calabria G, Costa ML.	
Eye muscle surgery under topical anaesthesia in endocrine orbitopathy	55
Boergen KP.	
Management of sixth nerve paralysis	63
Russmann W, Lochner M.	
Surgery in mono and bilateral Duane's syndromes	71
Spielmann A.	
Our experience with the use of anchoring suture in strabismus surgery	77
Jovicevic B.	
Simultaneous surgery of the horizontal and vertical components in esotropia	83
Berard PV, Reydy R, Mimouni F, Franceschi F.	
Ocular counterrolling and Bielschowsky head-tilt test in 23 cases of superior oblique palsy	103
Simonsz HJ, Crone RA.	
Objective torsional incomitance patterns in cases of fourth nerve palsy before and after tucking procedures	113
Conrad HG, Franke C, Baranowski B.	
Concerning diagnosis and therapy of cyclovertical deviations	131
Kolling GHW, Kaufmann H.	
Weakening of the inferior oblique muscle with anterior transposition or with myectomy	139
Chimonidou E.	
Ocular torticollis in monozygote twins	145
Calcutt C.	
Brown's syndrome, ptosis and superior rectus muscle underaction/superior mesodermal complex syndromes of the orbit	149
Sevel D.	
The surgical treatment of external congenital ophthalmoplegia	159
Magli A, D'Esposito M.	
Mechanics of eye and head movements	169
Sradj N.	
Enlarged orbit: eye motility and surgical therapy	177
De Decker W, Ewers R.	
Ocular motility imbalance complicating orbital floor fractures: a follow-up of patients with and without surgical procedure	185
Frezzotti R, Capobianco NM, Polito E, Lasorella G.	

Operative therapy of a rare orbital fracture – combined use of an antral and ethmoidal cell balloon Roggenkamper P, Mang WL.	191
Mucle imbalance following retinal detachment surgery Cunha LAP, Caldeira JAF, Susana R, Takahashi W, Cunha SL.	199
Management of strabismus following surgery for retinal detachment Fells P, Lee JP.	207
Round table: what do we investigate with the four prisme dioptre test? De Decker W, Bagolini B, Campos EC, Dannhem E, Haase W, Von Noorden GK.	215
Injection treatment with botulinum toxin Scott AB.	229
Injection of botulinum toxin A into extraocular muscles for correction of strabismus Krzystkova KM, Wilczanski P.	237
Objective assessment of the discrepancy between line and single Es visual acuity in amblyopia by means of visual evoked responses Campos EC, Gulli R, Bolzani R, Orciuolo M, Tagliaferro M.	245
Computerised analysis of ocular motility: a possible tool to detect mechanical components in strabismus Frosini R, Boschi MC, Baldini S.	251
Manifest latent nystagmus affecting patients with uniocular congenital blindness Harcourt B, Spencer F.	259
Acceleration and deceleration in human saccades Konen W, Kirsch A, Muller K, Russmann W.	265
The acoustic brain stem response in the congenital squint syndrome Nissen C, Sjo O, Rindziunski E.	273
The sensitive period in the development of the visual system Assaf AA.	279
Development of deprivation amblyopia in an adult Mehdorn E, Mackensen G.	287
The practical use of anomalous localisation in large angle strabismus Herzau V, Joos-Kratsch E.	293
A follow-up study of small postoperative residual eso-deviations Capobianco NM, Traversi C, Leone RL, Arrigoni L.	301
A comparative assessment of the Lang, TNO and Titmus stereo tests Johnstone R, Brown S.	309
The fourth image of Purkinje and the Lang stereotest. Two new tools in diagnosing microtropia Lang J.	315
Easily performable screening in the newborn: a proposal based on our experience Capris P, Fioretto M, Fava GP, Trasino P, Sannita W.	321
Screening for amblyopia in pre-school children in Denmark Norskov K.	327
Intermittent squint on the ground of pseudosquint Papadedes C, Tachiaos P.	333
Preparation of strabismus surgery by sectorial therapy Couderc-Devaux M, Horovitz G.	339
Overconvergence (blocage): causal anti-adaptive treatment Rethy S.	341
Subophthalmoscopic organic fundus changes in strabismus Gregersen E, Nielsen NV.	345

Transactions 15th European Strabismological Association
1st-3rd September, 1985, Lausanne

A New Method Of Visual Acuity Measurement	1
G Paolo Paliaga	
Optotypes Pour Acuimetrie Visuelle Angulaire Et Morphoscopique	9
J Murube Del Castillo, T Dapena Crespo	
Composants Coticaux Et Reniens Dans L'origine De L'amblyopie Strabique	11
M C Boschi, R Frosini, R Mencucci, A Sodi	
Variation Of Spatial Summation In Photopic Vision For Coloured Targets In Amblyopic Eyes	21
F Sucs	
Binocularity In The Amblyopic Syndrome: Binocular Threshold Campimetric Study	29
G P Fava, P Capris, M Fioretto, E Gandolfo	
Occulsion Permanente Prolongee Et Amblyopie A Bascule	37
E Muller Feuga, M L Thiollet, J B Weiss	
Notre Experience Avec Le Traitement De L'amblyopie Par La Methodique Du Reperage-Observation: Evaluation De La Valeur Et De La Limite De Cette Technique	47
R Frosini, M C Boschi, A Sodi, R Menucci	
A Translucid Screen For Studying The Position Of The Eyes Under A Unilateral And A Simultaneous Cover Test	55
A Spielmann	
Le Test Des Verres De Diffraction (T.V.D) Dans Les Esotropies Primaries A Petit Angle	65
Gian Paolo Gracis	
Variabilite De L'angle Du Strabisme Et Conditions D'examen	73
N Jeanrot	
Behaviour Of Esodeviations With A Double Angle Of Deviation	83
N M Capobianco	
Retraktions-Syndrome In Drei Generationen	85
F Fodor, M Ilona, A Fodor	
Ein Neuer Typ Des Duane Sundroms: Fehlinnervation Des Ructus Lateralis Durch Sakkadische Rectus-Superior-Nuerone	93
G Kommerell	
The Crisis Of Strabology And A Way to Surmount It	95
D Sradj	
Origins Of Congenital Infantile Esotropia	105
E M Helveston, R A Nixon	
Hologram Slides Detecting Suppression For Near Only	115
S Rethy	
Non-Accommodative Convergence Excess	121
G K Von Noorden, C Waters Avilla	
Possible Role Of The Trigeminal Nerve In Egocentric Localization	131
E C Campos, C Chiesi	
New Method To Determine The Mechanical Properties Of The Orbital Plant Invivo	139
H Helmle, G Mildner, M Bretschneider, W Konen, J Billie	
Hereditary External Ophthalmoplegia. Some Pathological And Pathophysiological Aspects	147
W A Houtman, T W Van Weerden	
Etude Statistique Prospective De La Binocularite Dans Les Microtropies Post-Therapeutiques	149
M A Quere, F Lavenant	
Les Alterations De La Motilite Oculaire Dans L'ophtalmopathie Basedowienne: Etiopathogenie, Manifestations Cliniques, Anatomie, Pathologique	151
G Lasorella, C Traversi, A M Bardelli, R Frezzotti, E Polito	

Treatment Of Acute Dysthyroid Ophthalmopathy With Botulinum Toxin Injections	153
J P Lee, J S Elston	
Botulinum Toxin Treatment Of Paralytic Strabismus	155
J S Elston, J P Lee	
Intraoperative Continuous Registration Length/Tension Curves Of Attached And	157
Detached Human Eye Muscles And Their Antagonists, Stiffness In Passive Horizontal	
Eye Movement In Awake Volunteers And Analysis With Robinsons Computer Model	
H J Simonsz, G Kolling, H Kaufmann, J Maier, M Schooneman	
Extensive Surgery For The Correction Of Large Angle A-V Patterns	167
A Castanera De Molina	
Indications Of Use Of Anchoring Suture In Strabismus Surgery	177
B Jovicevic, N Srbinovic	
Dis Ands D'operation Du Fil De Cuppers	183
A Roth, M Montard	
A Calculating Model For Estimating The Effects Of Retinal Detachment	185
Surgery On Ocular Otility	
W Konen, K Mueller, W Ruessmann	
Presbytie Et Convergence	195
L J Mawas	
Sensory Adaptions Of The Brain To Squint Infants	197
S Rethy	

**Transactions 16th European Strabismological Association
September 1987, Giessen**

Passive Limitation Of Adduction After "Cuppers Procedure"	55
G P Paliaga	
Results Of Bi-Medial Posterior Fixation (Modified Cuppers Procedure) After 8 Years	61
W De Decker, D Freidrich, J Baenge	
A Muscle Belt For Convergence Excess	71
W Schroeder	
Saccadic Velocity Pre And Post Medial Rectus Cuppers Procedure	75
E Schulz, R Wrosch	
Congenital Esotropia	81
E M Helveston	
Horizontal And Vertical Strabismus: Contemporaneous Surgery On Six Muscles	89
P Aurilia, A Magli, E Chiosi	
Results Of Surgery In Essential Infantile Esotropia	95
G K Von Noorden, C W Avilla	
Morphological Aspects Of Length-Tension Diagrams Of Extra-Ocular Muscles In Strabismus Patients. An Attempt For Clinicopathologic Correlation	101
A M Castanera, L Giner, A Serra	
Lateral Incomitance Induced By Monolateral Recess-Resect-Surgery For Intermittent Exodeviations	109
A Kirsch, W Russmann	
Computerized Analysis Of Oculomotor Disorders Before And After Surgery	115
R Fosini, L Campa	
Computer Determined Measurements Of Squint Angles	123
R Effert, S Leutzbach, S Wolf, M Reim, G Rau	
The Length-Tension Diagrams Of Oblique Muscles In Strabismus	129
Sursoadductorius And Trochlear Palsy	
H J Simonsz, G H Kolling, H Kaufmann, B Van Dijk	
25 Years Experience In Oblique Muscle Surgery	137
K M Krzystkova, E Wojcik	
Unilateral Weakening Of Oblique Inferior Muscle: Delayed Effects	143
E Leonardi, L Pannarale, L Fornasin, A Leonardi	
A New Surgical Technique For Inferior Onlique Weakening: Evaluation Of The First Results Obtained	153
G Salvi, M C Boschi, M Scrivanti	
One Step Surgical Approach For Monolateral Superior Oblique Deficit	161
E C Campos, C Chiesi, C Schiavi, R Codeluppi	
Superior Oblique Paralysis: Surgical Conditions And Long Term Results	167
E Chiosi, A Magli, L Bombace, M Di Muccio	
Operations On Both Oblique Muscles Of The Palsied Eye In Cases Of Acquired Unilateral Trochlear Palsy	173
G H Kolling, H Kaufmann	
Squint Operations After Primarily Performed Total Or Partial Tentomies Years Before Years Before	181
W Aust	
Adjustable Strabismus Surgery	195
G Lasorella	
Applied Structural Surgery	205
A Stein, N Sradj	
Strabismus Surgery Under Topical Anesthesia: A Review Of 167 Consecutive Cases	211
J B Weiss	
Surgical Treatment Of Intermittent Exodeviations	215
W Russmann, S Eithof, B Sandor	

**Transactions 17th European Strabismological Association
21-22, 1988, Maius**

Enbryonic Development Of De Nucleus	11
M D Cortes Rodrigo, J Murube Del Castillo	
The Amount Of Angle Alpha In A Normal Population	17
R Effert, S Gruppe	
Premilinary Results Of A National Wide Ambliopia Screening	23
I Garcia-Ormaechea, S Guilli Maluquer, J De Blas, R Arcon	
Screening For Ocular Vision Defects Among Swedish Small Children	27
G Ladenvall	
Detection Of Early Amblyopis By Preferential Looking	35
K P Boergen Th Kau, E Zenner, E Hainzmaier	
Stereopsis	45
J Lang	
Acuite Visuelle Et Auite Stereoscopique	61
I Garcia-Ormaechea, T Dapena	
Weakness Of Anti-Diplopic Mechanisms Favours Postoperative Diplopia	65
E C Campos, G M Cavallini, R Codeluppi	
Recording Eye Movements During Immobilization Of One Eye	73
R Bolzani, C Cipolly, E C Campos	
Le Choc Propriocepteur Dans L'amblyopie Strabique	79
P H Verin, P Comte, D Fritsch	
Fusion-Visual Information And Proprioceptivity	89
O Alves De Silva, A Mendes, F Pinhal, H Martins De Cunha	
Eye Muscle Forces Measurement	99
B Bagolini, A Dickmann, R Fideli, R Bolzani, F Focosi	
Aumento De Las Forias En Las Operadores De Ordenadores	109
V Boigues, V Vias Fontanel, R Pascual	
Muscle Adaption Precesses In Horizontal Strabismus	119
A M Castanera, M L Giner Munoz, A Serra Castenara	
Coordinate Differentialentre Microtropies, Esotropies Y Amblyopie Anisemetropiques	127
G P Grecis, M Coffano, P Rocci	
Diagnostico differentialentre microtropies; esotropies; y amblyopies anisemetropies	137
GP Grecis, M Coffano, P Rocci	
Ocular Motility Disturbances In Patients With Meningomyelocele	149
G Lennerstrand, J Gallo	
A Prospective Study On Strabismic	157
J Lithander, M Abrahamsson, J Strosstrand	
Casual Research By Prevention Of Early Onset Esotropia	161
S Rethy	
Resultados En El Tratamiento De Al Fijacion Exentrica	167
J Garcia De Oteyza, D Fernandez Agrafojo, E Cardozo, V Alvarez, M C Perosans	
An Alternative Management Of Browns Syndrome	181
R Trimble	
Botulinum Toxic Injections Into Extraocular Muscles	187
K M Krzystkova, A Madrokiewicz, R Szpytma	
Botulin Toxin In Squint	195
L P Lee, J S Elston	
Treatment of sixth nerve palsy in adults	223
R Fitzsimons, J Lee, J Elston	
Chorioretinal Scarring Follwing The Faden Procedure	235
C J Lyons, A Macintyre, P Fells, J Lee	
Fixed versus Adjustable Sutures	239
P Fells, B Mccarry	
Kinetic Performances And diagnosis De Blockage	243

M A Quere, F Lavenent	
Una Alternative A La Miotomia Marginal	249
F Gaalindez, C Riaza, J Garcia, I Fernandez, R Rodrigo	
Histological And Histoenzimatic Teatures	253
A Megli, P De Rosa, S Montagnani	
Surgical Treatment Of Intermittent Exotropia	257
J Coimbra De Matos, J Breda, J Borges, J Castro Correia	
Our Failures In Intermittent Exotropia Surgery	261
FJ Munoz, Negrete, R Gomez De Liano, J M Rodriguez	
Results Of Fildosagittalizzazione	271
M C Boschi, M Scrivanti, C R Mastellone	
Myectomy And Denervation in Severe Inferior Oblique Overaction	277
R Gomez De Liano, J M Rodriguez Sanchez, P Gomez De	
Superior Oblique Underaction	283
G Lasorella	
Bilateral Consecutive Superior Oblique Following	291
Cj Lyons, J P Lee	
A Estaistical Survey Of Muscular Trasnporsition	295
A Magli, E Chiosi, M Di Mauccio, I Giardino, P De Rose	
Analysis Of Oblique Muscle	303
H J Sinonsz, G H Kolling, B Van Dijk	
Surgical Treatment Of Orbital Floor Fractures	313
J Esser, C Mohr, D Schettler, H Hunz	
Paly And Perlesia	323
J Murube Del Castillo	

**Transactions of 18th European Strabismological Association
1989, Krakow**

Intermittent Eyelid Closure In Strabismus	23
R E Wiggins, G K Van Noorden	
A New Classification Of Superior Oblique Palsy	25
E M Helveston	
The Dissociate Deviations In Infantile Strabismus	33
A Speilmann	
Manifest Latent Nystagmus And Third Nerve Congenital Palsy	39
F Lods, C Ghenassia, F Lalvee, J E Guez	
Partial Oculomotor Palsy: A New Surgical Procedure	45
H Kaufmann	
Early Surgery In Fibrosis Syndrome	55
K P Boergen	
Surgical Treatment Of Accommodative Esotropia	61
P V Berard, P V Berard Jr, D Fonta-Jourdan	
Dependence Of Results In Operations On Straight And Oblique Muscles Of Eyeball In The Mode Of Their Incision	71
T Goerge-Branowska, E Tokarz-Sawinska, B Ademek, K Mozolewska, L Puchalska-Niedbal	
Adjustable Sutures In Strabismus Surgery	87
T Tischner	
Our Experience With Full Muscle Transposition Procedure	93
G Lasorella	
Anterior Segment Ischemia Of The Eye	97
C Papadedes	
Early Postoperative Hydrodynamic Disturbances Of The Eye After The Strabismus Surgery	103
D Korzycka	
Differentail Light Sensitivity In Strabismus Amblyopia	109
V Herzau, A Dresel, C Girrbach	
Increase In Visual Evoked Responses Latency In Essential Infantile Esotropia	115
E C Campos, R Bolzani, K Petropulakos, M F Bertolani, R Gulli, C Schiavi	
PL And VEP Measurements Of Normal And Disturbed Visual Development	123
T Kau, K P Lorenz	
Clinical Experience With Preferential Looking Techniques	127
A Rydberg	
Strabismus And Refractive Errors In Prematurely Born Children	133
A Population Based Study	
J E Gallo, G Lennerstrand	
On The Effectiveness Of The Amblyopia Treatment In Children	139
R Weidlich	
Predictive Value Of The Langs Stereo-Test In Anisometric Amblyopia	145
R Frosini, L Campa, PF Gangemi	
The Effect Of Prolonged Monocular Occlusion On Latent Nystagmus In The Treatment Of Amblyopia	151
HJ Simonsz, G Kommerell	
Interest Of Dazzling-Test In The Diagnosis	157
N Jeanrot, L Bezait, C Labro	
Monocular OKN Diagnostisic Test In Children	163
M Bourron-Madignier	
Accommodative Problems In Cases Of Exophoria	173
B Neikter	
Fixation-Choice Test Completes Cover-Test In Baby	179
S Rethy	

The Dynamic Of Eye Change In Different Stages Of Graves Disease	185
B Mirkiewicz-Sieradzka	
Increased Muscle Tension And Reduced Elasticity Of Affected Muscle, Squint And	193
Restriction Of Ocular Motility In Recent-Onset Graves Disease Are Caused By Active	
Muscle Contraction	
H J Simonsz, G Kommerell	
Radiotherapy Or Surgery For Orbital Decompression In Dysthyroid Eye Disease?	201
P Fells, P Rosen, B Pickard, N Plowman	
Botulinum Toxin Therapy In Dysthyroid Eye Disease	205
J P Lee, C Lyons, S Vickers	
The Results Of Surgical Therapy Of Muscle Disorders In Endocrine Ophthalmopathy	211
W Andrejewska, E Tokarz-Sawinska, D Przerwa, Z Krzystolik, K Pilarska	
CT Scanning And MRI In Ocular Motility Disorder	223
J Lang	
Diagnostic Ultrasound In Disturbances Of Ocular Motility	229
E Schwarz, J Thieme	
Nemalin Myopathy – A Case Report	235
G Ladenvall	
Oculomotor Problems In Craniofacial Dysostosis	243
J W Walker, J Russell-Eggitt, D Taylor	
A Retrospective Analysis Of The Surgical Treatment Of Pure Orbital Floor Fractures	257
M H Miller, D H Jonathan, J Bernstein, B Pickard, J P Lee, P Fells	
Complex Zygomatic-Maxillary Fracture In The Materials Of The Department	262
Of Maxillo-Facial Surgery At The Institute Of Surgery Of Military Medical Academy	
In Lodz Poland	
K Najwer, M Swider, A Stepniak-Gozdziewicz	
Eye-Movement Disturbances In Isolated Orbital Floor Fractures	265
A Zamlynska, H Wanyura, J Piekarczyk, D Samolczyk	
The Post-Traumatic Superior Orbital Syndrome. Review Of 14 Cases	271
S B Bartkowski, K M Krzystkova, A Kubatko-Zielinska, J Zapala	
Management Of Depressor Paresis Following Orbital Trauma	277
J Lipton, B Page, J P Lee	
Hydroxylapatite For The Correction Of The Traumatically Enlarged Bony Orbit	287
W De Decker, Th Lambrecht	
Transconjunctival Approach To Retrobulbar Tumors	293
G Kommerell	
Results Of Intra-Orbital Processes Operated By Fronto-Basal Osteoplastic Orbitomy	297
H Muhlendyck, E Marakakis	
Topographical Anatomy Of Orbital And Optic Nerve Tumors	303
W Janicki, W Daniel, Z Krzystolik, S Kowalik	
The Diagnostic Of Orbital Tumors	309
J Skladzien, J Turek	
Reconstruction Of The Orbit In Recklinghausen Disease	315
T Kruszczyński, W Kokot, P Lipowski	
The Function Of The Eye After Orbital Operations- Long Term Observations	319
A Stankiewicz, A Bakunowicz-Lazarczyk, J Grochowksi, P Sobolewski	
Surgical Treatment Of Ptosis By Brow-Suspension By Means Of Scleral Slips	325
L Yankov	

**Transactions 19th European Strabismological Association
June 1991, Crete**

Effect Of Maximum Inferior Oblique Surgery In Unilateral Strabismus Sursoadductorius K P Boegen, C Muller	11
Elevation In Adduction: No To A Systematic Weakening Of The Inferior Oblique Muscle A Spielmann,	17
Superior Oblique Tucks: A Five Year Retrospective Review A R Evans, J Lee, P Fells	23
Results Of Oblique Muscle Surgery H Kaufmann	29
Diagnosis And Management Of The Superior Oblique Underaction N Ikononopulos, E Iliakis, A Damanakis, E Panagiotidou	35
An Expert System For Surgical Indications In Infantile Esotropia R Frosini, L Campa, G L Gavazzi	43
Binocular Vision Obtained On 450 Cases Of Congenital Esotropia Operated At The Age Of About 2 Years E Chimonidou, K Chatzitefanou	49
Development Esotropia – New Surgical Technique C Papadedes	55
Infantile Esotropia – Large Bimedial Rectus Recessions Versus Bimedial Posterior Fixation With Additional Rectus Recessions M Spiritus	59
Four Muscle Surgery For The Treatment Of V-Esotropia K Psilas, J Asproudis	65
Six Years Of Experience With Structural Dissociated Surgery In Strabology A Stein, N Sradj	71
Adjustable Strabismus Surgery: Is There A Drift In The Angle Preadjustment? A Evans, B Mccarry, C Macewan, J Lee	77
Botulinum Toxin In The Treatment Of Acute Surgical Overcorrections S Hague, J Lee, K Cooper	83
Intermittent Distance-Type Exotropia: Surgical Results C J Lyons, J MM Lawson, B Mccarry, P Fells	89
Two Types Of Surgical Treatment In Exotropia W Lange, T Schmidt, S Spiel, B Merl	95
Excessive Lateral Rectus Muscle Recession In The Treatment Of Intermittent Exotropia D Feretis, A Kordouli, A Trivlis, J Koliopoulos	101
Changes In Ocular Motility Following Radiotherapy For Dysthyroid Eye Disease J MM Lawson, P H Rosen, B Mccarry, L Kousoulides, S Lightman, N Plowman, P Fells	107
Experiences With Recess/Resect Procedures On Horizontal And Vertical Rectus Muscles In The Treatment Of Graves Ophthalmopathy Colling GH	113
Treatment Of Strabismus After Retinal Detachment Surgery With Botulinum Neurotoxin A Lee J, Page B, Lipton J	119
Extraocular Muscle Complications In Retinal Detachment Surgery G Klainguti, A Castella, J Chamero, M Gonvers	125
The Surgical Treatment Of Traumatic Browns Syndrome G W Aylward, J Lawson, B Mccarry, J Lee, P Fells	131
Duane's Syndrome With Vertical Restriction M Marcus, B Beidner, E Ronen, Y Yassur	137
Muscle Splitting In The Surgery Of Strabismus B Bagolino, A Dickmann, G Savino, R Bolzani	141

Botulinum Toxin In Partially Recovered Vith Nerve Palsy	147
P Eva-Riordan, J P Lee	
Botulinum Toxin In Unrecovered Vith Nerve Palsy	153
P Eva-Riordan, J P Lee	
Anchoring And Adjustable Sutures: A Combined Surgical Approach In Restrictive Strabismus	159
G Lasorella	
Diagnostic And Therapeutic Aspects Of Anomalous Head Postures (AHP)	163
K M Krzystkova, A Kubatko-Zielinska	
Abnormal Retraction Syndrome Due To Persistent Retractor Bulbi	169
H Muhlendyck, E Marakakis, A T Helwig	
Case Of Internal Pterygium After Strabismus Surgery	175
E Chimonidou, D Anreanos, K Chatzistefanou	
The Use Of Sectors In Partial Occlusion	181
G Horovitz	
Sector Occlusion: Does It Have A Role?	189
A Spielmann	
The Role Of Sector Occlusion In The Treatment Of Congenital Esotropia	195
R Frosini, L Campa	
Comments On Sectors	199
E Campos	
Rount Table:	201
P Fells, E Campos, R Frosini, G Horovitz, A Spielmann	
Bilaterally Pseudoparalytic Squints Treated By Means Of Prisms	211
T George-Branowska, W Andrzejewska	
Sectors Treatment Of Paralytic Strabismus	217
M C Boschi, A Sodi, P Grasso Cannizzo, E Castellani	
Data Processing Of The Strabologic Chart: Accuracy And Logic	223
F Lods	
The Abducens Oculomotor Relaxation Field – The Interest Of Its Management	229
O Alves De Silva	
Longitudinal Studies Of Visual Development In Infants Under Occlusion	233
Th Kau, C Kau, K P Boergen	
Progressive-Addition Lenses In The Treatment Of Accommodative Escot With High AC-A Ratio	239
A Castanerade Molina	
Disparity Vergence And Strabismus	245
W A Houtman	
Binocular Vertical Sensory Adaptions In Essential Infantile Esotropia	251
E C Campos, C Schiavi, R Bolzani	
Surgical Procedure Based On The Velocity Of Saccades In Esotropias	257
M Madignier-Bourron	
Discordancy And Monozygosity In Squinting Twins	263
B Devries, W A Houtman	
Manifest Strabismus In An Unselected Population Of Swedish Children	269
Longitudinally Followed From 1 To 6 Years	
J Sjostrandm M Abrahamsson	
The Efficiency Of Pediatrics In The Detection Of Strabismus And Amblyopia	275
B Biedner, M Marcus, E Ronen, Y Yassur	
Visual Acuity Maturation Is Negatively Affected By Alternating Essential Infantile Esotropia	281
Physiological Uniocular Localisation Versus Amblyopic Localisation	285
W Hasse, B Nisch	
Simple And Mixed Types Of Amblyopia	291
C P Rougas, A G Amariotakis, N J Oekonomou	
Preventions Of Extraoveolar Fixation Formation In Infants	297

T George-Branowska, J Litwinska, M Danieyko-Osman Congenital Nystagmus And Chaos Theory I M Strachan	303
Interest Of Modelisation Of The Two Optokinetic Pathways In The Study Of Congenital Strabismus And Latent Nystagmus (Poster) Ci Speg-Schatz, K Foughali-Atti, Ch M Kopp, J Flament	307

**Transactions of 20th European Strabismological Association
May 1992, Brussels**

Force Development And Velocity Of Horizontal Saccadic Eye Movements In Exotropia G Lennerstrand, T Suna	15
What Causes Up And Downshoot In Adduction? A Liesch, B Torok, H J Simonsz	23
The Range Of Muscles Stretching In Strabismus Re-Operations (Esotropia Relapses And Consecutive Exotropia) M A Quere, S Toucas S, F Lavenant, P Bouchut	29
In Esotropia, Is The Elongation Test Of The Horizontal Recti Foreseeable? A Perchereau	35
Phenomena Of Oculocardiac Reflex During Strabismus Surgery H Muhlendyck, U Braun	43
Muscular Fibrosis Following Posterior Fixation Suture Of Superior Rectus Muscle In Rabbits: Role Of Degenerated Myofibrils Y B Roy, B S Oum, S H Lee, S Awaya	49
Ultrastructure Of Extraocular Muscles In Strabismus L Domenici-Lombardi, R Menucci, M Corsi, M Scrivanti, MS Faussone Pellegrine	55
The Value Of High Quality Electromyographic Monitoring For Botulinum Toxin Therapy J Pater, J Lee, C Hogg	61
Management Of Symptomatic Latent Nystagmus C Lui, M Gretszy, J Lee	71
Pseudo-Latent Nystagmus : Congenital Nystagmus With Exphoria A Spielmann, A C Spielmann	77
Association Of Visual Impairment And Strabismus With Lesions Of The Pre-Term Brain G Holmstom, J Pennock, K Drew, P Sonksen, L Dubowitz	83
Nasotemporal Asymmetry Of The Differential Light Threshold In Strabismic Amblyopia V Herzau, C Girrbach, A Roth	107
A Model For Suppression In Amblyopia R A Harrad, R F Hess	113
Comparison Of Two Contrast Sensitivity Tests During Amblyopia Treatment P U Koskela	119
Further Analysis Of Monocular Eye Closure In Intermittent Exotropia E C Campos, C Cipolli, D Ferraretti, C Schiavi	123
How Accurate Is Examination At Age One? Pilot Study Of The Early Vs Late Strabismus Surgery Study Group H J Simonsz	127
Factors Influencing Grating Acuity Results In Preverbal Children E Schulz, J Zimmermann, C Damms	133
A New Vision Tester For Children Y H Jin, B L Chang	137
New Device For Evaluation Of Ocular-Motor Deviation J Y Guessant, C Joly, P Debruyne, J F Rouland, J C Hache, G Constantinides	143
The Influence Of The Refractive Error On The Development Of Amblyopia In Untreated Infantile Esotropia C Calcutt, A Murray, S Young	149
Refractive And Sensorial Follow-Up In Fully Accommodative Refractive Esotropia J Breda, A Magalhaes, J Castro-Correia	155
A New Approach To Esotropia With Variable Angle	161

M Van Lammeren, R Apers, L De Clippeleir, L Van Eckhoutte, H Janssen Surgery Of Fully Accommodative Esotropia: Treatment Alternative Or Imposture? M Deller	167
Binocular Function And Vertical Deviations In Infantile Esotropia Following Early Surgery	173
S B Ozkan, M Orhan, A S Sanac, S Duman Botulinum Toxin In Essential Infantile Esotropia And In Late Normosensorial Langs Strabismus	179
C Schiavi, P Beneditti, E C Campos Analysis Of The Torsion Seen In Early Onset Strabismus	183
V Paris Results Of Retroequatorial Myopexia In Esotropia	189
A Sansonetti, A Roth, L Delarue, F Huguenin, A Ben Ayed Acute Comitant Strabismus And Esophoria	195
M Bourron-Madignier Early Onset Exotropia	203
D Post-Wittebol Exotropia Before One Year: Clinical Characteristics And Evolution	207
F Lods, C Gramet, F Imbert Effect Of The Checkerboard Pattern Stimulator On Motor And Sensory Fusion	213
S Awaya, T Yagasaki, Y Inagaki, T Hirai Functional Prism Adaption In Patients With Intermittent Exotropia	217
E Danheim-De Decker, G Schwerdtfeger, D Verlohr The Effect Of Surgical Alignment On Stereo-Acuity In Constant Exotropia And Intermittent Distance Exotropia	223
P E Waddingham Two Therapeutic Concepts In The Intermittent Divergent Squint	229
W Lange, W De Decker Risk Factor For The Spontaneous Consecutive Exotropia	235
E Ch Schwarz Acquired Globe Retraction	241
J S Elson, C M Moorman Bilateral Congenital Vertical Gaze Disorders: Congenital Muscle Fibrosis Or Congenital Central Nervous Abnormality?	249
AA Assaf Disinsertion And Recession Of The Inferior Oblique Muscle	255
T Matthes, B C K Patel, J P Lee, P Fells Unilateral Tucking And Advancement Of The Interior Oblique Case Report	261
A Lainck, W Forster, H Markodimitrakis, H Busse Surgery In Duane's Retraction Syndrome – Methods And Results	267
K M Krzystkova, A Kubathko-Ziellinska Surgical Treatment In Brown's Syndrome	273
M H Gobin, A Putteman, C V Gobin, L Bassime How To Intergrate Botulinum In The Treatment Of NVI Palsy	279
R Apers, L De Clippeleir, L Van Eeckhoutte, M Van Lammeren, H Janssens Tendon Lengthening Procedure In Ocular Motility Disorders Secondary To Graves Ophthalmopathy	285
M Nardi, L Bartalena, C Marcocci, M P Bartolomei, A Pinchera, L Barca Prevention Of Anterior Segment Ischaemia	291
L Kowal, M Troski Changes In Anterior Segment Circulation Following Vertical Rectus Muscle Surgery In Adult Patients	295
J M Olver, J P Lee Cycloplegic Refraction In Children: Single Dose Atropinization Vs 3 Day Atropinization	301
G Auffarth, W Hunold	

A Study By Means Of The Fourier Analysis Of The Smooth Pursuit Movements In Normal And Esotropic Children M C Boschi, A Sodi, E Castellani, F Moroni	305
Structural Changes Of Extraocular And Orbicularis Oculi Muscles Treated With Botulinum Toxin In Man S Brogelli, G Alfieri, S Maurri	309
Treatment Of Non-Accommodative Fixation-Linked Esotropia L De Clippeleir, R Apers, L Van Eeckhoutte, M Van Lammeren	313
Bi –Medial Rectus Muscle Resection For Intermittent Exotropia W De Decker	317
Plurifocal Correction : A Tool Dianosis And Treatment In Convergence Excess R Frosini, L Campa, S Frosini	321
The Binocular Cyclometer G P Gracis	325
Retrospective Study Of Childrens Response To The Biprismic Test G P Gracis	329
Congenital Syndrome Of Oculomotor Disturbances: Mulitdisciplinary Diagnosis And Results Of Surgical Treatment A Kubatko-Zielinska, K M Kryzstkowa	333
Early Visual Screening At Age 0, 9, 18, 30 Months With The VOV Method Instruction Of The Method By Orthoptists To All Community Doctors In The Netherlands.	339
Hang-Back Recession J B Lee, C Y Kim, H B Kim	342
O C E Orthoptistes De Al Communaute Europeene M Louly, J Clayton, A Van Mourik-Noordenbos	347
The Clinical And Electromyographic Findings In Two Cases Of Wildervanks Syndrome T D Matthews, J P Lee	351
Risk Of Postoperative Diplopia? Testing With Botulinum Toxin Z Nussgens, P Roggenkamper	355
Botulinum Toxin Therapy In Amblyopic And. Or Previously Operated Patients M Orhan, S B Ozkan, A S Sanac	357
The Results Of Faden Operation In Congenital Nytagmus Dampening By Convergence A S Sanac, S B Ozkan, M Orhan	361
Adhesion Molecules In The Immunopathogenesis Of Thyroid-Associated Ophthalmology A Pappa, P Fells, S Lightman	365
Post –Operative Evolution After Sesoriomotor Balance From Exophoric Tropia To An Exotropia R Pagassou-Albouy, J Gracia De Oteyza	367
C Schiavi, K Petropulakis, E C Campos	373
Character Differences Between Patients With Exophoria, Decompensated Exophoria And Intermittent Exotropia B Schmal, H J Simonsz	377
Force Development And Velocity Of Horizontal And Vertical Saccadic Eye Movement In Non-Strabismic Subjects T Suna, G Lennerstrand	379

**Transactions 21st European Strabismological Association
1993, Salzburg**

Evaluation of the Ammann-Test in the clinical routine	15
Herzau V, Girrbaach C, Roth A	
Structural-hemispheric theory of eye movements and its confirmation by dynamic orbital magnetic resonance imaging	21
Sradj N, Cabanis EA	
Saccadic muscle pulse in absence of fixation target	27
Dickmann A, diNicola D, Savino G, Bolzani R	
Early postoperative force generation tests	33
Strachan I, Burke J	
Optokinetic nystagmus, stereoscopy and early onset strabismus in the first year of preterm infants	39
Frosini R, Campa L, Frosini S	
Is there a cause effect relationship between suppression and amblyopia in strabismus?	45
Schiavi C, Benedetti P, Scorolli L, Campos EC	
Amblyopia ex ametropia: how severe is it? Can we prevent it?	51
Papadedes C, Rougas C, Alexakis J	
Stereopsis in patients with traumatic aphakia with special reference to the Pulfrich phenomenon	57
de Decker W, Nicolai U, Thielert U	
Congenital strabismus syndrome – long-term results of conservative and surgical treatment	63
Salomon A, Strangler-Zuschrott E	
Laminotomy; an anti-contracture strabismus operation	67
Molnar K	
On the efficiency of the ‘anti-contracture’ operation based on the surgical results of 1462 esotrop patients in Budapest and Szeged	73
Deak A, Fodor M, Molnar K	
Elevation in adduction in infantile esotropia: a challenging clinical sign	79
Spiritus M, van den Broeck M, Kallay Jr O, Jean D	
Symptomatic DVD presenting after childhood	85
Doran RML, Luck J	
Non surgical treatment of dissociated vertical deviation: preliminary results	91
Reich-D’Almeida F, Reich-D’Almeida I	
Anterior tendon displacement of the inferior oblique muscle for dissociated vertical deviation – effectiveness and long-term stability	97
Burke J, Scott W, Kutschke P	
Management of orbital fractures. Round table discussion	103
Thaller-Antlanger H, Fells P, Krenkel Ch, Krystkova K, Muhlendyck H	
Genetic aspects of strabismus in twins investigated with DNA-typing or twin zygosity	129
Fluelar U, Hass H, Weiler G, Russmann W, Kaufmann H	
The dynamic head tilt test and the concept of a supranuclear trochlear palsy	135
Kommerell G	
Deficiencies of the fixation system, especially the syndrome of children with strabismus, cerebral palsy and epilepsy	139
Lang J, Flueler U	
Down’s syndrome – methods of assessment	145
Charnock A	
Duane’s retraction syndrome: clinical observations in 44 patients	151
Breda J, Magalhaes A	
The results of magnetic resonance imaging in Duane’s retraction syndrome	157
Ozkan S, Aribal E, Orhan M, Sanac A, Duman S	
Incomplete external ophthalmoplegia and infantile myasthenia	163
Kaiser H, Thaller-Antlanger H, Wenger E	

Transposition procedures versus recession-resection procedures: surgical results in 121 cases of NVI palsy	169
Kaufman H, Gebauer H	
Association of fixed suspensions of the capsulo-palpebral head of the inferior rectus with semi-adjustable recession of the inferior rectus muscle to minimise recession complications	175
Spielmann A, Spielmann AC	
Operative dosages and retroequatorial myopexia	181
Sansonetti A, Roth A, Delarue L, Huguenin F, Ben-Ayed A	
Effects of strabismus surgery on corneal topography	187
Nardi M, Pellegrine G, Bartolomei MP, Gremigni E, Lepri A, Barca L	
Abnormal stretching of the ipsilateral superior rectus muscle in congenital superior oblique palsy	193
Quere MA, Pechereau A, Remy Ch, Bouchut P	
The advantage of topical anaesthesia in complicated cases for strabismus surgery	199
Putteman A, Deconinck H, Beckers S, Bassim L	
Squint operation under topical anaesthesia in endocrine orbitopathy: a 15-year experience	205
Boergen KP	
Posttraumatic diplopia – diagnosis, treatment and results in patients with blow-out fracture of the orbit	211
Kubatko-Zielinska A, Kryzstkowa K, Bartkowski S, Zapala J	
Blow-out fractures: a study of long-term morbidity of patients with and without surgical treatment	217
Kousoulides L, Fells P, Lee JP, Hague S, Aylward GW	
Results of a prospective randomised trial of botulinum toxin therapy in acute unilateral sixth nerve palsy	223
Lee JP, Harris S, Cooper K, MacEven C, Jones S, Cohen J	
Botulinum toxin in the management of acquired nystagmus and oscillopsia	229
Ruben S, Lee JP, Elston J	
Sudden onset concomitant esotropia	235
Timms C, Gregson RMC, Lee JP, Taylor D	
Natural history of exodeviation	241
Nakagawa T, Kii T	
Preoperative prismatic treatment in esotropic children. A comparative study	247
Zehetmayer M, Stangler-Zuschrott E, Schemper M	
Changes of AC/A ; ratio resulting from surgical correction of accommodative esotropia	253
Vercher JL, Semmlow JL, Putteman A, Gauthier GM, Berard PV	
Convergent strabismus fixus	259
Maruo T, Kubota N, Iwashige H	
Progressive additional lenses in accommodative esotropia with high AC/A ratio	265
Acar B, Kahvecioglu C, Talu H, Kevser A, Yilmaz F	
Role of the inferior oblique in the early onset strabismus	271
Paris V	
Distance stereoscopic vision and suppression in intermittent exotropias	277
Lods F, Lalvee F	
Analysis of retinal rivalry in normals and in esotropia patients with anomalous retinal correspondence	283
Bolzani R, Piaggi S, Campos EC	
Screening for microtropia in infants and toddlers with digital Purkinje I-IV reflection pattern evaluation: experience with a novel computer system	287
Barry JC, Effert R, Kaupp A, Meyer-Ebrecht D, Dkopnik H, Simon F, Sommer B, Uberhofen S, Reim M	
Squint surgery in multi-handicapped children with an impaired visual perception	293
Radner W, Priglinger S	
Vertical saccadic velocity and force development in superior oblique palsy	297
Lennerstrand G, Tian S	

Dynamics of saccades in strabismus and amblyopia	303
de Faber J, van Rijn L, Collewijn H	
The new biocyclometer	309
Gracis G, Fiore D	
Contrast sensitivity in amblyopia: a comparison between different contrast sensitivity tests for the detection of amblyopia	315
Han Y, Rydberg A, Lennerstrand G	
A new polarized screening method	321
Fea A, Piccoli M, Basso A, Musso M, Vitale Brovarone F	
A new ophthalmoscopic lens for measuring ocular torsion	327
de Ancon E, Klainguti G	
Echobiometric and refractive evolution of fixating and amblyopic eye	333
Burtolo C, Polizzi A, Fava GP, Fioretto M	
The influence of axial length of the globe on the effect of strabismus surgery	339
Krzizok Th, Graf M, Kaufmann H	
Corneal astigmatism and strabismus surgery	345
Barca da Costa M, Pinto P, Paulo J, Faria C, Pereira C	
Fundus findings following Faden operation	351
Ozkan S, Eldem B, Orhan M, Ozdemir , Sanec A	
Biopsy interpretation problems in extraocular eye muscles	355
Muhlendyck H	
Glycosaminoglycans in the pathogenesis of thyroid-associated ophthalmopathy	359
Pappa A, Fells P, Lightman S	
Localisation technique for inferior oblique recessions	365
Windmann A, Kaufmann H, Krzizok Th	
Simulated superior oblique tendon sheath syndrome following orbital floor fracture	369
Mayer W, Baldissera I, Puelacher W	
Vertical shifting operations in patients with congenital nystagmus and vertical torticollis	375
Jarzebinsky-Vecerova M, Happe W, Muhlendyck H	
Apparently successful early surgery for head tilt in a patient with Duane's syndrome	381
Schulz E	
Incidence and management of strabismus after orbital decompression for disfiguring exophthalmos in thyroid orbitopathy	387
Lyons C, Rootman J	
Unocular fields of fixation in thyroid eye disease	391
McCarry B, Kousoulides L, Aylward GW, Lawson JMM, Potts M, Fells P	
Traction sutures in the management of fixed divergent strabismus	397
Gregson RMC, Lee JP	
Botulinum toxin and surgery in paralytic strabismus	401
Brogelli S, Alfieri G, Barontini F, Campana G, Frosini R, Maurri S	
The role of botulinum toxin in the management of superior oblique palsy	407
O'Neil D, Gregson R, Hakin K, Lee JP	

**Transactions 22nd European Strabismological Association
1995, Cambridge UK**

Family history Of Strabismus And A Risk Indicator For Selective Screening J Sjostrand, M Abrahamsson	17
Strabismus In Children Born Before 32 Weeks Gestation PM Clarke, MP Strong, NP Cornell, DG Fritz, S Tion,	23
Patient Information And Education In Strabismus And Amblyopia Using Interactive Computer Technologies JTHN De Faber, UF Eddema,	29
Heredity In Strabismus B Gokyigit, S Akar, E Katiogit, OF Yimaz	34
New Facts In The Convergent Comitant Strabismus Heredity A Lackovic, P Fischerova	40
Functional And Structural Abnormalities Of Visual Cortex In Infantile Strabismus L Tychsen, A Burkhalter, R G Boothe	47
Eye Movements In Normal Subjects Induced By Vibratory Activation Of Neck Muscle Proprioceptors Y Han, O Lennerstrand	53
Correlation Of Sensory Changes And Visual Evoked Potentials In Patients With Duane's Syndrome IE Sloper, ADM Collins	59
CT Guided Needle Biopsy Of The Medial Rectus MP Clarke, DL Richardson, CB Ellerton, PR Kendall Taylor	65
Evaluation Of The Sign Of Anaesthesia By A Photographic Method. Preliminary Results A Pechereau, F Lingereux, MA Qyere, F Lavenant, M Weber	66
Intractable Diplopia Due To Non-Traumatic Loss Of Motor Fusion S Shah, AL Spencer, AM Ansons	73
A Study Of The Method Of Testing And Recording Of The Post-Operative Diplopia Test C Gray, A Ansons, A Spencer	79
The Management Of Diplopia Using Bangerter Graded occlusive Foils A McIntyre, P Fells	85
Psychological Characteristics Of Orthoptic Patients Being Assessed For Cosmetic Strabismus Surgery C Gray, AM Ansons, J Kinsey	91
Horizontal Diplopia After Retinal Detachment Surgery And Pre-Existing Heterophoria M Bouron Madignier	96
Effect Of Bifocals On Accommodation Range In Hypoaccommodatives H Muthlendyck, J Goerdt	101
Accommodative Range In Accommodative Esotropia. Is It Necessarily Adversely Affected By The Use Of Bifocal Spectacles. C Calcutt, P Kinnear, H Armstrong	106
Holmium: Yag LTK: A New Tool For Correction Of Accommodative Esotropia S Frosini, R Campa, R Caputo, A Francini P Grasso Cannizzo, E Trivell, L Crocianni, G Leopardi, A LA Tone, R Frostini	111
Abolition Of Cyclic Esotropia Following Retention Of Binocular Function By Optical Correction Of The Deviation On Squinting Days G Woodruff	117
Cyclic (Alternate Day) Esotropia. Case Report And Literature Review F Rowe	118
Bilateral Vertical Recti Recessions For Vertical Abnormal Head-Posture In Congenital Nystagmus: Are They Successful? Do They Create Alphabetic Disequilibrium? AC Spielmann, A Spielmann	124

Alternating Esotropia, Toricollis And Head Tremor In Non-Decussating Retinal Fugal Fibre Syndrome P Apkarlan, JTHN De Faber, L Wenniger Prick	130
Changes Of Subjective And Objective Cyclodeviation By Inferior Oblique Muscle Recession HD Schworn, KP Boergen, S Eithoff, M Schaumberger	135
Surgical Treatment Of Bilateral Trochlear Nerve (NIV) Palsy With Special Regard To Cyclodeviation T Krzizok, M Graf, H Kaufmann	141
Effect Of Minimal Inferior Oblique Recession In V-Pattern KP Boergen, AL Ali, HD Schworn	147
The Conservative Treatment Of Vertical And Oblique Muscles Deviation GT Baranowska, L Puchalska-Niedbal	153
Long Term Follow Up Of Botulinum Toxin Treatment In Essential Infantile Esotropia And In Late-Onset Normosensorial Esotropia C Shaivi, L Scorolli, EC Campos	159
Spontaneous Consecutive Esotropia RS Edwards, J Butler- Keast, JF Shilling, MF Barnett	164
Early Versus Late Alignment Of Infantile Esotropia Assaf A	169
Current State Of The Early Vs Late Infantile Strabismus Surgery Study U Haag	175
Adjustable Suture Techniques In Strabismus Surgery AM Mcelvaney, T Sabala, AM Ansons	181
Pathogenesis Of Visual Symptoms During Occlusion Therapy For Amblyopia RA Harrad, BS Tam, A Whittaker, RB Ellingham	187
The Onset And Recovery Of Motion Perception Deficits In Acute Sixth Nerve Palsy J Hoffmann-Shallo, CR Bentley, AB Cobo Lewis, JF Acheson, AM Bronstein, MA Gresty	192
Depth And Size Of Suppression Scotomas In Micro And Divergent Strabismus MV Joose, EM Simonsz, EM Van Minderhout, PTVM De Jong	198
A Test For Retinal Correspondence Without Artificial Dissociation V Herzau, N Hockele, M Schrz	204
Outcome Of Initial Botulinum Toxin Therapy In Patients With Consecutive And Secondary Exotropia J Lawson, L Kousoulides, J Lee	211
Operative Findings In Patients With Consecutive Divergence Strabismus CJ Heaven, AM Ansons	216
Long-Term Results Of Surgery For Consecutive And Secondary Exotropia L Kousoulides, J Lawson, P Fells, J Lee	222
Treatment For A Or V Pattern Exotrophia By Slanting Recession Of Internal Rectus Muscles For Insertion B Bierder, R Frilling	227
Functional Care With Botulinum Toxin Treatment V Balakrishman, V Maurino, E Lymburn, C Macewan, JP Lee,	232
Conjunctival Closure In Strabismus Surger. Vicryl Vs Fibrin Glue G Rosenthal, B Bierner	238
Analysis Of The Results Of 14 Cases Of Strabismus Surgery In Dysthyroid Eye Disease MP Clarke, P Kendall Taylor, CP Ellerton	243
Colour Doppler Imaging Of Superior Ophthalmic Vein In Thyroid Associated Eye Disease D Can, SB Ozam, H Ozdemir, A Atilla, MF Soyley, S Duman	249
Surgical Repair Of Orbital Fractures At What Time? RJ Grootendorts, K Verhoeff, R Wijngaarde, K De Man, JTHN De Faber	255
Unilateral Coronal Synostosis	258

JW Walker, I Russel-Eggitt, I Hayward, R Jones	
Analysis Of Nystagmus	265
M Gresty	
Idiopathic Congenital Nystagmus – Examination Of Relatives	269
J Shallo-Hoffmann	
Congenital Nystagmus: Masquerade Syndromes	274
AT Moore	
Surgery To Dampen Nystagmus	286
A Spielmann	
Management Of Contemporary Head Posture In Congenital Nystagmus	293
J Lee	
Botulinum Toxin In Late Onset Esotropia And Influence Of Potential Binocularity	305
A Chandnu, A Ward	
The Results Of Surgical Treatment In Duane’s Retraction Syndrome	306
SB Ozkan, D Can, AK Arsan, S Demirei, R Kasim, S Duman	
Surgical Results In Highly Asymmetric Dissociated Vertical Deviations	312
D Can, SB Ozkan, R Kasim, S Duman	
Differential Diagnosis And Indications Of Surgical Treatment Of Congenital	317
Or Acquired paresis Of The Trochlear Nerve	
KM Krystkown, A Kubatko Zielinska, E Wojcik	
Post-Decompressive Orbitotomy Changes In Ocular Motility Graves-Basedows	323
Ophthalmology	
A Lepri, U Benelli, A Parmini, F Fornaro, S Sellari-Franceschetti, A Pinchera, M Nardi	
Patient V Practitioner Perception Of Outcome In Intermittent Esotropia	329
Of Distance Type	
JES White, P Fells, JP Lee	
Use Of Tropicamide For Fine Adjustment After Exotropia Surgery	334
A Furukawa, S Sugimoto, Y Hatsukawa, P Fells	
Treatment For Convergence Insufficiency By Slanting Angle Medial	340
Rectus Muscle Resection	
B Bierner	
Saccade Characteristics In Acute Sixth Nerve Palsy	344
CR Bently, JA Shallo-Hoffman, MC Faldon, JE Acheson, MA Chesty	
Photographic Method Of Measurement Of Ocular Deviation By Analysis Of The	350
Corneal Reflex. Results In 15 Normal Subjects	
F Lignereux, M Weber, A Pechereau	
Study Of Optokinetic And Caloric Nystagmus In Patients With Congenital	355
Nystagmus	
M Jarzebinska-Vecerova, L Pospiech	
Does Random-Dot Contrast Influence Stereoacuity?	361
A Fea, P Mazzetti, M Musso, P Angelillo, M Vitale Brovarone	
Investigating Diplopia And Suppression With The Post-Operative Diplopia Test,	362
The Results With Prisms Compared With Botulinum Toxin	
AL Spencer, CM Gray, AM Ansons	
The Study Of Ocular Dynamics Through The Grid Method	368
GOP Gracis, G Cattini	
Screening For Suppression With The Polaroid Suppression Test	374
J Pott, JTHN De Faber, C Wemes, MA Lageslag	
The Crowding Phenomenon An Additional Approach To An Old Phenomenon	375
B Stankovic, GH Kolling, B Stankov, V Djokie	
Are ACP Useful In The assessment Of Strabismic And Anisometropic Amblyopi?	380
A Fea, C Corgiat-Mecio, N Fidanza, M Musso, F Brovarone-Vitale	
Saccade Amplitudes In Strabismus	381
AF Vcan Leenwen, LTHN De Faber, J Van Der Steen, H Collewyn	
The Evaluation Of Congenital Double Elavator Palsy With Magnetic	387
Resonance Imaging	

SB Ozkan, M Aribal, D Can, AK Arsan, S Duman Strabismus In Williams-Bueren Syndrome Report Of The 3 Operated Cases E D E Ancos, G Klainguti	392
Ocular Motor Apraxia Of Downgaze AY Firth, JP Burke	397
Loss Of Binocularity Following Eximer Laser Correction Of Myopia MP Clarke, S Webber, J Garston	403

Transactions 23rd European Strabismological Association
June 1996, Nancy, France

Amblyopia In Infantile Esotropia	13
Y H Jin, S C Park, M S Kook, A A Zubcov	
Anisometopia And Amblyopia In Non-Strabismic Children	15
M Spiritus, D Yuksel, S Vandellannoitte, D Hoffmann	
Use of Pattern Visual Evoked Potentials To Diagnose And Treat Strabismic	21
Amblyopia In Very Young Children	
Amblyopia In Sweden. Effects Of Screening At Health Care Centres And In School	25
P Jakobsson, G Kvarnstrom, G Lennerstrand	
Foveation In Latent Nystagmus Observed With A Scanning Laser Ophthalmoscope	33
V Herzau, N Hockele, H Hettesheimer, R P Tornow	
Objective And Subjective Torsional Measurement In The IV Nerve Palsy With The	39
Scanning Laser Ophthalmoscope	
Motion Detection Deficits In Infantile Residual Esotropia Without Nystagmus	45
J Shallo-Hoffman, M Faldon, S Hague, P Riordan-Eva, P Fells, M Gresty	
Recognition Time After Four Muscle Recession For Nystagmus	49
D T Sprunger, B Fahad, E M Helveston	
Saccade Characteristics In Strabismus Before And After Eye Muscle Surgery	53
A F Van Leeuwen, JTHN De Faber, J Van Der Steen, H Collewyn	
Rationalising Saccadic Eye Movement Assessment	59
S Mars, A Ansons, A Spencer, M Hill, D Alexopolos	
Does Random Dot Contrast Influence Stereoacuity?	65
A Fea, G Soardo, P Mazetti, G Valli, P Angelillo, M Musso, M Vitale-Brovarone	
Can Spontaneous Consecutive Exotropia Be Explained By Vergence Anomalies?	71
M Van Lammeren, L De Clippeleir, L Van Eckhoutte, H Janssens, L Baekeland	
Phantome Aniseikonia	77
W De Decker, E Danheim-De Decker	
Symptomatic Accommodative Defects In Children And Young Adults	85
C Calcutt, P Kinneer	
Jaw Winking Syndrome And Peripheral Mirror Movements	91
M Barca, M Ribiero, C Pereira	
Unilateral Limitation Of Elevation Associated With Springing Pupil	96
G Lasorella	
Relatively Late Onset Strabismus In Early Childhood	97
E Schulz	
Surgical Results In Duane Syndrome	101
C Stolovitch, A Michaeli-Cohen	
Characteristics Of Nystagmus In Children With Down's Syndrome	109
J Lawson, F Shawket, C Timms, D Thompson, A Kriss, I Russell-Eggitt,	
D Taylor, C Harris	
Disappearing Diplopia: Ocular Neuromyotonia In Association With A	115
4th Ventricle Ependynoma	
C R Bently, M A Burdon, E Tomlin, T D Matthews	
Strabismus In Children With Craniopharyngioma	120
C Timms, T Lavy, C De Vile	
Ocular Motility Disorders In Trigenocephaly	124
A Dickmann, S Santamaria, F Velardi, G Savino, D Di Nicola, L Scullica	
Ocular Findings In Trigenocephaly	129
D Denis, L Genitori, J Conrath	
ASF : Report On The Last Meeting Round Table. Strabismus And Botulinum Toxin	137
F Pincin	
Botulinum Toxin In Chronic Superior Oblique Palsy	139
L Graham, J Lawson, D O'Neill, J P Lee	
Botulinum Toxin In Chronic Superior Oblique Palsy	145

M De Lourdes Vieira, J A Dias, C Cavaco	
Diplopia Following Botulinum Toxin Injection	149
L Kowal, S Wutthiphan, S Gonex, O'Day, J Price	
Sixty Strabismus Cases Operated With The Computerized strabismus Model: When Does It Benefit, When Not?	153
H J Simonsz, H M Van Minderhout, H Spekrijse	
Validations Of Donders Law With Computerized Ocular Motor Analysis System	159
R S Jampel, D X Shi	
Results Of Joint Refractive And Oculomotor Treatment In High Unilateral Myopia In Adults	161
D Thouvenin	
Oculomotor Disturbance Induced By Wrong Proprioception	167
O Alves Da Silva	
Diagnosis Of A Masked Bilateral Congenital Superior Oblique Palsy	173
P A Evens, D Godts, M J Tassingnon	
The Effects Of The Prism Adaption Test (PAT) On The Measurements Of A And V Patterns	179
S Veronneau-Troutman, E Schuler-Traykovski, S Shippman	
Can the Benefit Of Prism Adaption Be Achieved In A Shorter Time Span?	185
J D Baker, M R Altman, M Schweers, J Petruank	
A Decision Making Approach In Diagnosis And Treatment Of Accommodative Squint	191
C Kingma-Wilschut, JTHN De Faber, M Wildervanck De Blecourt	
Evaluation of The Minimum Angle In Posterior Fixation	199
B Tapiero, A Pechereau, I Riss	
Congenital Superior Oblique Palsy. Morphological Study By High Resolution Magnetic Resonance Imaging	204
F Lignereux, M Duffas, M Gayet, A Pechereau	
MRI Findings In Congenital And Acquired Superior Oblique Palsy	209
M Sato, Y Ota, S Awaya	
Angular Variations Under Different Conditions Of Stimulation In Divergent Squints	210
A Pechereau, H Tessier, L Champion, F Lavenant, M A Quere	
New Surgical Approach For The Congenital Absence Of Inferior Rectus Muscle	217
A Yoonae, Cho	
Late Overcorrections In Inferior Muscle Surgery For Vertical Squint Correction	218
D Lioumi, R Gregson	
Long Term Results Of Strabismus Surgery	223
N Jeanrot, F Jeanrot, L Bezait	
Surgical Measurement Of Anomalous Head Posture Due To Supranuclear Gaze Palsies And Acquired Nystagmus	229
C Schiavi, L Scorolli, E C Campos	
Bilateral Lateral Rectus Muscle Recession In Primary Exotropia With Convergence Excess And Consecutive Exotropia Due To Medial Rectus Faden Operation	235
M Graf, T Krzizok, H Haufmann	
Tricks And Tips In Adjustable Surgery	241
A Spielmann, A C Spielmann	
Combined Strabismus Surgery (Adjustable Technique) With Cataract Extraction	247
M El Cherbini, F El Sayyad	
Medial Rectus Insertion On Tenon's Capsule	248
L Sekkat, P De Gottrau, A Roth	
A-/V- Patterns Combined With Stilling Turk Duane's Sretraction Syndrome	252
K Hartmann, H Muuhlendyck	
The Effect Of The Orbital Floor Fracture Operations On The Ocular Motility Restoration In Children	257
A Gerinec, J Mracna	
Rotary Kestenbaum – Torsional Shift Operation For Congenital Nystagmus With	263

Anomalous Head Posture And Marked Head Tilt	
K M Krzystkova, C Bilaska, A Kubatko-Zielinska	
Superior Olique Tendon Advancement For Primary Or Residual Superior Oblique Underaction	271
V M G Ferguson, J P Lee	
A Retrospective Review Of Superior Oblique Tucks In The Management Of Superior Oblique Under-Action	277
A S Narita, J Patterson, L Garnham, J P Lee	
Traumatic Superior Oblique Deficiencies: Is Resection Of The SO Tendon Convenient For All Clinical Pattern?	283
J L George, T Malet, K Angioi-Duprex, T Maalouf, M O Cordonnier	
Results Of Different Surgical Procedures In Trochlear Palsy	289
K P Boergen, M Arzt, H D Schworm	
Visual Illusion Perception In Amblyopia Patients	295
R Bolzani, C Cipolli, A Gioia, E C Campos	
Pattern Visual Evoked Potentials (PVEP) And Pattern Electroretinogram (PERG) In Anisometropic Amblyopia	301
M Di Pietro, F Cavallaro, V Marion, E Canino, J P Ott, V Russo	
Comparative Study With MRI Of Corpus Callosum In The Amblyopic Strabismus And Non Strabismic Subject. Attempt Of Correlation With Animal Physiology	307
Y Dordain, B Roussat, M T Iba-Zizen, C Milleret, Cabanise, H Hamard	
VEP Mapping In Diagnosis Of Amblyopia	308
I Loskoutov, A Shamshinova, R Ibatulin	
The Development Of The Visual Acuity And The Oculomotricity After Strabismus Surgery In Infantile Encephalopathy: Our Experience In 9 Cases	309
G Porro, M Delpiano, R Tochio, C Bredariol, M Musso	
Vernier Acuity Cards In Microtropic, Anisometropic And Strabismic Amblyopia	315
A Fea, R Anfossi, M Musso, P Perino, G Soardo, F Vitale-Brovarone	
Experience With Occlusive Contact Lenses In The Treatment Of Strabismic And Anisometropic Amblyopia	320
E De Giogia, M Musso, P Perino, B Paulon, F M Grignolo	
Telescopic Systems As A Help In Treatment Of Deeply Amblyopic Eyes In Grown-Up Children	325
L J Mawas, S Fateh	
Nuclear MRI In A Rare Case Of Bilateral Moebius Syndrome	329
C Rechichi, T A Huisman, G Tripodi, B Ricci, G Ferreri	
Magnetic Resonance Imaging (MRI). Study Of The Superior Oblique. Results In 10 Normal Subjects	335
F Ligneruex, M Duffas, M Gayet, A Perchereau	
A New Method To Study The Functionality Of Extraocular Muscles: Dynamic Echography	339
V Russo, M Di Pietro, E G Canino, J Nicieza	
Force Development And Saccadic Velocity In Dysthyroid Ophthalmopathy	345
S Tian, G Lennerstrand, Y Nishida	
Myopathic Extraocular Muscles In Thyroid Eye Disease. A Report On 3 Cases	350
A Spencer, A Ansons, S Mars, C Gray	
Estimation Of Duction Ranges Using Visual Acuity	355
B Arens, C R Bently, J F Acheson, M A Gresty	
The Field Of BSVB Using The Transparent Grid Method In Diplopia	361
G P Gracis, G Cattini	
Psychologicval Aspects Caused By Strabismus In Children And Adolescents	369
S Boshakovska, N Pop-Jordanova	
Ophthalmological Check-Up Aiming The Early Detection Of Strabismus Of Kindergarten Children	374
M Nagy, G Szerbak, L Papp	
Incomitant Skew Deviation In Association With Arnold-Chiari Malformation	375

L Baker, A M Ansons	
Medial Rectus Paresis, A Rare Complication Of Spinal Analgesia (Case Report)	381
M G Bucci, F Pinto, C Anzidei, R Giannini	
Diplopia As A Neuro-Ophthalmic Manifestation Caused By The Exposure To Gluaraldeide-Phenato Solution	382
L Mazzantini, A Tribios, G Melino, E Bordi, R Giannini, R Appolloni	
Consecutive Inferior Oblique Underaction In Resolving Superior Oblique Palsy	383
A S Narita, J P Lee	
Spinal Misalignment And Tensional Headache Before And After Surgery In Unilateral Superior Oblique Palsy	389
A Piantanida, A Criscuoli, L Vacchini, M Stoppani, P Nucci	
Worldwide Study Of Surgical Management Of Strabismus	395
M Bourron-Madignier, C Bourron	
Conservative Management Of Diplopia After Orbital Blow Out Fracture	401
M Neufeld, V Maurino, J P Lee	
Medical Treatment Of Intermitent Exotropia : Anew Prismatic Approach	403
V Paris	
Inflammation Study After Strabismus Surgery With Laser Flare-Cell Meter	409
J L Llamas, M Taglioni	
Local Anesthesia From Strabismus Surgery	414
D R Manley, L Nelson	
Antiemetic Prophylaxis With Metoclopramide Or Ondansetron In Strabismus Surgery	415
O Elibol, S Serin, N Yuksel, Y Caglar, M Gonulu	
Nasal Transportation Of The Superior Oblique Tendon For Treatment Of Browns Syndrome	423
B Bierdner	
The Ocular Fibrosis Syndrome: The Role Of Vertical Transposition Of The Horizontal Rectus Muscles In These Patients	429
M Hill, A Ansons, C Gray, A Spencer	
Kestenbaum Principle Versus Surgical Rotation Of The Involved Eye Alone For Correction Of Paretic Strabismus	435
G Kommerell	
Acquired Paralysis Of Cranial Nerve 6, 4 And 3 : Method Of Treatment And Results	439
A Kubatko-Zielinska, K M Krzystkova, E Wojcik	
Amount Of Kestenbaum Surgery For Correction Of Abnormal Head Posture In Infantile Nystagmus	445
Jb Lee, S H Han	
The Use Of 5 Fluorouracil, Botulinum Toxin And Traction Sutures In The Management Of The Adhesive Syndrome	451
A Mcelvanney, A Ansons, A Spencer	
Adjustable Recession Of Medial Recti And Without Viscoelastic Substances	457
V Russo, M Di Pietro, S Giuffrida, M Taffara, E Canino	
An Expert System For Directions About Surgery Of Convergent Strabismus. Validation Of Results	465
R Frosini, S Frosini, R Caputo, L Campa, C De Libero	
Graphics And Statistics With A New Data Base For Strabismus	471
A A Zubcov, P Atark	
Evaluation Of Interactive Computer Technology For Patient Education And Information	476
J T H N De Faber, U F Hiddema, K R Pameijer	
The E S A Homepage	477
T D Matthews, E A Tomlin	
Validation Of Strabismus Angle And Refractive Measurement By Computerized Photo Screening	478

R Laroche, R C Scot, P Gregson, P Kozousck, L Dhurjon

**Transactions 24th European Strabismological Association
September 1997, Vilamoura, Portugal**

The Problem To Compare Early And Late Surgery For Treatment Of Infantile Esotropia W Happe, W De Decker	21
State Of The Early Vs Late Infantile Strabismus Surgery Study K Meyer, H Simonsz, Kolling G, U Hag, H Dinkel	27
Long-Term Motor Results And Frequency Of Reoperations In Congenital Esotropia T Rzizok, A Teller, H Kaufmann	33
Long Term Results Of Surgical Treatment For Convergence Excess Esotropia M Neufeld, L Garnham, J Lee	34
Surgical Correction Of Convergence Excesses S Frosini, L Campa, R Caputo, R Frosini	39
The Gradient Of Passive Muscle Forces Measured During Eye-Muscle Surgery For Concomitant Esotropia A Roth, A Sansonetti-Ferrario, S Drame	45
Esotropia In Young Adults M L Viera	51
Binocularity In Accommodative Esotropia B Gokyigit, B Kose, E Kadioglu, U Manzakoglu	57
The Effect Of Asymmetrical Recessions Of The Four Horizontal Recti In Refractive Accommodative Esodeviations L De Clippeleir, L Van Eeckhoutte, M Van Lammeren, L Baekeland, H Janssens	63
The Post Operative Diplopia Test And Botulinum Toxin As Predictors Of Post-Operative Sensory Outcome A Spencer, A Andsons, A Denning, A Kranemann	69
Botulinum Toxin In Congenital Esotropia. A 28 Month Follow-Up M Ribeiro, M Oliviera, J Viera, M Barca, C Pereira	75
Treatment Of Convergence Problems With Botulinum Neurotoxin A T Matthews, E Tomlin,	78
Eye Position Under General Anaesthetic, Variation With Time And Light A Pechereau, J Hlbardier, C Raynal, F Oger-Lavenant	85
Ocular Motility Disturbances following Surgery For Retinal Detachment V Maurino, A Kwan, B Khoo, E Gair, J Lee	91
Does The Degree Of Inferior Rectus Palsy Influence The Effectiveness Of The Inverse Knapp Procedure Subjective And Objective Cyclorotatory Changes Following The Modified Harada-Ito Procedure For Acquired Uni- And Bilateral Trochlear Palsy	97
H Schworm, S Horstmann, T Ring, K P Boergen	103
A Modified Prognosis Of Anterior Segment Ischaemia Following Strabismus Surgery K P Boergen, M Arzt, H Schworm	109
Pre-Operative Simulation Of Detached Extraocular Muscles During Strabismus Surgery Under Topical Anaesthesia A Ansons, A Denning, A Spencer, C Kranemann	114
Long-Term Prognosis Of Anterior Segment Ischaemia Following Strabismus Surgery M Burdon, J Lee	119
Subconjunctival Abscess As A Complication Of Strabismus Surgery J T De Faber, R Grootendorst, D Paridaens	120
Results Of Superior Oblique Posterior Tentomy V Vempali, J Lee	129
Persistent Superior Oblique Overaction After Surgical Treatment Of A-Pattern Anisotropia A Castanera De Molina, M Giner-Munoz	135
Superior Rectus Recession With Temporal Transposition Of The Tendon In	141

Dissociated Vertical Deviations With Excyclodeviation A Spielmann, A C Spielmann	
The Head Tilt In Dissociated Vertical Deviation (Dvd) : Is There A Relationship To Torsion? A Firth, J Burke	147
Reduced Stereoacuity And Binocular Beat Visual Evoked Potential In Patients With Duane's Syndrome J Sloper, C Garnham, D Plunkett, R Dyason, P Gous	153
Ocular Movements Recording In Type I Duane's Syndrome A Dickmann, G Savino, D Di Nicola	159
Objective Criteria Of Control In Intermittent Exotropia C Yildirim, H Altinsoy, E Yakut	167
The Role Of Distance Stereopsis And Foveal Fusion In The Surgical Treatment Of Intermittent Exotropia H Altinsoy, C Yildirim, M Mutlu	173
Eye Position Changes By Activation Of Eye And Neck Muscle Proprioceptors In Normal And Exotropic Subjects G Lennerstrand, Y Han	179
Symmetrical Vs Asymmetrical Surgery In Intermittent Basic Exotropia M Sirtus, S Vandellannoite, D Yuksel	185
Stretching Of Horizontal Recti In Consecutive Exotropias F Oger-Lavanant, A Perchereau	191
The Management Of Intractable Diplopia With Occlusive Contact Lenses L Garnham, C Astin, J Lee	197
Evaluation Of Methods For Assessing Visual Function In Children 0-1 ½ Years Of Age With Normal Vision, Strabismic Amblyopia And Low Vision A Rydberg, G Lennerstrand	203
A Valid Treatment And Criterion For Cure Of Strabismic Amblyopia J Lang	204
Amblyopia: A Review Of Treatment In Apparently Irreversible Cases F Reich D'almeida, I Reich D'almeida	208
The Features Of A-Pattern Esotropia In Thyroid Eye Disease C Kranemann, A Ansons, A Denning, A Spencer	214
High Levels Of Concomitant Cyclotorsion In Thyroid Eye Disease H Davis, A Ansons, A Denning, A Kranemann, A Spencer	220
Eye Muscles Study In Young Patients With Grave's Disease A Piantanida, L Pierro, M Stoppani, P Nucci	225
The Effect Of Asymmetrical Congenital Idiopathic Nystagmus On The Long-Term Development Of Visual Acuity A Ansons, A McElvanney, A Spencer	230
The Importance Of Acuity Testing And Visual Evoked Potential (VEP) Assessment In Craniofacial Dysostosis J Walker, A Kriss, I Russell-Eggitt, R Hayward, B Jones	237
The Existence Of Dissociated Vertical Deviation In Subjects Without Ocular Abnormalities L Van Rijn, M Ten Tusscher, I De Jong, F Hendrikse	241
Motility Disorders In Hemifacial Atrophy (Parry-Romberg Syndrome) C Kingma-Wiltschut, W Van Den Bosch, J T De Faber	246
Excimer Laser Photorefractive Keratectomy: The Effect Of Binocular Function J White	252
Bilateral Monocular Diplopia – A Cause For Concern Or Not? W Marshman, G Adams, P Riordan-Eva	257
Strabismus As First Symptom Of The Severe Intraocular Disease In Children A Gerinec	261
Ophthalmic Presentation And Sequelae Of Childhood Medulloblastoma L Cassidy, R Stirling, R Hole, K May, R Doran	267

Infranuclear Ophthalmoplegia: Investigation And Management	277
J Elston	
Oculo-Vestibular System Control	283
A Safran	
Cyclotropia	287
C Schiavi	
“Intractable” Diplopia In A Young Man. A Sad Story	288
J Lee	
Surgery In Duane’s Retraction Syndrome	291
G Lennerstrand	
Case Report: Esotropia And Abnormal Head Posture With Nystagmus Blockage In Adduction. Evolution Apparently As A Lat Monophthalmic Syndrome With Contralateral Amblyopia	294
F Reich D’almeida	
Cupers Faden Operation – Posterior Fixation Suture – Illustrated By A Case Report	297
A Roth	
Oscillopsia And Nystagmus Surgery	300
A Spielmann	
Visual Acuity Screening In Children Using Television Screen	305
A Assaf, M Dowaidi	
Distribution And Ranges Of Refractive Errors In Infancy. A Data Base For Future Programmes Of Amblyopia Prevention	311
M Giner-Munoz, A Castanera De Molina	
Amblyopia As A Cause Of Visual Handicap	317
P Jakobsson, G Kvarnstrom, M Abrahamsson, E Bjernbrink-Hornblad, B Sunnqvist	
Strabismus In A Familial Basis	325
M Barca, M Ribeiro, C Pereira	
A Protocol For The Orthoptic Management Of Children Treated For Stage III Retinopathy Of Prematurity	330
C Bently, B Mccarry, B Schulenberg,	
Adjustable Light Flash Friby © For Measuring Stereoacuities Of Children Aged 10-50 Months	331
J Frisby, H Davis, L Hanson	
Assessment Of A New Method Of Examination Of Eye Position Under General Anaesthetic	337
The Refractive Components In Binocularity Disturbances	342
L Lindberg, H Erkkila	
A Prospective Evaluation Of Strabismus Comparing Results Of Distance Fixation Orthoptic Tests At 3m And 6m	347
A Mcintyre, C Lewis	
Influence Of Target Type On Level Of Accommodation	348
D Nicholas, A Firth, J Whittle	
Prism Glasses Prescribed With Pola-Test Or With Conventional Orthoptic Exam	354
H Simonsz	
The Use Of Binocular Acuity In The Assessment Of Intermittent Exotropia	356
G Laroche	
Surgery For Small-Angle Esotropia – One Vs Two Medial Rectus Muscles Recession	359
B Biedner	
Residual Medial Rectus Muscles Overaction In Undercorrected Comitant Esotropia	368
D Sprunger, B Wasserman	
Repetitive Stress Injury (RSI) And Thyroid Myopathy	375
A Assaf, A Heywood, J Eyre, D Jones	
Medial Rectus Re-Recession For Unacceptable Face Turn And Esotropia In Duane’s Retraction Syndrome	381
A Case Report Of Synergistic Divergence And Duane’s Type II Occurring Together In The Same Patient	385

A Denning, A Ansons, A Spencer, C Kranemann	
Four Years Experience Of A Speciality Duane's Retraction Syndrome Clinic	390
W Marshman, G Shalit, R Jones, J Lee, T Matthews, S McCabe	
Loss Of Vision In Duane's Syndrome – A Time To Consider Alternate Pathology	395
W Marshman, J Lee, B Jones, G Schalit, G Holder	
Vertical Fusional Amplitude In Thyroid Associated Eye Disease	399
S Ozkan, D Can, M Soylev, Z Can Karaman, E Kir, A Arsan, S Duman	
Botulinum Toxin In Traumatic Sixth Nerve Palsy: Toward An International Randomized Trial	407
J Holmes	
Moebius Syndrome: MRI Findings In 3 Cases	408
D Lengyel, W Zaunbauer, E Keller, I Gottlob	
Is There A Cosmetic Penalty In Leaving The Conjunctiva Recessed Following Adjustable Squint Surgery	411
I Simmons, A Ansons, A Spencer	
The Use Of Tramadol Associated With Sub-Tenon's Anesthesia In Strabismus Surgery	415
A Vinciguerra, S Pensiero, G Runti, L Borzaghini, P Perissutti	
Multidisciplinary Approach In Plagiocephaly	423
A Biscuoli, L Vacchini, Apiantanida, P Nucci	
Strabismus As A Complication Of Cuba Therapy For Retinitis Pimentosa	426
J T De Faber, K Verhoeff, M Langeslag	
Congenital Absence Of The Superior Rectus/Levator Complex - Case Report	431
C Kranemann, A Anson, A Denning, A Spencer	
The Effect Of Doxorubicin On Extraocular Muscle – An Experimental Study	434
S Ozkan, D Can, H Bilgili, M Soylev, A Arsan, H Ustun	

**Transactions 25th European Strabismological Association
September 1999, Jerusalem, Israel**

Introduction Of The Fourth ESA Lecturer A Spielmann	1
Essential Infantile Esotropia: A Controversial Subject E C Campos	4
Eye Interactions In Strabismic And Nonstrabismic Amblyopia I Boycuk, O Kovaliova, V Moroz	15
Motion Detection In Anomalous Retinal Correspondence S Piaggi, R Bolsani, V Belli, E C Campos	25
Intensive Occlusion Therapy For Amblyopia S E Dorey, G G W Adams, J P Lee	31
The Breaking Point For Developing Anisometropic Amblyopia In Hypertropic Children M J Moseley, A R Fielder, M Neufeld	34
Detection Of Amblyogenic Risk Factors By Pediatric Residents Using The MTI Photoscreener And The Bruckner's Test E A Paysse, D K Coats, G C Williams, E Williams	35
Successful Occlusion In Complaint Amblyopic Elderly Children A Piantanida, S Vergani	41
Visual Function, Refractive Errors And Strabismus In Patients With Familial Isolated Ocular Coloboma L Gradstein, E Ronen, N Belfair, T Lifshitz, B Biedner	49
Spasm Of The Near Reflex: Analysis Of The Clinical Characteristics A McIntyre, J Sloper	55
Why should Bielschowski Head Tilt Be Negative In Patients With Skew Deviation? A B Safran, B Rossillion	61
Acquired Moebius Like Syndrome: Case Report C Schiavi, C Bellusci, E C Campos	62
Vertical Diplopia Following Local Anaesthetic Cataract Surgery – Predominantly A Left Eye Problem? I A Pearce, P M McCreedy, M P Watson, R H Taylor	66
Surgery And Botulinum Toxin Treatment In Ocular Myasthenia C Bentley, E Dawson, S Bhermi, J Lee	69
Toxin And Transportation Revisited E Dawson, C Bentley, J Lee	74
Botulinum Toxin A: Its Use In The Management Of Patients With Binocular Results J White, E Dawson, J Lee	79
The Role Of Botulinum Neurotoxin Type A (BTXA) In Secondary Strabismus S Woodruff, E Dawson, J Lee	84
A Case Of Hypotropic Dissociated Vertical Deviation: Surgical Management S P Kraft, E L Irving, M J Steinbach, A V Levin	93
Adjustable Strabismus Surgery – Who Needs Adjusting? M D Mohamed, J A Bradbury	96
Pharmacologic Stabilization Of Hang-Back Recessions P Nemet, Y Morad	97
Intraoperative Adjustment Of Eye Musclesbased On Position Of Eyes During Non-Depolarizing Muscle Relaxant Anesthesia: A Surgical Technique. M I Stavis	100
The Use Of Sub-Tenon's Ropivacaine In Managing Strabismus With Adjustable Sutures	106

G Walters, O G Stewart, J A Bradbury	
Measurements For Horizontal Extraocular Muscle Surgery From The Suture Site: Outcome And Influencing Factors	110
Z I Segal, U Rehany, S Rumelt	
Combined Adjustable Strabismus And Intraocular Lens Surgery	113
H Basmak, N Erol, M Dogramaci, S Topbas, S Yurdakul	
Cross-Suture Resection Technique Effectiveness	114
C Chiesi, D Palmiera	
Simultaneous Six-Muscle Surgery For Essential Infantile Esotropia	119
S Frosini, R Caputo, L Campa, R Frosini	
Delayed Surgery For Long-Standing Strabismus: Subjective And Objective Outcome	125
H Leiba, E Rechtman, B Zwilling, A Pollack	
Evaluation Of An Analgesic Protocol In Strabismus Surgery	129
A Perchereau, V Tascon, P Grivaux, B Sohousa	
Analysis Of Video Pictures Registration Showing Patients With Nystagmus Basing On Own Computer Programme	135
L Puchalska-Niedbal, T Baranoswka-George	
Diagnosis And Management Of Slipped Muscle	140
J Raz, J Bernheim, M Freund, S Aharonowitz, C Saar, E Assia	
Our Experience In The Testing Of Visual Acuity In Preliterate Children	143
P Cohen, S Ronen, Y Rozenman	
Is Ultrasonography Effective At Localising Extra Ocular Muscle Insertions Accurately?	144
S E Dorsey, G Banerjee, M Restore, G G W Adams, J P Lee, J J Sloper	
Binocular Function In Unilateral Traumatic Aphakia	149
L Graham, J Lee	
The Range Of Ocular Movements Decreases With Ageing	152
R A Clark, S J Isenberg	
Binocular Functions In Patients With Keratoconus Managed With Scleral Contact Lenses	158
J E S White, G G W Adams, H Sherfat, K Pullum, J J Sloper	
Fusional Responses In Strabismic Patients	165
A Dickmann, G Savino, A Salerni, D Di Nichola	
The Clinical Features Of Albinism And Their Correlation With Visual Evoked Potentials	171
S E Dorsey, M M Neveu, L C Burton, J J Sloper, G E Holder	
Binocular Measurement Of Fundus Correlated Objective Cycloposition In Physiological Viewing	176
O Ehrt, H Schworm, K Boergen	
The Stability Of The Controlateral Eye In Strabismus Surgery Under General Anaesthesia	181
A Perchereau, J M Halberdier, C Lucas	
Oculomotor Surgery In Adult Patients. Why Is It So Frequently Rejected?	186
A C Spielmann, A Spielmann	
3 Dimensions Of Squint: New Ways To Measure	192
H Wassill, H Kaufmann	
Changes In Ocular Motility And Eye Position After Three-Wall Orbital Decompression By Anterior Or Bicorneal Approach	199
D Godts, F De Wilde, M J Tassignon	
Strabismus Fixus: Biopsy Of All Extraocular Muscles And New Histological Findings	205
D C Mather, B J Clarke, G G W Adams	
Double Depressor Palsy With Results Of Surgery And MRI Examination	208
S B Ozkan, V Dayanir, Z C Karaman, M F Soylev	
Abnormal Extraocular Muscle Insertions And Muscle Fibrosis: A Family Report	214

A Roth, G Klainguti	
Thyrotropin Receptor Immunoreactivity Inextraocular Muscles Of Patients With Thyroid Associated Ophthalmopathy Compared To No Thyroid Inflammatory Orbital Disease And “Normals”	220
M Spiritus, A Boschi, C Daumerie, M C Many, M Ludgate	
Results Of Long Term Follow Up In Accommodative Esotropia	229
C Stolovitch, M Kisilevsky	
Visual Impairment In Exophoria Compensated By Accommodative Convergence	232
S Motsch, H Muhlendyck	
Ophthalmologic And Facial Features In Spina Bifida	236
E A Paysse, D K Coates, A Khokhar	
The Early Vs Late Infantile Strabismus Surgery Study: Quality Management For The Final Examination Procedure	242
K Unnebrink, H Breitschwerdt, G Kolling	
Saccadic Binocular Coordination In Alternating Exotropia	248
A F Van Leewen, J T De Faber, J Van Der Steen, H Collewyn	
Surgical Management Of Strabismus In Craniofacial Dysostosis	257
D K Coats, E A Paysse, D Stager	
Measurement Of Alphabet Patterns	262
H Davis, L Baker	
Heterotopy Of Extraocular Muscle Pulleys Causing Incomitant Strabismus? A Case Study	268
J T De Faber, K Verhoeff, A F Van Leeuwen	
Oculomotor Balance And Plagiocephaly	274
D Denis, J Conrathe, E Hadjadj	
Long-Term Results Of Surgery For Exodeviation	
H Leiba, O Mahler, B Hadas, B Zwilling, M Mamos, A Pollack	
The Quality Of Potential Binocularity During Prism Adaption For Primary Acquired Constant Esotropia	313
L Baker, H Price	
Modified Anteriorization Of Inferior Oblique For Prevention Of Restriction Of Elevation In Abduction	318
Y A Cho	
Convergence And Accommodative Insufficiency After Minor Head Trauma	319
P Cohen, J Druyanov, S Ronen, Y Rozenman	
Predisposing Factors For Late Postoperative Divergence.	320
Retrospective Data Of 968 Esotropia Cases Operated On By Bilateral Laminotomia	
M Fodor, K Molnar	
Dissociated Horizontal Deviation (DHD): Diagnosis And Surgical Treatment	321
N Garcia-Garcia, F Gomez-Villaescusa, M C Arias-Lopez	
Jensen Procedure For Sixth Nerve Palsy	322
M Levin	
Medial Transposition Of The Lateral Rectus Muscle In Combined Third And Fourth Nerve Palsy	327
Y Morad, P Nemet	
Management Of Large Angle Exotropia	328
J Raz, E Pras, C Saar, Y Stern, E I Assia	
Clinical Patterns Of Skew Deviation	329
B Rosssillion, A B Safran	
Eye Movement Auditory Biofeedback Therapy For Patients With Nystagmus	330
A Rydeberg, Y Han, K Ciuffreda	
Efficacy Of Diclofenac Versus Dexamethasone For Poststrabismus Surgery Treatment	335
M Snir, R Siegel, R Friling, D Weinberger	
Bilateral Type II Duane’s Syndrome Revealed By Electromyographic And Infrared Oculographic Features	336

A Vinciguerra, A Accardo, S Pensiero, M Carrozzi, P Perissutti Medial Rectus Electromyographic Pattern In Long Lasting Paresis After Single Botulinum Toxin Injection	337
A Vinciguerra, A Gemma, S Pensiero, F Parentin, P Perissutti Strabismus Surgery Under Acupuncture Anesthesia	338
H J Wisnicki Screening Tests For Early Detection Of Amblyopia And Strabismus	339
T Karpati, I Kaiserman, J Peler, J H Abramson, H Paly, I Hirsch, Y Neumark, A Mazover, L Yanko	

**Transactions 26th European Strabismological Association
September 2000, Barcelona, Spain**

Prevalence Of Amblyopia In Sweden 1970 And 1992	3
G Lennerstrand, M Hauffman, P Jakobsson, G Kvarnstrom, A Lindeberg	
Amblyopia And Visual Impairment – The Effect On Visual Function	7
A Bruce, J A Bradbury	
Guideline For Comparability Of Occlusion Therapy In Amblyopia	10
D Friedrich	
Relative Amblyopia: Functional Chances Of Early Treatment	14
O Ehrt, K P Boergen	
Refraction Of Amblyopics After Pleoptic Treatment	18
L Lindberg, H Erkkila, A Kankainen	
Computerised Hess V Lee Screen Test In Strabismus Assessment	23
A Assaf, R Gallaher	
Random Dot Stereo Butterfly As Screening Test For Manifest Strabismus	27
J D Baker, W Mcfarlane, J Hymers, M Smith, R C Rao	
Measurement Of Cyclotorsion In Superior Oblique Palsy Surgery	31
A Perchereau, J M Hlabardier, D Lasalle	
Measuring Cycloposition In Natural Viewing Conditions With Scanning Laser	35
Ophthalmoscope Funduscyclometry	
O Ehrt, H D Schworm, K P Boergen	
Strabismologic Advice For The Refractive Surgeon	41
J T H N De Faber, M Tjon Fo Sang	
Oculomotor Status In Treated Monocular Congenital Cataracts	44
D Thouvenin, E Taurines, P Noblet	
Fells-Waddell-Rodrigues Syndrome	51
P Gomez De Liano, J Ortega-Usobiagi, B Moreno Gracia, P Merino Sanz	
The Early Vs Late Infantile Strabismus Surgery Study	57
K Unnebrink, C Bauer, G Kolling, H J Simonsz	
Bilateral Posterior Fixation Suture (Faden Operation) On The Medial Recti In	61
Essential Infantile Esotropia	
R Caputo, S Frosini, L Campa, R Frosini	
Management Of Non Refractive Accommodative Esotropia With Progressive	66
Contact Lenses In Children Who Refuse Bifocals	
C Schiavi, C Bellusci, M Bressan, E C Campos	
Convergence Excess Esotropia – An Exploratory Approach	70
Ch Moen, I Marsh	
Surgery Treatment Of Accommodative Esotropia	74
F Gomez, N Garcia	
Management Of Esotropia With Convergence Excess	77
A Rizk, S Sheriff	
Is Botulinum Toxin Treatment Useful In Decompensated Microtropias?	83
I B Marsh	
Dissociated Horizontal Deviation (DHD): Diagnosis And Surgical Treatment	86
N Garcia Garcia, F Gomez, Villaescusa, M C Arias Lopez	
Emesis In Strabismus Surgery	95
M Anguiano, J C Castiella, M Garcia Del Valle, F Fernandez Cano	
Subtenons Lignocaine For Post Operative Pain Relief After Strabismus	99
Surgery In Children	
R M Sheard, J Mehta, J S Barry, G G W Adams	
Surgical Treatment Of Consecutive Exotropia	103
D T Sprunger, D T Hudak, M E Whitaker	
The Imbalance Between The Horizontal Recti In Consecutive Exotropia	107
A Roth, F Huguenin	
Neuroimaging As A Diagnostic Tool In Early Onset Constant Exotropia	111

A Kipioti, R H Taylor, J Cooper, R A Smith	
Characteristics Of Saccadic Eye Movements In Grave's Ophthalmopathy	117
H D Schworm, R Bolzani, L Tallstedt, J Ygge, S Tian, A Rydberg, G Lennerstrand	
Clinical Course And Prognosis Of Diplopias After Orbital Bony Wall	121
Decompression For Thyroid Related Orbitopathy	
J L Goerge, M E Tercero, M O Cordonnier, K Angioi-Duprez, T Maalouf	
Nonadjustable Strabismus Surgery For Graves Ophthalmopathy	127
D J M Godts, P A Evens, H Smet, F De Wilde	
Recovery In Acute Traumatic Sixth Nerve Palsy	131
J H Holmes, R W Beck, K E Kip, D A Leske, PEDIG	
Inferior Oblique Palsy And Treatment Results	134
H I Altinsoy, F M Mutlu, A Bayer	
Inferior Oblique Adhesive Syndrome	138
J A Garcia De Oteyza	
Superior Oblique Palsy Treated By Quantitated Tendon Tuck	145
K Smyth, A Ansons, A Spencer	
Congenital Superior Oblique Palsy And Dissociated Vertical Deviation	149
M De Lourdes Vieira, M C Ferreira	
Negligible Subjective Extorsion And Positive Bielschowsky	155
Head Tilt Test (BHTT): So What?	
V Paris	
Double Technique Of Botulinum Toxin (BT) Injection For Vertical Deviations	159
S Brogelli, G Alfieri, S Maurri, F Balestrieri, F Pinto, R Frosini	
Bilateral Asymmetric Dvd Masqueurading As Unilateral Double Elevator Palsy	163
M H Younis, E Khawam, A Shoughary, S Bu Orm	
Use Of Augmented Rectus Muscle Transposition Surgery For Complex Strabismus	167
E A Paysse, D K Coats, A Ross, K M McCreery	
Squint Surgery in The Over Sixties	171
C Bently, E Dawson, J Lee	
The Significance Of Cryotherapy In Reducing Bacterial Countduring	177
Experimental Scleral Perforation	
N Wang, D K Coats, E A Paysee, R A Saunders, P Wilson, S Rossman	
Results Of Eye Muscle Surgery For Nystagmus Related Head Turn	181
M Graf, K Droutas, S Stuckenbrok, H Kaufmann	
Pseudo-Latent Nystagmus: The "Beauty" Of Clocking Fusional	185
Convergence At Distance	
A C Spielmann, A Spielmann	
Long Term Results Of Superior Oblique Elongation For Browns Syndrome	191
Ch Stolovitch, I Leibovitch, A Lowenstein, N Gottesman	
Normal Variations Of Intraocular Pressure During Gaze Rotations	195
R Wilson, I Marsh	
Atypical Forms Of Duane's Retraction Syndrome. A Reappraisal Of	199
The Classical Definition	
S B Ozkan, S Dundar, E Kir, V Dayanir	
Comparison Of Objective And Subjective Clinical Outcomes Of Patients With	205
Convergence Insufficiency	
T A Massey	
Third Nerve Palsy And The Antiphospholipid Syndrome	207
D J Nolan, A Ansons, A Spencer	
Horizontal Gaze Palsy And Scoliosis	211
A Tulin Berk, R Haluk Berk, M Bozhurt	
Consecutive Accommodative Esotropia After Bilateral Rectus Recession	216
H Basmak, N Yildirim, S Yurkdakul	
The Mechanism Of Development In Progressive Esotropia With High Myopia	218
T Yokoyama, H Tabuchi, S Ataka, K Shiraki, T Miki, K Mochizuki	
Extraocular Muscle Changes In Grave's Ophthalmopathy-Tension Measurements	222

G Lennerstrand, S Tian, D Schworm, R Bolzani	
Normal Values For The Stimulus Accommodative Convergence To Accommodation (AC/A) Ratio Measured By The Gradient Method On The Synoptophore	226
A Y Firth, H J Griffiths, C M Leach	
When Is Surgery Indicated For Intermittent Distance Exotropia?	230
S R Richardson	
Vertical Vergence Coupled To Convergence	234
M Graf, K Weinand	
Accommodative Esotropia After Bimedial Rectus Recession	237
H Basmak, A Ozer, S Yurdakul	
The Effect Of Contact Lenses And Eye Glasses On The Phoria	241
H Basmak, F Senturk, N Yildirim, S Yurdakul	
Unilateral Anterior Transposition Of The Inferior Oblique Muscle In Asymmetric Dissociated Vertical Deviation	245
A Basar, H Ozdemir	
Asymmetric Inferior Oblique Overaction And Binocular Vision In Esotropia	249
V Oguz, M Yolar, H Tolun, C Dikici, K Devranoglu	
Extraocular Muscle Surgery In Dysthyroid Orbitomyopathy: Influence Of Previous Treatment On Surgical Results	253
V Oguz, M Yolar, H Pazarli	
One Stage Vs Two Stage Adjustable Suture For The Correction Of Esotropia	257
V L Karabas, O Elibol	
Botulinum Toxin A In Treatment Of Adherence Syndrome	262
S B Ozkan, E Kir, V Dayanir, S Dundar	
Measurement Of Torsion. A Comparison Of Different Tests	266
H M Boyce	
Disruption Of Fusion Following The Correction Longstanding Anisometropia	271
A L Spencer, A M Ansons	
Fundus Fluorescein Angiography (FFA) In Amblyopia	275
B Gokyigit, H Gungel, O F Yilmaz	
A Clinical Classification Of Duane's Syndrome	279
A Romero-Apis	

**Transactions 27th European Strabismological Association
June 2001, Florence, Italy**

Learning from nature's wonders and errors: The synergy of the physiology and pathology in the ocular motor system	1
Kommerell G	
Cost Effectiveness Of Screening For Amblyopia In 3 Year Old Kindergarten Children: Non-Cycloplegic Refractive Screening With The Nixon Retinomax Handheld Autofractor Vs Orthoptic Visual Acuity Screening	3
HH Koenig, J C Barry	
Paediatric Screening For Strabismus And Refractive Errors With MTI Photocreener And Tomey VIVA Infrared Photofractor	7
H Basmak, A Ozer, N Erol, S Yurdakul	
Occlusion Versus Atropine: The Amblyopia Treatment Study #1 Design And Methods	9
J M Holmes, M X Repka, R W Beck,	
Amblyopia Treatment Initiated After Age 10 Years : Our Experience	13
L Casino, G Giunchiglia, S Sottosanti, H Slavia, D Morreale, S Damiani	
Contact Lenses In The Management Of High Anisometropic Amblyopia	15
C J Roberts, G G W Adams	
Teen Age Visual Acuity In Treated Amblyopic Elderly Children	19
A Piantanida	
Monocular Clues In Seven Commonly Used Stereoacuity Tests	25
G R Laroche, S Connick, J Maccarron, P Peters, E Hahn	
A Modified Method For The Reliable Assessment Of Uniocular Fields Of Fixation (UFOF)	27
H Haggerty, S Richardson, K Mitchell, A J Dickenson	
How close Do Patients, Orthoptists And Ophthalmologists Need To Be?	29
E Dawson, C Kennedy, C Bently, J Lee, I Murdoch	
Frisby Davis Distance Stereotest (FD2)	33
J P D H Frisby, B C Walters	
Objective Evaluation And Perceptive Effects Of The Cyclotorsional Component In Vertical Non-Comitant Strabismus	37
C Aleci, L Sciandra, L Tonini, R Gallo, M Piccolo, C Bredariol, M Musso	
Standardized Echographic Features In Fadenoperation	41
E Chiosi, G Cennamo, A La Rana, M A Breve, A Chiosi	
Longitudinal Study Of Refraction In A Strabismic Population	47
A Perchereau, F Oger-Lavenant, M A Quere	
The Incidence Of Visual Dysfunction In Children With Reading Problems	51
D Godts, M J Tassingnon	
The Presenting Profile Of Paediatric Idiopathic Intracranial Hypertension	55
F J Rowe, C P Noonan	
Neuro-Ophthalmological Findings CVI	59
P E Bianchi, E Fazzi, C Uggetti, W Misefari, C Bertone, R Guagliano,	
G Ruberto, S Signorini, A Bianchi, F Trimarchi	
Contrast Sensitivity Evaluation Function In Children With Severe Visual Impairment And Its Effects On their Functional Ability	63
A P Siddiqui, A Rydberg	
Static External Ophthalmolopelia	67
M Neufeld, Y Shapira, A Lossos	
A Cascade Of Multiple Aberrant Innervation In One Eye	69
C Pieh, M Luthi, O Job, I Schipper, A B Safran	
Consecutive "A" Alphabetical Patterns After Customary Weakening Surgery Of The Inferior Oblique Muscles To Correct Elevation In Adduction In Essential Infantile Esotropia	73

C Schiavi, C Bellusci, A Duca, E C Campos Clinical Characteristics Of Microtropia	77
S Tomac, E C Sener, A S Sanac Ocular Alignment Results After Multiple Surgery For True Congenital Esotropia	81
M Levin, K Palumaa Combined Resection And Recession Of The Medial Rectus Muscle For The Treatment Of Convergence Excess Esotropia	85
K Armstrong, A Inglis, M Halliwell, I Marsh, M Kronfli, C Noonan Role Of Near Reflex On Masking The Near Angle Of Intermittent Exotropia And Effect Of Bimedial Recti Resection On The Distance/Near/ Differences	89
A Rizk Intermittent Exotropia With Convergence Excess	93
A Roth, B Rossillion, L Delarue, F Huguenin Subjective Correlates Of Dissociated Vertical Divergence	99
M C Brodsky Further Evidence That DVD Serves To Damp Block Latent Nystagmus	101
D L Guyton, D S Zee Dissociated Horizontal Deviations (DHD) : Terminology, Diagnosis And Etiology	105
M Graf Convergence Insufficiency: Base-In Prisms To Improve Asthenopia And Reading Speed, Accuracy And Comprehension	109
M Stavis, M Murray, P Jenkins, R Wood, B Brenham The Role Of Botulinum Toxin In The Management Of Near Reflex Spasm	117
A McIntyre, J Lee Repeated Use Of Botulinum Toxin In The Treatment Of Convergence Spasm	121
C P Noonan, A B Dillon, J Swift, F J Rowe, R Gandhewar, I B Marsh Angle Deviation Changes In Early And Late Postoperative Following Strabismus Surgery	127
L Sabetti, R Fasciani, P Pantaleoni, S Mosca, M Callipo, F Colas Ante The Long Term Results Of Cosmetic Aimed Strabismus Surgery	133
B Gokyigit, A Hamis, Y Kucuksumer, Of Yimaz Topical Anesthesia In Strabismus Surgery	137
A Zanoni, E Racano Effect Of Droperidol Dosage On Postoperative Emetic Symptoms Following Pediatric Strabismus Surgery	141
S J Isenberg, S W Stead, C D Beatie, M A Keyes Treatment Of Progressive Esotropia Caused By High Myopia – A New Surgical Procedure Based On Its Pathogenesis	145
T Yokoyama, S Ataka, H Tabuchi, K Shiraki, T Miki Muscle Path Surgery In The Strabismus Of High Myopia : Report On Four Cases	149
G B Macron A Neurologic Basis For Primary Oblique Muscle Overaction	157
M C Brodsky, Sp Donahue Maximal Recession Of Inferior Oblique Muscle In Strabismus Sursoadductorius	159
O Ehrt, Y Bekl, K P Boergen The Efficacy Of Superior Oblique Split Z Tendon Lengthening For Superior Oblique Overaction	163
J D Baker, C Bardorf Surgical Effect Of Bilateral Harada-Ito Procedure	169
S A Quah, R Haslett, I Marsh Modified Harada-Ito Procedure In Bilateral Superior Oblique Paresis	173
C Roberts, E Dawson, J Lee Long Term Follow Up Of Subjective And Objective Cyclorotatory Changes After Surgery Of The Oblique Eye Muscles	177
H D Schworm, P Sauter, O Erht, G Rudolph, K P Boergen	

Botulinum Toxin Injection Witout Electromiographic Assistance	183
E Chipont, P Garcia-Hemosa, M T Arrazola, J M Ruiz-Moreno, J L Alio	
Lidocaine Gel Using In Toxin Botulinum Toxin Therapy On Anomalies Of Ocular	187
Movements In Subjects Affected By Cervical Dystonia	
M L Le Lez, A Arsene, M Ranguin, M Santallier, C Rossazza	
Effect Of Botulinum Toxin Therapy On Anomalies Of Ocular Movements In Subjects	189
Affected By Cervical Dystonia	
S Brogelli, R Frosini, S Maurri, G Alfieri	
Botulinum Toxin Type-A Injection Associated With Surgical Treatment In	191
Large Angle Strabismus	
L Sabetti, P Pantaleoni, L D'alessandri, C Gallo, K Quattrociochi, E Balestrazzi	
Role Of Botulinum Toxin A In Management Of Acquired Loss Of Fusion	195
S B Ozkan, V Daynir, E Kir, I Akyuz,	
Botulinum Toxin Therapy In Paediatric Esotropia: Risk Factors For Failure	199
V Hauviller, S Gamio, A Tartara	
Pharmacological Denervation In The Treatment Of 6 th Cranial Nerve Palsy	203
P Calace, T De Berardinis, G Cortese, V Garliardi, A Magli	
The Incidence Of Disruption Of Binocular Functions Following Macular	209
Off Retinal Detachment	
J E S White	
Analysis Of Binocular Function Before And After Macular Hole Surgery	211
L Graham, K Mishkandari, E Ezra, J Sloper, Z Gregor	
Recession Of Inferior Rectus Muscle With Adjustable Loop Suture Using	215
Topical Anesthesia In Dysthyroid Ophthalmopathy	
S Kose, S Emre, O Uretmen, K Pamukcu	
Our Experience In The Treatment Of Diplopia After Orbital Decompression For	219
Dysthyroid Ophthalmopathy	
V Russon, A Spagnoli, A Ercole, N Delle Noci	
Early Surgery In Dysthyroid Orbitomyopathy Based On MRI Findings	221
M Yolar, V Oguz, H Pazarli, H Yetik, S Ozkan	
Thyroid Extra-Ocular Muscle Surgery	225
A S Jacks, G G W Adams	
Aberrant Regeneration Following Post-Traumatic Third Nerve Palsy:	231
Clinical Pattern And Critical Approach Of The Pathogenic Hypotheses	
B Rossillion, F Huguenin, K Chaloupka, A B Safran	
Myelomeningocele And Strabismus	233
A Dickman, C Rendeli, A Salerni, M V Stella, S Russon, E Salvaggio	
Oculomotor Disorders In Cerebral Visual Impairment (CVI)	237
R Salati, P Nicolini, R Borgatti, G Giammari, F Polenghi	
Surgical Treatment Of Ptosis In Chronic Progressive External Ophthalmoplegia	241
V Garliardi, P Calace, T De Berardinis, P Vassallo, M Capasso Barbato, A Magli	
Active Management Of Exotropia Due To Brainstem Disease	245
C R E Dawson, J Lee	
Vertical Muscle Surgery For Acquired Nystagmus	251
A Tripathi, I B Marsh	
Artificial Divergence Surgery And Myopic Shift	253
A C Spielmann	
Diplopia As A Complication Of sinus Surgery : A Presentation Of Four Cases	257
C Kingma-Wiltschut, R J Grootendorst, W Visscher, J T H N De Faber	
Strabismus Following Endoscopic Orbital Decompression For Thyroid Eye Disease	261
C J Roberts, G G W Adams, V J Lung	
Late Onset Acquired cyclic Strabismus. Ophthalmological And Saccadic	265
Eye Movements Features	
G Savino, M T Rebecchi, A Dickmann	
Genetic, Clinical And Surgical Data Of Affected Members Of A	269

Classic CFEOM1 Family	
A Magli, T De Berardinis, N McIntosh, E C Engle, G M Greco, V Gagliardi	
Strabismus And Binocular Function In Children With Autism	275
S Arsene, D Damie, M L Le Lez, M Santallier, P Lenoir, D Suavage	
Age Of The Emergence Of Negative Attitudes Towards Strabismus	277
E A Paysse, D K Coats, E A Steele, K M Brady Mccreery, K R Wilhelmus	
Duane Retraction Syndrome And Binocularity	281
B Gokyigit, H I Demirkale, S Bozkurt	
Anterior Plagiocephaly And Strabismus	285
A Dickmann, N Gianfrancesco, A Mancini, G Savino, F Velardi, C Di Rocco	
How Heavy Is The "Heavy Eye"?	289
J T H N De Faber, E Pels, E C Van Noort, M G H Tjon-Fo Sang	
Asthenopia In School Children, Orthoptic And Ophthalmological	295
Evaluation And Effect Of Treatment	
S Abdi, A Rydeberg, S Golchin	
The Effectiveness Of Inferior Rectus Recessions In Graves Ophthalmopathy	299
L Baker, A M Ansons	
Screening For Amblyopia In 427 3 Year Old Kindergarten Children:	303
Non-Cyclopegic Refractive Screening With Nikon Retinomax Handheld	
Autofractor Vs Orthoptic Visual Acuity Screening	
J C Barry, H H Koenig	
Paralytic Strabismus Surgically Corrected With An Orbital Anchoring Suture	305
A Bates, A Ansons, J Noble	
Electronic Baropodometry In The Surgery Of Ocular Torticollis	309
M Bellizi, M Ranieri, G Rizzo, U Procoli, G Megna, N Ciccolella, G Bellizi	
Double Elevator Palsy And Marcus Gunn Jaw Winking Ptosis	311
K G Borboridis, N G Ziakas, J Zaragoulidis, N S Georgiadis, N T Stangos	
Primary Position Evaluation In Three Dimensional Measurements	313
R Bolzani, J Ygge, M Benassi, G Lennerstrand	
The Easiest Way To Turn The World Back To Normal. Unilateral	317
Horizontal Transposition Of The Inferior Rectus Muscle For Excyclotropia	
Under Local Anaesthesia	
M A G Bouten-Wijnhoven	
Results Of Electrostimulation Of Extraocular Muscles In The Treatment Of	319
Children With Strabismic Amblyopia	
I M Boychuck, T M Serebrina	
Case Report: The Heavy Eye Syndrome	321
C Brozou, B Rossillion, L Delarue, A Ben Ayed, A B Safran	
Qualification Of Needle Suture Contamination Following Strabismus Surgery	323
D K Coates, E A Paysse, T S Carothers, K M Brady-Mccreery, S Rossman,	
T Wu, B M Mitchell	
Early Intraocular Inflammation After Strabismus Surgery Measure With	325
The Laser Flare	
E Chipont Benabent, P Garcia-Hermosa, M T Arrazola, J L Alio Y Sanz	
The Management Of Intermittent exotropia	329
M Di Pietro, F Castorina	
Did Bishop Tommaso Inghirami Really Squint?	333
B De Vries	
Assessment Of Ocular Cyclo-Torsion Using Digital Fundus Imaging	335
B Fahad, A Anson	
Conjunctiva Closure In Strabismus Surgery	339
B Gokyigit, S Bozkurt, H I Demikale	
Long Term Results Following Treatment For Threshold Disease In Retinopathy Of	343
Prematurity	
L Gnanaraj, R Brennan, D G Cottrell	
Test-Test Reliability Of The Logmar Crowded Acuity Test	345

J Henderson, S Richardson, M Clarke, A Kostakis	
Sub Tenons Bupivacaine For Post Operative Analgesia	347
A Jacob., A Waite, J Bembridge, J A Bradbury	
Changes In Binocular And Monocular Near Point Of Accommodation In Patients With Convergence Insufficiency	349
T Massey	
Unilateral Recession And Resection In Duane Syndrome	353
Y Morad, S P Kraft, J L Mims	
Airedale Orthoptic Vision Screening. Treatment Outcomes Of Children Referred At 1.5 Years And 3.5 Years Of Age	355
L Mulley, A Bruce, J A Bradbury	
Consecutive Exotropia Following Strabismus Surgery	357
V Oguz, S Arvas, M Yolar, N M Kizilkaya, H Tolun	
Measurement Of The Angle (Conversion From % To Degrees)	361
A Perchereau, B Sohous	
Diplopia Following Orbital Decompression – Predominantly A Transient Problem?	363
H Price, L William, J L Noble	
Multidisciplinary Approach To Orthoptic Vision Screening	367
R Robinson, P Wilkinson	
Sensory Outcome Of Surgically Treated Primary Constant Exotropia	369
A L Spencer, A M Ansons	
Sub-Tenons Bupivacaine for Post-Operative Pain Control In Strabismus Surgery	373
D T Sprunger, D A Plager, D E Neely, N Shondhi	
Re-Evaluation Of The Irvine Prism Test	377
S Tomac	
Occlusion Therapy For The Treatment Of Amblyopia. Letting Parents Decide	381
A Tripathi, N P O'donnell, R Holden, C Noonan, L Johnson, S B Kaye	
Botulinum Toxin Management Of Essential Infantile Esotropia In Children: Long Term Results	383
A Vinciguerra, P Persutti, S Carlentini	
Botulinum Toxin Management Of Esotropia In Children With Cerebral Palsy	387
A Vinciguerra, S Pensiero, C Cordaro, P Perissutti, S Carlentini	
Therapeutic Limits In Exo-Duane Retraction Syndrome	391
C Vladutiu, M Fontul	
A Comparison Of Ocular Motility Disturbance Following 2 And 3 Wall Orbital Decompression	393
L Williams, H Price, J L Noble	
I Type Duane's Retraction Syndrome: Evaluation Of The Adduction Saccades	397
G Savino, D Di Nichola, A Salerni, L Scullica, A Dickmann	
Disparity Vergence Response In Arc Patients: Dominant And Non Dominant Eye	401
A Dickmann, G Savino, N Gianfrancesco, L Scullica, D Di Nichola	

Transactions 28th European Strabismological Association
19-21 June 2003, Bergen, Norway

The implementation Of Primary Orthoptic Vision Screening For 4-5 Year Old Children In Inner City Bradford	3
L Mulley, A Bruce	
Vision Screening In 3 Year Old Children. Comparison Between The Lea Symbol Chart And HVOT (LM) Chart	7
G Kvamstrom, P Jakobsson, G Lennerstrand	
Vision Screening Program For 4 Year Old Children	11
A Yaman, A T Berk, M Erbezci, C Ergor	
With An Eye On Vision Screening In The Netherlands. Rotterdam Amblyopia Screening Effectiveness Study (RAMSES) Up To Date	15
V K Lantau, J H Groenewoud	
New Guidelines For Screening Of Vision In Children In Norway	21
T Christoffersen & J Wirsching	
The Relationship Between Stereopsis And Visual Acuity After Occlusion Therapy For Amblyopia	27
S Y Lee, S J Isenberg	
Citicoline Treatment Of Amblyopia In Elderly Strabismic Children	33
A Piabtanida	
Contrast Masking And Spatial Frequency Properties Of Contour Interaction In Normals And Amblyopes	39
O Ehrt, R F Hess	
Rapid Monocular Adaption Of Saccade Amplitude In Constant Strabismus	45
H J Griffiths, D Buckley, J P Whittle	
Synkinesis Of Vergence And Accommodation In Accommodative Esotropia	51
M Dostalek	
Isometric Force Development Of Single Horizontal Eye Muscle In Esotropia And Exotropia	51
C Schiavi, R Bolzani, G Lennerstrand, S Tian, M G Benassi, N Longo, E C Campos	
Introduction Of The 2003 ESA Lecturer Professor Gunnar Lennerstrand	63
E C Campos	
What Can Eye Muscle Studies Tell Us About Strabismus?	65
G Lennerstrand	
Effect Of Off-Axis Retinoscopy On Objective Refractive Measurement	79
E A Paysse, D W Jackson, K R Wilhelmus, M A W Hussein, G Rosby, D K Coats	
Interrelation Of Optokinetic Nystagmus Response And Recognition Visual Acuity	83
S Oto, A Cetinkaya, A Akman, Y Akova,	
Observational Analysis Of Nystagmic Oscillation By	85
Two-Dimensional Video-Oculography	
R Frosini, L Frosini, P Linari, S Frosini, S Brogelli, G Alfieri	
Stereoacuity Norms For The Frisby Davis Distance Stereotest At Different Distances	87
H Davis, J P Frisby, J Hole, L Baker	
Stereoacuity Is Not Always The Best Measure Of Control	91
J E S White	
Latent Nystagmus: Is The Eye An Accessory Vestibule?	97
M C Brodsky	
Saccadic Eye Movements In Thyroid Associated Ophthalmopathy	99
G Lennerstrand, H D Scworm, J Ygge, R Bolzani, S Tian, L Tallstedt, A Rydeberg	
Classification Of Control In Intermittent Exotropia	103
B G Mohny, J M Holmes	
The Evaluation Of Office Control In X (T): A Systematic Approach	109
J L Petrunak, R J Rao, J D Baker	
Exotropia In Infancy: Management Experience At	113

Manchester Royal Eye Hospital UK	
B Fahad, S Biswas, C Lloyd	
The Accommodative-Convergence Complex – A Review	115
R L Brautaset, J A M Jennings	
Etiology Of Accommodative Esotropia – Current Concepts	121
O H Haugen	
The Role Of Bifocals In The Management Of Accommodative Esotropia	125
G Holmstrom	
Outcome Of Treatment In Accommodative Esotropia –	127
How Often Do We Restore Binocular Vision?	
L Lindberg	
A Study On The Treatment Of Convergence Insufficiency	135
F F Naqui, A Bruce, J A Bradbury	
Binocular Vision Problems After Refractive Surgery	137
D J M Godts, M J Tassingnon, L Gobin	
Refractive Surgery And Binocularity	143
A Dickmann, P Valente, M T Rebecchi, G Savino, A Salerni, L Buzzoneti	
Strabismus After Treatment Of Unilateral Congenital Cataracts.	147
A Clinical Model For Strabismus Physiopathogenesis?	
D Thouvenin, S Nogue, L Fonts, O Norbert	
Strabismus In Pediatric Cataract	153
J T H N De Faber, M J Tjon Fo Sang	
Combined Strabismus And Cataract Surgery In Adults	157
N G Ziakas, K Boboridis, N S Georgiadis	
The Early Vs Late Infantile Strabismus Surgery Tudy: First Results	163
K Unnebrink, C Bauer, G H Kolling, H J Simonsz	
Hardly Any Difference Between Bilateral Recession (BR)	165
And Unilateral Recession Resection (RR) : Results Of A Controlled,	
Prospective, Randomized Multicentre Study	
J R Polling, M J C Eijkemans, J Esser, B Lieb, G H Kolling, E Schulz, B Lorenz,	
P Roggenkamper, V Herzau, A Zubcov, M P M Ten Tusscher, D Wittebol-Post,	
G C Gusek, H J Simonsz	
The Effect Of Seprafilm On Adhesions In Strabismus Surgery-	167
An Experimental Study	
S B Ozkan, E Kir	
Antinomic Deviations: Esodeviation Associated With Exodeviation	173
A C Spielmann, A Spielmann	
Comparison Of Modified Anchored ‘Hang-Back Technique’ (HBT)	177
With Conventional HBT In Bi-Medial Rectus Recession (BMR)	
A K K Chung, S U Rehman, J A Bradbury	
Parameters To Calculate The Amount Of Conventional Eye Muscle Surgery	179
A Roth	
Early Onset Strabismus, DVD And A Pattern : Efficacy Of The Superior	185
Rectus Recession	
V Paris	
Does Botulinum Toxin Have A Role In The Treatment Of Small Angle Esotropia?	191
E L M Dawson, V Geh, J P Lee	
Esotropia In Paediatric Aphakia Patients: The Role Of Botulinum Toxin	193
V Hauviller, S Gamio	
Levator Denervation For Upper Lid Retraction Secondary To 7 th Nerve Palsy	197
K G Boboridis, N G Ziakas, N G Georgiadis	
The Useful Of Botulinum Toxin Type-A In The Treatment Of Chronic	201
Sixth Ocular Nerve Palsy	
L Sabetti, L D’alessandri, K Salvatori, E Balestrazzi	
Quantitative EMG Of EOM In Patients With Congenital Fibrosis Of	205
The Extraocular Muscles (CFEOMI)	

C Schiavi, C Bellusci, E C Campos	
The Surgical Indications And Outcome Of Superior Oblique Tendon Spacers	211
V S Y Geh, E Dawson, J P Lee	
Evaluation Of Binocular Visual Function With Electrophysiologic	215
And Psychophysics Test In Brown Syndrome	
O Uretmen, F Afrashi, S Kose, E Unsal, K Pamukcu	
Results Of Superior Oblique Tenotomy For A Pattern Strabismus	217
Measured With Two Methods	
A Maino, A Ansons	
Inferior Oblique Muscle Function: Correlation Between Scleral	219
Insertions Of Inferior, Lateral Recti And Inferior Oblique Muscle	
And Clinical Function Of Inferior Oblique Muscle	
D Denis, E Hadjadj, J Conrath, C Benso	
Clinical Results Of Inferior Oblique Marginal Or Z-Myotomy	227
S L Robbins, W K Christian, E F Castro, D B Granet	
Management Of Adherence Syndrome Following Inferior Oblique Surgery	231
B J L Burton, E L M Dawson, J P Lee	
Changes In Incomitance In Acquired Unilateral 6 th Nerve Palsy	239
L Garnham, J P Lee	
Limitation Of Opposing Ductions Following Augmented Horizontal	243
Rectus Muscle Transposition	
D K Coats, M A W Hussein	
6 th Nerve Palsies As Isolated Mononeuropathies In Patients With	247
Multiple Sclerosis	
J A Gonzales-Martin, V Trimbel, G Kyle, I B Marsh	
The Natural History Of Brainstem Ocular Motility Disorders Due To	249
Vascular Pathology	
F J Rowe, C P Noonan	
Long-Term Follow Up After Vertical Rectus Muscle Transposition And	255
Botulinum Toxin For 6 th Nerve Palsy	
G M Wirth, K Landau	
New Methods For Quantifying Severity Of Diplopia	257
J M Holmes, M J Kupersmith	
Management Of Large Vertical Deviations In Thyroid Eye Disease	261
C Weir, A Ansons	
Dosage Of Eye Muscle Surgery In Endocrine Orbitopathy	265
K P Boergen, G Rudolph, O Ehrh, P Kalpadakis	
Bilateral Duane's Syndrome Type I In Siblings: Case Report	271
C Schiavi, M Fresina, F Quagliano, E C Campos	
An Unusual Cause Of Diplopia As The Presenting Sign Of Breast Carcinoma	277
M Spiritus, A Boschi, M C Many, A Finck, A Escarmelle, C Lefebvre,	
T Duprez, P Van Den Berg, P Kamgang Semeu, J Klastersky, M Wirix,	
C Daumerie	
Acquired Distance Esotropia Associated With Myopia	283
H A Webb, J P Lee	
The Esotropia Trend Following Heroin Detoxification	289
A Y Firth, S Pulling, M P Carr, A Y Beaini	
Principles In Training For Subspecialty Ophthalmic Care In	291
Developing Countries	
T O Paul, R S Foster, B Black	
Management Of Motility Disorders In Patients With SC Type 3	295
T B Kerkhof, E R P Brunt, J W R Pott	
The Development And Treatment Of V Pattern And Upshot In Adduction In	299
Cyclic Esotropia	
J W R Pott, T B Kerkhof, D Godts, J T H N De Faber	
Thyroid Ophthalmopathy Manifesting As Superior Oblique Paralysis	303

V Oquz, M Yolar, H Pazarli, S Ozkam	
Factors Influencing Success Of Botulinum Toxin Treatment In Exotropia: Preliminary Results	307
A Vindguerra, T Liberali, P Michieletto, C Cordaro, P Perissutti	
Ocular Oscillation And Visually Dependent Postural Control In Congenital Nystagmus	309
G Savino, A Salerni, D Colucci, M Manzulli, F De Rossi, A Dickmann	
Prediction Of Visual Outcome After Treatment In Children With Amblyopia In Dependence Of Initial Monocular And Binocular Function	315
I M Boychuk	
Idiopathic Progressive Strabismus Fixus In The Absence Of Significant Myopia	319
M K Raynor, A Maino, A Ansons	
Long-Term Results Of Augmented Surgery For Partially Accommodative Esotropia	323
S Park, D Jee, M Park	
Clinical Risk Factors And Treatment Of Convergence Insufficiency	325
Pattern Consecutive Exotropia	
H T Lim, H Ahn	
Vertical Retraction Syndrome	329
J P Matthews, A Ansons	
Ocular Motility Disorders As A Complication Of Baevelde Implant	331
F J Noordhuizen, W Triemstra, J T H N De Faber	
About A Case Of Acquired Brown's Syndrome, After Insect Bite	333
F Ribaudeau-Saindelle, A Perchereau	
Binocular Vision After Refractive Surgery I Hyperopic Patients	337
R G De Liano, E Pierdrahita, A Arias-Puente	
The Results Of The Systemic Treatment Of Binocular Vision And Of Amblyopia I Children With Eccentric Fixation	343
T Baranowska-George, L Puchalska-Niedbal	
Refraction Over Cycloplegia: 2 Vs 3 Eyedrops Use Of Cyclopentolate	345
L Sellami, M L Le Lez, A Denoyer, M Santallier, P J Pisella, A Arsene	
Congenital 3 rd Nerve Palsy In Septo-Optic Dysplasia (De Morsier Syndrome)	347
A Langmann, S Linder	
Orbital Fracture Referrals: Outcome Results	351
M L Pedersen	
The Early Natural History Of Acquired Non-Accommodative Esotropia	353
B G Mohny, A S Kitzmann	
Visual Conversie Syndrome Disorder: A Case Report	355
E Lala, M L Le Lez, J Malvy, F Madern, P J Pisella, S Arsene	
E M A N (Eye Movement And Accommodation Analyzer) Device For Vergence	357
Accommodation Synkinesis Recording And Analysis	
Clinical Features Of Isolated Inferior Rectus Paralysis	363
A Yaman, A T Berk	
Infantile Orofacial Hemangioma With Ipsilateral Peripapillary	371
Excavation In Girls – A Variant Of PHACE Syndrome	
C Kniestedt, M C Brodsky, P North, M Warner, K Landau	
The Outcome Of Strabismus Surgery In patients With Grave's Ophthalmopathy Without Prior Orbital Decompression	373
D L T Donker, J T H N De Faber, J A M Van Everdingen	
A Model For The Prediction Of Outcomes Of Recession/Resection	377
Surgery For Primary Constant Esotropia	
A Kailasanathan, S Mirza, R D Brown	
Globe Preserving Treatment Of An Unilateral Retinoblastoma By Brachychemoradiotherapy	381
G Langmann, A Langmann, P Sovinz, C Urban	
The Dragged-Fovea Diplopia Syndrome	385
D L Guyton, M E De Pool, S O Broome	

Binocular Outcome Of EOM-Surgery For Esotropia With Onset Later Than One Year Of Age E Schulz, B Schmal, A Fell, K Rettig	387
Correlation Between Asthenopic Symptoms And Different Measurements Of Convergence And Reading Ability Y Morad, O Segal, R Lederman, D Atzmon, E Azoulay, I Avni	389
Duane's Retraction Syndrome – Case Report S Pelle, A Sallai, K V Kis	391
Acute-Onset Adult Esotropia: Bielschowsky Type I Perez, M Fernandez	

**Transactions 29th European Strabismological Association
1-4th June 2004, Izmir, Turkey**

Effects Of Early And Late Onset Strabismic Amblyopia On Magnocellular And Parvocellular Visual Function	3
J Sloper, A Davis, M Neveu, C Hogg, M Morgan, G Holder	
MRI Measurements Of Horizontal Rectus Muscle In Esotropia: The Role Of Amblyopia	7
F Mehmet Mutlu, G Dincer, H Durukan, T Mumcuoglu, H Ibrahim	
Combined Optical And Atropine Penalization In Treatment Of Amblyopia	11
S Zrylan, O Yabas, D Sein	
Telescopic Spectacle Therapy In Amplyopia And Its Efficacy In Cases Over 9 Years Of Age	15
U Arslan, H Atilla, A Idil, N Erkam	
Treatment Of Anisometropic Amblyopia With No Or Minimal Patching	21
O M Hakim, K W Wright	
Binocular Functions In Pseudophakic Patients In Early Postoperative Period	29
I Akyol-Salmon, M Arslankurt, O Dursun, A Yazici, O Baykal	
The Age-Related Decline In Stereopsis As Measured By Different Stereotests	33
L Garnham , J Sloper	
Botulinum Toxin For Strabismus Treatment In Brain Injury Patients	41
S Moguel	
Botulinum Toxin A Injection In Acute Complete 6 th Nerve Palsy	45
M R Talennejad, A Alavi, A Attarzedeh	
The Role Of Botulinum Toxin A In Augmentation Of The Effect Of Recess Resect Surgery	49
A S Topaloglu, S B Ozkan, S Aydin	
Does Botulinum Toxin Have A Role In The Treatment Of Secondary Strabismus?	53
E Dawson, A Sainari, J P Lee	
Evaluation Of The Effect Of Strabismus Surgery On Retrobulbar Blood Flow With Doppler US	57
A Ipek Akyuz Unsal, A Unsal, S B Ozkan, C Z Karaman	
Computer Assisted Parents Vision Screening In Children	61
M Altieri, S Chatterjee, A Gibson, P Addison, A Assaf	
Acquired Neurological Nystagmus: Clinical And Surgical Approach	65
A C Spielmann	
Strabismus Surgery Under Topical Lidocaine Gel	71
O M Hakim, Y G El-Hag	
When Should The Amount Of Surgery Be Adjusted During Conventional Muscle Surgery?	77
A Roth, C Speeg-Schatz	
Non-Absorbable Sutures Should Be used For Adjustable Inferior Rectus Muscle Recessions	81
C F Parsa, M Sultan-Sanjara, D L Guyton	
Metabolic Changes In Brain Related To Strabismus Registered By Brain SPECT	87
S Moguel, L Orzco	
Histological Analysis Of The Efferent Innervation Of Human Extraocular Muscle Fibres	91
I B Kjellevold Haugen, J R Breuneh	
Effect Of Refractive Surgery On Ocular Alignment And Binocular Vision In Patients With Manifest Or Intermittent Strabismus	95
D J M Godts, J Claeys, P Schraepen, M J Tassignon	
Diplopia And Strabismus After Refractive Surgery	99
R Gomez De Liano, G Franco Iglesias, P Gomez De Liano	
Does The Bilateral Inferior Obliques Anterior Transposition Influence The Amount Of Surgery On The Horizontal Muscles?	105

D Cioplean, L Teodorescu Efficacy Of The Anterior Transposition Of The Inferior Oblique As A Secondary Procedure In Cases Of Recurrent DVD V Paris	109
Mechanical And Histopathological Effects Of ADCON – L Conventional And Polymercoated Liposomes In An Experimental Strabismus Surgery Model	113
B Sonmez, S Gedik, C Karaka, E C Sener, A S Sanac, T Eldem Outcomes Of Surgery For Vertical Strabismus In Thyroid-Associated Ophthalmopathy	117
A C Bates, G G W Adams, J F Acheson, J P Lee Surgical Finding In Brown's Syndrome	121
S Akar, B Gokyigit, K Gok, O F Yilmaz A New Surgery Technique In Brown's Syndrome	125
B Gokyigit, S Akar, O F Yilmaz Long Term Outcome Of Silicone Expander For Browns Syndrome	131
H K Keskinbora, N K Pulur Outcome Of Strabismus Surgery In Congenital Fibrosis Of Extraocular Muscles (CEOEM)	135
E C Sener, B T Ozturk, A S Sanac Surgical Management In A Newly Identified CFEOM/Postaxial Oligo-Syndactyly Syndrome	137
A Gezer, T Tukul Superior Obliquepalsy: A Ten Year Survey	143
M Farvardin, A Alavi Results Of Different Surgical Procedures In Superior Oblique Palsy	147
S Akar, B Gokyigit, P K Hekimhan, O F Yilmaz How Predictable Is Muscle Surgery In Superior Oblique Palsy?	153
L Teodorescu, D Cioplean Anterior Transposition Of The Inferior Oblique Muscle For Treatment Of Unilateral Superior Oblique Palsy With 16to 25 Prism Dioptres Hyperdeviation In Primary Position	155
M Farvardin, A Atarzadeh, A Alavi Familial Congenital Superior Oblique Palsy	159
M Farvardin, A Banihasemi, M Saadat Surgical Results Of Lateral Rectus Muscle Recession In Intermittent Exotropia In Children	165
R Venkateshwar Rao, J Singh, M K Aasuri Outcomes Of Consecutive Exotropia Surgery	169
A C Bates, H Newman, C Hayden, J P Lee Surgical Anchorage Of The Lateral Rectus Muscle To The Periostium Of The Orbit: A New Tool To Tackle Retraction In Duane Syndrome And Exotropia In 3rd Cranial Nerve Palsy	173
C Shiavi, C Bellusci, M Fresina, E C Campos Excessive Recession Of Horizontal Rectus Muscles In Surgical Treatment Of Congenital Nystagmus	177
M Dogan, S Akar, B Gokyigit, O F Yilmaz Impact On Deviation In Primary Position Of Vertical Shift Of Horizontal Recti Muscle Insertion	181
R Dell'omo, A Salerni, S Petroni, L Guccione, G Savino, A Dickmann Use Of Augmented Transposition Surgery For Complex Strabismus	185
H I Altinsoy, F M Mutha, Y Uysal, S Celebi Binocular Functions In Anisometropic And Strabismic Anisometropic Amblyopes	191
I Aykol-Salmon, Y Karabea, O Baykul Thickness Of The Retinal Nerve Fiber Layer And Macular Thickness And	195

Volume In Patients With Strabismic Amblyopia	
Evaluation Of Intranasal Midazolam In Young Strabismic Children Undergoing Refraction And Fundus Examination	199
O Altintas, V L Karabas, G Demirci, I Onur, Y Caglar	
Dissociated Vertical Deviation And Its Relationship With Time And Type Of Surgery In Infantile Esotropia	203
U Arslan, H Atilla, N Erkam	
Ocular Abnormalities Associated With Cerebral Palsy	207
H Atilla, F Batioglu, E Can, N Erkham	
Alexander The Greats Abnormal Head Posture Due To Brown's Syndrome?	211
B De Vries	
Role Of Spectacle Correction And Orthoptic Exercises In Non-Surgical Management Of Exodeviations	213
F Sezen, O Balci, A Gezer	
Moebius syndrome with limb abnormalities	217
E Basar, T Arus	
Long term binocular functional outcome after strabismus surgery in a case of cyclic esotropia	221
B Venkateshwar Rao, P Sahare	
Interrelationship of binocular and monocular functions in anisometropic amblyopia	227
IM Boychuk	
Influence of orbital factor on development and outcome of surgery for intermittent exotropia	231
YA Cho, S Kim, S Yi	
Ocular motility problems following treatment for uveal malignant melanoma	235
E Dawson, JP Lee	
Recurrent strabismus caused by orbital tumour arising from pulley smooth muscle tissue?	237
PPh van den Broek, JTHN de Faber, ADA Paridaens, M Kliffen	
The functional outcome of very late surgery in infantile strabismus	239
ECh Schwarz, KS Kunert, G Wunsch, H Zappe	
A binocular scanning laser ophthalmoscope	243
O Ehrt	
The effect of reducing anticipation anxiety by psychoeducation techniques on vasovagal responses during manipulation of adjustable sutures	247
O Elibol, L Karabas, O Altintas, Y Caglar	
A new scoring method for leas charts	251
M Eliacik, S Akar, B Yilmaz, B Gokyigit, OF Yilmaz	
About a case of childrens myasthenia gravis	255
DF Agrafojo, PM Enrile, JP Fabre	
Strabismus after in-vitro fertilisation	261
R Gomez de Liano, I Genol, I Iglesias, Y Fernandez, M Barrio	
Surgical treatment of strabismus fixus with high myopia	265
B Gokyigit, S Akar, A Basoglu, O Oral, OY Yilmaz	
Carotid Doppler ultrasonography in congenital IVth nerve palsy	269
B Gokyigit, S Akar, OF Yilmaz	
Effects of recession strabismus surgery on corneal topography	275
A Inal, B Inal, S Akar, B Gokyigit, OF Yilmaz	
The effectiveness of Faden operations in different types of deviations	279
A Inal, N Unal, B Gokyigit, S Akar, OF Yilmaz	
The Bruckner Test As A Screening Tool For The Detection Of Significant Refractive Errors	283
J W R Pott, Y G L Sie Oh, M Broer Van Dijk, B De Vries	
Outcome Of Surgical Management In Adults With Congenital Unilateral Superior Oblique Palsy	287
B Kaczmarek, E Wojcik, A Madroszkiewicz, M Pocij-Zero	

Inhibitional Palsy Of The Contralateral Superior Rectus Muscle In A Patient With Superior Oblique Paresis B Zaczmarek, E Wojcik, C Biliska	289
Surgical Treatment Of Upshoot And Downshoot In Duane's Retraction Syndrome C Karaka, A S Sanac, B Sonmez	291
Changes In Corneal And Conjunctival Sensitivity, Tear Film Stability, And Tear Secretion After Strabismus Surgery J B Lee, J H Chang, S H Han, Y H Chang	295
Surgery Of The Inferior Oblique Muscle In Bilateral Asymmetric Paralysis Of The Superior Oblique V Oguz, M Yolar, H Tolun, S Ozkan	299
The Oculocardiac Reflex In Strabismus Surgery A Ozbek, S Akar, B Gokyigit, G Eren, A Oner	303
Globe Retraction In A Patient With Nanophthalmos S Oner, A F Nohutca, H N Ortak	307
Surgical Treatment Of Consecutive Exotropia A Ozbek, S Akar, B Gokyigit, O F Oge, Z Bayraktar, O F Yilmaz	309
Epiblepharon And Mobius syndrome: A Rare Association B Venkateshwar Rao, P Sahare	313
Assessment Of The Risk Of Endophthalmitis In Accidental Globe Penetration During Strabismus Surgery A A S Moghaddam, A Kargozar, T Rashed	317
Assessment Of The Rate Of Nausea And Vomiting And Pain In Strabismic Patients Anesthetized By Propofol A A S Moghaddam	323
The Effect Of Experimentally Induced Spherical Myopic Anisometropia On Stereoacuity A A S Moghaddam, A Kargozar, M E Ravazi	327
Refractive Surgery: Strabologic Patients Management L Sabetti, L D'alessandri, A Fiasca, K Slavatori	331
Glomus Jugulare Tumour Presenting With 6 th Nerve Palsy A G Sainani, E Dawson, J P Lee	335
Influence Of Near Correction On Visual Perception And Perceptual Organization Skills Down Syndrome G Satirtav, E C Sener, A S Sanac, E Erdogan Baker	339
Surgical Management Of Complete Oculomotor Nerve Palsy N Sefi Yurdakul, S Ugurlu, A Maden	343
Etiology Of Paralytic Strabismus N Sefi Yurkdakul, S Ugurlu, A Maden	347
Clinical Pedigree And Genetic Analysis Of Congenital Fibrosis Of Extraocular Muscles B T Ozturk, E C Sener, A S Sanac, N Akarsu, K Yamada, E C Engle	351
Abnormal Lateral Rectus Insertion Associated With V-Pattern Exotropia And Up-Shoot Y Uysal, F M Mutlu, C Erdurman, H I Altinsoy, S M Z Bayraktar, D Ceyhan	355
Transposition Procedures For Abducens Palsy: 10 Year Results R Autrata, K Vodickova, J Rehurek	359
Inferior Oblique Muscle Surgery For Dissociated Vertical Deviation R Autrata, K Vodickova, J Rehurek	365
Congenital Fibrosis Of Extraocular (CFEOM) Muscles Associated With Musculoskeletal Abnormalities C Yildirim, S Tatlipinar, E Kiter, F Duzcan, V Yaylali, S Ozden	371
Hiper Maximum Lateral Rectus Recession Operation Of Adults With Large Angle Exotropia B Yilmaz, B Gokyigit, S Akar, O F Yilmaz	375
Surgical Outcome In Superior Oblique Palsy	381

S Ziylan, A Yigit, O Yabas, D Serin, S Hoca, I Daruga
Medical Detective
W Duifhuizen-Visscher, W J Van Der Linden, M Tjon Fo Sang,
M Wafers Bettink-Remeijer

385

Transactions 30th European Strabismological Association
8-11 June 2005, Killarney Co.Kerry, Ireland

Introduction Of The 7 th E S A Lecturer	5
M Spiritus	
Special Lecture: The Sensory Contribution Of The Deviated Eye In Childhood	7
V Herzau	
Round Table: Management Of Extraocular Muscle Palsies	15
M Spiritus, K P Boergen, Brodsky, J Elston, M O'keeffe, C Schiavi	
Course: Preschool Vision Screening – Is Earlier Better?	23
J Ohlsson, J Sjostrand, J M Holmes, M Clarke	
Isometropic Amblyopia In High Hyperopic Children	35
O Yabus, S Ziyilan, N Zorlutuna, D T Serin, S H Llapasthica	
Association Between Fixation Preference Testing And Strabismic Pseudo-Amblyopia	39
O M Hakim	
Assessment Of Magnocellular (M) And Parvocellular (P) Pathways In Strabismic Amblyopes And Normal Subjects Using Functional Magnetic Resonance Imaging (fMRI)	43
A R Davis, J J Sloper, M M Neveu, C R Hogg, G E Holder, M J Morgan, M J Brammer, S Williams	
Treatment Effectiveness For Monocular Visual Acuity Deficit: Numbers Needed To Treat	45
S R Richardson	
Three Year Follow-Up Of “Elderly” Strabismic Children With Amblyopia Treated With Citicoline	47
I P Pipitone	
Interpupillary Distance Scales The Size Of Perceived Depth In Stereograms	53
J R Frisby, G Watts, D Buckley, H Davis	
Is “High AC/A” The Sequel Of Accommodation Instability?	57
M Dostalek	
Accommodative Anomalies: Are They Often Overlooked?	61
S Brown, A Finlay	
Refraction And Oculomotor Anomalies In Down Syndrome: Retrospective Study	65
A Boschi, A Finck, G Dembour, P Jaumain, M Spiritus	
The Epidemiology Of Strabismus And Amblyopia Are The Numbers Changing?	71
M T Miller	
Strabismus In 10 Year Old Prematurely Born Children And In Full Term Controls	75
G Holmstrom, A Rydeberg, E Larsson	
Sensory Status Following Intraocular Lensimplantation For Longstanding Unilateral Traumatic Cataract Or Uncorrected Aphakia And Ocular Realignment	77
M Levin, A Haavel	
Visual Outcome And Binocular Vision After “Bag-In-The-Lens” Surgery In Children With Congenital Cataract	81
D J M Godts, I De Veuster, M J Tassingnon	
Binocular Visual Function Following Successful Surgery To Remove An epiretinal Membrane	85
L Garnham, J Sloper	
Posterior Fixation Suture (Faden) For Esotropia With Near-Distance Disparity: Results In 78 Cases	89
S Akar, B Gokyigit, M Ali, Kevser, O Faruk Yilmaz	
Esotropia With Straight Eyes Under Anaesthesia. About 73 Cases Treated Exclusively With Bilateral Fadenoperation	93

D Thouvenin, C Lesage, M C Sotiropoulos, J L Arne Fadenoperation In Treatment Of Children With Strabismus And Nystagmus IE Aznaurjan, L I Gorlacheva	97
Botulinum Toxin As A Treatment Option For Decompensated Intermittent Strabismus In Children	101
F J Rowe, C P Noonan, H Nayak Releasable Adjustable Suture Technique In Pediatric Strabismus	105
Hakim GH Prospective Evaluation Of Surgical Outcomes In Intermittent Exotropia	111
Clarke M, S Richardson, D Buck, H Haggerty, N Strong Exotropia: Stability Of Surgical Correction For Intermittent exotropia	115
AA El-Din, A Rizk The Head Tilt Test In Unilateral And Symmetric Bilateral Acquired Trochlear Nerve Palsy	121
M Graf, T Krijzok, H Kaufmann Effectiveness Of Inferior Oblique Weakening Surgery	125
J D Baker, W A Macfarlane Topical Anaesthesia For The Management Of The Extorsional Syndrome: The Role Of The Surgeon-Patient Interaction	127
V Paris, C Andris, A Moutschen Vertical Strabismus After Trauma: What About The Muscles?	131
A Stoppani, A Piantanid, A Giordano Resti Trauma To The Eye Muscles By Display – And Bookshelf-Hooks	135
J T H N De Faber, M J H Tjon-Fo Sang Age Related Neuromuscular Changes In Human Extracular Muscles	141
I B Kjellevold Haugen, J R Bruenech Stability Of The Eye Position Under General Anaesthetic (Eye Not Operated And Eye Operated)	145
A Perchereau, D Lasalle Twenty Years Of Assessment Of Intraoperative Data In Strabismus Surgery: (2) Is The Differential Of Passive Muscle Forces In An Antagonistic Muscle Pair A Useful Tool In Every Type Of Oculomotor Disorder?	149
A Roth, CI Speeg-Schatz Diplopia As A Presenting Symptom In An Eye Casualty Department	155
R M Comer, E L M Dawson, J F Acheson, G T Plant, J P Lee Convergence Excess Associated With Neurological Diseases: Surgical Treatment	157
A C Spielmann Acquired Unilateral Vertical Nystagmus	161
G E Hocking, R V Abadi Does Botulinum Toxin Have A Role In The Treatment Of Oscillopsia?	165
E L M Dawson, R Moorthy, J P Lee Botulinum Toxin In The Management Of Internuclear Ophthalmoplegia	167
R Moorthy, S Khan, G G W Adams, J P Lee Benefits Of Four-Muscle Surgery For Congenital Nystagmus	171
N J Boyle, E L M Dawson, J P Lee Surgical Options In 3 rd Nerve Palsy	175
I Teodorescu, D Cioplean Effect Of Interocular Difference Of Retinal Illuminance In Vision And Binocularity	179
J B Lee, N S Kim, D W Lee, J H Chung, S H Han, Y H Chang Stereopsis And Age	183
M Fernandez, I Perez, J Lorenzo Evaluation And Circumvention Of Monocular Cues In The FD2	187
H Davis, R Toft, J P Frisby, D Buckley Screening For Amblyopia: A Systematic Literature Review	191

C J Powell, H Porooshani, S R Richardson, M C Bohoroque Retinal Nerve Fiber Layer And Foveal Thickness In Unilateral Amblyopia: An OCT Study	195
S Petroni, R Dell'omo, S Di Landro, A Salerni, A Dickmann Cyclopentolate Versus Atropine: A Prospective Study	199
A Perchereau, D Lasalle Tropicamide versus cyclopentolate: a comparative study	203
A Pechereau, M Anoma Reverse Amblyopia With Atropine Treatment	207
D T Speunger, B C Hainline, N Sondhi, D A Plage, D E Neely Lasik In Treatment Of Meridional Form Of Refractive Amblyopia In Children With Astigmatism	211
I E Azaurjan, L I Goracheva Late-Onset Distance Esotropia With Conserved Near Stereopsis In Myopic Subjects: What Do We Need To Look For Clinically?	215
M Simon-Bernard, I Bodirsky-Caro, A Roth Modification Of Vertical Strabismus Following Botulinum Toxin A Treatment Of Childhood Esotropia	219
C J Roberts, R Gomez De Liano Use Of Botulinum Toxin For Strabismus Management In Children With Developed Delay	223
F J Rowe, A Dillon, C P Noonon The Surgical Effect Of Retroequatorial Myopexy (Faden Operation)	227
S W Parks, T S Jeong, Y G Park Bare Sclera Closure: How It Works In Congenital Esotropia Surgery	231
G Lasorella, M Mammone, L Russo, A M Catanese Intractable Diplopia After Satisfactory Alinment In An Adult With Sensory Esotropia	235
S Canturk, S Oto, Y A Akova Demographic Features And Surgical Approach In Exotropia Adults Older Than 40 Years	239
A Ozturk, S Akar, B Gokigit, A Utine, O F Yilmaz Detection Of The Slipped Extra-Ocular Muscle After Strabismus Surgery	243
S J Chen, P C Knox, P Hiscott, I B Marsh Slipped Extra-Ocular Muscles Surgery – Does The Surgical Nomogram Apply For Slipped Muscle Surgery?	245
R T Sebastian, B Karri, I B Marsh Prevalence Of Neurological Disorders In A-V Pattern	247
A Dickmann, C Arezzo, L Guccione, R Parilla, L Placentino A-V Patterns Strabismus : A Clinical Characteristic & Guidelines For Surgical Treatment	251
A Rizk, A A Taalab Orthoptic Treatment Of A Post-Traumatic Paresis Of The Superior Oblique Muscle	255
D Fernandez Agrafojo, P Martin Enrile, J Paune Fabre, H Morales Ruiz The Surgical Effect Of Inferior Oblique Weakening Procedure	263
I Perez, M Fernandez Outcome Of Surgical Management In Adults With Acquired Unilateral Superior Oblique Palsy	267
E Wojcik, B Kaczmarek Ocular Convergence Defect And Mandibular Latero-Deviation	271
L Sabetti, L D'allessandri, A Monaco, A Fiasco A Case Of Familial Congenital Limitation Of Elevation	275
T Moutray, R Brennan Congenital Double Elevator Palsy: Relation Between Surgical Approach And Lid Position And Movement	279

G Savino, M Manzulli, F De Rossi, L Balia, S Di Landro, A Dickman Hypoplastic Inferior Rectus Muscle In Association With Accessory With Accessory Extraocular Muscle And Globe Retraction S B Ozkan, Y Dayanir, T Y Gokce	283
Congenital Fibrosis Of Superior Oblique And Superior Rectus Muscles With An Accessory Band Tissue S B Ozkan, H Cakmak, V Dayanir	287
Clinical Observation And Treatment Of 34 Cases With Blepharophimosis Ptosis – Epicanthus Inversus Syndrome Y H Jiah, W Lu, X Wu, Y Min, D M Li, G L Li, K X Zhao	291
Ophthalmological Pathologies In Very Low Birth Weight Childrens With Muscular Ectopia G Savino, D Colucci, L Guccione, D Lepore, F Molle, T Rebecchi	295
Isometric Force Of Extraocular Muscles Measured In A Case Of Dysthyroid Restrictive Esotropia. Effects Of Chemodeprivation And Surgery To Correct Esotropia On Eye Muscle Tension C Schiavi, C Belluschi, R Bolzani, G Lennerstrand	299
Restricted Eye Motility And Enophthalmos In Metastases From Breast Carcinoma J W R Pott, N Kamminga	303
Bilateral Ptosis And Gaze Palsies Following Radioactive Seed Treatment Of Rectal Plate Tumour J M Durnian, V Wong, J Ashworth, C Malluci, P Warnke, I B Marsh	307
Results Of Strabismus Surgery With Anterior Ciliary Artery Preservation S Akar, B Gokyigit, P K Hekimhan, O F Yilmaz	311
Botulinum Toxin Injection For Acute Sixth Nerve Palsy S Gylan, O Yabas, S Karslioglu, I Daruga	315
Treatment Of Paralytic Strabismus With Disport: A First Experience In Russia L L Plisov, V V Atomanov, K G Puzyrevsky	319
The Appropriate Therapeutical Plan In Traumatic VI Nerve Palsy D Cioplears, L Teodorescu	323
The Results Of Total Tendon Transposition In Lateral Rectus Palsy Without Preoperative Botulinum Toxin Type A I B Marsh	325

Transactions 31st European Strabismological Association
22-25 May 2007, Mykonos, Greece

Introduction Of The 2007E S A Lecturer	5
EC Campos	
ESA Lecture: Surgical procedures in the treatment of paralytic strabismus	7
H Kaufman	
Round table: The dissociated strabismus complex	17
EC Campos, M Brodsky, A Damanakis, V Paris, M Graf, JT de Faber	
Ocular motility problems following orbital trauma	29
J Lee	
Restrictions related to previous strabismus surgery	33
SB Ozkan	
Prelavence of ocular motility disorders in a population of school children from the highlands of Ecuador	39
A Molinari, S Heede, G Virgili, M Angi	
Visual acuity, strabismus and binocularity in children with high hyperopia	43
KG Romanchuk, JS Kent, SA Dotchin, JA Zurevinsky	
Lexalgia	47
H Webb, JP Lee	
Prevalence of amblyopia in an incidence cohort of childhood strabismus	51
AE Greenberg, BG Mohny, NN Diehl	
Higher order aberrations: an explanation for some cases of idiopathic amblyopia	55
JT de Faber	
Extra insertion of extraocular muscles and ocular mobility after muscle disinsertion	59
O Hakim, H Ameen, M Neizy, YG El-Hag	
Horizontal recti surgery in congenital nystagmus	63
A Bagheri, M Aletaha, M Zonoobi, M Abrishami	
Isometric force development in human eye muscles end pulleys	65
G Lennerstand, C Shiavi, R Bolzani, M Benassi, M Fusari, EC Campos	
SEE++ - An interactive diagnostic software system for simulating strabismus surgeries	69
T Kaltofen, M Buchberger, S Priglinger	
How effective is the inferior rectus faden operation?	73
IB Marsh	
Infantile esotropia with nystagmus: a treatable cause of oscillatory head movements in children	79
MC Brodsky, KW Wright	
Esotropia with near/distance disparity – an overview study	83
RD Gama, V Nogueira, AV Escada, R Costa, G Varandas, ML Viera	
Surgical management of infantile esotropia: what is a good result?	87
A Roth, M Bumbacher, Cl Speeg-Schatz, S Gottenkiene	
Surgery for residual convergence excess esotropia	91
HJ Patel, E Dawson, J Lee	
Bilateral resection/recession of the medial rectus for convergence excess esotropia	95
RH Taylor, B Ramasamy, CP Noonan, FJ Rowe	
Refractive accommodative esotropia: LASIK and PRK treatment	99
A Magli, A Iovine, F Fimiani, R Carelli, P Nucci, L Sabetti, U Giani, D Bruzzese	
Management of intermittent distance exo deviations using minus lenses	105
FJ Rowe, CP Noonan, G Freeman, J DeBell, K Ireland	
Cyclic exotropia	109
LS Mengher, E Dawson, A Dabbagh, JP lee, GGW Adams	
How can we completely change our minds about intermittent exotropia?	113
V Paris	
Congenital exotropia: a supplement to literature	117
M Farvardin, A Alavi	
Interest of cerebral MRI in infantile exotropia	121

D Denis, E Toesca, N Girard	
Hess Lancaster screen test with the head tilted: a useful test in the diagnosis of bilateral fourth nerve palsies	125
AL Armesto, MC Urgin, E Travelletti, A Schlaen	
Double elevator palsy: a 10 years review of the patients from Labbafinejad eye centre	129
R Sahebghalam, A Bagheri, S Yazdani	
Surgery for unilateral acquired trochlear nerve palsy: whats the best choice?	133
M Graf, J Weihs	
The result of anterior transposition of the inferior oblique muscle in patients with DVD	137
YG Balci, SB Ozkan, NK Pular	
Superior oblique tendon thinning in Browns syndrome	141
CJ Roberts, R Gomez de Liano	
Superior rectus overaction related to superior oblique palsy: prevalence, characteristics, aetiology and management	145
M Fresine, C Schiavi, EC Campos	
Fells modification of the Harado-Ito procedure – does one size fit all?	149
IB Marsh, N Kumar, S Dodd	
Cyclotorsion associated with neurological diseases	153
AC Spielmann	
Non-adjustable strabismus surgery for vertical deviations in thyroid-associated orbitopathy	159
D Godts, PA Evens	
Recession to correct restrictive strabismus is less effective after orbital decompression in graves orbitopathy	163
C Schiavi, M Fesina, P Versura	
The use of botulinum toxin in the long term management of strabismus	167
RW Gardner, ELM Dawson, GGW Adams, JP Lee	
Use of botulinum toxin for strabismus post retinal detachment surgery	169
ELM Dawson, RW Gardner, GGW Adams, JP Lee	
Strabismus after orbital decompression	171
A Galan, A Wert, R Medel, T Alonso, J Visa	
Bupivacaine injection enlarges eye muscles	177
AB Scott, DE Alexander, JM Miller	
Treatment of cranial nerve VI palsy	181
DT Sprunger, DL Rogers, I Ben-Zion, JG Roberts, DA Plager, DE Neely	
Visual impairment in stroke survivors: a prospective multi-centre trial	185
FJ Rowe, VIS Group	
Diplopia and ocular torsion following uncomplicated MT 360 and counter rotation surgery for ARMD	189
LS Mengher, GS Uppal, L DaCruz, JF Acheson, JP Lee	
Dynamic magnetic resonance imaging (MRI) in strabismic patients	193
L Teodorescu, D Cioplean, V Ionescu	
Re-recession of the medial rectus muscles in patients with recurrent esotropia	199
A Medghalchi, S Dalili, K Amirrafie	
An efficacy of chemodenervation for the treatment of chronic sixth nerve palsy	203
IL Plisov, OM Batalova, KG Puzyrevskty, VV Atamanov	
The median tucking is a new technique of strabismus surgery	207
KG Puzyrevskty, IL Plisov	
A five year clinical review of children with accommodative esotropia	211
S Ganesh, P Singhal, M Sharma	
Results of OCT in children with hyperopic unilateral high degree amblyopia	215
IM Boychuk, EV Ivanitskaya	
Sensory evaluation in anisometropic patients	219
G Sabino, MJ Giannico, MT Rebecchi, V Perrotta, C Fedeli	
Stereopsis test and normal binocular vision: TNO versus titmus test	223
I Perez-Flores, J Lorenzo-Carrero	

Visual improvement with low vision aids in nystagmus	225
H Karakaya, E Yalcin, H Tolun	
Surgical treatment result of third cranial nerve palsy	229
E Yalcin, S Yilmaz, H Tolun	
Analysis of post-operative outcome of orbital fractures	231
G Savino, V Perrotta, MJ Giannico, L Messina, D Colucci	
Ocular neuromyotonia	235
CF Merckel-Timmer, YS Everhard-Halm, YC Besselink, M de Buy, LJMM Wenniger-Prick	
Eye muscle surgery at restrictive dysthyroid myopathy with diplopia	237
D Kosec, I Gardasevic	
EMG-guided botulinum toxin injection for the management of infantile esotropia syndrome	239
PR Brogden, J Hoole, IG Simmons	
Botulinum toxin in horizontal strabismus-lateral recti and previously operated muscles respond poorly	243
PR Brogden, J Hoole, IG Simmons	
Surgical effects of the Harado-Ito procedure	247
FJ Noordhuizen, I Dekker, MF Brouwer, JTHN de Faber, M Tjon-Fo-Sang	
A comparison of long term visual function in patient following retinectomy or encirclement for advanced PVR	251
L Garnham, L Wickham, D Charteris	
Vergence adaptation in reduced acuity: delayed or incomplete?	253
A Firth, H Davis	
Unilateral anisometropia amblyopia: a morpho-functional study with optical coherence tomography and microperimeter	257
S Petroni, A Salemi, R Fasciani, E Balestrazzi, A Dickmann	
The relationship between different types of thyroid-associated orbital myopathy and trab levels	261
O Velittin	
Does the size of stereogram affect stereoacuity?	265
H Davis, JP Frisby, AM Pilkington, D Buckley	
Use of amniotic membrane on wound healing and adhesions in experimental strabismus surgery	269
S Demirel, H Atilla, AO Heper, N Erkam	
Self-estimation of quality of life changes related to cosmetically evident squinting and/or glasses in younger school children	273
M Dostalek, L Tronecek, M Hejzmanova, M Petriscakova	
Pupillary constriction of patients with intermittent exotropia before and after strabismus surgery	277
A Hikoya, Y Hotta, M Sato	
Polyneuritis cranialis: a case report with rapid recovery after immunoglobulins treatment	281
M Di Pietro, A Scuderi, M Ruggieri	
A novel technique for inferior rectus recession operation	285
B Gokyigit, S Akar, A Ozturk, PK Hekimhan, OF Yilmaz	
Contralateral inferior oblique muscle overaction after unilateral inferior oblique muscle weakening procedures	289
S Akar, B Gokyigit, M Dogan, B Erden, I Perente, OF Yilmaz	
The contribution of strabismus finding to the early diagnosis of the inborn errors of metabolism	293
D Tsagkaraki, D Papadakis, E Michailidou, M Spilioti, A Evageliou, I Pallikaris	
Retinal optic coherence tomography (OCT) in eccentric fixation cases	297
B Gokyigit, S Akar, S Bayraktar, OF Yilmaz	
A practical technique to avoid undesirable infra or supra position in excessive recession and faden operation	301
B Gokyigit, S Akar, OF Yilmaz	
Three cases of infantile strabismus fixus	305

B Kaczmarek, E Wojcik, E Helveston	
Positive Bielschowsky head tilt test in thyroid ophthalmopathy	307
J Fernandez, A Galan, J Visa	
Excessive amount of incyclotorsion in dysthyroid ophthalmopathy	309
K Chatzistefanou, T Ramadan, E Iliakis, N Economopoulos, MN Moschos, BJ Kushner	
Focal dermal hypoplasia or Goltz-Gorling syndrome; a case report	313
MM Rijswijk, PJ Kruit	
Effect of graded recessions of inferior oblique muscle in treatment of inferior oblique overaction and dissociated vertical deviation	315
S Canturk, S Oto, YA Akova	
A new approach for management of monocular elevation deficiency	319
O Hakim	
Intraoperative position and circumference of the inferior oblique muscle	323
A Bagheri, M Eshaghi, S Yazdani, A Ferdosi	
The abnormal anatomy of the inferior oblique (IO) and its influence on the clinical aspect of vertical strabismus	327
DE Cioplean, L Teodorescu	
Superior oblique palsy: a review of 135 cases	331
G Lasorella, L Russo, A Moramarco, E Polito	
Orbital fractures: protocol and a case report	335
SM Jansen, AJ Bakels, JSM Krijnen, AEL Langenhorts	
Hypotropia in patients with dissociated vertical deviation	337
S Gamio	
Macular heterotopia sometimes there is more than meets the eye	341
A Tartara, M Arrufat, E Marti, C Perez, S Gamio	
Comparison of preoperative and postoperative anterior segment measurements with pentacam in strabismus	343
S Emre, C Cankaya, S Doganay	
Possibility of ignoring paradoxical diplopia depending on the size of the angle of anomaly	347
A Broniarczyk-Loba, PJ Loba	
The reasons for over correction and their treatment following congenital esotropia operation	351
B Gokyigit, S Akar, A Ozturk, OF Yilmaz	
To compare the results of two faden techniques having a difference in esotropia cases	355
S Akar, B Gokyigit, A Ozturk, A Ozbek, B Yilmaz, OF Yilmaz	

**Transactions 32nd European Strabismological Association
7-10 September 2008, Munich, Germany**

Foreword by the President	XIII
S. B. Özkan	
Preface	XV
R. Gómez de Liaño	
In the memory of Dr. Alfredo Arruga Forgas (1920-2008)	XVII
Executive Committee of The European Strabismological Association	XIX
Introduction of the 9th E.S.A. Lecturer	5
H. Mühlfendyck	
ESA LECTURE: What's at stake in infantile esotropia?	7
A. Roth	
Prisms for non-strabismics: Is the vergence position of rest stable?	23
G. Kommerell, J. M. Otto, M. Bach	
The "8 diopters base-in test" for the diagnosis of microstrabismus in daily practice	27
A. Piantanida, G. Falcicchio, I. Pipitone	
Does infantile esotropia arise from a dissociated deviation?	31
M. Brodsky, K.J. Fray	
Succinylcholine activation of human horizontal eye muscle	35
G. Lennerstrand, S. Tian, Sweden; R. Bolzani, M. Benassi, M. Fusari, E. Campos, C. Schiavi	
Sensory fusion and quality of life in adult patients before and after strabismus surgery	41
A. Dickmann, G. Savino, M. T. Rebecchi, E. Di Nardo, I. Aprile	
Outcome analysis of surgery for eye muscle palsy	45
L. Cabrejas Martínez, F. J. Hurtado Ceña, J. Tejedor Fraile	
The profile of strabismus in stroke survivors	49
F.J. Rowe, VIS Group	
Diplopia and strabismus after pterygium surgery	53
R. Gómez de Liaño, R. Borrego, D. Santander	
Convergence spasm treated with botulinum toxin	57
B.B. Kaczmarek, E. Dawson, J.P. Lee	
Consecutive exotropia after esotropia's treatment with botulinum toxin A - When can you diagnose?	61
R.D. Gama, A. Sulzbacher, G. Varandas, M. L. Vieira, A. C. Dinis	
Single horizontal rectus muscle recession or resection for small to moderate angle strabismus	67
D.E. Neely, M. El Basha, D.L. Rogers, N. Shah, I. Ben-Zion, D.A. Plager, D.T. Sprunger, G.J. Roberts	
Technique and results of bilateral Fadenoperation of the medial rectus - modification of Mühlfendyck	71
M. Kaup, A.C. Mödder, K. Hartmann	
Reoperation on faden operation	75
I. Ozdemir, B. Gokyigit, S. Akar, A. Oztürk, O. F. Yilmaz	
Coming back on a fadenoperation, still a nightmare?	79
D. Thouvenin, C. Lesage, O. Norbert, S. Nogue, L. Fontes	
The efficacy of augmented transposition surgery in several indications	83
S. Akar, B. Gokyigit, G. Pekel, P.K. Hekimhan, I. Ozdemir, H. Gungel, O.F. Yilmaz	
The submuscular tenon's sheath and slipped muscles	87
G.P. du Plessis	
Using the PlusOptix vision screener for detection of amblyogenic factors in children in the united states of america	93
N.M. Matta, D. I. Silbert, E. L. Singman	
Refractive surgery and amblyopia	97
A. Dickmann, V. Cima, C. Radini, S. Petroni, L. Mosca	
Clinical and demographic characteristics of childhood intermittent exotropia:	103

A prospective multicentre study	
J.J. Sloper, E. Dawson, D. Buck, C. Powell, H. Davis, N.P. Strong, P. Tiffin, R. Drewett, P. Cumberland, J. Rahi, M.P. Clarke	
Medium term follow-up in operated exotropia	105
D.E. Cioplean	
Infantile Esotropia – Influence of the age of treatment in the vertical deviation	109
M. Vila Franca, H. Nogueira, R. Dinis da Gama, G. Varandas, M. L. Vieira, A. Castanheira-Dinis	
Diagnosis and surgical treatment of dissociated horizontal deviation (DHD)	113
S. Gamio	
Retrobulbar irradiation for graves' ophthalmopathy: A retrospective study, evaluating the efficacy of doses between 12-20Gy.	119
K.T.M. Johnson, Ch. Loesch, J. Esser, A. Wittig, W. Sauerwein, K. Mann, A.K. Eckstein	
Tendon elongation: a new surgical technique for large convergent squint after three wall orbital decompression in thyroid associated ophthalmopathy	123
A.K. Eckstein, M. Holdt, K.T.M. Johnson, J. Esser	
Surgical treatment of internuclear ophthalmoplegia	127
J.M. Durnian, F. Jazayeri, V. Trimble, I.B. Marsh	
Superior rectus recessions for downbeat nystagmus	131
M. R. Vishwanath, A. Maino, I. B. Marsh	
Surgical treatment of the heavy eye syndrome: long-term results with Yokoyama technique	137
C. Schiavi, M. Fresina, E.C. Campos	
A review of the Yokoyama procedure for eso-hypotropia associated with high myopia	141
C.S. Child, A. Khawaja, J.J. Sloper, J.P. Lee, G.G.W. Adams	
Myopes esotropia surgery: results on 45 patients	145
G.B. Marcon	
Problems with lateral rectus orbital wall fixation in duane syndrome	149
S. B. Özkan, I. Isikligil	
Congenital Brown's syndrome: Intraoperative findings and postoperative results	155
K. Hartmann, Germany	
The reasons of second and third operations for patients with Brown's Syndrome	159
B. Gokyigit, S. Akar, O.F. Yilmaz	
Aetiology of isolated inferior rectus palsy	163
L. Garnham, J. Lee	
Superior oblique tucking with vs. without additional inferior oblique recession for acquired trochlear nerve palsy	165
M. Gräf, B. Lorenz, A. Eckstein, J. Esser	
Surgery for congenital superior oblique palsy in childhood	169
S. Schmidt, M. Gräf, H. Kaufmann, B. Lorenz	
Unilateral superior rectus contracture related to extorsional syndrome: Partner or enemy?	173
V. Paris	
Possible role of higher-order aberrations in idiopathic amblyopia	179
I. Berkit, S. B. Özkan, Z. Özbek, P. Apaydin	
Risk factors in subtypes of anisometropic amblyopia	183
S. Akca Bayar, S. Oto, S. Kaya, A.C. Yazici, Y. Aydin Akova	
Functional and electrophysiological correlation in disbinocular amblyopia	187
I. Boychuk, O. Terletska, S. Slobodyanik	
Convergence accommodation does regress with vergence adaptation	191
A.Y. Firth	
Gradient versus heterophoria measurement of AC/A ratio: Does a difference occur in strabismic cases?	193
F.J. Rowe, C.P. Noonan	
Modifying the lancaster screen to measure the field of single binocular vision; The matta map	197

N. S. Matta, D. I. Silbert, E. L. Singman Lee Screen test versus the Ocular Motility Analyser© (OMA): Comparison of technical features and testing methods	201
A. A. Assaf An improved visualization of oculodynamic eye movement recordings: Comparison of two patients with horizontal motility impairment	205
A.M. Palmowski-Wolfe, Switzerland, C. Kober, Germany, I. Berg, C. Buitrago-Téllez, C. Kunz, E.W. Radü, S. Wetzel, K. Scheffler Strabological photography with the video slit lamp	209
M.M. Gellrich Analysis, in terms of millimeters, of different surgical approaches in infantile esotropia	213
A. Magli, R. Carelli, A. Iovine, F. Fimiani Evaluation of the sensory status in patients affected by Infantile Esotropia, who underwent surgery before and after 2 years of age	217
A. Magli, R. Carelli, A. Iovine, F. Fimiani Childhood esotropia: Outcomes of management in a greek referral centre	221
N. Ziakas, E. Kanonidou, M. Antoniadis, A. Praidou, K. Ntampos, P. Zotta, K. Boboridis, D. Mikropoulos Effectiveness of surgical management in small angles alternating nonaccomodative esotropia	225
ASenyakina, S. Rykov, M. Turchyn, M. Shevkolenko, Rare aquired esotropia: Divergence weakness	229
A. Szigeti, M. Fodor Sensorial strabismus due to congenital toxoplasmosis. Eso or exotropia?	233
S. Gamio, A. Tártara Clinical characteristics of exotropic patients with hyperopia	237
J.B. Lee, S.A. Chung, J.H. Chang, Y.H. Chang Non-sensory spontaneous consecutive exotropia in children with esotropia	241
S. Hamada, A. Assaf New opportunity in exotropia surgery	245
L. Sabetti, I.M. Greco, A. Berarducci, F. Fabiani Superior oblique posterior tenectomy - Is it really safe?	249
P. Apaydin, S.B. Özkan, I. Berkit Efficiency of bilateral inferior oblique weakening procedures in V pattern strabismus	253
S. Akar, B. Gokyigit, A. Eren, H. Gungel, O.F. Yilmaz Congenital fibrosis of the inferior rectus muscle	257
S. Schmidt, M. Gräf Clinical characteristics and surgical results in Duane's retraction syndrome	261
S.A. Chung, J.B. Lee, J.H. Chang, Y.H. Chang Patients operated for Duane's retraction syndrome-overview of the results in the last 10 years	265
M. Jarc-Vidmar, I. Gardasevic, D. Kosec Surgical treatment of atypical form of strabismus at Duane syndrome	269
I.L. Plisov, O.M. Batalova, K.G. Puzyrevsky Results of lower eyelid lengthening after inferior rectus muscle recession with and without tarsorrhaphy in patients with Graves' ophthalmopathy	273
A.K. Eckstein, K.T.M. Johnson, J. Esser Another reason for vertical diplopia after orbital floor fracture	277
R. Lolova, A. Baghoomian The intensity of downbeatnystagmus during daytime	281
N. Rettinger, R. Spiegel, R. Kalla, D. Straumann, S. Glasauer, T. Brandt, M. Strupp Surgical options in congenital nystagmus (Ny)	285
L.A Teodorescu, D. Cioplean, M. Dragomir, I. Velcea Vertical rectus muscle transposition with recession of medial rectus at six nerve palsy	289
D. Kosec, A. Beharic NIII palsy with aberrant regeneration: 2 Case reports	293

D.M.J. Godts, P.A. Evens	
Ophthalmic findings in children with periventricular leucomalacia	297
S. Akca Bayar, S. Oto, S. Aksoy, I. Akkoyun, Y. A. Akova	
Dose effect of botulinum toxin A in heterotropia and heterophoria	301
F.J. Rowe, C.P. Noonan, R. Batra	
The role of botulinum toxin in infantile esotropia	305
M. Vila Franca, H. Nogueira, R. Dinis da Gama, G. Varandas, M. L. Vieira,	
A. Castanheira-Dinis	

**Transactions 33rd European Strabismological Association
Belgrade, Serbia
September 2009**

Introduction of the 10th E.S.A. Lecturer	5
S. B. Özkan	
ESA LECTURE: Botulinum toxin – The Moorfields Experience	7
J. P. Lee	
Symposium: Amblyopia - Revisited	15
Treating Amblyopia: Evidence from the PEDIG studies	17
J.M. Holmes, USA	
Classification, the aspects of different types of amblyopia	21
B. Stankovic, Serbia	
Amblyopia beyond acuity, pathophysiological implications	25
J.J. Sloper, U.K.	
Symposium: Selected complications in strabismus surgery	29
Lost muscle	31
S.B. Özkan, Turkey	
Anterior segment ischaemia after strabismus surgery	35
J. P. Lee, U.K.	
Ocular perforation in strabismus surgery	39
D. T. Sprunger, USA	
Session I: Amblyopia, Screening, Visual Function	41
Brückner transillumination test in induced esotropia	43
M. Gräf, Q. Alhammouri, C. Vieregge, B. Lorenz, Germany	
Controlled binocular acuity: Optimum method of testing	47
H. Davis, A.Y. Firth, UK	
Ocular dominance or visual localisation? Can this be modified?	49
G. Stephenson, UK	
Session II: Neuroophthalmology	53
Unilateral ocular rotation measures: Octopus versus Goldmann	55
F.J. Rowe, S. Hanif, UK	
Ocular consequences of thalamic stroke	59
F.J. Rowe, VIS Group, UK	
Nystagmus surgery in oculopalatal tremor	63
A.C. Spielmann, France	
Session III: Strabismus Surgery	67
Collagen matrix (Ologen) in strabismus surgery	69
M. Fresina, C. Basiricò, C. Schiavi, E.C. Campos, Italy	
Horizontal or vertical strabismus surgery in peribulbar block and adjustable sutures	73
K. Misailovic, S. Petrovic, M. Kovacevic, Serbia	
Session IV: Esodeviations	77
Restoration of binocular vision after surgery for infantile esotropia	79
A. Roth, C. Speeg-Schatz, F. Dorey, M. Bumbacher, S. Gottenkiene, M. Barthélémy, M. Grasser, Y. Trinh, France	
Results of early surgical alignment of infantile esotropia	83
A. Medghalchi, S. Dalili, Iran	
Moderately large bilateral medial rectus recessions in infantile esotropia	87
B. Stankovic, S. Milenkovic, D. Risovic, P. H. Senčanic, A. Stanojevic, Serbia	
Management of infantile strabismus fixus	91
B.B. Kaczmarek, E. Wójcik, Poland; E. Helveston, USA	
Botulinum toxin treatment in patients with esotropia associated to duane syndrome under three years of age	95
R. Gómez de Liaño, R. García Catalán, J. Fraile, O. Rayward, Spain	
Age-related distance esotropia	99
D. Godts, Belgium	

Session V: Exodeviations	103
Divergence fusional Amplitude can predict the surgical outcome of patients with convergence insufficiency:	105
C. Schiavi, M. Fresina, E.C. Campos, Italy	
Topics on surgical management of adults with postoperative consecutive exotropia	109
Marcon, G.B., R. Pittino, Italy	
Session VI: Oblique & Vertical Disorders	113
A retrospective review of superior oblique tuck surgery for the management of superior oblique palsies in a tertiary referral centre	115
O. Frangouli, L. Garnham, G.G.W. Adams, J.J. Sloper, J. P. Lee, UK	
Effectiveness of anterior transposition of inferior oblique in ipsilateral superior oblique palsy	119
B. Stankov, M. Ljutica, Dj. Obucina, R. Stojkovic, D. Bubalo, Serbia; V. Regoda, Bosnia & Hercegovina	
Dissociated deviations caused by cortico-tectal lateralisation	123
M. Ten Tusscher, Belgium	
Session VII: Varia	127
Improvement in health-related quality of life in adults with non-diplopic strabismus	129
J.M. Holmes, S.R. Hatt, D.A. Leske, USA	
Microdeviations and macrosymptoms: What to do?	133
V. Paris, Belgium	
Computer simulation of Brown syndrome	137
M. Buchberger, T. Kaltofen, S. Priglinger, Austria; H. Mühlendyck, Germany	
Retinofilms	141
D. Fdez-Agrafojo, Y. Meroueh, P. Martín, Enrile, H. Morales Ruiz, S. Busto del Campo, Spain	
Posters	145
A new etiology in infant amblyopia. conversion Visual Loss	147
C. Laria, M ^a E. Pérez, E. Pérez, D. P. Piñero, J. Torres, J.M. Ruiz-Moreno, J.L. Alió, Spain	
Amblyopia, Strabismus and Refraction in congenital ptosis	151
W.J. van Wooudenbergh-Van Der Linden, W. Duifhunizen-Visscher, J.T.H.N. de Faber, The Netherlands	
Relationship between visual acuity and stereopsis in children with amblyopia treated with occlusion therapy	155
A. Amaral, P. Leitão, L. Pinto, A. Paixão, M. Martins, A. Toscano, Portugal	
Factors associated with treatment failure of anisometropic amblyopia	159
A. Medghalchi, S. Dalili, Iran	
Incidence of ophthalmic disease of children with abnormal head posture	163
C. Hee-Young, South Korea	
Association of extensive myelinated retinal nerve fibers and high degree myopia	165
E. Yalcin, Z. Akingol, S. Sencan, Turkey	
Stereoacuity using the FD2 at 6 metres, 3 metres, and using a mirror	169
H. Davis, M. Sidhu, J.P. Frisby, UK	
Partially accommodative esotropia after cataract surgery	173
K. Dae Hyun, C. Gwang Ju, K. Seong Taek, Rep. of Korea	
The use of dynamic magnetic resonance in the diagnosis of ocular motility disorders	177
P. Loba, I. Laudanska-Olszewska, O. Nowakowska, A. Majos, A. Broniarczyk-Loba, Poland	
Pupil reactions in patients with hyperopic amblyopia	181
I.M. Boychuk, N.N. Bushueva, Ukraine	
Results of 2 hours, 6 hours and full-time patching regimens for treatment of amblyopia	185
C. Hee-Young, South Korea	
Results of recession & anteriorization of inferior oblique muscle for alignment of superior oblique palsy	189
School of medicine, Guilan Medical science University, Rasht, Iran	
Strabismus associated with Angelman syndrome	193
N. Milic, S. Popovic, A. Pepic, M. Stojkovic, D. Rasic, G. Stevanovic, M. Gakovic, Serbia	

Surgical approach in treatment of Möebius syndrome	195
O. Rayward, E. Hernández, R. Gómez de Liaño, Spain	
Surgical results after traumatic section of a lateral rectus muscle: A case report	199
S. Popovic, M. Jovanovic, A. Pepic, N. Milic, M. Gakovic, Serbia	
The changes of corneal astigmatism and refraction after horizontal rectus muscle surgery in intermittent exotropia	203
H. Heo, G.H. Mun, S.W. Park, Y.G. Park, Korea	
The clinical course and the difficulties in etiological diagnosis in two patients with painless ophthalmoplegia – case report	207
A. Pepic, V. Brankovic-Sreckovic, S. Popovic, D. Mrvos-Cobeljic, J. Mladenovic, V. Milic-Rasic, Serbia	
Relations between ocular dominance and macular nerve fiber layer thickness in intermittent exotropia patients with strong unilateral ocular dominance	209
Y.G. Park, J.S. Lee, H. Heo, S.W. Park, Korea	
Evaluation of intelligence quotient (IQ) in patients with congenital strabismus who were candidates for strabismus surgery in one year period	225
A. Bagheri, M.R. Fallahi, M. Zonoubi, M. Abrishami, M. Aletaha, Iran	

Transactions 34th European Strabismological Association
Bruges, Belgium
September 2011

ESA Lecture	
The role of pigment in the visual system	29
B. Lorenz, Germany	
Session 1: screening and amblyopia	
Eye hand coordination in children with strabismus and amblyopia	39
J. Sloper, C. Suttle, A. Finley, D. Melmoth, S. Grant, UK	
Superiority of objective evaluation of visual acuity in children	43
V. Paris, Belgium	
Session 2: visual function / origin of strabismus	
Ocular dominance. Compatability study between different tests	49
AG. Pechereau, A. Outtara, D. Lassalle, L. Nigua, J. Rondineau, P. Lebranchu, France and Ivory Coast	
Ocular function in Parkinson disease	53
MX. Repka, Z. Almer, K. Klein, L. Marsh, M. Gerstenhaber, USA	
Session 3: decision making approach	
The seven deadly syndromes of cranial nerve III	59
CL. McCarus, V. Rismondo-Stankovich, USA	
Recession of the four horizontal rectus muscles in congenital nystagmus: subjective assessment by the patients and their families using a questionnaire	63
AC. Spielmann, O. Norbert, E. Chapotot, France	
Session 4: botulinum toxin	
Botulinum toxin A in the management of pediatric strabismus	73
VK. Tailor, S. Thomas, GW. Adams, UK	
Motor response to botulinum toxinb in childhood esotropia – effect of features of the esotropia and age of first treatment	77
RG. Pinto, I. Silva, F. Braz, R. Seldon, G. Varandos, ML. Vieiro, Portugal	
Late recurrence of esotropia in patients with essential infantile esotropia aligned at very early age by botulinum toxin injections	81
C. Schiavi, M. Fresina, E. Campos, Italy	
Comparative study of botulinum toxin and surgery in acquired esotropia management	85
A. Valverde-Megias, R. Gonzalez-Jimenez, E. Piedrahita-Alonso, E. Garcia-Hernandez, R. Gomez-de-Liano, Spain	
Symposium: Adult strabismus management	
Topical anesthesia in strabismus surgery	91
R. Gomez-de-Liano, P. Gomez-de-Liano, P. Merino, O. Seijas, Spain	
Mandatory indications for botulinum toxin use	95
SB. Ozkan, Turkey	
Strabismus following muscle trauma	97
O. Molinari, Ecuador	
Orthoptic course	
Introduction: assessment and measurement towards standardisation in clinical trials	101
E. Caines, Sweden	
Assessment of visual acuity and contrast sensitivity in children	103
A. Rydberg, Sweden	
Standardisation of subjective refraction and visual acuity measurements in adults	107
D. Godts, Belgium	

Ocular alignment and motility: moving variables in clinical trials	111
F. Rowe, UK	
Testing binocular vision and stereopsis in clinical trials	115
H. Davis, UK	
 Session 5: oblique muscle surgery	
Is inferior oblique recession a 'self-adjusting' surgical procedure?	119
B. Kaczmarek, Poland	
Effect of strabismus surgery on torticollis caused by congenital superior oblique palsy in young children	123
Isenberg SJ, Kekunnaya R, USA and India	
From MRI to surgical strategy in A or V pattern strabismus	127
A. Roth, M. Bumbacher, Switzerland	
The effect of superior rectus recession on superior oblique palsy with superior rectus contracture	131
SB. Ozkan, D. Buran, Turkey	
 Round table discussion: oblique muscle surgery update	
Anatomy of the inferior oblique muscle and surgical implications	137
D. Stager Jr, USA	
Objective analysis of torsion related to oblique muscle surgery	141
A. Pechereau, Lebranchu, G. Le Meur, D. Lassalle, France	
Particular aspects of oblique muscle resection and transposition	145
V. Paris, Belgium	
 Session 6: special aspects of torsion	
Rotation of the retinal vascular arcades: an accessory sign of ocular torsion	153
CF. Parsa, AB. Kumar, USA and India	
Canine tooth syndrome resulting from fronto-ethmoidal sinus surgery	157
H. Peeters, K. Baelemans, D. Yuksel, Belgium	
Different mechanisms of motor fusion may differentiate between patients with true versus masquerading superior oblique paresis	161
K. Irsch, DL. Guyton, HS. Parks, HS. Ying, USA	
Epidemiological study of strabismus with torsional syndrome	165
P. Lebranchu, G. Le Meur, F. Oger-Lavenant, A. Pechereau, France	
 Session 7: complications and trauma	
Severe complications of strabismus surgery	171
JA Bradbury, RH. Taylor, UK	
A child with choroidal oedema after uneventful strabismus surgery	175
C. Gobin, S. Swinnen, Belgium	
How to handle trauma to the eye muscles with a Dutch touch. Do not despair, but repair?	179
JTHN de Faber, I Dekker, MC Rijneveld, D Goes, E de Jongh, R van Ruijven, MJH Tjon-Fo Sand, The Netherlands	
Study of ocular motility in patients with congenital glaucoma	183
E. Hernandez Garcia, A. Valverde Megias, MR. Gomez de Liano Sanchez, Spain	
 Session 8: specific aspects of surgery	
Second surgery in dissociated vertical deviation (DVD)	189
S. Gamio, Argentina	
To compare inferior rectus recessions versus inferior and superior rectus recessions in patients with vertical deviations in thyroid eye disease on fixed and adjustable sutures	193
J. Hancox, K. Mackenzie, J. Acheson, J. Lee, G. Adams, UK	
Uni or bilateral recession of the inferior rectus muscle in Grave's orbitopathy patients?	197
HM. Jellema, P. Saeed, YS. Everhard-Halm, L. Prick, M. Mourits, The Netherlands	

Surgery for consecutive exotropia. An audit of a decade RH. Taylor, UK	201
Surgical options in Duane syndrome A. Arnesto, Argentina	207
Session 9: special aspects of Duane syndrome	
Duane syndrome: clinical pearls contributing to tailored surgery M. Dieltiens, I. DeClippeleir, M. Van Lammeren, L. Baekeland, H. Janssens, L. Beelen, L. Govaeris, Belgium	213
Surgery and expectations in consecutive exotropia related to lost medial rectus after surgery for eso-Duane DE. Cioplean, G. Birlea, M. Dragomir, Romania	217
Rosenbaum transposition for Duane's syndrome AJ. Cossari, USA	221
Symposium: 2011 evidence update. Strategies and uncertainties in management	
Amblyopia treatment perspectives B. Stankovic, Serbia	227
Review of recent evidence on management of patients with intermittent exotropia J. Sloper, UK	231
Review of the evidence for surgery in patients with nystagmus J. Sloped, UK	235
Posters	
Preliminary results of treatment efficiency of disbinocular amblyopia with eccentric fixation with prism correction S. Rykov, M. Shevkolenko, V. Mellina, Belarus	241
The effect of myopic laser keratorefractive surgery on exotropia A. Farahi, H. Hashemi, S. Tavakolizadeh, Iran	245
Near compared with distance visual acuity in amblyopic eyes MX. Repka, A. Christoff, B. Kaminski, JM. Holmes, PEDIG Group, USA	249
The dilemma about retinal changes in amblyopia RL. Lolova, NK. Surlekova, Bulgaria	253
Unilateral amblyopia: comparison of time and spectral domain optical coherence tomography in assessing macular and retinal nerve fiber layer thickness S. Petroni, V. Perrotta, R. Parrila, S. Aliberti, A. Salerni, G. Savino, L. Balia, C. Rodini, A. Dichmann, Italy	257
The change of quality of life in adults after surgical correction of strabismus JB. Lee, SA. Chung, SH. Han, S. Rhia, Republic of Korea	261
A wider applicability of the screening refractometer Plusoptix: a Russian experience IL/ Plisov, Russia	265
Surgical treatment of partially accommodative esotropia after LASIK surgery – case presentation M. Ljutica, V. Regoda, B. Stankov, D. Bubalo, M. Jankov, J. Rebic-Jelic, Serbia and Bosnia and Hercegovima	269
Premature infants with or without ROP treatment: refractive errors and presence of strabismus J. Rebic-Jelic, M. Ljutica, A. Oroz, B. Stankov, Serbia	273
Double – a case report L. Lindverg, Finland	277
Amblyopia children and electrophysiological assessment M. Jarc-Vidmar, J. Rahne, M. Sustar, J. Breclj, D. Kosec, Slovenia	279
Clinical peculiarities of accommodative esotropia A. Senyakina, N. Bushyeva, S. Martynyuk, Ukraine	283
Synkinesis in ocular motility ESM. Toukhi, Egypt	287

Standardising reported outcomes of surgery for intermittent exotropia – squaring the circle?	291
AKC. Chiu, N. Din, N. Ali, UK	
Electronic baropodometry in patients affected by ocular torticollis	295
G. Bellizzi, M. Bellizzi, Italy	
Results of extraocular muscle electrostimulation in concomitant strabismus treatment	299
IM. Bolchuk, TM. Serebrina, VP. Mazur, Ukraine	
Ocular abnormalities in patients with Down syndrome	303
T. Huseynova, S. Akar, B. Gokyigit, OF. Yilmaz, Azerbaijan and Turkey	
Dose effect in advancement of medial rectus muscle for consecutive exotropia	307
WY. Ryu, YA Cho, Republic of Korea	
Surgical outcomes in intermittent exotropia with a deviation angle of 20PD	311
MMK. Kim, MJC. Cho, Republic of Korea.	
Consecutive exotropia	313
R. Seldon, F. Almeida, A. Vide Escada, G. Varandos, ML. Vieira, Portugal	
Principal phenomena of abnormal binocular vision and retinal correspondence in patients with concomitant strabismus; their frequency and dependence on method of investigation	317
TP. Kashchenko, Russia	
Binocular symptoms during tridimensional technology movies display in absence of known binocular pathology	321
A. Yalverde-Megias, P. Toro-Utrero, R. Martinez-Chico, F. Fernandez-Tresguerres, A. Redondo, E. Diaz, R. Gomez-de-Liano, Spain	
Can patients with strabismus see 3D movies?	323
A. Yalverde-Megias, R. Martinez-Chico, P. Toro-Utrero, L. Palmero-Fernandez, F. Fernandez-Tresguerres, E. Maillo, R. Gomez-de-Liano, Spain	
Recurrent idiopathic orbital inflammatory disease	327
AY. Firth, UK	
Ophthalmoplegic migraine: case report	329
U. Procoli, G. Rizzo, C. Shorgia, Italy	
Strabismus in premature infants: prevalence and associated factors	333
S. Gamio, MV. Sors, M. Brassa, Argentina	
Contra lateral superior oblique posterior tenotomy (SPOT): a primary treatment for diplopia in down gaze following blowout fracture	337
AO. Garrick, G. Hewitt, J. Durnian, IB. Marsh, UK	
Anterior and nasal transposition of the inferior oblique muscle: indications and surgical outcomes	341
S. Gamio, Argentina	
Ophthalmic findings in syndromic and nonsyndromic craniosynostosis	345
L. Balia, S. Aliberti, G. Savino, R. Parrilla, V. Perrotta, S. Petroni, P. Sarmiento, A. Salerni, A. Dickmann, Italy	
Vergence accommodation synkinesis during far and near holograms fixation	349
M. Dostalek, P. Betlachova, T. Jindra, J. Dusek, J. Keprt, P. Fiala, M. Skeren, Czech Republic	
Case report: marked esotropia following unilateral inferior oblique anterior transposition	353
AC. Fragkou, P. Mortzos, AM. Ansons, UK	
Congenital IV cranial nerve palsy: characteristics and management	357
E. Jarrin, FJ. Hurtado, L. Cabrejas, JJ. Gonzalez-Lopez, A. Koutsoulidis, JM. Rodriguez-Sanchez, Spain	
Silent sinus syndrome and eye motility disorders	359
E. de Jongh, MJH. Tjon-Fo-Sang, JTHN. De Faber, D. Paridaens, The Netherlands	
Anterior segment ischemia after strabismus surgery: a case report	363
I. Lequeu, C. Gobin, Belgium	
A new suspension recession technique in strabismus surgery	365
ESM. Toukhi, Egypt	
Hypertropia following eyelid surgery: a case of superior oblique tendon damage	367
GB. Marcon, R. Pittino, EC. Campos, Italy	

Bilateral asymmetrical inferior rectus recession in a Grave's orbitopathy patient	371
HM. Jellema, CF. Merckel-Timmer, P. Saeed, The Netherlands	
Thyroid-associated ophthalmopathy (TAO): ocular motility and angle deviation	373
modifications in relation to different therapeutic approaches	
G. Savino, S. Aliberti, R. Parrilla, V. Perrotta, L. Balia, R. Ghiraldelli, A. Dickmann, Italy	
Management of residual diplopia after reconstructive surgery for orbital fractures	377
P. Loba, O. Nowakowska, A. Broniarczyk-Loba, Poland	
A case of postoperative apnea associated with topical brimonidine application in	381
strabismus surgery	
H. Basmak, H. Gursoy, Turkey	
Traumatic transaction of the lateral rectus muscle with chorioretinitis sclopetaria	383
KA. Mackenzie, SA. Dotchin, DH. Verity, PM, Sullivan, MN. Ali, UK	
Factors influencing the outcome of eye muscle surgery in exotropia	387
M. van Waveren, F. Schuettauf, C. Engel, D. Besch, Germany	
Nasal periosteal fixation in cases of complete limitation of adduction	391
A. Valverde-Megias, F. Fernandez-Tresguerres, L. Palmero-Fernandez, R. Gomez de Liano, JA. Troyano-Rivas, A. Romo-Lopez, Spain	
Retrieval of lost medial rectus muscles without orbital approach	395
HI. Altinsoy, OM. Ceylan, G. Gokce, FM. Mutlu, Turkey	
Management of consecutive exotropia	399
H. Gursoy, H. Basmak, Y. Aydin, Turkey	
Cyclic esotropia in a monocular patient with myopia and pigmentary glaucoma	401
S. Popovic, D. Sokic, V. Markovic, I. Marjanovic, N. Milic, B. Stankovic, Serbia	
Modification of pulleys position after surgery of medial rectus	403
DA. Thouvenin, O. Norbert, E. Chapotot, France	
Is there any improvement in sensory and motor functions after surgery in neurologically	407
impaired children?	
S. Ziylan, D. Oral, E. Gorgun, RB. Kucumen, F. Ciftci, Turkey	
A case for Hickam's dictum? Complex ophthalmoplegia with several possible causes	411
H. Armstrong, R. Gokani, C. Loong, H. Manji, F. Bremner, UK	
Chronic progressive external ophthalmoplegia, congenital fibrosis of extraocular	415
muscles and ocular myasthenia: retrospective analysis	
G. Savino, S. Petroni, R. Baltendieri, MT. Rebecchi, D. Colucci, R. Mattei, A. Dickmann, Italy	
An unusual case of bilateral Brown's syndrome	419
HT. Sekeroglu, P. Turkcuoglu, AS. Sanac, EC. Sener, Turkey	
Our experience with surgical treatment of large angle esotropia	423
I. Mravicic, N. Gabric, I. Dekaris, V. Glavota, Croatia	
Consecutive exotropia after bilateral medial rectus recession in type I Duane's retraction	427
syndrome	
H. Basmak, H. Gursoy, Y. Yaz, Turkey	
Rare cases of congenital cranial nerve palsies with long-term follow-up	429
A. Soproni, P. Domsa, Hungary	
Botulinum toxin in the treatment of early onset esotropia in children with cerebral palsy	433
K. Oyewole, H. Petrushkin, S. Jain, UK	
Combined medial rectus recession and Fadenoperation for treatment of large angled	437
esotropia with eccentric fixation	
B. Gokyigit, S. Akar, OF. Yilmaz, Turkey	
Ten-year long term results of botulinum toxin injection in congenital esotropia	441
J. Tejedor, M. Perez-Lopez, M. Leal, JM. Rodriguez, Spain	
Orbital paraganglioma presenting as lateral rectus enlargement and its novel	445
management	
A. Bagheri, M. Aletaha, H. Salour, A. Abdollahi, Iran	
Retrobulbar Xeomin therapy for acquired vertical nystagmus	449
IL. Phsov, VV. Atamanov, Russia	

**Transactions 35th European Strabismological Association. Bucharest, Romania
September 2012**

ESA lectures	19
ESA lecture: Adventures of a strabismologist J-THN de Faber, The Netherlands	21
Session 1: Amblyopia, screening and visual function Group training: a solution to improve compliance and efficiency in amblyopia treatment CG Vladutiu, SA Sevan, I Duma, Romania	35
Session 2: Neuro-ophthalmology and the visual function Profile of gaze dysfunction following cerebro-vascular accident F Rowe, VIS Group, UK	41
Deficits in eye-hand coordination in children with strabismus and amblyopia change with age JJ Sloper, C Suttle, M Conway, D Melmoth, S Grant, UK	45
Round table: Surgery for inferior oblique overaction/ superior oblique palsy – different approaches leading to the same goal Intraoperative adjustment for oblique surgery under general or topical anaesthesia V Paris, Belgium	51
Session 3: Particular types of strabismus Diagnosis by magnetic resonance imaging of the CREOM P Merino, P Gomez de Liano, H Fukumitsu, G Franco, Y Ruiz, Spain	57
MR imaging in strabismology: technique, indications and results A Roth, EA Cabanis, M-T Iba-Zizen, Switzerland and France	61
Type IV Duane syndrome DT Sprunger, EM Helveston, DE Cioplean, LA Teodorescu, USA and Romania	65
Is there a new entity of strabismus in myopic patients? B Marcon, R Pittino, N Martini, G Muner, Italy	69
Symposium: Imaging in strabismus surgery Imaging in superior oblique palsy M Sato, Japan	75
Clinical and image correlation in thyroid strabismus C Bok-Beaube, O Galatoire, S Moraz, F Heran, France	81
Contribution of MRI to the study of strabismus in the highly myopic patient	85
P Gomez de Liano, P Merino, G Franco, J Guzman de Villoria, P Fernandez, Spain	
Imaging in consecutive exotropia T Negishi, Japan	91
Session 4: Strabismus surgery. Part 1 Effectiveness of strabismus surgery in patients with amblyopia M Goberville, MS Leite Nguyen, V Sebag, A Kostas, France	99
Severe complications of strabismus surgery	103

JA Bradbury, RH Taylor, UK	
Reoperations in Duane retraction syndrome: intraoperative findings and postoperative results	107
A Ciubotaru, LG Popescu, D Mircea, Romania	
Risk factors for reoperation in infantile esotropia	111
R Friling, S Fertig, I Maharshak, E Reich, I Sherf, Y Ron, M Snir, Israel	
Topical anaesthesia in strabismus re-operation: a case series	119
A Farahi, S Tavakolizadeh, S Mehravaran, Iran	
The natural course of anterior segment ischaemia after disinsertion of extraocular rectus muscles in an animal model	123
A Bagheri, M Tavakoli, P Torbati, M Mirdehghan, M Yaseri, O Safarian, Iran	
Early morning orthoptic course: The eye in focus – Accommodation and vergence and dynamic anomalies	
Accommodative and vergence anomalies	129
A Rydberg, Sweden	
Vertical vergence adaptation	133
MG Stephenson, UK	
Convergence-accommodation beats accommodative convergence	137
AM Horwood, PM Riddell, SS Toor, UK	
Session 5: Binocular vision	
Binocular vision in chronic fatigue syndrome	145
D Godts, Belgium	
Dichoptic contrast masking during relative convergence training	149
M Dostalek, P Betlachova, R Autrata, Czech Republic	
Stereoacuity in prism-induced divergence stress	153
H Davis, M Bibi, UK	
Round table discussion: Management of intermittent exotropia	159
Session 6: Strabismus assessment and binocular vision	
Objective analysis of the mechanism of vertical fusional vergence to classify congenital superior oblique palsy and guide surgical approach	179
K Irsch, DL Guyton, HS Ying, USA	
MP4 player attached to the forehead for strabismus assessment	185
S Hajjo, Syria	
How far can we trust the cover test?	189
V Paris, Belgium	
Early morning course: IIIrd nerve palsy	
Neuroimaging in third nerve palsy	197
GB Marcon, R Pittino, Italy	
Synkinesis in IIIrd nerve palsy	203
AC Spielmann, France	
Problems and solutions in surgical treatment of third nerve palsy	207
SB Ozkan, Turkey	
Transposition surgery for third nerve palsy	209
M Graf, B Lorenz, Germany	
Session 7: Strabismus surgery, part 2	

An effective modification of rectus muscle plication surgery technique B Gokyigit, S Akar, ED Aygit, A Demirok, Turkey	215
Bimedial rectus recession with posterior fixation suture (BMRF) for large infantile esotropia M Graf, T Gerlach, O Getmann, B Lorenz, Germany	219
Transposition surgery for the treatment of paralytic exotropia C Schiavi, Italy	225
Effectiveness of split lateral rectus transpositions in medial rectus area in complete 3 rd cranial nerve palsy and mis-innervation syndrome B Gokyigit, S Akar, ED Aygit, A Demirok, Turkey	229
Session 8: Strabismus overview	
20 year follow-up study on adult strabismus surgery R Gomez-de-Liano, I Rodriguez Una, E Diaz-Isabel, M Ibartz, Spain	235
The association of retinopathy of prematurity stage with strabismus, its management and refraction H Gursoy, H Basmak, B Bilgin, N Erol, Turkey	239
Recruitment issues in a pilot RCT of surgery for intermittent exotropia JJ Sloper, P Tiffin, R Taylor, K MacKenzie, CJ Powell, D Buck, V Hogan, MP Clarke, UK	245
Session 9: Vertical strabismus	
Differences in surgical management of symmetric and asymmetric dissociated vertical deviation S Gamio, Argentina	249
Symposium: Re-operations in strabismus surgery	
Coming back on a medial rectus with a posterior fixation DA Thouvenin, France	255
Re-operation for residual dissociated vertical deviation (DVD) LA Theodorescu, Romania	259
Re-operation for lost medial rectus after multiple surgeries for strabismus DE Cioplean, Romania	263
Vicious scarring after multiple strabismus surgery SB Ozkan, Turkey	267
Posters	
Treatment of amblyopia: development of visual acuity by stair-case method L Sabetti, D Lodovico, S Argentieri, S Costanzi, Italy	273
Binocular triplopia induced by occlusion therapy – case report C Serfozo, A Soproni, Hungary	277
Visual acuity and contrast sensitivity improvement in cases of congenital nystagmus using NeuroVision™ (RevitalVision LLC) Technology: a retrospective multinational multicentre case series OW Lior, H Lichter, S Levinger, Y Morad, Israel	279
Myelinated nerve fibres combined with high myopia and amblyopia B Kaczmarek, Poland	283
The peculiarities of treatment of strabismus and amblyopia in children with disorders of neuropsychofunctional state V Serdiuchenko, Y Galpert, I Kuzhda, Ukraine	285
Comparison of the iScreen photoscreener to the MTI photoscreener for the	289

detection of amblyopia risk factors in children	
NS Matta, DI Silbert, RW Arnold, USA	
Can the plusoptiX replace the need for a cycloplegic examination in select pediatric ophthalmology patients?	295
DI Silbert, NS Matta, K Anderson, USA	
Ocular motility behaviour and refractive resemblance in identical twins	299
B Gokyigit, ED Aygit, S Akar, Turkey	
Postnatal refractogenesis in children with congenital concomitant non-accommodative esotropia (CCNE)	303
S Rykov, A Senyakina, M Shevlenko, Ukraine	
Superficial electromyography in children with concomitant squint	307
IM Boichuk, VP Mazur, Ukraine	
A new conjunctival incision for strabismus surgery	311
S Hajjo, Syria	
Postoperative treatment in uneventful strabismus surgery follow-up in children under 14 years: optimal treatment vs dosage	315
M Serrador, E Hernandez, A Valverde, R Gomez-de-Liano, Spain	
Anterior segment ischemia – a case report	317
P Toivonen, Finland	
The change of accommodational ability influencing asthenopia with viewing 3D display	321
S Wee, N Moon, Republic of Korea	
Binocular vision following refractive surgery in anisometropic patients	325
E Hernandez Garcia, B Martin Garcia, R Gonzalez Jimenez, R Gomez de Liano Sanchez, A Arias Puente, Spain	
Eye appearance and detection of exotropia in children with intermittent exotropia	327
S Rhiu, SA Chung, K Lee, JB Lee, Republic of Korea	
Tropicamid 0.2% for treating exotropia	331
S Hajjo, Syria	
Strabismus distribution among the patients in a Sofia eye clinic	335
RH Lolova, Bulgaria	
The results of the surgical treatment of strabismus in children with cerebral palsy	339
V Serdiuchenko, Y Galpert, Ukraine	
Comparison of the surgical response to medial rectus recession in esotropes with and without cerebral palsy	343
J-M Hwang, DJ Ma, HK Yang, Republic of Korea	
Outcome of strabismus correction by botox injection: Dharan Eye Specialist Hospital	347
LH Jeddawi, G Ramadan, Kingdom of Saudi Arabia	
Transposition surgery for damage of abducens nerve: optimal strabismological portrait of patients to get the best outcome	351
IL Plisov, Russia	
Anterior and nasal transposition of the inferior obliques in Crouzon syndrome	355
A Dickmann, S Petroni, C Tredici, A Agresta, Italy	
Unilateral enophthalmos with restricted ocular motility and shortening of the optic nerve. A case report	359
OH Haugen, J Krakenes, Norway	
Iatrogenic cyclotorsional diplopia in acquired traumatic bilateral third nerve palsy: How can we manage it?	363
AC Piantanida, G Falcicchio, C de Conciliis, Italy	
Iatrogenic exotropia after endoscopic sinus surgery: a case report	369

M Dragomir, DE Cioplean, Romania	
Whiplash injury and diplopia	373
I Perez-Flores, Spain	
Relationship between posture and strabismus	377
L Sabetti, S Argentieri, F Bianchi, A Berarducci, Italy and UK	
A case of inferior oblique paresis: clinical features and surgical treatment	381
G Birlea, DE Cioplean, Romania	
Surgical treatment in Brown syndrome. Good results using silicon expander	385
CG Vladutiu, SA Sevan, I Duma, O Rusu, Romania	

**Transactions 36th European Strabismological Association. Marseilles, France
September 2013**

ESA lecture introduction A Roth	21
ESA lecture: Reporting on the deviation A Pechereau	23
Session 1: Amblyopia, screening and visual function	
Amblyopia treatment study 1: long-term follow-up results at age 15 years. MX Repka, R Kraker, JM Holmes, PEDIG, USA	35
Effects of Bangarter filters on the visual field in visually normal adults: comparison between white-on-white perimetry and frequency-doubling- technology perimetry results C Schiavi, M Cellini, F Tassi, Italy	39
Preservation of visual acuity after amblyopia therapy CG Vladutiu, O Teodorescu, SA Sevan, Romania	43
Strabismus and stereopsis at 30 months corrected age of a Swedish cohort of extremely preterm children, born before 27 weeks of gestation G Holmstrom, K Kallen, A Hellstrom, P Jakobsson, F Serenius, K Stjernqvist, K Tornqvist, Sweden	47
Session 2: Binocular vision	
Binocular coordination of saccades during reading in strabismic children E Bui-Quoc, C Lyons, M Seassau, MP Bucci, France	51
Testing the prism fusion range H Davis, ME Rhodes, J Hoole, UK	55
Comparison of the INNOVA visual acuity system with the Frisby-Davis 2 for the evaluation of distance stereoacuity NS Matta, EL Singman, J Tian, DI Silbert, USA	59
ModJoined Frisby-Davis stereo test (FD2) for showing textures sensitive to blur JP Frisby, J McCarthy, H Davis, UK	63
Real stereopsis test using 3-dimensional display with Tridef software J Han, JH Kim, J Kim, SK Lee, JB Lee, SH Han, Korea	67
Symposium ESA-AFSOP	
Anaesthesia for strabismus surgery F Audren, France	71
Eye position under general anaesthesia A Pechereau, P Lebranchu, C Turpin, G Le Meur, France	75
The difference of muscle tension in antagonistic muscle pairs and its contribution to the surgical decision A Roth, Switzerland	81
Consequences of examination of strabismus under sedation on surgical procedure DA Thouvenin, France	87
Session 3: exo deviations	
Characterising patients with age-related divergence insufficiency esotropia MX Repka, E Downing, USA	95
Surgical outcome in patients with consecutive exotropia	99

CF Merckel-Timmer, HM Jellema, The Netherlands

Session 4: vertical strabismus

Orthoptic and epidemiologic data in congenital sursoadduction and
dorsoadduction - discussing pathogenesis and relations to classes of infantile
esotropia 105

A Neugebauer, N Krenkel, B Roggenkamper, C Schmitz, A Hedergott, J Fricke,
Germany

The bilateral inferior oblique muscle anterior transposition and its efficiency in
obtaining the vertical alignment of esotropia accompanied by bilateral dissociated
vertical deviation and bilateral inferior oblique overaction 109

DE Cioplean, G Birlea, Romania

The results of anterior transposition of the inferior oblique: anterior fibres sutured
to sclera versus bunch-up technique 113

LA Teodorescu, IA Velcea, Romania

Superior oblique muscle recession in the treatment of A-pattern 117

D Abokwidir, A Bickmann, G Rudolph, O Ehrt, Germany

Symposium: different techniques of measurement of cyclodeviation 123

How do I measure cyclodeviation?

M Sato, Japan

Early course: management of nystagmus

Congenital and acquired nystagmus in childhood 129

O Ehrt, Germany

Non-surgical treatment of nystagmus 133

D Godts, Belgium

Surgical treatment of nystagmus without head turn or without consistent head
turn 137

AC Spielmann, France

Session 5: restrictive strabismus

Evaluation of prognostic factors after single-stage adjustable strabismus surgery
in thyroid eye disease 143

S Rhiu, SY Han, SA Chung, JB Lee, Korea

Session 6: paralytic strabismus

Congenital downgaze palsy 149

AC Spielmann, France

A new surgical treatment for monocular elevation deficiency with new
understanding of the accompanying ptosis 153

S Hajjo, Syria

An addition to and modification of Kaufmann's protocol for patients with 3rd
nerve palsy 161

I Aznauryan, V Balasanyan, N Martini, G Muner, Italy

ESA orthoptic course: evidence base for orthoptic investigations

Evidence base for orthoptic investigations 167

F Rowe, UK

Amblyopia treatment in older children and teenagers 169

D Godts, Belgium

Session 7: strabismus surgery I	
When may variation in deviations of strabismus be considered as real change?	175
E de Jongh, C Leach, MJ Tjon-Fo-Sang, A Bjerre, The Netherlands and UK	
Accommodation in children under general anaesthesia	179
DJ Salchow, I Marcus, TJ Golembeski, X Wang, F Li, Germany and USA	
Short, intermediate and long term efficacy of fadenoperation	187
O Fakhoury, A Aziz, B Donnadieu, D Daniel, France	
Session 8: strabismus surgery II	
Results after tucking the anterior portion of the superior oblique muscle	193
N Hoeckele, PF Kaeser, G Klainguri, Switzerland	
Simultaneous superior oblique tuck and contralateral Harada-Ito procedure in the management of bilateral asymmetrical superior oblique palsies	199
L Barker, J Sloper, UK	
Session 9: strabismus surgery III	
Long term results of deeper muscle fibres recession of inferior rectus operation	205
B Gokyigit, S Akar, P Kaynak, A Demirok, Turkey	
Comparison of four augmented recession techniques	211
B Gokyigit, S Akar, ED Aygit, A Demirok, Turkey	
Does inferior oblique weakening affect horizontal alignment in primary position?	215
A Ferdi, A Jones, A Maino, S Jain, UK	
Interest of adjustable surgery of vertical recti in IVth nerve palsies. About an 89 cases review	219
DA Thouvenin, C Lesage, O Norbert, S Nogue, France	
Efficiency of adjustable medial rectus recession associated to a loop myopexy between superior and lateral recti in the treatment of strabismus in high myopic patients	223
DA Thouvenin, V Soler, France	
Difficult case presentation	
A rare complication of a common procedure	229
JA Bradbury	
Session 10: varia	
Incidence of strabismus in preverbal children with hyperopia previously diagnosed with pseudoesotropia	233
DI Silbert, A Silbert, NS Matta, USA	
Symposium: 2013 evidence update	
Adjustable strabismus surgery in children	239
I Marsh, UK	
Management of convergence excess esotropia	241
GB Marcon, Italy	
Posters	
Ten years of visual screening in Belgium	247
T Sayer, MC Murray, M Cordonnier, Belgium	
Can optometrists manage children failing vision screening?	251
C Penrose, L Crawford, UK	

Light sensitivity of retina in children with amblyopia of various degree	255
TP Kashchenko, GF Kachalina, EG Antonova, EK Pedanova, MA Kashchenko, MD Magaromova, Russia	
Treatment of amblyopia in children with strabismus using the P Chaumont liquid-crystal spectacles in phase-time presentation of images	259
I Rabichev, TP Kashchenko, T Korniyushina, P Ratmanova, Russia	
Morphometric indices of retina and optic nerve in children with strabismic amblyopia in dependence of monocular fixation	263
IM Boichuk, OI Yschnica, Ukraine	
Orthoptic red-green tests and dyschromatopsia	267
B Rousseau, France	
The Krats-Roussesu paddle (KR): a new fixation target test	271
B Rousseau, C Bangil, T Parola, France	
Disturbances of pupillary reactions in patients with accommodative esotropia	273
A Senyakina, N Bushnuyeva, S Martynyuk, Ukraine	
Can my child appreciate a 3d movie?	279
M Tjon-Fo-Sang, W Duifhuizen-Visscher, D Goes, MF Brouwer, JTHN de Faber, R Van Ruyven, The Netherlands	
The effect of convergence and divergence stress on near stereoacuity	283
ED Biler, SG Yilmaz, E Kucukceran, O Uretmen, Turkey	
Efficiency of binocular fusion under relative vergence stress	287
M Dostalek, M Duchackova, J Hejda, K Flkegel, T Lukes, J Hozman, R Autrata, Czech Republic	
Variability of the angle squint in innervational esotropia: a simple old forgotten method to manage it	291
TA Piantanida, M Spera, R Nobili, G Falciccio, D Allegrini, Italy	
Accommodative amplitude in intermittent exotropia	295
J Tejedor, FJ Gutierrez, Spain	
The case of acute strabismus (esotropia) and diplopia, provoked by severe neurogenic accommodative spasm in a child	299
I Kuzhda, O Pityk, Ukraine	
Interest of decompensation tests in divergent strabismus: pre- and intra-operative tests	303
M Santallier, Y Nochez, A Alhaji, S Arsene, France	
Long term follow up of a case of esotropia with convergence excess	307
E-SM Eltoukhi, Egypt	
Acute acquired comitant exotropia in a child with a brain tumour. Case report	311
H Cohen, France	
The results of treatment of concomitant squint with small angles of deviation	315
V Serdiuchenko, I Kuzhda, Ukraine	
Peculiarities of oculomotor disturbances in children with cerebral palsy	319
Y Galpert, V Serdiuchenko, E Bedarev, Ukraine	
A novel case of superior rectus injury and its subsequent surgery	323
A Javed, V Wong, J Young, J Durnian, UK	
Epidemiology of superior oblique palsies - a retrospective consecutive case series of 345 patients	327
S Petroni, G Savino, R Battendieri, G Corbo, A Salemi, A Dickmann, Italy	
Main characteristics of v-pattern strabismus at a tertiary hospital	331
AV Escada, R Seldon, G Varandas, I Dias, ML Vieira, Portugal	
Repeated isolated third nerve palsy in children - apropos one case	337
J Alajbegovic-Halimic, D Zvizdic, M Calendar, Bosnia and Herzegovina	

Modified fadenoperation technique for the treatment of esotropia	341
AC Vale, A Figueiredo, V Miranda, R Parreira, P Meneres, M Barca, Portugal	
Cranial nerve 3rd palsies in childhood	345
B Gokyigit, S Akbar, BY Satana, ED Aygit, A Demirok, OF Yilmaz, Turkey	
The marginal myotomy of the inferior oblique muscle at the n. trochlearis	349
damage - revised	
Ophthalmological outcome after reconstructive surgery for isolated orbital	353
fractures with various types of implants	
Up-shoot and down-shoot in Duane's retraction syndrome	355
E-SM Eltoukhi, Egypt	
Congenital unilateral ocular fibrosis syndrome secondary to nasal	359
chondromesenchymal hamartoma	
L Vera, T van den Abbeele, M Elmaleh, E Bui-Quoc, France	
Treatment of heavy eye syndrome by modified muscle union procedure with	363
scleral myopexy 15mm posterior to insertions	
B Stankovic, D Risovic, A Stankovic, S Popovic, M Knezevic, G Cuturiol,	
P Heniova Sencanic, I Marjanovic, M Stojkovic, Z Nedeljkovic, M Jovanovic,	
Serbia	
Results of unilateral Anderson-Kestenbaum operation with jerky nystagmus and	367
squint	
S Rykov, A Senyakina, M Shevkolenko, K Korobov, Ukraine	
Modification of surgical plan of strabismus surgery under anaesthesia	371
C Speeg-Schatz, A Sauer, P Burgun, E Calache, A Roth, Switzerland	
Efficacy of graded recession in bilateral asymmetric inferior oblique overaction	375
ED Biler, K Gog, O Uretmen, Turkey	
Combined surgery strabismus and congenital Ptosis	379
D Bremond-Gignac, France	
The effects of topical carbonic anhydrase inhibitor for treatment of nystagmus	381
ED Aygit, B Gogyigit, Turkey	
Intermittent divergent strabismus revealing a sensory strabismus in a 23 month	385
old child	
E Bui-Quoc, France	
Ophthalmological manifestations in children with Fabry disease in the Fabry	389
Outcome Survey	
S Pitz, G Kalkum, G Pintos-Morell, R Parini, M Rohrbach, M Beck, S Larroque, U	
Ramaswami, Germany, Spain, Italy, Switzerland, UK	
Superior oblique myokymia: About 5 cases	393
R Dufrane, M Cordonnier, Belgium	
Spatial visual cognition in 2.5 year old prematurely born children	397
J Hreinsdottir, H Ornkloo, C von Hofsten, KS Brodd, U Ewald, G Holmstrom,	
Sweden	
Quality of life reported in a randomized controlled trial of surgery against	399
monitoring in childhood intermittent exotropia: a pilot study	
CJ Powell, D Buck, V Hogan, S Jones, JJ Sloper, R Taylor, P Tiffin, MP Clarke,	
UK	
Low vision in private practice	401
C Sevestre, France	
Evaluation of extraocular muscle tension	405
D Bremond-Gignac, France	
Objective comparison between PlusoptiX and auto-refractometry	407
CG Vladutin, O Teodorescu, SA Sevan, Romania	

Rare eye movement disorder in early childhood – case report S Serfozo, A Soproni, A Musicz, T Niederland, Hungary	411
Surface electromyography in children with and without esotropia I Boychuk, VP Mazur, Ukraine	415
Imaging in strabismus (using anterior segment OCT) R Grover, India	419
Pseudoamblyopia and exocyclodeviation A Frattolillo, C Schiavi, Italy	421
Study of treatment of amblyopia in patients with congenital glaucoma E Hernandez Garcia, BD Gordo, LM Fernandez, R Gomez de Liano Sanchez, JG Feijoo, Spain	423
Comparison of the binocular stereoacuity measured by the TNO stereotest versus the Frisby stereotest near (FSN) in healthy adult subjects. A prospective, monocentric, non-controlled, non-randomised and open study. M Fauveua, B Rousseau, P Crepy, France	425
Strabismus and diplopia revealing rhabdomyosarcoma in a 7-year old girl A Aziz, O Fakhoury, R Sekfali, C Coze, D Denis, France	431
Nasal superior oblique tendon replaced by fat tissue in a patient with congenital superior oblique palsy and ipsilateral absence of the trochlear nerve OH Haugen, L Nepstad, J Krakenes, Norway	435
Surgical results of simultaneous surgery of inferior oblique muscle and superior oblique muscle on congenital superior oblique palsy M Sacki, A Hikoya, M Sawada, Y Harada, Y Hotta, M Sato, Japan	439
Influence of fixation distance on postural control of strabismic patients A Dickmann, C Tredici, S Petroni, A Agresta, C Simbolotti, R Parilla, I Aprile, Italy	443

**Transactions 37th European Strabismological Association. Venice, Italy
October 2015**

Table of contents	
Presidents Foreword	11
Preface by the Editor	13
Executive Committee of ESA 2015	15
ESA Venice Organisation Meeting	17
ESA Lectures	19
ESA Lecture 2015:	
How do the extraocular muscles contribute to concomitant strabismus ?	
Do they play an active or passive role in the deviation?	21
<i>Costantino Schiavi, Italy</i>	
Symposium: Amblyopia update	
Overview of current treatments	31
<i>F. Audren, France</i>	
What have I learnt from PEDIG	35
<i>B. Stancovic, Serbia</i>	
Amblyopia and Binocular Function	41
<i>J. Sloper, UK</i>	
Amblyopia: new treatment methods	45
<i>J. M. Holmes, USA</i>	
Symposium : Evidence Update- A Personal Perspective-	
How My practice has changed recently	
Intermittent Exotropia	51
<i>K. Romanchuk, Canada</i>	
Early Course: Surgical Procedures	
Medial canthal fixation for 3 rd nerve palsies	57
<i>GGW Adams, UK</i>	
Combined Recession and Resection for Convergence Excess Esotropia	61
<i>I.B. Marsh, UK</i>	
Posterior Fixation and Recession of a Rectus Muscle	65
<i>D. Thouvenin, France</i>	
ESA Orthoptic Session: Type of Strabismus and Contributing Factors	
Type of strabismus and changes to fusion measures	73
<i>C. Lança, Portugal</i>	
Free Papers Session 1: Amblyopia and Screening	
Systematic reviews of interventions relevant to strabismus	79
<i>F.J. Rowe, S. Elliott, I. Gordon, A. Shah, UK</i>	
Long term follow-up of Strabismic Amblyopia	83
<i>AC Vale, T Borges, AC Abreu, V Miranda, R Parreira, P Meneres, Portugal</i>	
Refractive Amblyopia: Long-term visual outcome	87
<i>AC Abreu, C Vale, V Lages, J Coelho, V Miranda, R Parreira, P Meneres, Portugal</i>	
Adult Amblyopia Treatment by REVITALVISION	91
<i>D. E. Cioplean, V.I. Pruna, Romania</i>	
The Danish Rural Eye Study: The Association of Preschool Vision Screening on the Prevalence of Amblyopia	95
<i>T. B. Høeg, B. Moldow, C. Ellervik, K. Klemp, D. Erngaard, M. La Cour, H. Buch Hesgaard, Denmark</i>	
Free papers Session 2 : Stereo and Binocular Function	
A Comparison of Stereoacuity Tests in Clinical Practice	101

<i>H. Davis, M.J. Rhodes, J. Drury, UK</i>	
TNO stereo-test for the diagnosis of microesotropia in children: a statistical analysis.	105
AC Piantanida, M Spera, R Nobili, Italy	
Normal accommodative amplitude value in paediatric patients	109
AC Piantanida, M Spera, R Nobili, Italy	
Is the onset of accommodative esotropia in toddlers related to natural increases in response to blur?	113
<i>A. M. Horwood, S.S. Toor, P.M. Riddell, UK</i>	
What should we expect from monocular accommodation?	117
<i>A. M. Horwood, UK</i>	
Free papers session 3 : Exotropia and Cyclovertical	
Divergence Excess Intermittent Exotropia: Bilateral Lateral Rectus Recession at 15 years Follow-up.	123
<i>E Chiariello Vecchio, R Carelli, P Esposito Veneruso, G Esposito, L Rombetto, A. Magli, Italy</i>	
The Evaluation of Potential Risk Factors in The Development of Consecutive Exotropia.	127
<i>C. G. Vladutiu, O. Teodosescu, R.M. Lasca, Romania</i>	
Superior Oblique Myokymia and Oculomotor Nerve Palsy with Cyclicspasms: a similar pathogenesis?	131
<i>N. Gravier, France</i>	
The effect of inferior oblique muscle recession in cranial nerve IV paralysis: does it change according to MR Imaging?	135
<i>G.B. Marcon, R. Pittino, N.Martini, Italy</i>	
Essential Infantile Esotropia with Inferior Oblique Hyperfunction and Lateral Recti Pseudoparalysis: Long Term follow-up of 6 muscles approach	141
<i>R Carelli, E Chiariello Vecchio, E Esposito, L Rombetto, P Esposito Veneruso, A.Magli, Italy</i>	
A New Approach of Inferior Oblique Over Action (IOOA) without Cyclotorsion	145
<i>B.Gokyigit, S. Akar, E.D. Aygit, Z.Alkin, O.B.Ocak, Turkey</i>	
Free Papers Session 4: Surgery I	
Brown Syndrome Outcomes: Analysis of Cases over 40 years.	151
<i>S.A. Larson, L.K. McConnell, M.C. Weed, USA</i>	
“High-dosage” Anderson procedure for correction of nystagmus associated head-turn.	155
<i>M. Gräf, B. Lorenz, Germany</i>	
Simple efficient surgery for complicate forms of overcorrection.	159
<i>V. Paris, Belgium</i>	
Free Papers Session 5: Varia I	
Effect of photorefractive keratectomy on nystagmus and visual functions in myopic patients with infantile nystagmus syndrome.	165
<i>A Bagheri, H Abbasi, M Tavakoli, A Baradaran-Rafii, S Yazdani, Iran</i>	
Gait analysis in congenital or early onset strabismus: pre- and post- surgery Evaluation	171
<i>A. Dickmann, D. Pantalone, E.Di Sipio, C.Tredici, A.Agresta, I.Aprile, Italy</i>	
Free Papers Session 6: Esotropia	
Bulbar length and the result of the recession in esodeviation	177
<i>Antonio Frattolillo, Costantino Schiavi, Italy</i>	
How progressive or stable is age-related distance esotropia? Does fusional divergence amplitude decrease over time?	179

DHM Godts, LVL Deboutte, GDP Mathysen, Belgium	
Consecutive Esotropia: clinical features, evolution and response to treatment. . . .	185
<i>S.Gamio, A.Avila, A.Jara, Argentina</i>	
Refractive Errors in Infantile Esotropia (IET)-distribution and errors	187
<i>DE Cioplean, RL Camburu, Romania</i>	
Free Papers Session 7: Surgery II	
Anomalous Orbital Structure as a cause of Atypical Restrictive Strabismus	193
<i>A. Molinari (Ecuador), D. Plager(USA), P. Merino (Spain), M.M. Galan (Argentina), M. Swaminathan, S. Rmasuramanian (India)</i>	
Surgical Management of Congenital Fibrosis of Extraocular Muscle (CFEOM)	197
Intraocular Pressure in abduction of Highly Myopic Strabismus decreases after Yokoyama procedure.	203
<i>S Hayashi, M Sato, H Edamatsu, A Sugano, A Hikoya, H Suzuki, H Yamashita, Japan</i>	
Free Papers Session 8: Varia II	
Why is the best useful test in strabismology not used by strabismologists ?	209
<i>V. Paris, Belgium</i>	
” A Case I have Learnt from”	
A case of Joubert syndrome with skew deviation, ocular tilt reaction and cyclotorsional spasms	215
<i>A.C. Spielmann, France</i>	
A case of traumatic Inferior Rectus Muscle Rupture.	219
<i>M.Sato, Japan</i>	
Restriction after inferior oblique surgery – the role of contralateral recession with posterior fixation	223
<i>J. M. Holmes</i>	
John Lee (Rapid Fire) Poster Presentation	
Inferior Oblique Botulinum Toxin Injection - a Postoperative Diplopia Test for secondary inferior oblique over-action	227
<i>S. Bansal, I.B. Marsh, UK</i>	
Results from a prospective Evaluation of a Mobile Phone Photograpy Application as a Vision Screening Tool in Children	231
<i>D Silbert, N Matta, USA</i>	
Surgical management of upgaze diplopia in patients after posttraumatic orbital floor reconstruction	235
<i>P Loba, J Olczak, M Kozakiewicz, A Broniarczyk-Loba, Poland</i>	
Short-term Results of Intraoperative Adjustment in Strabismus Surgery for Graves Ophthalmopathy.	239
<i>T. Neghishi, A.Murakami, Japan</i>	
An Eye Tracking Evaluation of Saccadic and Slow Pursuit Movements in Nystagmus. . . .	243
<i>M Di Pietro, C Spampinato, C Pino, D Giordano, MC Strano, T Avitabile, Italy</i>	
Equatorial Scleral Anchor for the Weakening of the Inferior Oblique Muscle	247
<i>L Sabetti, S Tomarchio, E Piozzi, A Magli, Italy</i>	
An effective surgical procedure to enhance the lateral gaze: Vertical rectus muscle unions on the lateral rectus area	251
<i>B.Gokyigit B, ED Aygit, A. Inal, OB Ocak, C.Ozturkler, B. Satana, Turkey</i>	
POSTERS	
Case report: squint as the first clinical sign in Coat’s disease.	257
<i>R.Rizo, A.Avarello, C.Crudeli, G.Sato, A.Galan, Italy</i>	
Prism under cover test in alternate fixation horizontal strabismus.	261
<i>J Tejedor, FJ Gutierrez-Carmona, Spain</i>	

Acquired esotropia with diplopia due to Arnold – Chiari I malformation: A case report . . .	265
S Yilmaz, N Demir Duman, Turkey	
Surgical outcome of congenital strabismus surgery in 2-4 years old children	267
A Bakunowicz-Lazarczyk, E Markowska, B Urban, Poland	
Intensive Orthoptic Training in Recurrent/Syptomatic Exodeviation after Surgery	271
<i>R. Delle Site, E. Racano, R. Federica, J.Frapporti, Italy</i>	
Excyclodeviation in children as the cause of suppression	275
<i>Antonio Frattolillo, Costantino Schiavi, Italy</i>	
Exotropia with Nystagmus.	279
<i>E.M. Eltoukhi, Egypt</i>	
Tendon-sclera-plasty is weakening reoperation after bilateral medial rectus muscle recession.	283
<i>I.L. Plisov, K. G. Puzyrevskiy, N. G. Antsiferova, Russia</i>	
Positive Vertical Forced Duction Test Secondary to Eyelid Speculum	287
<i>S. Bansal , A. Ansons, A Ansons ,UK</i>	
Postural changes after optical exercises in deficit convergence in exoforia.	291
<i>E. Annunziata, C. Elia , A. Perissinotto, Italy</i>	
Strabismus in adult patients with macular scars from early childhood	297
<i>R.Lolova , D. Miloshova, Bulgaria</i>	
Effect of rigid gas permeable hard contact lenses on involuntary eye movements and visual function in hyperopic patients with infantile nystagmus syndrome.	301
A Bagheri, H Abassi, M Tavakoli, A Baradab-rafi, S Yazdani, Iran	
Clinical applications of the Digital Hess Screen Test	305
E Milan, A Binotto, V Albiero, F Fanton, S Vinciguerra, Italy	
One muscle surgery may be enough for the treatment of exotropia	309
D Yuksel, K Baelemans, S Nelis, Belgium	
The use of choline in association with Bangerter filter in anti-amblyopic therapy.	313
L Sabetti, C Tresca, F Bianchi, A Giovannelli, Italy	
Postural changes in patients squinty	317
Charcot-Marie-Tooth Disease and Bilateral Abducens Nerve Palsy	321
ED Aygit, B Gokyigit, S Akar, OB Ocak, A Inal, M Taskapth, Turkey	
OMS – Ocular Motor Score a clinical method for evaluation and follow-up of ocular motor problems in children.	325
M Olsson, K Tear Fahnehjelm, J Ygge, A Rydberg, Sweden	
Graduation of subjective and objective parameters of the Bangerter filters.	329
<i>M. Dostálek, K. Fliegel), J. Hozman, R. Autrata, T. Lukeš, T, L. Dušek, M. Dostálková, Czech Republic</i>	
Rare cases of Duane Syndrome with limited abduction, exotropia in primary position and the face turn to the unaffected side.	333
<i>B.Kaczmarek, Poland</i>	
Familial Type 1 Duane Syndrome Surgical Correction - Case Report	337
<i>J. C. Costa, S. Barge, R. Varandas, L. Agrelos, Portugal</i>	
Brown Syndrome: Our Surgical Outcomes	341
ED Aygit, B Gokyigit, S Akar, OB Ocak, A Inal, M Taskapth, Turkey	
Transitory consecutive esotropia after Amitriptyline treatment for nocturnal enuresis Case report	345
<i>D.E Cioplean, Romania</i>	
Acute Sixth Nerve Palsy: Butolinum Toxin A (BTX-A) Injection Versus Observation: A Matched Randomized Clinical Trial	349
<i>M.Eshaghi, , A.Bageri, S.Sayanjali, Iran</i>	

The Management of Nystagmus in patients with Albinism.	353
A Anal, B Gokyigit, OB Ocak, ED Aygit, B Inal, B Basarir, GO Karabulut, Turkey	
Botulinum toxin A in Infantile Esotropia.	357
MJH Tjon-Fo-Sang, E de Jongh, D Goes, JT de Faber, The Netherlands	
Recognizing pinhole effect in good eye: one of the important reasons for failing of penalization treatment in preschool children.	359
<i>B.Gokyigit, ED Aygit, OB Ocak, A.Inal, S.Akar, Turkey</i>	
Intermittent Exotropia: Surgical Treatment and Long Term Follow-up	361
<i>R. Carelli, C. Plaitano, E. Chiariello Vecchio, A. Magli, Italy</i>	
Improvement of reading ability after strabismus surgery in low vision patients with nystagmus and anomalous head posture	365
<i>G. C. Vasconcelos, L. C. Fernandes, Brazil</i>	
Intermittent Exotropia : 5 years of follow-up in non operated patients.	369
<i>R. Carelli, C. Plaitano, E. Chiariello Vecchio, F.G. Gallo, Magli A, Italy</i>	
Clinical spectrum of high myopic strabismus in pediatric age	373
OB Ocak, B Gokyigit, A Inal, ED Aygit, SY Ocak, I Yilmaz, Turkey	
Clinical Spectrum and Management of 582 Cases of Duane Retraction Syndrome (DRS)	377
<i>O. B. Ocak, B. Gokyigit, E. D. Aygit, A. Inal, S. Akar, A. Demirok, Turkey</i>	
Nonrefractive Accommodative Esotropia In Adults	381
<i>R. Nesirov, H. Atilla, Turkey</i>	
Ocular Motility in Gaucher Disease: case reports of 3 patients.	385
<i>A. Inal, B. Gokyigit, O.B. Ocak, E.D. Aygit, B. Inal, N. Alagoz, Turkey</i>	
Surface Electromyography Parameters of the Extraocular Muscles in Healthy Children . .	389
<i>I. Boichuk, V.M. Mazur</i>	
Vertical Rectus Transposition Without Disinsertion for the management of III and VI nerve Palsy	393
<i>R Gomez de Liano, L Perucho Gonzalez, A Acebal Montero, A Asorey Garcia, L. Morales Fernández, Spain</i>	
Microsurgical Rectus Muscle Plication with the Fold-Under Technique	397
<i>A Roth (Switzerland), SD Gunnoo (France), M Bumbacher (Switzerland), B. Rossillion (France)</i>	
Minutes of the ESA Bussiness Meeting 2015	403
New ESA By-Laws amended and adopted at ESA Meeting Venice 2015.	407
ESA Membership Roster 2015.	413
Author Index	429

**Transactions 38th European Strabismological Association. Budapest, Hungary
September 2016**

Presidents Foreword	11
Preface by the Editor	13
Executive committee of ESA 2016	15
ESA Budapest Organisation Meeting	17
ESA Lectures	19
 ESA Lecture 2016	
Topical anesthesia in strabismus surgery	21
R Gomez de Liano, Spain	
 ISA Symposium: Current concepts in strabismus	
Extraocular muscle compartmentalisation in strabismus	31
JL. Demer, USA	
Adjustable sutures in children	37
DL. Guyton, USA	
 Symposium: Management of diplopia in inflammatory orbital disease	
Effects of orbital decompression on eye alignment	43
OH. Haugen, S. Gulati, HO. Ueland, A. Danielsen, E. Rodah, Norwa	
 Symposium: Amblyopia	
Binocular treatment of amblyopia: results of a PEDIG RCT	49
JM. Holmes, USA	
Amblyopia treatment study 16: augmenting atropine treatment for amblyopia	53
MX. Repka on behalf of the Pediatric Eye Disease Investigator Group, USA	
 ESA Orthoptic Symposium	
The role of the orthoptist in older patients binocular problems in age-related ocular pathology	59
D. Godts, Belgium	
 Early course: Quality of life	
How to validate a questionnaire in a specific cultural context	65
GB. Marcon, R. Pittino, Italy	
Refraction (glasses, contact lenses, refractive surgery), strabismus and QoL	69
C. Costet, France	
Quality of life in childhood strabismus and amblyopia	73
JM. Holmes, USA	
 Free papers session 1: Amblyopia and screening	
Amblyopia epidemiology in a pediatric population referred to a Portuguese tertiary care centre	79
V. Lages, J. Coelho, L. Malheiro, V. Miranda, R. Parreira, P. Meneres, Portugal	
Amblyopia risk factors screening project implementation in Portugal	83
D. Dias, I. Casal, S. Maia, V. Miranda, R. Parreira, P. Meneres, Portugal	
Biprism test in early pediatric ophthalmological screening	89
Cs. Serfozo, A. Soproni, Hungary	

Free papers sessions 2: Intermittent exotropia and cyclovertical	
The clinical course of intermittent exotropia	95
CG. Vladutiu, O. Teodosescu, RM. Ursu, Romania	
Myopic shift during control of the deviation in intermittent esotropia: a study with the Plusoptix 12R photoscreener	99
C. Schiavi, F. Tassi, V Di Croce, Italy	
Long-term follow-up surgical results in unilateral long-standing congenital superior oblique palsy	103
A. Ciubotaru, I. Iosub, M. Macau, AC. Hopinca, Romania	
Cyclocheck – a new web-based software for the assessment of objective cyclodeviation	107
J. Simiera, A. Broniarczyk-Loba, P. Loba, Poland	
Superior oblique trochlear injuries: clinical features and strabismus treatment	113
A. Armesto, MC. Ugrin, Argentina	
Botulinum toxin of superior rectus muscle in superior oblique palsy with large vertical deviation	117
SB. Ozkan, F. Balica, Turkey	
Harada-Ito without muscle splitting – ‘Stavis Cinch’	121
MI. Stavis, USA	
Free papers session 3: Stereo and binocular function	
Cyclofusion and target orientation	127
H. Davis, A. Donnachie, D. Buckley, UK	
Long term outcome of high versus very high hypermetropic children	131
S. Ziylan, Z. Parlakgunes, B. Sahan, Turkey	
Acute acquired comitant esotropia – classification and factors influencing regain of stereopsis after surgery	137
B. Hesgaard, I. Holst, M. LaCour, T. Vinding, Denmark	
Stereoacuity in pediatric blowout fractures in the Copenhagen region in a 16-year period with 5 years follow-up	143
JP. Saunte, T. Torp-Pedersen, L. Wolsing, Denmark	
Free papers session 4: Neurological	
Strabismus indicates severity of motor impairment in cerebral palsy (CP)	149
Z. Chaudhuri, M. Nagpal, RK. Jain, India	
The challenges of diagnosing myasthenia in nero-ophthalmology	153
E. Drimlziias, J. Hoole, I. Simmons, UK	
Dorsal midbrain syndrome in nuclear third nerve palsy	157
AC. Spielmann, N. Gravier, France	
Free papers session 5: Surgery I	
Short tag noose adjustable sutures – in adults and children – how many need adjustment – and when?	163
CS. Lonkvist, T. Torp-Pedersen, JP. Saunte, Denmark	
Do adjustable sutures improve surgical outcomes for adult patients with intermittent exotropia?	167
N. Raoof, J. Sloper, UK	
The success rates of adjustable suture surgery in horizontal strabismus	171
S. Ziylan, B. Gokce, Z. Parlakgunes, Turkey	
Lateral splitting and transposition in complete oculomotor palsy	175

M. Goberville, M. Leite, N. Guepratte, V. Krivosic, France Long term results of Y split lateral rectus transposition to the medial rectus area in complete third nerve palsy B. Gokyigit, S. Akar, ED. Aygit, A. Inal, OB. Ocak, Turkey	179
Free papers session 6: Surgery II	
High-dose Anderson procedure for nystagmus-related head-turn: decreasing long-term effect? M. Graf, B. Lorenz, Germany	187
Success modification of Sinskey operation for the treatment of nystagmus patients B. Gokyigit, OB. Ocak, A. Inal, ED. Aygit, B. Basarir, Turkey	191
Postsurgical recurrences of strabismus in sagging-eye syndrome Z. Chaudhuri, India, J. Demer, USA	195
Free papers session 7: Varia I	
Changes in corneal topography and refractive error after various extraocular muscles surgery S. Akar, B. Gokyigit, ED. Aygit, EY. Pinarci, SA. Bayar, S. Oto, Turkey	201
May magnetic resonance imaging of the orbit play a role in recurrent strabismus? GB. Marcon, R. Pittino, N. Martini, Italy	207
Free papers session 8: Varia II	
Pedigree analysis of concomitant horizontal strabismus in North India Z. Chaudhuri, J. John, S. Aneja, BK. Thelma, India	215
Profile and distribution of strabismus in craniosynostosis Z. Chaudhuri, AK. Puncholotho, U. Garga, A. Sharma, India	219
Strabismus incidence in a Danish population-based cohort T. Torp-Pedersen, HA. Boyd, L. Skotte, B. Haargaard, J. Wohlfahrt, M. Melbye, Denmark, JM. Holmes, USA	223
John Lee (Rapid Fire) Poster Presentations	
Oculomotor findings in Joubert syndrome N. Gravier, V. Aubert-Brenugat, France	231
Statistical analysis of Lang I stereotest for the diagnosis of microesotropia in children AC. Piantanida, M. Spera, R. Nobili, G. Gerosa, Italy	235
Pediatric strabismus primary care referral efficacy, epidemiology and prognosis in a Portugese tertiary referral center J. Coelho, V. Lages, I. Carneiro, V. Miranda, R. Parreira, P. Meneres, Portugal	239
POSTERS	
Endothelial cell density following extraocular muscle surgery S. Akar, B. Gokyigit, E. Kirandi, SA. Bayar, S. Oto, Turkey	245
Monocualr elevation deficiency (double elevator palsy) case presentation and new ideas in management I. Mohamed, EM. Eltoukhi, Egypt	249
Comparative study between synoptophore and videooculograph gazelab D. Fernandez-Agrafojo, H. Morales Ruiz, M. Enrile, M. Soler Vall, Spain	255
Reverse Yokoyama procedure for high myopic exodeviation	259

B. Gokyigit, A. Inal, ED. Aygit, OB. Ocak, S. Akar, Turkey	
Visual acuity assessment in children with three different charts	263
A. Inal, OB. Ocak, B. Gokyigit, ED. Aygit, SY. Ocak, B. Inal, Turkey	
Myasthenia gravis at childhood: two cases	267
A. Inal, OB. Ocak, B. Gokyigit, ED. Aygit, IB. Pasaoglu, K. Fazil, Turkey	
The case of successful surgical treatment of atypical form of vertical strabismus	271
IM. Kuzhda, VI. Serdiuchenko, YM. Kaminsky, OM. Pityk, Ukraine	
Vertical squint as initial manifestation of fibrous dysplasia	275
E. Maka, M. Gaami, G. Rudas, S. Czirjak, Z. Zs. Nagy, Hungary	
Effects of squint surgeries on the blood-aqueous barrier	279
D. Mihalyi, M. Fodor, H. Kiss, K. Knezy, L. Kun, E. Maka, O. Maneschg, K. Senyi, A. Szamosi, A. Szigeti, G. Toth, Z. Zs. Nagy, Hungary	
Epidemiology of infantile nystagmus syndrome (INS)	283
OB. Ocak, A. Inal, B. Gokyigit, ED. Aygit, T. Yilmaz, C. Ozturker, Turkey	
Bimedial rectus recession surgery with Down syndrome patients	287
OB. Ocak, A. Inal, B. Gokyigit, ED. Aygit, F. Ozcelik, B. Satana, Turkey	
Lea gratings; differences between observers when carrying out evaluation of the visual acuity in children under 30 months	291
OB. Ocak, A. Inal, B. Gokyigit, ED. Aygit, GO. Karabulut, B. Basarir, Turkey	
Exophoria/exotropia in adults with diplopia after refractive surgery: do we always need to manage it with muscles surgery?	295
AC. Piantanida, M. Spera, R. Nobili, G. Gerosa, Italy	
Induced hypertrophy of extraocular muscles after the administration of synthetic peptides into them	299
IL. Plisov, VV. Atamanov, MA. Chernyavskaya, IA. Toporkov, DR. Mamulat, NG. Antsiferova, Russian Federation	
Heavy eye syndrome: our experience of surgical treatment	303
KG. Puzyrevskiy, IL. Plisov, NG. Antsiferova, DR. Mamulat, Russian Federation	
Revital vision treatment in patients affected by nystagmus	307
L. Sabetti, F. Bianchi, F. Masedu, Italy	
Atypical presentation of chronic progressive external ophthalmoplegia	311
A. Szigeti, E. Maka, R. Vamos, J. Hargitai, A. Szamosi, Z. Zs. Nagy, J. Toth, M. Fodor, Hungary	
The influence of anti-VEGF treatment on binocular vision in patients with ARMD	315
M. Uzdrowska, E. Bilinska, A. Bronirczyk-Loba, Poland	
Minutes of ESA Business meeting, Saturday October 1 st 2016, Hotel Hungaria, Budapest, Hungary	321
ESA Membership roster 2016	329
Author index	347

**Transactions 39th European Strabismological Association. Porto, Portugal
September 2017**

Table of contents

Botulinum toxin in strabismus: just an alternative or more? Seyhan B. Ozkan	21
Why do babies develop Esotropia A.M. Horwood	33
Accommodation in Intermittent Exotropia A.M. Horwood	41
A Randomized Trial of Bilateral Lateral Rectus Muscle Recession versus Unilateral Recess-Resect Surgery for Intermittent Exotropia J.M. Holmes	47
Extraocular muscles: unique responses in disease F. Pedrosa Domellof	51
Outcomes of Strabismus Surgery for Acute onset Esotropia H.B. Hesgaard, I. Holst; T. Vinding	57
Nasal Transposition of the Split Lateral Rectus for Treatment of Third Nerve Palsy R. Dagi	65
Nasal transposition of the split lateral rectus for complete cranial nerve 3 rd . palsy B. Gokyigi	67
Blinking and Convergence Insufficiency DL Guyton	75
Falling eye in infantile esotropia – Case presentation A Molinari	79
Measurement of horizontal extraocular muscle insertion distance with Anterior Segment Ocular Coherence Tomography P.F. Rodrigues, D. Reis-Cabral, M. Marques, S Frazao. P. Camacho, G. Varandas	85
Stereoropsis and need for reoperations with respect to age at first surgery in infantile esotropia S. Ziylan, O. Yabas, I.B. Simsek	91
Infantile Esotropia: Emergence of Binocular Vision years after surgery I Reich-d'Almeida, C Costa Lanca, F Reich-D'Almeid	95
Long-term effect of botulinum toxin A in acquired non-accommodative esotropia R Gama, J Costa, J C Santos, T Y Nom, C Esteve	99
Testing Controlled Binocular Acuity in Intermittent Exotropia H Davis, J Mistry	103
Cyclin Strabismus in Adults: A case report and a Review of the literature S P Kraft, C S Ngo, M P Araya	107
Sliding shap Extraocular Muscle Plication B Gokygit, A Inal, O B Ocak, E D Aygit, S Celik	113
Surgical results after one surgery in adult Consecutive Exotropica: “right numbers” In Slipped and Stretched scar Medial Rectus presence D E Cioplean, R L Nitescu	117
Muscle union technique for correction of complete paralytic strabismus: a multicentre, multicountry study G B Marcon, R Pittino, V Paris, S Farzavandi, B Gokygit, R Gomez De Liano	123
Transconjunctival Yokoyama Procedure A C Spielman	129
Detection and treatment of potentially amblyogenic refractive errors in preverbal children before and after the institution of a community V Lages, I Carneiro, S Maia, V Miranda, R Parreira, P Meneres	135

Potentially amblyogenic refractive errors in Porto population	139
I Carneiro, D Dias, I Casal, S Maia, V Miranda, R Parriera, P Meneres	
A fresh look at the red reflex test. Performance and results.	143
M Graf	
Amblyopia in high AC/A ratio accommodative esotropia	147
J Tejedor, F J Gutierrez-Carmona	
Impaired Fixation Patterns in Previously Treated Amblyopic Eyes of	151
Anisometropic Children without Manifest Strabismus	
A Magalhaes, J Beato, C Ferreira, J Breda, R Silva, J Breda	
An Effective and Easy Adjustable Technique for Strengthening the Superior	159
Oblique	
B Gokyigit, E D Aygit, A Inal, O B Ocak, S Celik, C Gure	
Superior Oblique Tuck: Evaluation of Surgical Outcomes	163
R Dwivedi, I B Marsh	
Surgical results of trochlear nerve palsy – a 10-year material	167
O H Haugen, L Nepstad	
Anterior and nasal transposition of the inferior oblique muscles	171
L A Teodorescu, I A Velcea	
Vertical Fusional Vergences in Congenital Superior Oblique Palsy. How Long do	175
They Last after the Surgical Alignment	
C Schiavi, C Fariselli, F Tassi, V Di Croce	
Long Term Results of Superior Oblique Tendon Elongation for Brown's Syndrome	179
L Remon, D Perez, P Ramiro	
Unmasking bilateral DVD with VOG 3D	183
S Gamio, A Naranjo	
Efficacy of primary care referral of pediatric strabismus in children younger than	189
24 months in a Portuguese tertiary referral center	
J Coelho, V Miranda, D Dias, S Maia, R Parreira, P Meneres	
Our First Experience of Treating Anisometropic and Strabismic Amblyopia Using	195
Liquid Crystal Glasses	
I L Plisov	
Adult strabismus surgery: epidemiological results	199
O G Gambini, A Salerni, U De Vico, G Savino, A Dickmann	
Surgical Treatment Results of Cyclic Esotropia	203
S Celik, A Inal, O B Ocak, E D Aygit, B Gokyigit	
Delayed adjustment after strabismus surgery-complications	207
T Torp-Pedersen, C Lonkvist, J P Saunte	
Mini Resection of Inferior Third Of Medial Rectus for Convergence Insufficiency	211
M I Stavis, M N Khan	
Peters' Anomaly – Strabismus and Amblyopia: a case report	217
I M Pocas, P M Lino	
Results of Amblyopia treatment in Northern Finland	221
J Liinamaa, V Luttinen	
Prevalence of Amblyopia in Bulgaria	225
S P Dikova, S A Dragoev	
Cornea plana and Amblyopia: a 7 year old boy	229
S P Dikova	
Change in referral criterion: do we miss amblyopia?	231
E Karvonen, A Hirvonen, J Liinamaa	
Study of the orthopaedic assessment in refractive eye surgery	235
L Sabetti, M Ciancaglini, F Guetti, L Laglia	
Results of Botulinum toxin A injection during medical rectus recession in a large	239
angle infantile esotropia surgery	

B Gokyigit, A Inal, O B Ocak, E D Aygit, S Celik	
Comparison of the Faden Operation with Bridge Faden Operation	243
A Inal, O B Ocak, E D Aygit, S Celik	
Surgical outcome of early treatment for infantile esotropia	247
T Negishi, A Murakami	
Demographic Structure and Management in Infantile Esotropia	251
O B Ocak, E D Aygit, S Celik, S Yurttaser Ocak, B Gokyigit	
Management of Acute Acquired Concomitant Esotropia	255
O Andrei, D E Cioplean, R L Nitescu, M S Dragomir, A Grigorescu	
Duane Syndrome type III- Case Report	259
S Bolinowska, V Pajtic, T Avramovic Kljakovic, M Radakovic	
Pateints with Duane Retraction Syndrome	263
E D Aygut, A Inal, O B Ocak, S Celik, C Gurez, B Gokyigit, Demirok	
Characteristics and Management of the stretched Scar/Empty Sheath in	269
Consecutive Exotropia	
S Casooji, S Bansal	
Tenotomi with Mersilene spacer of superior oblique tendon in Brown syndrome	273
and A-pattern strabismus	
C S Lønkvist, T Torp-Pedersen, J P Saunte	
Inferior Oblique Weakening: Disinsertion or Anteroposition?	277
F Balica, A I A Unsal, S B Özkan	
The advances of non-surgical treatment of complex strabismus using prismatic	281
strabismus correctors	
E N Shvets	
Infantile Nystagmus Syndrome in Turkish Society	285
A Inal, O B Ocak, E D Aygit, S Celik, C Gurez, B Gokyigit	
Comparison of fixation positions when measuring limbus-extraocular muscle	289
insertion distances with anterior segment optical coherence tomography	
R Inagaki, Y Takagi, S Arai, T Haseok, A Hikoya, M Komori, H Suzuki, Y Hotta, M	
Sato	
Comparison of Limbus-Extraocular Muscle Insertion Distancs	293
O B Ocak, A Inal, E D Aygit, S Celik, C Gurez, B Gokyigit	
Monocular elevation deficiency and intraocular pressure	297
S Hashimoto, M Sato, T Nakazawa	
Functional and assessment in patient affected by cognitive decline	301
L Sabetti, M Ciancaglini, L Laglia	
Postural dysfunctions and strabismus: Correlations	305
L Sabetti, M Ciancaglini, F Guetti	
Congenital fibrosis of extraocular muscles (CFEOM) as special phenotype of	309
congenital cranial dysinnervation syndromes (CCDD)- 2 case reports	
O A Maneschg. K Knézy, E Maka, Z Z Nagy	
Choroidal Ischemia after Inferior Oblique Recession. A case report.	313
N Gravier, J Perol	
Minutes of ESA Business Meeting, Saturday September 16 th , 2017	319
Alfadenga Porto Congress Centre	
ESA Membership Roster 2017	327
Author Index	347

**Transactions 40th European Strabismological Association. Helsinki, Finland
June, 2019**

ESA Lecture 2019	1-14
After thirty years of strabismus surgery: my favourite squint	
O Haugen	
Retinal conditions causing nystagmus	15-20
E Larsson	
Severe complications in strabismus surgery	21-26
RH Taylor, J Bradbury	
Anterior segment ischaemia	27-32
J Sloper	
Slipped and lost muscles	33-40
DE Cioplean	
Avoiding errors in strabismus surgery	41-50
HB Hesgaard	
Orbital trauma: predictors of persistent strabismus and treatment outcomes	51-56
SA Larson	
Glaucoma surgery relates restrictive strabismus	57-64
FH Orge	
To adjust or not to adjust?	65-68
DA Thouvenin	
Minimally invasive strabismus surgery: to use or not to use	69-72
S Jain	
Torsion: to ignore or to address?	73-78
JM Holmes	
A case I have learned from	79-82
A Molinari	
A case I have learned from: management of 4 th nerve palsy	83-90
E Bui Quoc	
A severe case of accommodation spasm	91-96
PJ Toivonen	
Thyroid Eye Disease (TED)	97-126
D Thouvenin	
Five cases of unusual nystagmus	127-130
AC Spielmann	
Comparison of Anderson and Kestenbaum procedures for nystagmus-related head-turn	131-134
M Graf, D Kowanz, A Hausman, B Lorenz	
Aberrant regeneration in 3 rd nerve palsy	135-140
A Galan, N Rosello	
The use of donor sclera in the strabismus surgery for Grave's orbitopathy	141-146
L Vanhatalo, L Lindberg, A Majander	
Botulinum toxin injection in thyroid eye disease	147-152
K Falzon, R Taylor	
Inferior oblique recession with 5mm loop to correct vertical deviation and upshot in adduction	153-158
DJM Godts, S Prinsen, I De Veuster	
Superior oblique sharpening in Brown syndrome title	159-162
N Rosello, A Galan	
Surgical approach of larger DVD in the fixating eye	163-170
S Gamio, A Avilo	
International perspectives on the cost effectiveness of photoscreening	171-176

AM Horwood	
Amblyopia screening and treatment in the Pirkanmaa region	177-182
A-P Ylilehta, MJ Liinamaa	
Early screening: ametropia first	183-188
V Paris	
Statistical evaluation in pediatric patients of the new Lang Stereopad test; a preliminary report	189-196
AC Piantanida, M Spera, R Nobili, G Gerosa, M Tranquillini	
How to deal with scleral thinning in consecutive exotropia?	197-200
A Ciubotaru, I Iosub, A Ciubotaru	
Population trends in adult strabismus surgery in Ontario	201-206
SP Kraft, A Szigiata, M Caldwell, Y Buys, K Mireskandari	
A novel suture: adjustable superior oblique spacer with optional 7 days delayed adjustment for treatment of tight superior oblique tendon incomitant strabismus	207-212
JP Saunte, C Lonkvist, TE Torp-Pedersen	
The effect of Yokoyama's surgery with or without MR recession in high myopic strabismus fixus patients	213-216
S Celik, B Gokyigit	
Treatment of large angle strabismus using Bupivacaine (BP) and botulinum type A toxin (BT)	217-220
T Cunha Namgalies, AB Scott, JM Miller	
Efficacy of botulinum toxin A treatment in acute onset comitant esotropia in children	221-226
CS Loenkvis, T Torp-Pedersen, JP Saunte	
Convergence excess esotropia (CEET) non-surgical and surgical effective treatment	227-230
DE Cioplean, RL Nitescu	
Role of esotonus in the pathogenesis of concomitant convergent and divergent infantile strabismus	231-238
C Schiavi, C Fariselli, G Calzolari	
Bilateral combined resection-recession of the same rectus muscle versus fadenoperation for treatment of purely tonic esotropias	239-244
F Fremont, D Thouvenin	
Management of simultaneous ocular elevation and depression deficit in patients after orbital floor fracture	245-250
P Loba, AJ Ordon	
Clinical patterns of eye-lid synkinesis	251-256
AC Spielmann	
Simply tendon disinsertion is enough for treatment for Brown's syndrome: a comparative study with multi techniques	257-262
B Gokyigit, A Inal, OB Ocak, ED Aygit, S Celik, Z Huseyinhan, C Gurez	
Could distance esotropia be inherited?	263-268
GB Marcon, R Pittino, M Nicoletta	
Intermittent exotropia: overminus correction, stereopsis, surgical indications and results	269-274
S Ziyilan, ZP Altunsoy, A Kayiran, M Altunsoy	
Inferior oblique overaction in trochlear nerve palsy: anterior transposition versus myectomy	275-284
K Jafari, N Gibbings, S Jain	
Long term results of split latera; rectus nasal transposition in complete third nerve palsy: comparison of original and simplified techniques in 32 patients	285-290
B Gokyigit, OB Ocak, ED Aygit, A Inal, C Gurez, S Celik, Z Huseyinhan	
Synergistic divergence or type IV Duane syndrome; a report of two cases	291-292

DT Nguyen, M Robert, MA Espinasse-Berrod	
Effect of anterior and nasal transposition of the inferior oblique muscle in fourth nerve palsy	293-298
TE Torp-Pedersen, CS Longvist, JP Saunte	
Posters	
Lower medial resection in convergence insufficiency	299-302
L Sabetti, M Stavis	
Type 1 diabetes and near accommodation	303-306
F Yulek, S Yuzbasioglu, N Ugurlu, O Topaloglu, D Ozdemir, R Ersoy, B Cakir	
Comparison of Powerref 3 and push up method for accommodation	307-312
F Yulek, S Yuzbasioglu	
Metabolic changes in LGN in amblyopia	313-316
S Oner, O Unal, F Yulek	
CHARGE syndrome – amblyopia and coloboma; a case report	317-322
IM Pocas, PM Lino	
Citicoline for the treatment of adult amblyopia; case report	323-324
A Inal, OB Ocak, ED Aygit, S Celik, C Gurez, Z Huseyinhan, B Gokyigit	
Use of Tetris video game for the treatment of amblyopia	325-328
L Sabetti, M Ciancaglini, F Guetti, L Laglia	
Prevalence of amblyopia after photoscreening	329-336
R Laiginhas, CC Ferreira, R Leitao, R Gerales, J Chibante, M Monteiro, C Matos	
Comparing crossed disparity and uncrossed disparity on both a real-depth test and a random dot test at distance	337-346
M Abbas, H Davis	
Comparative study of ocular motility between Gazelab video-oculography and the Hess-Lancaster test	347-352
D Fdez-Agrafojo, A Trueba Lawand, H Morales, M Soler, MA Guerrero	
A case series of three paediatric patients treated for a sudden onset non-accommodative esotropia with botulinum toxin injection	353-356
L Brocklesby, S Parvizi, S Jain	
Botulinum toxin A for acute esotropia	357-360
F Yulek, S Yuzbasioglu	
Botulinum toxin A injection for treatment-refractory convergence insufficiency; a retrospective study	361-364
M Hofslu, TE Torp-Pedersen, CS Longvist, JP Saunte	
Convergence insufficiency – psychosocial and functional aspects of treatment with botulinum toxin A	365-370
T Christensen, B Iversen, A Bjorkroth, T Torp-Pedersen, C Longvist, JP Saunte	
Medial transposition of the lateral rectus muscle for oculomotor nerve agenesis	371-374
G Susana, C Nicolas	
Medial rectus muscle periosteal fixation and superior rectus muscle augmented transposition in only seeing eye of a patient with longstanding severe esotropia from complete 6 th cranial nerve palsy	375-382
BL Quah	
Strabismus surgery for exotropia Duane syndrome with synergistic divergence? It is a possibility	383-386
L Helmer, D Ossevoort-Goes, LM Gouma, W Duifhuizen-Visscher, JTHN de Faber	
Duane retraction syndrome – psychosocial and functional aspects from the AS-20 questionnaire	387-392
B Iversen, T Christensen, A Bjorkroth, TE Torp-Pedersen, CS Longvist, JP Saunte	
Exotropic Duane retraction syndrome with upshoot – case report	393-396
O Andrei, DE Cioplean	

Acute acquired comitant esotropia of childhood RH Lolova	397-400
Efficacy of Y split lateral rectus recession in divergence excess exotropia B Gokyigit, OB Ocak, Z Huseyinhan	401-404
The effect of topical Brinzolamide on intraocular pressure in patients with nystagmus S Celik, A Inal, ED Aygit, OB Ocak, Z Huseyinhan, C Gurezi, I Pasaoglu, B Gokyigit	405-406
Hydroxyzine premedication is a necessity for strabismus surgery: observational clinical trial F Kartufan, N Kizilcik, S Ziyhan	407-412
Lateral rectus-medial rectus union: a new surgical technique for treatment of complete third nerve palsy A Bagheri, M Feizi, R Sahebghalam, M Zonoubi	413-418
Comparison of different horizontal muscle transposition techniques at monocular elevation deficiency OB Ocak, A Inal, ED Aygit, S Celik, C Gurezi, Z Huseyinhan, S Yurttaser Ocak, B Gokyigit	419-422
A comparative study: sutures versus cautery for conjunctival wound closure in fornix based strabismus surgery D Gousia, V Geh	423-428
Strabismus surgery on a patient with cutix laxa; a case report S Lahdeoja, L Lindberg	429-432
It is possible to large recession for inferior rectus without lower lid retraction in thyroid ophthalmopathy? Yes A Inal, GO Karabulut, OB Ocak, B Gokyigit	433-436
Superior oblique multiple 3mm anterior tenotomise to correct intorsion M Stavis	437-438
Real torsion: estimating torsion in degrees from the non-torted macula with an indirect ophthalmoscope M Stavis	439-440
Benefits of strabismus surgery in patients with sagging eye syndrome, using the Danish version of adult strabismus questionnaire AS-20 A Bjorkroth, BH Iversen, T Christensen, C Longvist, TT Pedersen, JP Saunte	441-444
Comparison of the refraction measurements under general anesthesia with cycloplegic refraction measurements in the pediatric age group OB Ocak, A Inal, ED Aygit, S Celik, C Gurezi, Z Huseyinhan, SY Ocak, B Gokyigit	445-446
Refraction and ocular alignment in laser treated and non-treated preterm infants at 1 year of age; preliminary reports A Pelit, MS Dervisogullari, N Sahinoglu-Keskek	447-452
Hyperopia in pre-school children – long term refractive outcomes R Laiginhas, L Figueiredo, R Geraldles, J Chibante, C Ferreira	453-458
Outcome of the primary health care ophthalmological screening for children aged 18 months old or younger LW Andersson	459-464
Gaze palsy in progressive supranuclear palsy; case report A Pelit	465-468
Three cases of superior oblique and levator palpebrae superioris synkinesis C Casafina, J Khistria, N Ali	469-472
Oculomotor impairment in Hermansky Pudlak syndrome – report of five cases PM Baptista, L Malheiro, S Maia, V Miranda, R Parreira, P Meneres	473-480
Minutes of ESA Business meeting 2019	481-492
ESA membership roster 2019	493-502

Transactions 41st European Strabismological Association. Paris, France (virtual)
Joint meeting with International Strabismological Association
April, 2021
Available from: <https://www.esa-strabismology.com/profile/meeting>

Table of contents

Bielschowsky Lecture Nexus of strabismus, myopia and glaucoma Demer JL.	2
ESA Lecture Vergence tonus and surgery for esotropias Thouvenin D.	11
ESA / ISA / AFSOP symposium Timing of surgery in children's esotropis Bui Quoc E.	20
Nystagmus: how I decide what to do and whether I have succeeded? Gravier N.	26
How I decided what to do and whether I have succeeded in a trauma case Molinari A.	32
Symposium Intermittent exotropia in the USA; PEDIG perspectives Holmes J.	38
Intermittent exotropia in Italy Schiavi C.	43
Intermittent exotropia in France Audren F.	47
Intermittent exotropia in South Korea Hwang J-M.	52
Early surgery course Lateral rectus nasal transposition for IIIrd nerve palsies Graef M.	58
Round table Double Y-splitting for Duane syndrome with severe elevation on adduction Spielmann A.	64
Free papers Strabismus surgery in patients with prior vitreoretinal surgery – strategies and results Saunte JP.	69
Oculogyric crisis induced by metoclopramide Marta A.	73
Surgical treatment for small angle vertical strabismus: partial recession Merino P.	78
Persistent of downshoot in infra-adduction after surgical treatment of A-pattern strabismus	82

Urrets-Zavalía E.	
Brown syndrome: characteristics, management and evolution	87
Gamio S.	
Giving up was not an option	93
Paris V.	
French touch recommendations for visual screening in children	99
Bui Quoc E.	
Long-term outcome of medial rectus combined posterior strapping-recession surgery adapted under general anesthesia in infantile esotropia	104
Fremont F.	
Medial rectus muscle stretches the normal, but not glaucomatous optic nerve	110
Demer JL.	
Horizontal eye movements deform the optic disc and peripapillary retina and choroid in children	116
Demer JL.	
Fixation preference in asymmetric dissociated vertical deviation	121
Avila A.	
Using evidence-based psychological approaches to accommodation anomalies	126
Horwood A.	
Reoperation for strabismus: when, why and how?	133
Jara A.	
Posters	
Brain potential response to activation procedures in children with refractive amblyopia	140
Boichuk IM, Wael B.	
The use of video-oculography in the strabismus center	147
Fernandez-Agüero D, Lawand T, Guerrero Y, Morales H.	
Comparisons of lateral rectus recession and lateral rectus recession combined with medial rectus resection for exotropia without divergence excess	153
Celik S.	
Effect of visual acuity and convergence ability on reoperation rate in patient undergoing exotropia surgery	156
Gokyigit B, Ocak OB, Celik S, Gurez C, Huseyinhan Z, Inal A.	
Torsion after augmented superior rectus transposition surgery	159
Bansal S, Green EK.	
Convergence insufficiency as initial sign of Dejerine-Sottas syndrome in a 13-year-old girl	166
Loenkvisst CS, Hofslí M, Torp-Pedersen T, Saunte JP.	
Ocular refraction changes during post-rotatory nystagmus	168
Hirota M, Takigawa R, Okabe C, Kato K, Nakagomi R, Sasaki K, Hayashi T.	
Results of prismatic lenses in the treatment of congenital nystagmus: a case report	173
Pocas IM, Lino PM.	
Binocular single vision field and quality of life before and after surgery of diplopia in adults	179
Bontron C, Hugounenq L, Soriano CA, Thouvenin D.	
The oculomotor imbalance in concomitant strabismus in the absence of visual input	183
Droite VR.	
An anterior nasal supernumerary extraocular muscle: a case report	188
Vanhatalo L, Lindberg L, Majander A.	

Transconjunctival tuck Spielmann AC.	192
Inferior oblique recession associated to a partial temporal inferior rectus recession in the management of superior oblique palsy Burgos-Blasco B, Hernandez-Garcia E, Valverde-Megias A, Rego-Lorca D, Gomez- de-Liano R.	196
Bupivacaine injection to extraocular muscles in various strabismus patients Ocak OB, Inal A, Gokyigit B, Celik S, Gurez C, Huseyinhan Z.	202
Causes of inferior oblique reoperation and surgical results in cases who underwent inferior oblique muscle operation Inal A, Ocal OB, Gokyigit B, Celik S, Gurez C, Huseyinhan Z.	206
The ‘Copenhagen strabismus planner’ – a valuable tool in the operation room in decision making during strabismus surgery Saunte JP, Hofslı M, Lonkvist CS, Torp-Pedersen T.	209
Treatment of diplopia in the adult patient Fernandez-Agrafojo D, Trueba lawand A, Guerrero Y.	215
The 100 most frequently cited articles on myopia Shemesh RS, Dichter SD, Mezer EM, Wygnanski-Jaffe TWJ.	220
Study of binocular vision and quality of life in patients with primary congenital glaucoma Hernandez-Garcia E, Morales-Fernandez L, Burgos-Blasco B, Piedrahita-Alonso E, Gomez-de-Liano-Sanchez R.	235

42nd European Strabismological Association. Toulouse, France
Joint meeting with International Strabismological Association
June, 2024
Available from: <https://www.esa-strabismology.com/posts/Toulouse>

43rd European Strabismological Association. Istanbul, Turkey
Joint meeting with the Turkish Ophthalmological Association and AAPOS
June, 2025
Available from: <https://www.esa-strabismology.com/posts/ISTANBUL>

Transactions International Strabismological Association

1966, Giessen

(symposia held in connection with the 20th International Congress of Ophthalmology, Munich, August 14-19, 1966)

The social importance of amblyopia. The possibilities of early detection Franceschetti A, Franceschetti AT, Hudson-Shaw S.	1
Differential diagnosis of the different syndromes of functional amblyopia Thomas CH.	8
Methods and results in examination of fixation in amblyopia Avetisov ES.	14
On amblyopia – its definition and the results of the treatment Yamashita T.	20
The aetiology of strabismic amblyopia in relation to the problem of its therapy Castanera A.	31
Physiopathology of amblyopia as basis of its treatment Arruga A.	33
Classification of amblyopia Von Noorden GK.	39
Comparison of the results of static and kinetic perimetry in the central region of the visual field of the amblyopic eye Francois J, Verriest G, Verluyten P.	45
White and colour visual fields and scotometry – possible difference between amblyopias of different etiology Sato O.	51
Importance of additional factors for indication or prognosis of amblyopia treatment Gortz H.	56
The significance of nystagmoid movement in amblyopia Gillies WE.	60
Problems of organic lesions in functional amblyopia Sachsenweger R.	63
Prophylaxis and therapy of amblyopia Bangerter A.	67
Round table: session 1	73
Treatment of amblyopia with and without foveal fixation Ayberk N.	80
Persistent amblyopia Fletcher MC.	84
Surgery for eccentric fixation displacement Sevrin G, de Corte H.	89
Results of treatment of concomitant squint amblyopia with eccentric fixation by squint operation and occlusion of the fixing eye Mortada A.	98
Examples of binocular therapy in cases of early amblyopia Lyle TK.	104
An evaluation of successes and failures (indications and contraindications) of orthoptics and pleoptics Awasthi S.	113
Round table: session 2	120
Report of working group III (International Strabismus Society) Lyle TK.	128
The aetiology of motor disturbance of squint Wybar K.	130
Sensori-motor examination of the infant Costenbader FD.	134
Analysis of the motor situation in strabismus	139

Adelstein F, Cuppers C.	
Alteration of the angle of anomaly dependent on the direction of gaze	149
Aust W, Detterming W.	
The utility of orthoptics in the diagnosis and the treatment of strabismus	158
Vancea P, Ratiu E.	
Diagnostic errors in the evaluation of retinal correspondence by various tests in squints	163
Bagolini B.	
Dissociated vertical anomalies	175
Brown NW.	
Contribution to the sensory and motor status of strabismus and to the choice of proper conservative and surgical measures	180
Raab-Sternberg A.	
An evaluation of objective methods in the measurements of strabismus on the operating table versus pre-operative objectives and subjective methods	186
Schillinger R.	
An evaluation and comparison of the Hess chart, Lees screen and Lancaster red-green tests in parietic strabismus	189
Pratt-Johnson JA.	
Sources of errors by exclusive use of the Hess screen	196
Schmidt-Hofmann-Friemel E.	
Use of prisms in the diagnosis of retinal correspondence and of the eye-hand relation	204
Arentsen J.	
Round table: session 3	209
Evaluation in small angle strabismus or microtropia	219
Lang J.	
An evaluation of the significance of the refractive state both pre and post operatively	223
Romaine H.	
The examination of retinal correspondence by the method of projected after-images	227
Wilczek M.	
Visual acuity under low luminosity (dynamic visual acuity) in strabismic amblyopia	230
Verin PH, Rougier-Houssin J, Le Rebeller MJ, Pincon F.	
Flash Haploscope	237
Siebeck R.	
Examination of binocular vision in polarised light	240
Pigassou R.	
Phase difference haploscopy for investigation of strabismus	245
Aulhorn E, Kreuzer W.	
Synoptophore in space compared with other methods	252
Breitenmoser R.	
Stereoacuity as an indicator of bifixation	258
Parks MM.	
Round table: session 4	261
Report on the deliberations of working group 1 (Terminology, standardisation of the language of communication)	267
Linksz A.	
Some considerations on the pathophysiology of anomalous correspondence in relation to its treatment	284
Pasino L, Maraini G.	
The treatment of strabismus in Sweden	289
Aurell G.	
Suppression and inhibition in therapy	294
Hamburger FA.	
Methods of treatment in free space of ARC	297
Hugonnier-Clayettes S.	
Surgical orthoptics	302
Knapp P.	

The influence of the operative overcorrection of an esotropia on abnormal retinal correspondence	307
Hugonnier R.	
Purposeful overcorrection in exotropia	311
Cooper EL.	
Overcorrections in exotropia surgery	319
Dunlap EA.	
An evaluation of the use of prisms in the postoperative orthoptic care of divergence strabismus	324
Laws HW.	
The role of orthoptics in the evaluation and treatment of intermittent exotropia	331
Asbury T.	
Prisms: their therapeutic use in strabismus	339
Berard PV.	
An evaluation of treatment and management of squints with relation to Pakistan	345
Wania JH.	
Practical implications of the present knowledge about subjective space in anomalous correspondence	347
Ciancia AO.	
Round table: session 5	351
Effectives of orthoptics during the postoperative period	360
Carbajal UM.	
An evaluation of bifocals and orthoptics in the treatment of esotropia with abnormal accommodation-convergence ratio	367
Caldeira JAF.	
Miotics in the diagnosis ad treatment of convergent strabismus	371
Chamberlain W.	
Phospholine iodide as an orthoptic tool	375
Gonzalez C.	
An evaluation of successes and failures of orthoptics	384
Limon de Brown E.	
The criteria of recovery	388
Jonkers GH.	
The value of orthoptics in the treatment of paralytic strabismus	392
Tsamparlakis J.	
Round table: session 6	396
Report of working group II	404
Thomas CH.	
An evaluation of the present status of medical and surgical treatment of exodeviations (clinical and etiological considerations)	409
Agundis TM.	
An evaluation of the present status of medical and surgical treatment of exodeviations	413
Palomino Dena F.	
Considerations on postoperative diplopia	417
Focosi M.	
Study of ocular myopathy	420
Maruo T.	
Contribution to the genesis of strabismus	426
Molnar L.	
Psycho-pedagogic aspects of observation and treatment of strabismic and amblyopic patients	431
Moutinho H, Dos Santos J.	
The incidence of postoperative diplopia in older children (above the age of 9) and adults	435
Nawratzki I.	
The role of contact lenses in the management of strabismus	441
Schlossman A.	

Evaluation of modern methods of diagnosis and treatment of squint with special reference to conditions obtained in India Talwalkar VS.	445
Optical overcorrection of the manifest hyperopia in cases of convergent strabismus Rethy I.	449
Orthoptics and pleoptics in Thailand Dumavibhat P.	455
Round table: session 7	456

**Transactions 3rd International Strabismological Association
1978, Kyoto, Japan**

Welcoming remarks	xiii
Ciancia A.	
Opening address	xv
Tuge T.	
Opening ceremony	xvi
Awaya S.	
Bielschowsky lecture	xvii
Jampolsky A.	
Normal, deprived and congenitally abnormal geniculocortical pathways	1
Guillery RW.	
Development of the geniculocortical pathways	11
Sherman SM.	
A primate model for amblyopia	23
Von Noorden GK.	
Stimulus vision deprivation amblyopia in humans	31
Awaya S.	
A new method of oculography	45
Huber A, Meyer E.	
Saccadic velocity studies with mechanical restriction of ocular mobility	53
Metz HS.	
The cover test	61
Pigassou-Albouy R, Jones ST.	
Prototype of an ophthalmotrope	67
D'Esposito M, Cennamo F, Cennamo G, De Franciscis P.	
Isometric force measurements from the horizontal muscles in exodeviations	73
Strachan IM.	
Human strabismic cases suggestive of asymmetric projection of the visual pathway	79
Tsutsui J, Fukai S.	
Ocular motor anomalies in monozygotic and dizygotic twins	89
Rubin W, Helm C, McCormack MK.	
The comparative study of the incidence of unilateral amblyopia during the past ten years	97
Katsumi O, Uemura Y.	
The racial distribution of strabismus	107
Ing MR, Pang SWL.	
The significance of retraction of the globe on infraduction in certain cases of thyroid eye disease	111
Harcourt B, Mein J, Crompton J, Johnston P.	
Intra- and interindividual variation in atropine-resistant residual accommodation	117
Gregersen E, Pontoppidan J, Rindziunski E.	
Differential electro-oculography	123
Weiss JB.	
A clinical assessment of a new treatment for amblyopia	133
Watson PG, Banls RV, Campbell FW, Hess RF.	
Dynamic visual acuity and nystagmus	149
Verin P, Vildy A, Maurin JF.	
Downbeat nystagmus and strabismus	155
Reinecke RD.	
Electrophysiological analysis of congenital nystagmus before and after Anderson's surgery	159
Ohmi E, Fujita J, uboi T, Ogli K, Kani K.	
Surgical treatment of congenital nystagmus with horizontal torticollis	169
Berard PV, Mouillac N, Reydy R, Spielmann A.	
Abduction paralysis and ocular deviation	177

Virdi PS.	
The range of fusion in reduced monocular and binocular vision	185
Aust W.	
Orthoptic and prismatic treatment of congenital nystagmus	191
Bagolini B.	
Latent nystagmus and its etiology	203
Ishikawa S.	
Nystagmus blockage: classification and surgical management	215
Schlossman A, Muchnick RS.	
The faden operation in the treatment of congenital nystagmus	235
Muhlendyck H.	
Weak cycloplegia for correction of exodeviations Part I: Rationale and selection of solutions based on depth of cycloplegia within two hours	249
Bicas HEA, Faria-Sousa SJ, Midorica R.	
Weak cycloplegia for correction of exodeviations Part II: Duration of partial cycloplegia and values of the AC/A ratio	271
Bicas HEA, Midorica R, Faria-Sousa SJ.	
Early surgery in intermittent exotropia	287
Pratt-Johnson JA, Barlow JM, Tillson G.	
The tight lateral rectus syndromes	297
Wong GY, Young J.	
Vertical microstrabismus with large latent deviation	313
Hardjowijoto S.	
Prismatic therapy for unilateral aphakia due to congenital cataract	319
Campos C, Enoch JM, Rabinowicz IM.	
Basic steps in the recession of the superior oblique muscle	327
Caldeira JAF.	
Rotating surgery in cases of severe head tilt	331
DeDecker W, Conrad HG.	
Indications for adjustable rectus recession	337
Rosenbaum A, Metz H, Carlson M, Jampolsky A.	
Planning inferior oblique muscle surgery	347
Scott AB.	
Action of recessions and resections when associated with Cuppers fadenoperation in esotropia. Statistical results	355
Spielmann A, Lulan J.	
Further experiences with muscular neurotisation in surgery of traumatic abducens paresis	371
Aichmair H.	
Anterior segment ischaemia following surgery on two rectus muscles	375
Fells P. Marsh RJ.	
Complications of strabismus surgery	381
Almeida HC.	
Studies on the Bielschowsky head tilt test	387
Wanatabe Y, Mori R, Ohtsuki H.	
Sensory adaptations to cyclodeviations	399
Guyton DL, von Noorden GK.	
Measurement of compensatory cycloduction by fundus photographic method	405
Inatomi A, Terao N, Okamoto K.	
Calibrated measurement of eye movements in lateral rectus paralysis	415
Velez G.	
Liquid crystal phase difference projection haploscope	419
Yazawa K, Kato K, Kawamura M.	
A computerised model of human ocular movements	429
France TD, Burbank DP.	
Transactions 4th International Strabismological Association	
1982, California, USA	

Opening remarks	xvii
Arruga A.	
Linksz award	xix
Crone RA.	
Introduction to Bielchowsky lecture	xxi
Von Noorden GK.	
Bielchowsky lecture: Ocular motility disorders in pediatric disease	xxii
Wybar K.	
Etiology of early strabismus	1
Ham O, Puentes M, Cabrera F, Hamedo D, Diaz T, Silva ML, Claramunt M.	
Gait and postural sway examinations in strabismic children with convergence excess	11
Lennerstrand G, Odenrick P, Sandstedt P.	
Microtropia: comparison of two geographically different groups	21
Cunha LAP, Caldeira JAF.	
Binocular vision and OKN asymmetry in strabismic patients	35
Flynn JT, Pritchard C, Lasley D.	
Ocular morbidity in very low birthweight infants	45
Keith CG, Kitchen WH.	
Early surgical alignment for congenital esotropia	55
Ing MR.	
Results of treatment in congenital infantile esotropia	67
Pratt-Johnson JA, Tillson G.	
Nystagmus blockage syndrome: revisited	75
Von Noorden GK, Avilla CW.	
Early medical treatment of strabismus before the age of 18 months	83
Sarniguet-Badoche J-M.	
Decreasing behavioural flexibility (of adjustment to strabismus) as the cause of resistance against treatment during first year of life	91
Rethy S, Rethy-Gal S.	
A test for predicting the effectiveness of penalisation on amblyopia	103
Wright KW, Guyton DL.	
A controlled study comparing CAM treatment to occlusion therapy	115
Nyman KG, Singh G, Rydberg A, Fornander M.	
Kids versus kittens or is a long term constant occlusion dangerous?	125
Weiss J-B.	
Pattern reversal visual evoked potentials in congenital esotropia	131
Clancia AO, Garcia HA, Cammarota A.	
Recurrent esotropia following early successful surgical correction of congenital esotropia	143
Freeley DA, Nelson LB, Calhoun JH.	
Deteriorated accommodative esotropia	149
Nakagawa T.	
Decompensated strabismus	157
Hiatt RL.	
Latency (P2) of the transient response (VECP) in different types of amblyopia	173
Haase W, Goossens H.	
Preliminary results of treatments of high AC/A with medial rectus recession	181
Zak TA.	
An evaluation of accommodative esotropias	189
Mazow ML, Kaldis LC, Prager TC.	
The use of extended-wear contact lenses in the treatment of accommodative esotropia	195
Calcutt C, Holland B, Mathalone B.	
The surgical treatment of combined-mechanism accommodative esotropia	203

Mittelman D.	
Deterioration in accommodative esodeviation	213
Raab EL.	
The electroretinogram in high hypermetropia	225
Meyer E, Perlan I.	
The surgical management of intermittent exotropia in adults	233
Schlossman A, Muchnick RS, Stern KS.	
Single lateral rectus muscle recession for small angle exotropia	247
Reynolds JD, Hiles DA.	
Master eye in exophoria	255
Kubo M, Tamura O.	
Surgical treatment of exotropia with poor vision	263
Velez G.	
Management of intermittent exotropia	269
Hardesty HH.	
Patterns of binocularity after surgery for exotropia	275
Wolff SM.	
Congenital, heredity downbeat nystagmus	277
Bixenman WW.	
Late onset esotropia with abducting nystagmus	291
Hoyt CS.	
Latent nystagmus, a developmental oculo-motor disorder	293
Schulz E.	
Torsional Kestenbaum procedure: evolution of a surgical concept	301
Conrad HG, de Decker W.	
Acquired nystagmus in infancy; a benign or threatening sign?	317
O'Neill JF, Chu FC, Cogan DG, Hammock MK.	
Combination of artificial divergence with Kestenbaum operation in cases of torticollis caused by nystagmus	329
Roggenkamper PR.	
Progressive, exaggerated A-pattern strabismus with presumed fibrosis of extraocular muscles	335
Fells P, Waddell E, Alvares M.	
Duane's retraction syndrome: consideration on pathophysiology and etiology	345
Huber A.	
Orbital and facial anthropometry in A and V pattern strabismus	363
Ruttum M, von Noorden GK.	
Present status of strabismus in craniofacial anomalies	371
deBrown EL, Monasterio FO.	
Vertical strabismus associated with plagiocephaly	373
Robb RM, Boger WP, III	
Electromyography in congenital familial ophthalmoplegia	379
Cibis GW, Kies R, Lawwill T, Varghese G.	
Isolated palsy of the inferior division of the oculomotor nerve: a case report and review of the literature.	391
Musarella MA, Buncic JR.	
Oculomotor paralysis in association with periorbital hemangioma	397
Palmer EA.	
Benign recurrent sixth nerve palsies in childhood: secondary to immunization or viral illness	399
Werner DB, Savino PJ.	
Similarities and differences between strabismus and amblyopia: an eye movement study	401
Stark LW, Ciuffreda KJ, Kenyon RV.	
Optomotor effect in esotropia under general anesthesia	429
Mitsui Y, Tamura O, Berard PV, Reydy R.	

Visually and auditory evoked saccadic reaction time in amblyopia Fukushima M, Tsutsui J.	443
Dynamic changes of ocular motility in the tight lateral rectus syndrome Nemet P, Ron S, Gur S.	451
Pursuit movement disorders and the prognosis of strabismus treatment Tsutsui J, Fukai S, Kimura H.	459
Efficacy of the fadenoperation Conrad HG, Kluge G, Treumer H.	467
Evaluation of the posterior fixation operation with saccadic velocities Kushner BJ.	483
Pattern appearance – disappearance VEPs in anisometropic amblyopia Ohzeki T, Adachi-Usami E.	495
Objective evaluation of binocularity in strabismus with VER Campos EC, Chiesi C, Sargentini AD, Macellari V.	503
A new approach to the objective evaluation of binocular function Uemura Y, Katsumi O.	511
Observation of abnormal retinal correspondence by infrared television fundus haploscope Ohmi E, Kani K.	523
A new instrument for the study of binocular vision and the correction of its anomalies Mawas LJ, Mawas E, Weiss J-B.	533
Disparity in stereotests Lin LL-K, Jeng S.	541
Studies on aniseikonia and stereopsis with the new aniseikonia tests Awaya S, Sugawara M, Horibe F, Miura M.	549
Usefulness of filters of progressive density as a diagnostic tool for some strabismic problems Bagolini B.	561
A comparative study of denervation and extirpation for marked inferior oblique overaction Del Monte MA, Parks MM.	567
Muscle imbalance in retinoblastoma: a study of 104 patients Carbajal UM, Sison-Diego	581
The factors determining the surgical strategy for strabismus Roth A, Safran AB, Rapp B.	583
The posterior fixation suture for abnormal distance/near relationship esotropia Reynolds JD, Hiles DA.	593
Complete superior and inferior rectus transposition with adjustable medial rectus recession for abducens palsy Rosenbaum AL, Foster RS, Ballard E, Rosales T, Gruenberg P, Choy A.	599
Effect of prisms on angle of strabismus Veronneau-Troutman S.	607
Discriminant analysis of acquired esotropia: predictor variables for short and long term surgical outcomes Bateman JB, Parks MM, Wheeler N.	609
The association fadenoperation – adjustable surgery Spielmann A.	627
Modification to the classic concept of oblique muscles global insertion Bernasconi MdH, Dobsky S, Rivas E, Palma Y, Pacheco A.	637
The histopathology of human strabismic extraocular muscles McNeer KW.	643
Development of the nerves of the extraocular muscles Sevel D.	645
The use of A scan ultrasonography to design the strabismus operation Gillies WE, McIndoe A.	659

Anatomical variation of the insertion of the inferior oblique muscle Emmel DK, Apt L, Foos RY.	669
The position of the eyes under general anesthesia in esotropia: the opto-motor reflex and the stretch test Berard PV, Reydy R, Jordan D.	675
Electromyographic and forced duction findings in Moebius' syndrome Strachan IM.	691
Role of temporal and nasal retina in optomotor reflex of esotropia under general anesthesia Tamura O, Mitsui Y.	699
Histopathological study on the monkey extraocular muscles under botulinum toxin injection Mukuno K, Scott AB, Ishikawa S.	707
Surgical management of deteriorated accommodative esotropia Crouch ER Jr.	711
Reversed fixation test (RFT): a new tool for the diagnosis of dissociated vertical deviation (DVD) Kommerell G, Mattheus S.	721
Surgical treatment of torsion: an objective assessment Scott WE, Gitschlag G.	729
Fundus haploscope and the measurement of cyclodeviation Inatomi A, Takahashi F, Kani K.	733
Further studies on the Bielschowsky head tilt test Wantanabe Y, Mori R, Ohtsuki H, Ichikawa R, Egi K, Hitomi M.	739
Quantitative forced traction measurements in strabismus Metz HS, Cohen G.	755
Muscle injection to correct strabismus Scott AB.	767
The 1982 Costenbader lecture: special forms of comitant strabismus Lang J.	769
Measured graduated recession of the superior oblique muscle Romano PE, Roholt P.	791
Brown's syndrome following superior oblique tuck Saunders RA, Grady JL.	803
Techniques used for weakening the inferior oblique Romero-Apis D, Martinez-Oropeza S.	805
Superior oblique plication: its application and indications in early onset convergent strabismus Van Selm JL.	813
Differences between congenital and acquired superior oblique palsies Dickson JB, Calhoun JH.	815
Denervation and extirpation of the inferior oblique muscle as the primary surgical procedure in the treatment of superior oblique palsy Katz NNK.	821
Brown's syndrome in the light of gradmented and overdeveloped superior oblique tendon De Decker W, Conrad HG.	829
Desagittalisation of the oblique muscles as a surgical treatment of strabismus Gobin MH.	835
Superior oblique dysfunction of traumatic origin Harcourt B, Spencer F.	843
Compared measurement of A and V anisotropia at the perimeter and in free space deAlmeida HC.	851
A remote cover test using concave mirrors Guyton DL.	857

Experimental observations about eye torsion Souza-Dias C, Bottos JC, Filho EJG.	865
Congenital monocular limitations of elevation by inferior rectus abnormalities Kubota N, Maruo T.	877
Results of Knapp and Callahan procedures in hypotropia and pseudoptosis Lee JP, Collin JRO, Timms C.	885
Symptomatic dissociated hypers (DVD) – results with unilateral superior rectus recessions Moore TF.	895
The use of synoptometry in diagnosis of eye movement disorders Krzysztowska KM, Kubatko-Zielinska A.	897
Keratitis sicca following strabismus surgery: a new syndrome Eisenbaum AM, Sargent RA.	911
Anterior segment ischemia caused by Jensen's procedure Frey T.	913
Compensatory mechanisms in selective tenotomy Wilcox LM, Keough EM, Connolly RJ.	921
Adjusting adjustable eye muscle sutures under general anesthesia Bedrossian RH.	923
Adjustable strabismus suture techniques in children Gammon JA, Forestner J.	931
Pediatric epikeratophakia Morgan KS, Asbell PA, May JG, Loupe DN, Kaufman HE.	937

**Transactions 6th International Strabismological Association
1990, Australia**

The sixth Bielchowsky lecture: Control of eye vergence and anomalous retinal correspondence Bishop PO.	7
Amblyopia: Correlation Between Human And Animal Research G K Von Noorden	25
Amblyopia In Old People And Residual Amblyopia In Children: Prevalence Before And After Free Visual Acuity Screening And Occlusion Treatment E Gregersen, A Jenson, E Rindziunski, T Vinding	31
Amblyopia: Care And Prevalence In Pre-School Children , Campinas, Sao Paulo, Brazil K M Monteiro De Carvalho, N Kara-Jose, R Caldato, A M Oliviera, J Fonseca Neto, V L Pereira	39
The Incidence Of Amblyopia In Long Standing Untreated Infantile Esotropia A D N Murray, C Calcutt	45
Comparison Of Treatment Methods In Strabismic Amblyopia R M L Doran, S Yarde, A Starbuck	51
Amblyopia, Strabismus And Anisometropia In Congenital Glaucoma Patients L M Christmann, JG Ferguson	61
A Trial Of P-ERG For The Aid Of Therapy In Amblyopia S Takayama, K Nomura, K Fujioka, T Shinkai, M Yamamota	67
Retinal Sensitivity In Amblyopia Cases M Ito, M Imaizumi, H Miyazawa, M Yamamoto	73
Pattern VEP And Accommodation In Anisometropic Ambylopia T Ohzeki	79
Observations On Grating Acuity Measures Of Children In Clinical Practice Using Teller Acuity Cards A Chanda, R M L Doran	85
Development Of Visual Acuity Test By Grating Acuity Cards In Pre-Term And Full-Term Newborn And Premature Infants H Miyazawa, M Yamamoto	95
Visual And Ocular Motor Assessment Of Infants: A Preliminary Report L Mckenzie	101
Studies Of Stereoacuity In Infants By The Tv-Random Dot Stereo Test S Awaya, Y Mizukami, A Kamiya, E Koizumi, S Miyake	109
Clinical Applications Of Stereograms Made With IBM Microcomputer L L K Lin, S F Wu, J H Jan, A H Wang	115
Evaluation Of Langs Test As A Screening Procedure In Children L A Peduti-Cunha, J A F Caldeira	121
Influence Of Vertical Fusion On Horizontal Fusion W Aust	127
Binocular Dissociation By The Mechanism Of Time Separation A H Wang, J H Jan, J H Yu, L L K Lin, L S Ko	131
The Observation Of Eye Movement Using Magnetic Resonance Imaging Y Nishida, E Nishida, K Kani, A Inatomi	137
Dynamic Analysis Of Head Movements By Means Of A 3 Dimensional Position Measurement System Y Watanabe, H Ohtsuki, H Okayama, H Konishi, Y Fujiwara, S Hasebe, M Takeda	143
A Clinical Method Of Measuring The CA/C Ratio I Strachan, M Watts	149
Photographic Measurement Of The Angle Of Strabismus M S Ruttum, K Shimshak, M Chesner	155
The Use Of The Corneal Reflex Test Through Glasses	161

Y Hatsukawa, T Otori, B Patel, C Hogg, P Fells Squint Surgery Performed With Measurement Of The Globe By A –Scan Compared With Standard Surgery	167
W E Gillies, A M V Brooks A Method For Determining Intraoperative Length-Tension Curves Of Human Extraocular Muscles	173
J E Egbert, A L Rosenbaum, T M Keoghan Jr, N C Wheeler, K A Buzard, C Wang A Right Angle Siamese Twin Calliper For Greater Accuracy And Precision In Eye Muscle Surgery	179
P E Romano, C E Hess Application Of The Computer In Strabismology	185
J H Jan, L L K Lin, A H Wang, Y F Shih Polaroid Photorefractive Screening For Amblyopia	189
H L Freedman, K L Preston A New Dot Visual Acuity Test For Children	195
H Morizane, K Morizane Event-Related Potentials In Disturbance Of Vision Of Psychogenic Origin	201
Y Oguchi Pathophysiology Of The Symptoms Of Infantile Strabismus	209
A Spielmann Origin Of The Lateral Rectus Paresis In Strabismus of High Myopic Patients	215
B Bagolini, A Dickman, C Tamburrelli, C Colosimo Duane's Retraction Syndrome: A Review Of 72 Cases	221
F J Martin, K M Bourne Further Insights Into Developmental Errors Causing Duane's Syndrome Revealed By A New MRI Technique	229
A L Rosenbaum Strabismus Resulting From Retinal Detachment Surgery: Some Aspects Of Management	235
A F Hilton Oscillopsia In Congenital Nystagmus	243
L A Abel, I M Williams, L Levi Treatable Nystagmus (Manifest Latent Nystagmus)	249
R D Reinecke, A A Zubcov Results Of Horizontal Rectus Muscle Surgery To Modify The Null Point In Congenital Nystagmus	255
J A Pratt-Johnson Compensation Mechanisms And Treatment In Nystagmus Patients With Albinism Or Congenital Cataract	261
H Muhlendyck Symposium On The Management Of Fully Accommodative Esotropia	269
P Fells, PV Berard, M Gobin, A Jampolsky, A C B Molteno, G K Von Noorden, C Shor, M Spiritus Outcome Of Accommodative Esotropia	307
T Nakagawa, T Kii, S Mori Long Term Follow-Up Of Refractive Accommodative Esotropia	315
N Kubota, S Akatsu The Accommodative Component After Esotropia Surgery	319
E L Raab Ultra-Early Surgery For Essential Infantile	325
E M Helveston Late Management Of Infantile Esotropia	335
AA Assaf Stability Of The Monofixation Syndrome	343
B W Arthur, J T Smith, W E Scott Clinical Characteristics Of Non-Accommodative intermittent esotropia	349

S Akatsu, H Iwashige, N Kubota, T Maruo	
Defining The Limits Of Safe Recession Of The Horizontal Recti Muscle	355
A M V Brooks, M R Rivers, N T Strong, W E Gillies	
Outcome Of Early Overcorrection Of Exotropia	363
E L Raab	
Binocularity After Surgery For Intermittent Exotropia	363
S M Wolff, D N Loupe	
Surgical Alignment For Exotropia In Children	375
M R Ing	
A Typical Exotropia	381
Y Uemura, N Nozaki, R Yamada	
Differential Resection Of Medial Recti In Convergence Insufficiency	385
P Nemet, C Stolovitch	
Survey Of Current Management Of Intermittent Exotropia In The Usa And Canada	391
P E Romano, M F Wilson	
Treatment Of Exotropia With Gasserian Ganglion Block	397
O Tamura, M Abe	
Botulinum Toxin Treatment Of Strabismus	401
A B Scott	
Botulinum Treatment Of Childhood Strabismus	403
A B Scott, E H Magoon, K W Mcneer, D R Stager	
The Physiology Of Botulinum Toxin	409
J S Elston	
Botulinum Toxin: An Alternative To Squint Surgery In Childhood?	413
S Ahgoue, J P Lee	
The Histopathology Of Botulinum Toxin Injection Into Extraocular Muscles	421
R F Spencer	
Botulinum Toxin For Restrictive Strabismus	429
J Lee	
A Discussion Of The Current Role Of Botulinum Toxin In Paralytic Strabismus	435
R Fitzsimons	
Lateral Rectus Muscle Transplantation Surgery For Third Nerve Palsy	443
J Norton Taylor	
Anterior Ciliary Vessel Preservation During Rectus Muscle Surgery	451
C A Mckeown, H M Lambert, J W Shore	
Personal Approach For Adjustable Sutures Technique	457
E C Campos, C Chiesi, R Gulli, C Schiavi	
Post Operative Drift Following Adjustable Strabismus Surgery	463
R Morris, B Mccarry, P Fells	
Results Of Stage III Intraoperative Adjustment Of Eye Muscle Surgery	473
(Under General Anesthesia) For Neuroparalytic And Mechanical Strabismus	
P E Ramono	
Superior Oblique Silicone Expander For Browns Syndrome And Superior	479
Oblique Overaction	
K W Wright	
Desagitalization Of The Superior Rectus: A Simple Method To Correct	481
Abnormal Head Posture In Congenital Absence Of The Superior Oblique	
S Miyake, K Tsuzuki, T Yagasaki, S Awaya	
A Study Of Horizontal Strabismus Surgery: Is Medial Rectus Surgery	487
More Effective On Near Deviation?	
M Deguchi, T Yokoyama, K Kamihata, Y Matsuzaka, K Kawanami,	
S Hosoi And H Tanaka	
Overnight Admission Of Outpatient Strabismus Patients	493
S J Isenberg, L Apt, S Yamada	
Neurological Correlates To Strabismus And Other Ocular Motility Disturbances In	501
Meningomyelocele	

G Lennerstrand, L Samuelson	
Ocular Motility Defects In Motor Neurone	509
K G Gibson	
The Effect Of Radiotherapy On Abnormal Eye Movements In	517
Dysthyroid Orbitopathy	
J S Elston, P N Plowman	
Oculomotor Problems Associated With The Blepharophimosis Syndrome	519
J W Walker, R Collins	
Blowout Fractures Combined With Isolated Laceration Of Rectus Muscles	521
C Stolovitch, P Nemet, M Lazar	
Ocular Morbidity In Extremely Low Birth Weight Infants	527
C G Keith, L W Doyle, W H Kitchen	

Transactions International Strabismological Association
19-23 June 1994, Vancouver, Canada

Evaluating The Optical Status Of The Human Eye	3
SH Hay, P Reiner, R Bryant	
Inter-Observer Variability Of Cycloplegic Refraction In Children	7
S Jamal, G R Laroche	
The Variability Of Ophthalmological Parameters In Normal Children	11
Age 4 ½ To 5 ½ Years	
S Lam, G R Laroche, I De Becker, H Macpherson	
Polaroid Photoscreening. A New Model And Interpretation Standards	15
H L Freeman, L Griffin	
The Results Of Russell Corporation-Sponsored Eye Screenings In 14,000 Children	19
K S Morgan, J C Kennemer	
Deficiencies Of The Fixation Mechanism	23
J Lang, P Bischoff	
Photopic Visual Field In 2 Month Old Infants	27
A Fea, M Delpiano, A Soldi, M Musso, E Miraglia, C Martano, L Mayer, F Vitale Brovarone	
A Sweep VEP Test For Colour Deficits In Infant Children	31
T D France, J N Ver Hoeve	
Changes In Corneal Topography After Strabismus Surgery In Children	35
X-H Wang, ME Wilson, E LC Bluestein	
Longitudinal Changes Of Refractive Error In Esotropic Operated And Unoperated Young Children	39
M Spiritus, O Kallay Jr, C Denis, M Van Der Broeck, D Hoffman	
Focal Macular ERG In Ambyopia: With Special Reference To The Difference Between Hypertropic Anisometropia And Myopic Anisometropia	43
A Awaya, H Tanaka, Y Miyake, T Yagasaki, N Nakamura, Y Suzuki	
Efficiency Of Preferential Looking Test And PVEP In Detecting Amblyopia In Infants With Or Without Mental Handicaps	47
M S Roy, M Barsoum-Hornsy, LM Khouri, C Tremblay	
A Comparative Study Of Near And Distant Visual Acuity In Ambyopic Eyes	51
W Haase, B Schmal, B Damashke, E Meyer	
Citicoline Improves Temporarily Visual Acuity Of Amblyopic Patients Outside The Plastic Period Of Visual System	55
E C Campos, C Schiavi, P Bededetti, R Bolzani	
Steroid Injection Vs Conservative Treatment Of Anisometropic Amblyopia In Juvenile Adnexal Hemangioma	59
MV Motwani, J W Simon, J Pickering, R A Catalano, P L Jenkins	
Using An Ocular Contact Lens For Amblyopia Management	63
C G Summers, LK Davis, JE Egbert	
The Physiology Of Suppression In Strabismus	69
R Harrad, F Sengpiel, C Blakemore	
Neuroanatomic Abnormalities Of Visual Cortex In Infantile Esotropia	73
L Tychsen, A Burkhalter	
Fly Test Calibrated	77
W De Decker, E Dannheim, R Gockeln	
Preliminary Evaluation Of A Newly Designed Random Dot Test	81
L L K Lin, S F Wu, A H Wang	
Binocular Sensory Testing	85
B W Arthur	
Cortical Binocular Recovery Following Strabismus Surgery	89
L W Baitch, M W Preslan	
The Relationship Between The Angle Of Strabismus And Degree Of Binocularity In The Monofixation Syndrome	93

Observation Of Retinal Correspondence In Esotropia	97
M Mitta, F Takahashi, K Kani, A Inatomi	
Distance Stereo Acuity Improvement In Intermittent Exotropia Patients	101
Following Surgery	
T D O'Neal, A L Rosenbaum, R A Stathacopoulos	
Discussion Of: Distance Stereo Acuity Improvement In Intermittent	104
Exotropic Patients Following Strabismus Surgery	
D L Guyton	
Abnormal Motion Perception In Early Onset Esotropia	106
S Hague, J Shallo-Hoffman, P Fells, M Gresty	
The Use Of Bangerter Foils In The Management Of Intractable Diplopia	110
A Mcintyre, P Fells	
The Ultrastructural Immunohistochemistry Of Thyroid-Associated Ophthalmopathy	117
A Pappa, P MG Munro, R C Howes, P Fells, S Lightman	
Electrophysiological, Biochemical And Morphological Study In External	121
Congenital Ophthalmoplegia	
A Magli, P Vastarella, T De Berardinis, F D'Esposito, L Santoro, A Orsini, R Nucciotti	
Observation Of Extraocular Muscle Atrophy In Cases Of Peripheral Nerve	125
Palsy Using MRI	
Y Aoki, Y Nishida, T Murata, O Hayashi	
Cine Magnetic Resonance Imaging Of Eye Movements	129
R Harrad, M Potts, P Goddard, J Kabala, B Hoh	
Modified Periodontal Probe For Simplified Forced Duction Measurements	132
H S Metz, R Yeaple	
Variations In Medial Rectus Stretching In Esotropia	136
A Pechereau, M A Quere, M Weber	
The Development Of Eye Movements In Infancy	140
M Jacobs, C Harris, D Taylor	
Saccadic Velocity Analysis In Patients With Divergence Paralysis	144
L Lim, A L Rosenbaum, J L Demer	
Saccadic Velocity And Force Development In Duane's Retraction Syndrome Type I	148
S Tian, G Lennerstrand	
Saccadic Adaption Following Adjustable Suture Surgery	152
R W Hertle, D B Granet, M Movaghar	
Stability Of The Eyes In Torsional Direction: Spontaneous Torsional	156
Eye Movements Are Conjugate	
L J Van Rijn, J Van Der Steen, H Collewyn	
A Combination Horizontal/Vertical Prism Bar	159
U Flueller, K M Elhatton, D L Guyton	
Iris Plane Parallel Measurement In The Hirschberg	163
(Corneal Light Reflection Test) For Binocular Misalignment (Strabometry)	
P E Romano	
Vergence Responses To A Base Out Prism	167
E Cornell	
Comparison Of 3 Standard Clinical Test And A New Test For The	171
Measurement Of Torsional Diplopia	
OKN Asymmetry In Treated Esotropes	175
K W Wright, M Borchert, A A Leverant, J M Hwang	
OKN Asymmetry In Treated Esotropes	178
H P Goldstein, R D Reinecke	
Surgical Treatment Of Exodeviations With Congenital Nystagmus:	182
Problems Related To Deviations With Blocking Convergence And Pseudo-Latent Nystagmus	
A Spielmann, A C Spielmann	
Nystagmus Dampening Surgery: Cosmetic Or Functional?	186
J E Egbert, J H Anderson, C G Summers	
Long Term Evaluation Of Extra Ocular Muscle Surgery For Congenital	190

Nystagmus And Abnormal Head Posture E Schulz, E Meyer, W Haase, J Lithander The Treatment Of Congenital Nystagmus With Botox J Carruthers	194
Accommodative Amplitude In Children Wearing Bifocals GK Van Noorden, R H Jenkins M X Repka	201
Discussion Of "Effect Of Bifocals On Accommodative Range Children" By G K Von Noorden And R H Jenkins	205
Hyperopia In Infantile Vs Acquired Esotropia: Implication For Glasses M X Repka	207
Prophylaxis To Prevent Acquired Esotropia G W Cibis, M A Crandall	
Progressive Increase In The Angle Of Deviation In Congenital Esotropia M R Ing	211
Ocular Deviation Under Atropine Cycloplegia As A Predictor Of The Accommodative Component Of Esotropia P Nemet	214
Prism Adaption In Variable Esotropia S A Stewart, C G Summers, J D Lavoie, J E Egbert	217
The Influence Of The Prism Adaption Test (PAT) On Surgery For Intermittent Exotropia S Veronneau-Troutman, E Traykovski, J Derosa	220
The Correlation Between Axial Length And The Response To Strabismus Surgery M Graf, T Krzizok, H Kaufmann	224
Relating The Angular Correction To The Amount Of Strabismus Surgery W E Gillies, M R Rivers, A M V Brooks	228
Results Of 8 And 9mm Bilateral Muscle Recessions For Exotropia J E Berland, M E Wilson, R A Saunders	232
Large Bimedial Rectus Recession (6.5mm Or More) In The Management Of Large Angle Esotropia A A Assaf	236
Long Term Effectiveness Of Bilateral Medial Rectus Recession In Congenital Esotropia And Acquired Accommodative And Non Accommodative Esotropia D V Bautista, W E Scott, B Zimmerman, S Sarin	240
Surgical Success In Patients With Acquired Esotropia And High Refractive Error J Rysenga, JD Baker, J D Roarty, J Petrunak, M Schweers	244
Alignment Success Following Medial Rectus Recessions In Normal And Delayed Children J D Pickering, J W Simon, C D Ratliff, K B Melsopp, L L Lininger	248
Predictive Factors For Exotropia Following Esotropia Surgery W R Lee, R V Keech, J Kim	252
Vertical Shift Of The Medial Rectus Muscles In The Treatment Of A Pattern Esotropia- Analysis Of Outcome S E Brooks, G Deb Ribeiro, S M Archer, M A Del Monte	256
Treatment For A And V Patterns By Slanting Muscle Insertion B Biedner, Y Yassur	260
Unilateral Surgery For Exotropia With Convergence Weakness S P Kraft, A V Levin, R W Enzenauer	264
Anterior Tenonectomy In Horizontal Rectus Muscle Resection: Effect On The Post-Operative Appearance Of The Conjunctiva H Van Hecke, M T Miller, P K Rabiah, S El-Naggar	268
Vertical Rectus Muscle Transposition In Complete VI Cranial Nerve Palsy V Sarnicola	273
The Superior Rectus Contracture Syndrome A Jampolsky	279

Inferior Transposition Of The Horizontal Recti (Inverse Knapp Procedure) For The Treatment Of Acquired Inferior Rectus Paresis J P Burke, R V Keech	283
An MRI Study Of Double Elevator Palsy W Cadera, J N Bloom, S Karlik	287
The Spectrum Of Anatomic Variations In Congenital Superior Oblique Palsy C Y Lo, T Maruo	291
Facial Asymmetry And Superior Oblique Tendon Laxity In Superior Oblique Palsy E A Paysse, D K Coats, D A Plager	295
Should Early Surgery Be Performed For Head Tilts To Prevent Facial Asymmetry? C R Goodman, E Chabner, D L Guyton	299
True Versus Masquerading Superior Oblique Palsies: Muscle Mechanisms Revealed By Magnetic Resonance Imaging	303
Superior Oblique Myokymia J T H N De Faber, R L J Van Rijn	307
The Use Of The Computer-Assisted Lancaster Test In The Evaluation Of A New Operation For Mild Superior Oblique Palsy C Gonzalez, G Ciniciripini, R Sanchez	311
Unilateral Modified Harada-Ito Procedure For Excyclotorsion Secondary To Unilateral Superior Oblique Palsy M H Younis, A Vivian, J P Lee	313
Effect Of The Superior Oblique Silicone Expander For Superior Oblique Overaction C Park, S C Park	317
Superior Oblique Tenotomy With Expander D Stager, G Beauchamp, M Parks	321
Efficacy Of Posterior Tenectomy Of The Superior Oblique For A-Pattern Anisotropia N Kara-Jose	322
Anterior Transposition Of The Inferior Oblique In The Treatment Of Fourth Nerve Palsy C Gonzalez, G Ciniciripini	326
Surgical Procedure In Congenital Brown's Syndrome H J Kaiser, H Muhlendyck, H Thaller-Antlanger	329
Inferior Oblique Overaction In Congenital Esotropia: Fundus Exocyclotorsion As A Predictive Sign H S Eustis	333
Vertical Deviations Secondary To Inferior Oblique Inclusion In Previous Lateral Rectus Surgery R A Cline	336
Nasal Myectomy Of The Inferior Oblique D R Stager	340
Observation Of Dissociated Vertical Deviation (DVD) By Infrared Fundus Haploscope A Brown-Limon, R R Jasso, E Limon De Brown, JF Burges, P S Lujambio, T Hernandez	347
A And V Patterns In Untreated Infantile Esotropia And Their Association With DVD C L Calcutt, A DN Murray	351
Analysis Of The Vertical Factor In Early Surgery Of Early Onset Strabismus V Paris	355
Does Dissociated Strabismus Affect Surgical Outcome In Congenital Esotropia? W O Young, M E Wilson, R A Saunders	359
Dissociated Horizontal Deviation D Romero-Apis	363
Dissociated Horizontal Deviation And Accommodative Esotropia: Treatment Options When An Eso – And An Exo-Deviation Co-Exist M E Wilson, R A Saunders, J E Berland	366
	370

Ultrastructure Of The Superior Oblique Tendon	374
E M Helveston, M Oberlander, A Evan, B Connors, J Clendenon	
Graduated Superior Oblique Surgery And DVD	377
B P Greaves, A Chadwick	
A Pattern Horizontal Strabismus, Dissociated Vertical Deviation And Superior Oblique Overaction	381
D K Coates, E A Paysse, M Sato, E M Helveston	
Surgical Treatment Of Dissociated Vertical Deviation By Faden Operation	385
II El Bably	
20 Years Experience With The Faden-Operation	391
H Muhlendyck, J Goerd, S Kellner	
Posterior Fixation Sutures (Faden Procedure) For The Management Of Convergence Excess Esotropia	395
A J Vivian, L Kousoulides, P Fells, J P Lee	
Posterior Fixation: Adjustable And Without Posterior Sutures	399
A B Scott	
Augmenting Surgery For Monocular Esotropia With A Medial Rectus Posterior Fixation Suture	403
An Alternative Of Fadenoperations In Acquired Esodeviations With Variable Angle	406
L De Clippeleir, R Apers, L Van Eckhoutte, M Van Lammeren, H Janssens, L Baekeland	
One Stage Intraoperative Adjustable Suture Technique For Correction Of Strabismus	410
J S Davis, A W Biglan, R Day, D Landsittel	
Effect Of Adjustable Sutures In Recession Of The Inferior Rectus Muscle In Thyroid Ophthalmopathy	414
M S Ruttum	
Discussion Of Paper By MS Ruttum MD	418
S M Archer	
Strabismus Surgery In Patients With Moebus Syndrome	419
D M Laby, A L Rosenbaum, S J Isenberg, B W Fleck	
Botulinum Toxin In Esotropic Approach To The Medial Rectus To Recover Lost Muscles	423
C A Mckeown, R B Metson, I M Dunya, J W Shore, M P Joseph	
Botulinum Toxin In Esotropia Patients Up To 3 Years Of Age	429
R Gomez De Liano, J M Rodriguez, P Gomez De Liano, M L De Andres	
Long Term Use Of Botulinum Toxin For Adult Strabismus	433
J P Lee	
Persisting Hypotropia Following Botulinum Induced Protective Ptosis	437
P L O Heyworth, J P Lee	
Flourescein Angiographic Evaluation Of Anterior Ciliary Vessel Preservation	441
J Olver, P Fells	
The First Textbook Of Strabismus Surgery	445
J L Mims III And T Boubel	
A New Method For Doing Chart Reviews...Without The Chart!	449
V C Hansen, L Rovick, R S Freeman	
Direct Visualization For Nasocrimal Duct Intubation	453
S K McClatchey, S J Jaafar	
A Manicure For Difficult Crawford Intubations	455
R W Arnold	
Bilateral, Monocanalicular Crawford Loop: Simple Removal For Remote NLD Patients	458
R W Arnold	
The Association Of Nasolacrimal Duct Obstructionwith Ear Infections	462
C Morse, D Sprunger	
Periocular Infection After Strabismus Surgery	464
J D Kivlion, M E Wilson	

The Autogenous Dermis-Fat Orbital Implant In Children	467
K T Mitchel, D A Hollten, W L White, M A O'Hara	
Serious Ocular Alkali Burns From The Wood Ash Of Fireplaces And Woodstoves	471
J L Zobal-Ratner, J W Simon, S Follett, P Zloty, MW Belin, D Turok	
Idiopathic Tractional Corectopia	475
C S Atkinson, M C Brodsky, D A Hiles, J W Simon	
Enhancement Of Perkins Tonometry Using An External Cobalt Blue Light Source	479
JE Berland, TP Powers, R A Saunders, H Rowe, ME Wilson, W C Stewart	
How Reliable Are Intraocular Pressure Measurements In Awake Infants And Children?	482
H Atilla, L Tychsen	
Pediatric Glaucoma – Angle Findings And Outcome	486
M M Hastings, J M Little	
Goniotomy For Glaucoma Complication Chronic Anterior Uveitis	488
A S Niffenegger, D S Walton	
Biometry Technique For Intraocular Lens Implantation In Children	495
J Lawson, M Restori, D Taylor, C Lyons	
Dimensions Of The Pediatric Capsular Bag: Implications For Intraocular Lenses In Children	499
E L C Bluestein, M E Wilson, X H Wang	
Haptic Breakage After IOL Implantation During Infancy In A Non-Human Primate Model	503
S R Lambert, H Grossniklaus	
Pars Plana Vitrectomy And Capsulotomy In Pediatric Cataract Extraction With Intraocular Lens Implantation	507
T H Metz, M A O'Hara, W C Bauman	
Visual Rehabilitation After Cataract Extraction In Children Using Intraocular Lenses	511
R W Hertle, G E Quinn, D B Schaffer, G D Markowitz, D B Granet, J A Napolitano	
Posterior Chamber Intraocular Lenses: Long Term Results In Pediatric Cataract Patients	515
E R Crouch Jr, S H Pressman, E R Crouch	
Intraocular Lens Implantation In Children (Techniques And Results 1991-1993)	519
K M Brady, D A Hiles	
Review Of Proceeding Four Papers In Intraocular Lens Implantation In Children	523
J D Baker	
Modified Indirect Ophthalmoscopy For Evaluation Of The Pediatric Retina	527
D K Coats, E A Paysse	
Can Non-Ophthalmologists Screen For Retinopathy Of Prematurity?	529
R A Saufer, E L C Blustein, J E Berland, M L Donahue, M E Wilson	
Complications Of Zone One Retinopathy Of Prematurity Treatment	533
J W Mcmanaway III, R Demaio, G W Blankenship	
ROP In Discordant Twins	537
R R Fellows, M L McGregor, D L Bremer	
Measurement Of Low Vision In Advanced Cicatricial Retinopathy Of Prematurity	542
P J Droste, M T Trese	
Molecular Diagnosis Of Inherited Retinal Degeneration In Asymptomatic Children	545
A V Drack, B E Nichols, C Sheffield, E M Stone	
An ERG, VEP And Eye Movement Assessment Of Children With Bardet-Biedl Syndrome	549
T Lavy, C M Harris, F Shawkat, D Thompson, A Kriss	
Photoaversion In Lebers Congenital Amaurosis	553
E I Traboulsi, I H Maumenee	
Causes Of The Strabismus And Diplopia After The Retinal Surgery	556
J M Hwang, K W Wright	

Retinal Re-Detachment After Strabismus Surgery	557
N Sondhi, E M Helveston	
Management Of Experimental Globe Perforation During Strabismus Surgery	561
D Sprunger, S Kalpper, J Bonnin, J Minturn	
Electroretinography As A Tool In Distinguishing Bardet-Biedl And	565
Alstrom Syndromes In Early Childhood	
A V Whittingham, S R Lambert, W B Dasher, A V Drack	
Discussion: Can Non-Ophthalmologists Screen For Retinopathy Or Prematurity?	569
E A Palmer	
Ocular Findings In Rubenstein-Taybi Syndrome: Results Of The First International	573
Symposium	
C M Ohnsman, M J Burke	
Craniosynostosis Syndromes In British Comluba	577
J Carruthers, D Berg	
Congenital Ocular Synkinesis (Aberrant Innervation)- New Concepts	581
H L Freedman, B J Kushner	
Strabismus Associated With Marcus Gunn Synkinsis	585
C Lyons, P Fells, R Collin	
Strabismus Associated With Meningomyelocele	589
A W Biglan	
Intracranial Pathology In Children Presenting As Concomitant Strabismus	593
C Timms, D Taylor	
Cerebellar Astrocytoma Presenting As Acquired Comitant	597
Esotropia At Age 18 And 27 Months	
M S Jaafar, M L Z Collins, A I Rabinowitz	
Outcome Of Sixth Nerve Palsy In Young Children	601
M Aroichane, M X Repka	
Prevalence Of Intracranial Lesions In Children Presenting With Disconjugate	605
Nystagmus (Spasm Nutans)	
K A Arnoldi, L Tyhsen	
Epiretinal Membrane: An Unusual Complication Of Childhood Optic Neuritis	609
M X Repka	
Delayed Visual Maturation	612
F Lods, C Gramet	
Ophthalmological Examination Of Brain Damaged Children	616
M De Bideron	

Transactions of 8th International Strabismological Association
10-12 September 1998, Maastricht, The Netherlands

Eight Bielchowsky lecture: The influence of superior oblique anatomy on function and treatment	xlili
Helveston E	
Retinal Nerve Fibre Layer Thickness In Human Strabismic Amblyopia	3
TP Colen, JTHN De Faber, H G Lemij	
Assessment Of Detection, Resolution And Recognition Acuities In Children, Aged 3 ½ - 6 Years, With Normal Vision, Visual Impairment Due To Ocular Disease And Strabismic Amblyopia	7
A Rydeberg, G Lennerstrand	
Visual Acuity Tests Using Chart, Line And Single Optotype In Healthy And Amblyopic Children	11
Rotterdam Amblyopia Screening Evaluation Study Ramses	15
V K Lantau, R E Juttman	
Amblyopia Is A Cause Of Visual Handicap	19
G Kvarnstrom, P Jakobsson, M Abrahamsson, E Bjernbrink Hornblad, B Sunnqvist	
Measurement Of Treatment Compliance In Patching For Amblyopia	23
H J Simonsz, Bg Dijkstra	
Ametropic Bilateral Amblyopia	26
K Verhoeff, R J Grootendorst, J T H N De Faber	
Visual Prognosis In Children With Bilateral High Refractive Errors	29
G Shalit, A Mulvihill, J Howell, G G W Adams	
The Fate Of The Hugh Hypermetropic Eye. A Long Term Follow Up	33
E Mezer, B Miller, Y Shauly, A Tamir, W Haase, A W Biglan, E Meyer	
The Pattern Of Visual Evoked Potentials In Treatment Of Amblyopia In Children	37
A Kubatko-Zielinska, K M Krzystkova, J Lebiecz	
The Strabismus Inheritance Study In Tasmania (SIST) A Pilot Study To Investigate The Risk Factors Involved In The Inheritance Of Strabismus And The Phenotypic Expression Of Strabismus In Families With Affected Pairs	41
R M Wilkinson, J M Barbour, C H Wilkinson, D A Mackey	
Motion Detection Test In Central And Peripheral Vision	45
V Belli, E Petrelli, R Bolzani	
Contrast Sensitivity , Receptive Fields And Mach Bands	49
E Petrelli, V Belli, R Bolzani	
Proprioceptive Effects On Space Localisation In Strabismus	53
Y Han, G Lennerstrand	
Does Early Onset Strabismus Inhibit The Development Of The Uncrossed Optic Pathway	57
V Herzau, S Starc	
Binocular Visual Field Of Strabismus Measured By Starlight Test	61
T Hirai, Y Ito, K Tsuzuki, M Sato	
A Development Of A New Four-Dot Test To Assess Suppression Scotoma Without Glasses	65
T Fujikado, I Matsuda, J Hosohata, G Ohmi	
Tonic Interocular Suppression In Amblyopia And Exotropia	69
S I Kawano, K Seki, E Watanabe, K Takechi, T Tsukada, T Maruo	
Binocular Function Of Parents Of Children With Infantile Esotropia In Japan	73
K Kanemoto, Y Miyzaki, M Sato	
Disruption Of Binocular Fusion By Adult-Onset Macular Dystrophy	77
R M L Doran, O Nelson	
The Effect Of Visual Acuity On The Predictive Value Of The Post-Op Diplopia Test And Botulinum Toxin A Treatment	81
J E S White, E Dawson, JP Lee, C Bunce	
Long-Term Wearing Of Prism – A Conservative Way To Cure Squint	85

Deviations In Childhood	
E Strangle-Zuschrott	
Heterotopy Of Extraocular Muscle Pulleys Causes Incomitant Strabismus	91
J L Demer, R A Clark, J M Miller	
Normal Fusion Amplitudes: With Special Attention Paid To Cyclofusion	95
D K Parkinson, J P Burke, T L Shipman	
A Computer Based System For Acquisition, Recording And Analysis	99
Of Eye Movement	
S Tian , J Yegge, R Bolzani, G Lennerstrand	
Horizontal Disparity Vergence Indifferent Gaze Positions	103
A Dickmann, D Di Nichiola, N Gianfrancesco, G Savino, L Scullica	
Vergence Stability In Microstrabismus	107
L J Van Rijn, M P M Ten Tusscher, I De Jong, F Henrikse	
Vergence Eye Movements And Asthenopia: Is Vergence Training Useful?	111
A F Van Leewen, J T H N De Faber, J Van Der Steen	
The Spring-Back Balance Test, Evaluation Of The Conjunctival Component	115
A Pechereau, J M Halberdier, F Lignerreux, F Oger-Lavenant	
The Electromyometer. A New Instrument For Measuring Muscle stretching	119
A Perchereau, J Chereau	
Strabismus As An Initial Symptom In Children With Brain Tumors	123
M D Mills, D Puccetti	
A Multi – Centre Prospective Study Of Traumatic Sixth Nerve Palsy	127
J M Holmes, D A Leske, P J Drost, R W Beck	
Botulinum Toxin A (BTA) In Treatment Of Paralytic Strabismus	131
(VI And IV Nerves Palsy) In Early And Late Periods Of Paralysis	
K M Krzystkova, R Szpytma, A Kubatko-Zielinska, A Madroszkiewick	
Results Following Treatment Of Third Cranial Nerve Palsy In Children	135
L A Schumacher-Feero, A W Biglan, F Mendiola Solari, K W Yoo	
A Patient With Sudden Diplopia Due To Abduction Limitation.	138
Paralytic Or Mechanical?	
S P A Van Hulst-Ginjaar, R J W De Keizer, M Swart-Van Den Berg, G J Vielvoye	
Treatment Of Paralytic Strabismus With Transposition And	142
Transplantation Of The Superior Oblique	
X Guo, L Ma, G Xu	
Different Forms Of Congenital Fibrosis Of The Extraocular Muscles	146
W E Gillies, A M V Brooks, M Scott	
Synergistic Divergence In Association With Congenital	150
Extraocular Muscle Fibrosis	
S B Ozkan, E Kir	
The Evaluation Of Chronic Progressive External Ophthalmoplegia	154
With Computerized Tomography	
S B Ozan, M F Soylev, Z C Karaman, E Kir, I Durak	
Congenital Innervation Defect Syndrome	158
A A Assaf	
A Relationship Between Strabismus And Congenital Blepharoptosis	162
N Kubota, T Hayashi, T Maruo, N Ikuta, M Nakagawa, C Usui	
Natural History Of Stilling-Tuk-Duane Retraction Syndrome And Risk	166
Factors Of Decompensation	
K Mcmain, G R Laroche, F Tremblay, J Zurenbinsky	
Frontalis Muscle Transposition In Ptosis With Unwanted	170
Eyelid Movements	
Ten Tusscher MPM, Roddi R	
Assessment Of Visual Function, Orthoptic Findings And Underlying	173
Diseases In MMH Children With Cortical Visual Impairment	
B Kasmann-Kellner, K W Ruprecht	
Ventriculo-Peritoneal Shunt Dysfunction Caused By Wearing Glasses	177

J R M Cruysberg, P W M Snijders-Bosman, W O Renier Eye Muscle Surgery In Parry-Romberg Syndrome: A Useful Therapy?	181
C Kingma-Wiltschut, J T H N De Faber Double-Bellied Inferior Oblique Muscle: A Cause Of Recurrence Of Inferior Oblique Overaction	187
S P Kraft, D Deanelis, I Maker The Neurofibrovascular Bundle Of The Inferior Oblique Muscle: Surgical Implications Of Recent Findings	190
D R Stager Sr, D R Stager Jr A Congenital Accessory Inferior Oblique Muscle Fibrous Band Resulting In Mechanical Restriction Of Down Gaze	194
A Ansons, A Spencer Quantification Of Inferior Oblique Muscle Recession	197
K Monteiro De Carvalho, N Minguini, F J Dantas, P Lamas, N K Jose Pharmacologic Enhancement Of Inferior Oblique Myectomy	201
P Nemet Inferior Oblique Recession: Correcting Small Angle Esotropia With V-Patten	203
Aa El-Din A Prospective Evaluation Of Anterior Transportation Of The Inferior Oblique Muscle, With And Without Myectomy, In The Treatment Of Dissociated Vertical Deviation	207
A G Quinn, S P Kraft, C Dy, R S Taylor, A V Levin Indications And Clinical Results Of Weakening Both The Superior Rectus And Inferior Oblique Muscles	211
R A Saunders Do Simultaneous Inferior Or Superior Oblique Weakening Procedures Affect The Outcome Of Horizontal Deviation Surgical Correction?	215
N Minguini, F J Dantas, K Monteiro De Carvalho, D C Moreira Filho Cephalometric Study Of Facial Asymmetry Associated With Long-Standing Superior Oblique Palsy	221
M Sato, M Maeda, T Ohmura, T Ukai Isolated Unilateral Overaction Of The Superior Oblique Eye Muscle	225
W De Decker, E Dannheim-De Decker Treatment Of Superior Oblique Palsy In Infants	229
D A Plager, E M Helveston Efficacy Of Superior Oblique Disinsertion Or Tenectomy For Correction Of A Pattern Anisotropia	233
M Goldschmit, J Belmiro De Castro Moreira Superior Rectus Recession And Inferior Oblique Myectomy For The Treatment Of Congenital Superior Oblique Palsy	237
T Hayashi, F Hasegawa, K Nishide, H Iwashige, T Maruo, C Usui A New Surgical Procedure For Marked Bilateral Superior Oblique Palsy: Preliminary Report	241
A Jampolsky Long And Short Term Results Of Silicone Expander For Brown Syndrome	245
D R Stager Jr, D R Stager Sr, M M Parks, M Pesheva, M C Bane Management Of Bagolini's Syndrome – Plagiccephaly Causing Superior Oblique Deficiency And Ocular Torticollis	249
C Y Lo, T Maruo The Muscle Sequelae Following Acquired Unilateral Superior Rectus Muscle Palsy	253
A Spencer, A Ansons Can Analysis Of Saccade Help To Determine Inflammatory Activity In Thyroid Eye Disease?	259
H D Schworm, A E Heufelder, A Kunze, E Welge, T Eggert, K P Boergen Early Strabismus Surgery For Thyroid Ophthalmopathy	263

D K Coats, E A Paysse, D A Plager, D K Wallace Incidence And Mechanism Of Oculomotor Disorder After Translids Bony Bony Orbital Decompression For Thyroid Related Orbitopathy	267
A C Spielmann, T Maalouf, J L George Changes In Eye Position And Ocular Motility After Orbital Decompression	271
D Godts F De Wilde, H Smet, P Evens, L Smeets, M J Tassignon Ocular Motility Complications Associated With Endoscopic Sinus Energy	275
M F Murphy, G G W Adams, J J Sloper Unilateral Restriction Of Elevation Associated With Sinusitis	279
M F Murphy And G G W Adams Lateral Incomitance In Intermittent Exotropia	285
E Nichol, A Ansons Is "Earlier" Surgery A Sensory Benefit In The Treatment Of Intermittent Exotropia	289
J D Baker, M Schweers, J Petrunak Outcome Study Of Bilateral Lateral Rectus Recession For Intermittent Exotropia In Children	293
M R Ing Large Angle Exotropia Corrected By Intraoperative Botulinum Toxin A And Monocular Recession Resection Surgery	297
P L Owens, M B Stominger, P A D Rubin, S Veronneau-Troutman Comparison Between Recess-Resect Surgery And Bilateral Recession In The Correction Of Lateral Deviation Of Intermittent Exotropia	301
T Nakagawa, M Ohba, N Sasaki, H Osanai, Y Pattern Exodeviation – A Variant Of Duane's Retraction Syndrome	305
S B Ozkan, E Kir, V Daynair Prevalent Forms Of Childhood Esotropia	311
B Mohoney Prism Adaption For Acquired Esotropia With Distance/Near Disparity	315
L Baker, A M Ansons, J P Burke Motor Outcome For Infantile Esotropia Using Video Corneal Reflex Test	319
Y Hatsukawa, Y Kawai, T Yamagishi, M Ishizaka, A Murai, G Ohmi, T Fujikado Outcome Of Bimedial Recessions V Resect Procedures	323
J A Bradbury, C Thompson Bimedial Rectus Recession To Equator Site In Infantile Esotropia	327
A Vinciguerra, S Pensiero, F Parentin, P Perissutti A Comparative Study Of Faden (Post Fixation Sutures) Versus Recession Surgery In Esotropia	331
M El Cherbini, F Attiah Infantile Onset Esotropia: Evaluation Of Management Outcome	335
A A El Din, A Rizk Prognostic Value Of Primary Inferior Oblique Muscles Overaction In Refractive Accommodative Esotropia	339
C Schiavi, C Bellusci, E Gasparrini, E Campos Refractive Surgery Of Accommodative Esotropia: 2 Different Approaches	343
S Frosini, R Caputo, L Campa, L Frosini, R Frosini The Effect Of Laser In Situ Keratomileusis In Accommodative Esotropia	347
S C Park, C Park Dissociated Vertical Deviation: Etiology And Mechanism	353
D L Guyton, E W Cheeseman, F J Ellis, D Straumann, D S Zee Reality Of Vertical Deviation Asymmetry In Early Onset Strabismus: Observation During General Anesthesia As A Predictive Sign	357
V Paris The Preventative Management Of DVD In Infantile Esotropia	361
Y A Cho	

Review Of Inverse Knapp Procedure: Indications, Effectiveness And Results V Maurino, A Kwan, J P Lee	365
Surgery In Vertical Acquired Nystagmus A Spielmann, G Aflalo, A C Spielmann	369
The Efficacy Of Adjustable Suture Technique (AST) In Paediatric Strabismus Surgery T J Chan, A L Rosenbaum, L Hall	373
Seprafilm In Repeated Strabismus Surgery To Reduce Surgical Scaring A A Assaf	377
New Strabismus Surgery With An Absorbable Jaw Clip To Reduce Suturing Procedures B M Mion, S Y Kim, J M Yang	381
Positional Changes Of Reattachment Site After Superior Rectus Recession In Rabbit J Y Kwon, E H Lee, J P Shin, H C Song	385

Transactions 9th International Strabismological Association
17-20 April 2002, Sydney , Australia

Introduction Of The 2202 Bielschowsky Lecturer	3
G Lennerstrand	
Where Should Strabismology Be Going? Pearls And Refuse From Our Past	5
E C Campos	
Vision Screening In The Netherlands – Up To Date	27
V K Lantau, R E Juttmann	
Outcomes Of A School Vision Screening Programme	35
L Wilcox, E Cornell	
The Rationale For The UK Amblyopia Treatment Trial	39
S Richardson, S Hrisos, J Anderson, J Henderson, C Wright, M Clarke	
Visual Screening In Sweden. Effectiveness In The Reduction Of Amblyopia And Costs	41
G Kvarnstrom, P Jakobson, J Dahlgaard	
Symposium: Thyroid Associated Ophthalmology	49
A Boschi, R Fitzsimmons, A Jampolsky, A McNab, A Rosenbaum	
Symposium Of Terminology	73
S Veronneau-Troutman, E C Campos, R Laroche, D T Sprunger, C Dunlop,	
A Roth, C Souza-Dias	
Refractive Surgery And Strabismus: Workshop	89
L Kowal, J De Faber, C Calcut, S Fawcett	
Strabismology Advice For The Refractive Surgeon	95
J De Faber, M Tjon Fo Sang	
Heterotopic Pulleys And Anomalous Head Posture In Comitant Strabismus	99
J L Demer	
Guidelines For Management Of Anomalous Head Posture In Comitant Strabismus	103
C Schiavi	
Primary Monofixation Syndrome In Discordant Monozygotic Twins With Strabismus	109
T Yagasaki, M Sato, Y Hotta	
The Characteristics Of Patients With Chronic Progressive External Ophthalmoplegia (CPEO)	113
C Richardson, T Smith, A Schaefer, P Griffiths	
A Development Of Stereotest Using Luminance Modulation	117
N Sekimoto, M Mizuno, K Okai, A Akaike, Y Takami, S Asonuma, J Hosohata,	
S Suyama, H Takada, S Sakai, T Fujikado	
Intraoperative Adjustment In Strabismus Surgery	121
J B Lee, Y H Chang, S H Han	
A Case Of Bilateral Congenital Superior Oblique Palsy Developing After Trauma	125
S Kusahara, A Kanamori, K Ishibashi, Y Sekiya, A Negi	
Crowding Phenomenon With Logmar Based Test	129
R Kuwahara, Y Mori, H Shirabe, K Ishibashi, Y Sekiya, M Yamamoto	
Visual Dysfunction In Children With Reading Problems	133
D Godts, M Tassignon	
Surgical Results Of Acquired Non-Accommodative Esotropia	137
D T Sprunger, S J Whang, J G Galli	
Electrophysiological Differences Between Early And Late Onset Amblyopia	141
J L Sloper, A R Davis, M M Neveu, C R Hogg, M J Morgan, G E Holder	
Anterior Transposition Compared To Graduated Recession Of Inferior Oblique	145
For V Pattern	
K Monteiro De Carvalho, N Miniguini, L Costa De Araujo, C Crosta	
Stabilization Of Postoperative Deviation By Fadenoperation For Exotropia	149
Y Hatsukawa, M Ishizada, A Nihmi, T Nakao, T Yamagishi	
About The Origin Of A Pattern	153
A Dickmann, M V Stella, A Salerni, C Rendeli, E Salvaggio, M Calderelli, G Savino	
Neural Network System And Childrens Strabismus Operation Design	157

W Xixi, X Yu, D Tajian	
Moderate Amblyopia In Children Less Than Seven Years Of Age: Experience Of The Amblyopia Treatment Study 1	163
M X Repka,	
The UK Amblyopia Treatment Trial: Visual Acuity And Stereoacuity Values In Treated And Untreated Unilateral Straight Eyed Amblyopia	167
M Clarke, S Richardson, S Hrisos, J Anderson, J Anderson, C Wright	
Long-Term Visual Outcome In Primary Microtropia	169
T Matsuo, Y Kawaisha, R Kuroda, H Ohtsuki, Y Watanabe	
Morphological Changes Of The Optic Nerve Head In Albinism Are Frequent And Have Functional And Refractive Implications	173
B Kassmann-Kellner, K W Ruprecht	
Anatomical Differences In Optic Nerve, Chiasm And Optic Tracts In Human Albinism Demonstrated By MRI Evaluation	177
B Kassmann-Kellner, T Schafer, C M Krick, M Backens, K W Ruprecht, W Reith, B Schmitz	
C-Fos, Egr-1, Bcl-2, And C-Jun Decreases In Visual Cortex Of Cats With Monocular Visual Deprivation	181
Lejun Wang, Li Wang, W Xixi, K Zhao	
Clinical Tests Of Distance Stereopsis: State Of The Art	187
J P Frisby, H Davis	
Outcome Study Of Stereoacuity In Relation To Duration Of Misalignment In Congenital Esotropia	191
M R Ing, L M Okino	
Aniseikonia Measured By Hess Chart And New Aniseikonia Tests	197
Toshi Hirai, Miho Sato, K Ukai, C-H Piao, H Terasaki, Y Miyake	
Unilateral Recession With Anterior Transposition Of The Inferior Oblique Muscle For Correction Of Hypertropia In Primary Position	203
M Goldchmitt, S Felberg, C Souza-Dias	
Gaze-Related Orbital Pulley Shift: A Novel Cause Of Comitant Strabismus	207
J L Demer, R Kono, W Wright, S Yeul Oh, R A Clarke	
Clinical Findings And Surgical Results Of True And Masquerading Congenital Superior Oblique Palsy	211
M Sato, E Amino	
Effectiveness Of Extraocular Muscle Surgery In Macular Translocation With 360 Degree Retinotomy	215
T Fujikado, H Shimojyo, J Hosohata, Y Tano	
Tenon Capsule Transposition In Cases Of Major Excyclotorsion	219
A C Spielmann, A Spielmann	
Oculomotor Dysfunction In Migraine	225
S Chowdhury	
Botulinum Toxin In Chronic Sixth Nerve Palsy	233
J M Holmes, D A Leske	
Partial Augmented Rectus Extraocular Muscles Transposition	237
M T Britt, A L Rosenbaum, F G Velez, N Thacker, D Alcorn, R Scott Foster	
Modified Hummelsheim Procedure Augmented By Posterior Fixation For 6 th Nerve Palsy	243
A Rizk	
I Type Duane's Retraction Syndrome: Pre And Post Operative Saccades Evaluation	249
G Savino, D Colucci, S Russo, N Gianfrancesco, D D Nicola, A Dickmann	
Predictive Factor For Upshoot And Downshoot In Duane's Retraction Syndrome	253
K Mohan, V Saroha, A Sharma	
Enlarged Muscle Strabismus	257
L Kowal, S Cochrane, P Mckelvie, O Bigault	
Extraocular Muscle Cysticercosis	261
K Mohan, V Saroha, S S Pandav, A Sharma	

Acquired Orbital Fibrosis	265
C Souza-Diaz	
Extra-Ocular Muscle Limitation In Chronic Progressive External Ophthalmoplegia (CPEO)	269
T Smith, C Richardson, A Schaefer, P Griffiths	
Ocular Motility Abnormalities In Patients With Blepharophimosis	273
E Dawson, J Lee, R Collin	
Diplopia As A Complication Of Sinus Surgery: A Presentation Of Four Cases	275
J T H N De Faber, C Kingma-Wiltschut, R J Grootendorts, W Visscher	
Diplopia In Patients With Orbital Fractures	279
A T Fenton, M Dirani, Z Georgievski, M A Coote, J Varvarigos	
Anderson-Kestenbaum Procedure For Torticollis Secondary To Congenital Nystagmus	285
P R Mithcell, M M Parks, M B Wheeler, P G Walden, C J Kelly	
Surgical Management Of Anomalous Head Posture Due To Horizontal Gaze Palsy Or Acquired Vertical Nystagmus	291
C Schiavi, C Bellusci, E C Campos	
Preliminary Results Of Performing The Tenotomy Procedure On Ten Adults With Congenital Nystagmus (CN)	295
R W Hertle, L F Dell'osso, E J Fitzgibbon, D Thompson, D Yang, S D Mellow	
Large Horizontal Recti Recession For Treatment Of Congenital Nystagmus: Longterm Results	299
M K Ibrahim, D T Sprunger, L A Abel, C J Winton, E M Helveston	
Acute Esotropia In Heroin Withdrawal	305
L Kowal, J Mee, S Nadkarni, M Kozminsky, S Kalff	
Distance Eso Deviation Or Vergence Insufficiency	307
B Gillies, A Brooks	
Cyclic Esotropia: V Pattern And Upshoot In adduction	311
J W R Pott, D Godts, J T H N De Faber	
Occlusion For Early Overcorrection Of Exotropia	315
E L Raab	
Eye Muscles In Different Stages Of Thyroid Associated Orbitopathy: MRI And Tension Measurements	321
G Lennerstrand, S Tian, B Isberg, L Tallstedt, R Bolzani, H D Schworm	
Orthoptic Findings In Patients With Thyroid Associated Ophthalmopathy	325
A Rydberg, L Tallstedt, H Dieter Schworm	
Botulinum Toxin Treatment Is Helpful In Thyroid Ophthalmopathy: A 15 Year Australian Review	329
C Dunlop, D B Dulop, P Dunlop, G Pittar	
Nonadjustable Strabismus Surgery For Restrictive Thyroid Eye Disease	333
D Godts, P Evens, F De Wilde, H Smet	

Transactions 10th International Strabismological Association
18-20 February 2006, Sao Paulo, Brazil

Introduction Of The 2006 Bielschowsky Lecturer	3
Helveston E	
Changes in strabismus over time: the roles of vergence tonus and muscle length adaptation	7
Guyton DL	
Introduction of the CLADE Lecturer	37
Shokida F	
The laws and rationales of the oculomotor balance	39
Bicas HEA	
Duanes retraction syndrome	73
Ozkan S	
The trochlea	81
Helveston EM	
Torsional surgery	87
Souza-Dias C	
Different techniques for weakening the superior oblique muscle	93
Goldchmit M	
Weakening the four oblique muscles in the treatment of DVD	97
Garnio S	
Inferior oblique marginal myotomy	101
Illanes MEO	
Amblyopia treatment studies – 2006	107
Repka MX, Holmes JM, Quinn GE, Hertle RW	
Causes and outcomes for patients presenting with diplopia to an eye casualty department	111
Cornes R, Dawson E, Lee J	
Ophthalmic nystagmus diagnosis and treatment and differentiation from neurological nystagmus	117
Hertle R	
Non-strabismic esotropias	122
Repka MX	
Modern surgeries for 3 rd nerve palsy	124
Kowal L	
Treatment of strabismus fixus with high myopia	129
Gokygit B, Akar S, Yilmaz OF	
Amblyopia in capillary haemangiomas	137
Jellema HM, Prick W, van der Horst CMAM, Saeed P	
The effect of induced anisometropia on stereovision	139
Davis H, Keating P, Smith R, Frisby J	
Fundoscopy in the Dutch orthoptic bachelors course	145
Kozeis N, Tourvalis E, Gatos A, Kyropoulos A	
A new test of visual functional assessment (VFA-K test) for developmentally delayed children	153
Kozeis N, Saiti P, Felekidis A, Thoidou E, Triantafyllou G	
Management of ROP: close monitoring and early cryotherapy leads to favourable results	159
Kozeis N, Triantafyllou G, Koulali E, Felekidis A	

Contrast sensitivity assessed with the Lea contrast test in 10 years-old preterm and full-term children	165
Rydberg A, Holstrom G, Larsson E	
Eccentric viewing training – comparing situation and success in Kenya and Germany	169
Verweyen P	
An original approach of microtropic amblyopia: the package	175
Paris V	
Open your eyes for infant screening	181
Lantau VK, Groenewoud JH, de Koning HJ	
Preschool visual screening: the original Belgian approach	189
Paris V, Cordonnier M, Guit-Neuforge A, Pirard-Gilbert L, Dubru JM, Mauroy MC	
Early detection of strabismus with the help of digital pictures	195
Franceschetti A, Mawas LJ, Vital-Durand F, Diraison MC, Leplat F	
Phakic (iris fixated) IOLs for anisometropic myopic amblyopia in children: pilot Study	201
Igrahim MK, Ibrahim TA, Al Moor OK	
The course of intermittent exotropia in a population-based cohort	209
Mohney B	
The comparison of the surgical result between unilateral lateral rectus recession-medial rectus resection and bilateral medial rectus resection in recurrent exotropia	211
Choy DG, Park HY	
Intermittent exotropia: comparative surgical results of lateral recti-recession and monocular recess-resect	213
Fiorelli VMB, Goldchmit M, Uesugui CF, Souza-Dias	
Palpebral fissure changes after horizontal muscle surgery	219
Soltan-Sanjari M, Parsa CF, Guyton DL	
A new technique of inferior rectus recession operation	225
Gokyigit B, Ozturk A, Akar S, Kaunak P, Akbas U, Yilmaz OF	
Adjustable suture strabismus surgery in infants and children	233
Sharma M, Bazemore MG, Said HA, Guyton DL	
Strabismus surgery learning for ophthalmology residents	239
Monteiro de Carvalho K, Flores VG, Minguini N, Vieira JC, Temporini ER	
Re-recession of the medial rectus muscle in patients with undercorrected esotropia	243
Marcon GB	
Standard strabismus surgery for thyroid related ophthalmopathy	249
Rotberg L, Sprunger D, Sindhi N, Plager D, Neely D	
Surgical audit of double elevator palsy	255
Moreker S	
Drift of ocular alignment following strabismus surgery with adjustable sutures	257
Isenberg SJ, Abdarbashi P	
Suppressed synkinetic blinks accompanying saccades: an apparent artefact in eye movement recording	265
Timms C, West P	
Vergence adaptation under conditions of artificially reduced monocular vision	269
Davis H, Firth AY	
Baclofen for patients with congenital periodic alternating nystagmus	273
Comer RM, Dawson ELM, Lee JP	
Clinical and electrophysiological effects of extraocular muscle surgery on infantile nystagmus syndrome	277

Hertle RW, Yang D	
Superior oblique recession and anterior transposition in management of A-pattern exotropia with superior oblique overaction	283
Rizk A	
The effect of overacting superior oblique muscle tenectomy associated to anterior transposition of inferior oblique muscle in patients with dissociated vertical deviation	289
Krieger FT, Lambert AC, Alves TCF	
Shift of the insertion of the superior oblique muscle by sclera buckling: clinical features and surgery	297
Spielmann AC	
Adjustable superior oblique advancement for bilateral superior oblique palsy	303
Holmes JM, Leske DA	
Strabismus secondary to retinal detachment surgery: mechanisms and treatment	311
Guemes A	
A practical and theoretically optimal surgical approach to Duane syndrome	315
Parsa CF	
Latex glue: a solution for ptosis after botulinum toxin	321
Simoes B, Knupp S, Silveira T	
After-effect of alcohol on binocular vision... or the morning after the night before	325
Hockley CE, Firth AY	
Telemedicine experience with superior oblique palsy	331
Helveston EM	
Ocular motility problems following episcleral plaque brachytherapy	337
Dawson ELM, Sagoo M, Hungerford J, Lee JP	

Transactions 11th International Strabismological Association
Update on Strabismology. Editor: SB. Ozkan
22-25 September 2010, Istanbul, Turkey

Obituaries	
Bruno Bagolini	xxi
David Ben-Ezra	xxiii
Wilfried de Decker	xxv
William Elliott Gillies	xxvii
Joseph Lang	xxix
John P. Lee	xxxi
Arthur L. Rosenbaum	xxxiii
 The Linksz award and medal	
Introduction of Linksz awardee: A. Gunnar Lennerstrand	3
DL. Guyton	
Introduction of Linksz awardee: ADN. Murray	5
BJ. Kushner	
 The 11 th Bielschowsky lecture	
Introduction of the Bielschowsky lecturer: BJ. Kusher	9
DL. Guyton	
Incomitant strabismus: does extraocular muscle form denote function?	11
BJ. Kushner	
 Symposia: surgical management of residual/consecutive strabismus	
Strategies for esodeviations	29
L. Kowal	
Strategies for cyclovertical disorders	31
DL. Guyton	
Role of botulinum toxin to rescue failed strabismus surgery	37
SB. Ozkan	
 IOA symposium: screening strategies around the globe	
Premature for life: is targeted screening required for preterm children	43
AR. O'Connor	
Vision screening across the world	48
NS. Matta, DI. Silbert	
A Canadian model for vision screening: rational, methodology and future direction	51
LA. Walsh, GR. LaRoche	
 Symposium: imaging in strabismus management – does it affect your decision?	
Ultrasound biomicroscopy in strabismus management	55
SP. Kraft	
Role of CT and MRI in strabismus management	59
TM. Bosley	
Role of muscle pulleys – the MRI evidence	60
JL. Demer	
 Symposium: pharmacological treatment of strabismus	
Benefits of botulinum toxin therapy for strabismus	72
JP. Lee	
Problems with BTXA treatment	73
R. Gomez de Liano	

Correcting strabismus with Bupivacaine	74
AB. Scott	
Future therapeutic agents for strabismus	75
SP. Chistiansen	
Round table discussion: the expert view of difficult strabismus and amblyopia	77
EC. Campos, ADN. Murray, DL. Guyton, EM. Helveston, JP. Lee	
Workshops	
Amblyopia 2010; what we have and have not learned from the PEDIG amblyopia treatment studies	93
MX. Repka, JM. Holmes	
How to manage convergence insufficiency type intermittent exotropia	97
JM. Hwang, HK. Yang	
Can we operate exotropia with hemianopia?	106
M. Sato	
The role of dynamic retinoscopy	111
D. Somer	
Aphakia – how to correct it?	117
JTHN. De Faber	
Inferior rectus adjustment: a variation	121
MF. Shokida	
A systematic approach to eye muscle surgery in patients with nystagmus	125
RW. Hertle, L. Kowal	
Eye movement recordings and clinical evaluation: how well fo they correlate?	143
L. Kowal, L. Abel	
Evaluation of strabismus and eye movements	145
DT. Oystreck	
Management of patients with congenital fibrosis of the extraocular muscles	148
EI. Traboulsi	
Papers	
Age related distance esotropia	151
D. Godts	
Response to binocular testing in intermittent exotropia	156
H. Davis, E. Dawson, C. Powell, D. Buck, P. Tiffin, R. Taylor, J. Rahi, J. Sloper, P. Cumberland, MP. Clarke	
Binocular stakes in primary exotropia	161
A. Roth, H. Muhlendyck, M. Bumbacher	
The psychological impact of strabismus: does the angle really matter?	166
AE. Ritchie, P. Colapinto, S. Jain	
The contribution of cyber-sight E-consultation as a tool for the evaluation of strabismus	170
ERF. Sampaio, AMB. Casella, M. Goldschmit, EM. Helveston	
Which method should be used for evaluating the activity of thyroid orbitopathy: clinical activity score or urinary glycosaminoglycan level?	175
AA. Demirtay, S. Kutluk, G. Bugdayci, G. Kural	
Long term results of surgical treatment in Brown's syndrome	179
S. Harmanci Karakus, B. Gokyigit, S. Akar, G. Varan, Y. Yildirim, D. Tuzun, A. Demirok, OF. Yilmaz	
Duane retraction syndrome – Alexamdria study	182

D. Shawky, M. El Basha, K. Gabaliah	
High myopic esotropia: outcomes of surgical management with the Yokoyama technique	186
C. Schiavi, M. Fresina, EC. Campos	
Retinal structure in amblyopia: a study of foveal topography	191
A. Bruce, I. Pacey, JA. Bradbury, BT. Barrett	
Regression of amblyopia after occlusion therapy in adults	195
FG. Yilmaz Cinar, D. Somer, A. Burcu, N. Demir, F. Ornek	
Structure function relationship in amblyopia: assessment of retina ganglion cells by OCT and pattern ERG	199
B. Tugcu, M. Kilic, ET. Erdogan, U. Yigit, S. Karamursel	
Does size matter? An investigation of anisometropia	203
KL. Saba, R. Fitzsimons	
Laterality of amblyopia	208
MX. Repka, K. Simons, R. Kraker	
Treatment of eso and exophoria with botulinum toxin A	213
G. Lennerstrand, B. Eriksson-Derouet, M. Engstrom, S. Tian	
Botulinum toxin treatment in the management of infantile esotropia: a long term follow-up	218
H. Basmak, H. Gursoy, A. Ozer, N. Yildirim	
Botulinum toxin injection into the superior rectus for treatment of strabismus	222
N. Ali, E. Dawson, JP. Lee	
Response to intentional small surgical over-correction in children versus adults with longstanding exotropia	225
K. Arnoldi, JD. Reynolds	
Medial rectus pulley (posterior fixation) sutures: use in acquired esotropia with convergence excess	229
L. Kowal, L. Mitchell	
Surgical and functional results in operated infantile esotropia	234
D. Cioplean, G. Birlea, M. Dragomir	
Combining an adjustable recession with a posterior fixation suture	238
JM. Holmes, SR. Hatt, DA. Leske	
A comparative study of adjustable versus non-adjustable suture horizontal strabismus surgery in adults	241
SP. Kraft, K. Mireskandari, M. Cotesta, J. Schofield	
Severe complications of strabismus surgery. British ophthalmic surveillance unit: incidence	245
JA. Bradbury, RH. Taylor	
A national register for enhancing quality of strabismus surgery in the Netherlands	248
LJ. Van Rijn	
Effect of symmetrical and asymmetrical bi-superior rectus recession in patients with dissociated vertical deviation	252
LA. Teodorescu, I. Velcea, O. Andrei	
Recession of the four oblique muscles in acquired cyclotorsional nystagmus	257
AC. Spielmann	
Pearls and pitfalls in the treatment of excyclotropia	260
V. Paris	
Posters	
Only the nasal retina is used for eye alignment during monocular fixation	265
MPM. Ten Tusscher	

Stereo and visual acuity assessment of young children with Lea symbols	269
RH. Lolova	
Stereoacuity in Lang I and Lang II in the child: prediction of the anisometropia	272
N. Zouaoui-Kesraoui, B. Azzemou, S. Bensid, G. Bouazza	
Automatic refraction: cyclopentolate or atropine?	277
N. Zouaoui-Kesraoui, B. Azzemou, S. Bensid, G. Bouazza	
Stereopsis after early surgery for bilateral congenital cataracts	282
S. Nishina, M. Tanaka, T. Yokoi, Y. Kobayashi, N. Azuma	
Measurement of the deviation using modified Fresnel prisms	287
N. Sergienko, S. Rykov, V. Petrov, M. Shevkolenko	
Factors associated with treatment failure of anisometropic amblyopia	290
A. Medghalchi, Y. Alizadeh, R. Soltanimoghaddem	
A randomised trial of atropine versus patching for treatment of moderate amblyopia	295
A. Medghalchi, M. Mohhammadi, K. Amirrafie	
Correlation between axial length difference and refractive error difference in children with strabismus/amblyopia	301
A. Tanaka, M. Yamashita, M. Tomita, M. Mochizuki	
The effect of Banferter foils in visual acuity	304
AMR. Mackay, CM. Leach	
Comparison of atropine-optical penalisation versus occlusion for moderate amblyopia	306
B. Tugcy, C. Gurez, U. Yigit	
Contrast sensitivity functions in the normal eyes of amblyopia	309
B. Tugcy, C. Gurez, U. Yigit, A. Agachan	
The effect of optic disc factors on retina nerve fibre layer analysis and pattern ERG parameters in amblyopia	312
B. Tugcy, M. Kilic, ET. Erdogan, A. Agachan, U. Yigit, S. Karamursel	
Use of automated objective accommodative measurements to screen for amblyopia	315
DI. Silbert, NS. Matta, EI. Singman	
Screening for amblyogenic risk factors using the PlusoptiX S04 photoscreener on the Indigent population of Honduras	319
DI. Silbert, NM. Matta, CL. MacCarus, EA. Matta, EL. Singman	
Evaluation of macular thickness in eyes with strabismic amblyopia	322
E. Oba, G. Gulkilik, M. Odabasi, GZ. Ozkurt	
Aniseikonia in anisometropic amblyopia	325
HD. Demir, H. Atilla, R. Duman, U. Erkorkmaz	
Model of binocular interaction in amblyopia founded on the sensory and motor functional indices of clinical data	330
IM. Boychuk	
Are children who present with NLDO more likely to have amblyopia risk factors?	335
NM. Matta, EL. Singman, DI. Silbert	
Comparison of retinoscopy, biometry and keratometry in anisometropic amblyopia	339
R. Duman, H. Atilla, E. Catak	
Macular thickness and retinal nerve fibre layer thickness measurements in amblyopic and normal eyes of children using spectral domain OCT	343
YC. Besselink, PHB. Kok, R. deKinkelder, J. Kalkman, MEJ. Van Velthoven, C. Leach, FD. Verbraak	
Evaluation of decompensation of accommodative esotropia	346

Evaluation of decompensation of accommodative esotropia	346
A. Medghalchi, K. Amirrafie, R. Soltanimoghaddam	
A surgical option for antipodean strabismus: four horizontal muscle surgery	350
AA. Assaf	
Evaluation of the development of fusion and stereoacuity after surgical treatment	354
in cases with infantile esotropia	
C. Gurez, B. Tugcu, U. Yigit	
Botulinum toxin A treatment in infantile esotropia	356
B. Gokyigit, S. Akar, A. Ozturk, S. Sabanci, V. Kaya, A. Demirok, OF. Yilmaz	
Improved efficiency of posterior strapping when placed at the exact position of	359
medial rectus pulley in purely tonic esotropia	
D. Thouvenin, C. Lesage, O. Norbert, E. Chapotot	
Long-term outcomes of infantile esotropia after surgery	363
G. Gokce, OM. Ceylan, T. Mumcuoglu, FM. Mutlu, HI. Altinsoy	
The Bruckner reflex in esotropia and anisometropia	367
M. Graf, B. Lorenz	
Infantile esotropia over 20 years of age	371
M. Kucukevcilioglu, OM. Ceylan, FM. Mutlu, HI. Altinsoy	
Treatment outcomes in fully refractive accommodative esotropia	374
S. Polat, CU. Can, B. Ilhan, M. Yasar, AG. Kocak Altinsoy	
The effects of fusion and stereopsis on surgical success in patients with concomitant	377
esotropia	
U. Yigit, S. Ozdemir, B. Tugcu, A. Agachan	
How is accommodative esotropia managed around the world? An international survey	380
of Orthoptists practice patterns	
KE. Lee, K. Koklanis, Z. Georgievski	
The role of the vertical elements in long standing divergent strabismus	384
EM. ElToukhi	
Are large angle exodeviations more likely to recur following strabismus surgery?	388
K. Arnoldi, BE. Spencer, S. Smith, JD. Reynolds	
Clinical characteristics in patients with sensory heterotropia	392
B. Tugcu, S. Keskin, C. Tanriverdi Coskun, U. Yigit	
Postoperative recurrence of exotropia: time and ratio	394
Z. Soyuk, B. Gokyigit, S. Akar, G. Oyur, Z. Kapran, OF. Yilmaz	
Comparison of symmetric and asymmetric operations in the treatment of	398
intermittent exotropia	
G. tatar, I. Erbagci	
Long-term results of surgery for intermittent exotropia	402
K. Keskinbora, F. Horozoglu, T. Gonen, O. Sever	
Binocular visual field changes in patients with acquired homonymous hemianopia	406
and exotropia	
M. Asano, Y. Fujita, M. Washiyama, R. Inagaki, T. Negishi, A. Hikoya, Y. Hotta,	
M. Sato	
Personal experience in surgical treatment of secondary exotropia	410
M. Fresina, C. Basirico, C. Schiavi, C. Gizzi, EC. Campos	
Secondary exotropia following faden operations of medial rectus: a retrospective	413
analysis of matched cases	
S. Akar, B. Gokyigit, OR. Yilmaz	
The impact of prism adaptation test on surgical outcome in patients with primary	418
exotropia	
A.Kryak Yilmaz, S. Kose, O. Uretmen	
Surgical effectiveness of medial rectus advancement for consecutive exotropia	423

GB. Marcon, R. Pittino	
Surgical outcomes in patients with divergence excess intermittent exotropia	428
L. Niyaz, H. Gursay, H. Basmak	
Faden operation with conventional surgery on the medial rectus: 6 months results	431
M. Dogan, B. Gokyigit, S. Akar, OF. Yilmaz	
One muscle surgery in small to moderate angle horizontal deviations	435
N. Sefi Yurdakul	
The effectiveness of anterior transposition of inferior oblique muscle for primary superior oblique muscle palsy	439
B. Gokyigit, D. Alps, S. Akur, H. Altinkaynak, OF. Yilmaz	
Surgical treatment of double elevator palsy	443
B. Gokyigit, S. Akar, PK. Hekimhan, A. Ozturk, Z. Soyuk, V. Kaya, OF. Yilmaz	
Asymmetric muscle involvement in CPEO	446
C. Loong, R. Gokani, H. Armstrong, F. Bremner	
Transposition of the lateral rectus muscle for N III palsy	450
M. Graf, B. Lorenz	
Two cases of isolated superior oblique palsy caused by endoscopic sinus surgery	455
T. Negishi, N. Katori, K. Nishimura, A. Hikoya, M. Sawada, Y. Hotta, M. Sato	
Myectomy versus anterior transposition of the inferior oblique muscle in unilateral superior oblique paresis	460
FM. Mutlu, B. Eryuruk, FC. Erdurman, HI. Altinsoy	
Therapeutic efficacy of botulinum toxin in abducens nerve palsy	464
F. Braz, S. Silva, R. Fialho, ML. Vieira	
Using torsion to assist the diagnosis of bilateral superior oblique palsy	469
K. Muecke, Z. Georgievski, K. Koklanis	
Clinical features and strabismus surgery in mitochondrial myopathies: analysis of 24 patients	474
A. Armesto, M. Plut, MC. Ugrin, E. Travelletti, H. Iturriaga, E. Nunez, A. Schlaen	
Congenital fibrosis of extraocular muscle case series	478
D. Shawky, M. ElBasha, K. Gaballah	
Congenital fibrosis of extraocular muscles: a report of five cases	482
EN. Cetin, GO. Cetin, S. Ozen, C. Yildirim	
Brown syndrome secondary to dog bite (canine tooth syndrome)	485
E. Comert, U. Beden, D. Erkan	
Is Brown syndrome a congenital cranial dysinnervation disorder?	488
M. Flaherty, J. Smith	
Yokoyama's procedure for correcting globe dislocation in highly myopic strabismus	492
S. Akar, B. Gokyigit, P. Kaynak Hekimhan, A. Demirok, OF. Yilmaz	
A case of myopic strabismus fixus with increased intraocular pressure	497
S. Haneda, M. Kanno, M. Sato, I. Oonuma, H. Yamashita	
Yokoyama procedure for strabismus fixus in high myopia after previous unsuccessful recess/resect maximal surgeries	502
B. Kaczmarek, E. Wojcik	
Combined mechanisms of restriction in strabismus after retinal detachment surgery	505
A. Arnesto	
Use of botulinum toxin type A in type I Duane retraction syndrome	509
S. Harmanci Karakus, B. Gokyigit, S. Akar, G. Varan, Y. Yildirim, D. Tuzun, A. Demirok, OF. Yilmaz	
Results of bilateral medial rectus muscle recession in improvement of the	512

ocular alignment in patients with unilateral Duane syndrome A. Medghalchi, M. Mohammadi, K. Armirrafie	
Significance of structural muscular anomalies in etiology and operative treatment of congenital unilateral Duane's retraction syndrome S. Rykov, A. Senyakina, M. Shevkolenko	516
Modified Y-splitting procedure in Duane retraction syndrome AG. Kocak Altintas, HB. Arifoglu, C. Can, S. Polat, G. Koklu	520
Pseudo-Duane's retraction syndrome secondary to orbital trauma: case report A. Pelit	523
Symmetrical surgery in type I Duane's syndrome H. Gursoy, H. Basmak, AI. Cakmak, L. Niyaz	526
Clinical features and surgical outcomes of Turkish patients with Duane retraction syndrome OM. Ceylan, G. Gokce, A. Turk, FM. Mutlu, HI. Altinsoy	529
Ocular manifestations in children with mental retardation A. Yaman, M. Parlak, AT. Berk	533
Ocular motility improvement in Crouson syndrome after neurosurgical intervention without strabismic operation B. Tugcu, O. Orum, S. Zrylan, H. Camuscu, E. Hocaoglu	537
Ocular alignment and surgical results of strabismus in neurologically impaired patients CU. Can, S. Polat, M. Yasar, B. Ilhan, AG. Kocak-Altintas	541
Scleroderma and eye motility disorders E. de Jongh, FJ. Hordijk-Noordhuizen, M. Tjon-Fo-Sang, RLJ. Van Ruyven, JTHN. De Faber	545
Strabismus in retinopathy of prematurity FS. Kosen, H. Atilla, F. Batioglu	549
Strabismus in pediatric cataract NS. Yurdakul	553
Strabismus in congenital cataract O. Uretmen, DI. Bozbiytk, S. Kose	557
Ophthalmic outcome of preterm and low birth weight infants SK. Pocan, O. Uretmen, C. Sahbazov, S. Kose, S. Nalcaci, ET. Erakgun, J. Menten	560
Internal ophthalmoplegia after inferior oblique myectomy: a report of three cases C. Yildirim, EN. Cetin, M. Acar, F. Yaldrzkaya	564
Severe complications of strabismus surgery: British Ophthalmic Surveillance Unit: 6 months outcome JA. Bradbury, RH. Taylor	567
Management of lost medial rectus muscle during strabismus surgery HI. Altinsoy, OM. Ceylan, G. Gokce, FM. Mutlu	570
Influence of subtenon Bupivacaine injection on oculocardiac reflex in strabismus surgery H. Basmak, H. Gursoy, B. Yelken, Y. Isildi	573
Use of the Cogan lid twitch to identify myasthenia gravis NS. Matta, EL. Singman, DI. Silbert	576
Vertical nystagmus lesion of neural integrator S. Moguel	579
Reading impairment following stroke: ocular and non ocular causes FJ. Rowe	584
Prevalence of cranial nerve palsy and associations following stroke FJ. Rowe	589

Longterm results of the unilateral inferior oblique myectomy	594
G. Soyugelen, S. Demirel, N. Onursever, O. Ilhan-Sarac, B. Bostanci-ceran, I. Can	
Comparison of the effectiveness of peribulbar and sub Tenon's anaesthesia in horizontal strabismus surgery	597
OM. Ceylan, G. Gokce, A. Turk, FM. Mutlu, HI. Altinsoy	
Treatment of Heimann-Bielschowsky phenomenon: a novel procedure on two cases	602
AA. ElKamshoushy, DT. Sprunger	
Quality of life in children following strabismus surgery	606
EN. Cetin, GO. Cetin, S. Ozen, C. Yildirim	
Depression and self esteem in children with congenital nystagmus	610
Y. Yildirim, S. Akar, B. Gokyigit, DU. Yildirim, U. Celik, S. Harmanci, OF. Yilmaz	
Clinical characteristics of foveal hypoplasia	613
MM. Kim, JS. Hong	
Association of strabismus and pseudostrabismus	617
NS. Yurdakul	
Propranolol for capillary haemangiomas, a preliminary study	620
YC. Besselink, HM. Jellema, C. Van der Horst, P. Saeed	
Reoperation in strabismus	622
D. Shawky, M. El Basha, K. Gaballah	
Utilisation of surgical microscope when performing bilateral lateral rectus recession in large angle alternating exotropia	627
E. Oba, G. Gilkilik, C. Uslu, S. Tiryaki, M. Odabasi	
Comparison of the results of strabismus surgery measured from the insertion of the corneoscleral limbus in concomitant horizontal strabismus	631
A. Turk, HI. Imamoglu, H. Erdol	
Effects of ocular parameters in faden operation	635
M. Dogan, S. Akar, B. Gokyigit, OF. Yilmaz	
The comparative ultrastructural observation of inferior oblique muscle in primary and secondary overaction: mitochondria, vacuole and caveola density	637
V. Oguz, S. Cetinel, A. Sarici, MD. Bilgec, C. Arici	
Particular aspects of strabismus surgery in adults	641
C. Vladutiu, L. Postolache, S. Sevan	
The median tucking is a new technique of strabismus surgery	645
IL. Plisov, KG. Puzyrevsky	
Tutopatch*: extraocular horizontal muscle elongation for cases in which conventional surgery is not possible	648
AEL. Langenhorst	
Medial rectus pulley (posterior fixation) sutures: use in spectacle intolerant patients	651
L. Mitchell, L. Kowal	
Inferior oblique muscle resection and anteriorisation for treatment of hypertropia following orbital fracture repair	657
IBY. Wong, CS. Ngo, S. Farazavandi	

Transactions 12th International Strabismological Association

Advances in Strabismus, Editor: SB. Ozkan

1-4 December, 2014, Kyoto, Japan

1 THE LINKSZ AWARD AND MEDAL

Introduction of Linksz Awardee: John P. Lee 1

Jan Tjeerd de Faber

2 THE 12th BIELSCHOWSKY LECTURE

Introduction of the Bielschowsky Lecturer: Tsuranu Yokoyama 5

Miho Sato

Myopic Strabismus: A Surgical Strategy Derived from Pathophysiological
Imaging Studies 9

Tsuranu Yokoyama

3 SYMPOSIA

Amblyopia Management 2015

Chairs: M.X. Repka, G.A. Gole

PEDIG Amblyopia Treatment Trials: Surprising and Recent Findings 21

M.X. Repka, (on behalf of the Pediatric Eye Disease Investigator Group)

New Treatments for Amblyopia and Future Trials 26

J.M. Holmes

Picturing the Neuromuscular Causes of Strabismus

Chairs: T. Yokoyama, J.L. Demer

Extraocular Muscles: Not The Sums of Their Parts 29

J.L. Demer

The Nerve of that Muscle! Imaging the Cranial Nerves 37

J.M. Hwang

MRI Quantifies Inflammation in Thyroid Ophthalmopathy 44

Y. Nishida

Results beyond the Angle: Functional Outcomes of Strabismus Surgery

Chairs: J.J. Sloper, A.D. Molinari

Measuring Outcomes in Intermittent Exotropia 47

J.J. Sloper

Easing the Strabismus Surgery Experience 53

A. Molinari

How Stable is the Functional Cure in Congenital Esotropia 56

M.R. Ing

IOA Symposium: Ophthalmic Prisms from Diagnosis to Therapy

Chairs: G. Stephenson, K. McMain

Ophthalmic Prisms from Diagnosis to Therapy 61

D.J.M. Godts

Orthoptic prisms – calibration and true values 67

B. Wahl, K. Bendzmierowski, R. Heins, G. Waesermann

Vergence Adaptation 75

H. Davis

Sensory and Motor Connections in Intermittent Exotropia 79

A. Wakayama

4 ROUND TABLE DISCUSSION

New Strategies of Strabismus Surgery 85

Moderator: A.D.N. Murray	
Repair of Medial Rectus Transection Following Endoscopic Sinus Surgery	87
M. Goldchmit	
Lateral Rectus Periosteal Fixation	90
S.B. Özkan	
Transcaruncular Periosteal Fixation for Paralytic Strabismus in Oculomotor Nerve Palsy	93
A.G. Wang, H.C. Cheng, K.J. Lin, M.Y. Yen	
Muscle Union with Scleral Myopexy 15 mm Posterior to Insertions in Treatment of “Heavy Eye Syndrome	97
B. Stankovic	
Muscle Union: A Low Risk Profile Surgical Operation in the Treatment of 6th Nerve Paralysis	103
G.B. Marcon, R. Pittino	
Panel Discussion	110
5 WORKSHOPS	
“British and Irish Orthoptic Society – Orthoptic Research Underpinning Clinical Practice”	93
Chairs: F. S. Rowe, A. Horwood	
Clinical care for stroke survivors	115
F.J. Rowe	
Who’s Driving? Convergence and Accommodation – Fixed Ratios, Flexible Linkages or Separate Systems	120
A.M. Horwood, S.S. Toor, P.M. Riddell	
Testing BSV & Stereopsis	127
H. Davis	
Amblyopia: Research into clinical practice	131
A. Bruce	
“The Sagging Eye Syndrome: Genesis and Management of Vertical and Horizontal Strabismus in the Elderly”	135
Chairs: Z. Chaudhuri, J.L. Demer	
The Sagging Eye Syndrome: Genesis and Management of Vertical and Horizontal Strabismus in the Elderly	135
Z. Chaudhuri, J.L. Demer	
“The Course of Strabismus During a Lifetime”	135
Chairs: A. Spielmann, S. Farzavandi	
Natural Course of Untreated Strabismus	143
S. Shetty	
Can Orthoptic Exercises Change the Course of Strabismus?	147
S. Farzavandi	
The Evolution of Consecutive Exotropia in Adults	151
A.C. Spielmann	
Age Related Strabismus	156
D.E. Cioplean	
“Restrictive Strabismus”	135
Chairs: M.S. Jaafar, L. Kowal	
Surgical Management of Congenital Fibrosis of the Extraocular Muscles Types 1 and 3	163

L.R. Dagi, and D.G. Hunter	
Brown Syndrome	166
S.B. Özkan	
Strabismus Following Orbital Trauma	171
J.M. Holmes	
“Botulinum Toxin in Pediatric Strabismus”	135
Chair: S.B. Özkan	
Botulinum Toxin Administration Techniques in Children	177
G.G.W. Adams	
The Use of Botulinum Toxin in Infantile Esotropia	180
D.A. Thouvenin	
BT in Small Angle Esotropia	186
R. Gomez de Liaño	
6 PAPERS	
Section 1: “Amblyopia and Epidemiology”	
Asymmetrical Accommodation in Anisometropic Amblyopia	191
S. Toor, A. Horwood, P. Riddell	
Effectiveness of Using GABA-Ergic Medications in Complex Treatment of Amblyopia in Children.	197
I.M. Kuzhda, O.M. Pityk	
Prevalence of Symptomatic Non-Strabismic Binocular Problems in US and Japan Schools	202
M.K. Powers, Y. Morita	
Views of Patients on Impact of Eye Movement Disorders	207
F.J. Rowe	
Section 2: “Binocularity and Diagnosis”	
Intercortical Visual Transfer in Human Binocularity	211
M.P.M. ten Tusscher, P. Van Schuerbeek	
Management and Outcomes of Pseudostrabismus	216
M.D. Mills, M.M. Wong, J. Huang, G.S. Ying, G. Binenbaum	
Heterophoria, Fusional Amplitudes and Stereoacuity in School Aged Children	221
C. Lança	
Candidate Genes for Strabismus Susceptibility Chromosomal Loci	225
T. Matsuo	
Unmasking Bilateral Inferior Rectus Restriction Using Degree of Cyclotropia	230
K. Arnoldi, J.D. Reynolds	
Section 3: “Magnetic Resonance Imaging”	
Magnetic Resonance Imaging Demonstrates Novel Compartmental Mechanisms of Vertical Fusional Vergence	235
J.L. Demer, R.A. Clark	
Magnetic Resonance Imaging Findings in Infantile Esotropia with and without Consecutive Exotropia	240
F. Çalış, H. Atilla, P. Bingöl Kızıltunç, C. Alay	
Exotropia and Unilateral High Myopia in Adults. Look at the Sound Eye? A 26 Cases Study.	245
D. Thouvenin, L. Lequeux, O. Norbert	

Section 4: “Strabismus Treatment”

Influence of Strabismus Surgery on General Health-Related Quality of Life in Children and Their Parents	251
Y. Sato, T. Hiraoka, T. Oshika	
Electrical Stimulation of Nerves to the Levator and Oculorotary Muscles	256
A.B. Scott, J.M. Miller, K.K. Danh	
Role of Botulinum Toxin A in Treatment of Intractable Diplopia	258
S.B. Özkan, I.A. Ünsal	

Section 5: “Surgical Technique”

Surgery without an Assistant: Tricks and Tips	263
A.C. Spielmann	
Graded Vertical Rectus Tenotomy in Small Angle Hypertropia	267
Z. Chaudhuri, J.L. Demer	
Minimal Invasive Esotropia Surgery. High-Frequency Radio Wave Surgery Technique. Mathematical Modeling of Surgery Dosage	272
I. Aznauryan, V. Balasanyan, E. Aznauryan	
The Clinical Experience from Using Donor Sclera for Tendon Lengthening in 324 Cases of Strabismus Surgery from 1993 to 2014	274
J. Blohmé, R.L. Thorisdottir, L. Gränse, G. Stigmar	
Vertical Rectus Muscle Transposition with Resections for Complete Unilateral Sixth Nerve (Abducens) Palsy	278
S.P. Kraft, M. del P. González-Díaz	

Section 6: “Strabismus Surgery”

Primary Treatment of Infantile Esotropia with Medial Recti Recession Combined with Faden Operation: Low Incidence of DVD Decompensation	283
A.L. Armesto, M.C. Ugrin, E. Travelletti, B.A. Schlaen	
The Marginal Myotomy of the Inferior Oblique Muscle at the N. Trochlearis Paresis	289
I.L. Plisov, K.G. Puzyrevskii, N.G. Antsiferova	
Surgical Results of Superior Oblique Tendon Tuck Combined with Inferior Oblique Muscle Weakening for Congenital or Idiopathic Superior Oblique Palsy	293
M. Saeki, A. Hikoya, M. Sawada, Y. Harada, Y. Hotta, M. Sato	
Combined Rectus Muscle Transposition with Posterior Fixation Sutures for the Surgical Treatment of Double Elevator Palsy (The Augmented Knapp Procedure)	299
S. Akar, B. Gökyiğit, T. Kurt, U. Çiçek, P. Kaynak,	
C. Öztürker, G. Karabulut, E. Y. Pınarcı, S.A. Bayar, S. Oto	
Characteristics and Surgical Outcome of Consecutive Exotropia with Different Etiologies	304
M. Sawada, A. Hikoya, T. Negishi, Y. Hotta, M. Sato	
Prospective Evaluation of Dose-Effect Relationship of Medial Rectus Advancement in Consecutive Exotropia	309
G.B. Marcon, R. Pittino	

7 POSTERS

Poster Section 1: “Amblyopia”

The Pattern of Improvement in Visual Acuity During Amblyopia Therapy	317
M. Shioya, N. Ogino	

Dependence of Visual Fixation Stability on Retinal Light Sensitivity in Patients with Amblyopia of Various Degrees	323
M. Kashchenko, E. Antonova, M. Magaramova, G. Kachalina, E. Pedanova	
Congenital Nasolacrimal Duct Obstruction as a Risk Factor for Anisometropia	326
G. Stanković-Babić, M. Vujanović, S. Cekić	
The Effect of Rolipram on Adult Visual Cortical Plasticity in an Experimental form Monocular Deprivation Amblyopia Model in Rats	330
E. Emre, Ö. Altıntaş, B. Katre, Z. Şık Sarman, H. Efendi, B. Özkan, D. Akakın, Ö.T. Çilingir, I. Özdemir, S. Solakoğlu	
Amblyopia and Unilateral Congenital Glaucoma	335
C. Berrozpe-Villabona, L. Morales-Fernández, R. Gómez de Liaño-Sánchez, J García-Feijoo	
Poster Section 2: “Binocularity”	
Flaw of Time-Separation Dichoptic Presentation – Simulated Pulfrich Pendulum As An Example	339
A. H. Wang	
Influence of Test Distance on Stereoacuity in Intermittent Exotropia	345
Y. Seki, A. Wakayama, R. Takahashi, I.Umebara, F. Tanabe, K. Abe, Y. Shimomura	
Evaluation of the Accommodation Response While Viewing Stereoscopic Images By Binocular Wavefront Sensor	350
H. Kanda, H. Nagatani, T. Fujikado	
Recovery of Binocular Vision by Dissociation of Accommodation and Convergence Using Laser Speckles	354
A. Bazarbaeva, T. Kashchenko, T. Korniyushina, M. Magaramova, R. Katsanashvili	
Testing the Feasibility of A New Visual Acuity Test for Infants Using An Eye Tracking System.	358
A. Ohno-Tanaka, E. Noda	
Poster Section 3: “Examination Methods”	
Evaluation of Refraction in Children with Hyperopia Using the PlusoptiX A09 Device	363
T.A. Korniyushina, Magaramova, A.K. Abdulsadykova	
Efficacy of the Infrared Photograph with a Selective Wavelength Filter for Detecting Esotropia in Young Children	367
Y.J. Yoo, H.K. Yang, J-M. Seo, K.G. Kim, J-M. Hwang	
Monitoring the Velocity of Saccades by Using an Eye Tracking Device	372
M. Mihara, K. Kakeue, K. Fujita, R. Tamura, A. Hayashi	
The Analysis of Gaze Position in Reading by Using High Speed Video Oculography	377
M. Hirota, H. Kanda, S. Miyagawa, T. Endo, T.K. Lohmann, T. Morimoto, T. Fujikado	
A New Gene for Congenital Fibrosis of the Extraocular Muscles (CFEOM) - Time for a New Classification?	382
M.P. Flaherty, R.V. Jamieson	
Relationship Between the Trochlear Nerve Diameter and Superior Oblique Muscle Volume	387
D.S. Lee, H.K. Yang, J.H. Kim, J.M. Hwang	

Magnetic Resonance Imaging Demonstrates in Axial High Myopia with Esotropia: Normal Extraocular Muscle Lengths, but Adduction Tethering by the Optic Nerve	393
J.L. Demer	
High-Resolution Orbital MRI Reveals No Change in Lateral Rectus Pulley Position After Longitudinal Lateral Rectus Split with Nasal Transposition in Bilateral Oculomotor and Trochlear Nerve Palsy	397
Z. Chaudhuri, J.L. Demer	
Poster Section 4: "Neuro-Ophthalmology"	
Does My Patient Really have "Congenital" Nystagmus?	403
G. Holmström, M.L. Bondeson, U. Eriksson, H. Åkerblom, E. Larsson	
Strabismus in West Syndrome	405
Z. Chaudhuri, S. Madan, R. Jain	
How Brain Pathology may Cause Infantile Strabismus	410
M.P.M. ten Tusscher	
Ophthalmological Features of 43 Patients After Functional Hemispherectomy	415
F. Audren, C. Bulteau, M. Fohlen, G. Dorfmueller, O. Delalande	
"Pain and Double Vision" A Description and Discussion of the Clinical Features of Some Recent Cases Presenting with Painful Ophthalmoplegia	419
C. Loong, R. Scheimann, H. Armstrong, F. Bremner	
Convergence and Accommodation Development Relate to Corrected Age in Premature Infants	425
A.M. Horwood, S.S. Toor, P.M. Riddell	
Isolated Third Nerve Palsy Following Coronary Angiography	430
S. Akar, B. Gökyiğit, E.D. Aygıt, S.A. Bayar, S. Oto, Ö.F. Yılmaz	
Diplopia and Ptosis Experienced Whilst on Royal Duty!	434
H. Armstrong, C. Loong, F. Bremner	
When Less is More	438
C.H.Y. Lai, J.C.C. Yeung	
A Case of Craniopharyngioma Presenting with Monocular Vertical Nystagmus.	441
A.M. Mackay	
A Case of Ophthalmoplegic Migraine at 38 Years After Onset	443
Y. Shimizu, H. Tabuchi, S. Asayama, O. Mimura	
Ophthalmic Artery Aneurysm Presenting as Ipsilateral Trochlear Nerve Paresis	447
T.H. Tsai, H.C. Lin	
Transitory Consecutive Esotropia After Amitriptyline Treatment for Nocturnal Enuresis-Case Report	452
D.E. Cioplean	
Clinical Features of Oculomotor Disorders and Nystagmus Among Children Presenting Congenital Glaucoma	456
D. Denis, A. Aziz, L. Sauvan, O. Fakhoury, E. Pieri, F. Matonti	
Epibulbar Osseous Choristoma Found During Strabismus Surgery	459
M. Saeki, A. Hikoya, M. Sawada, Y. Harada, Y. Hotta, M. Sato	
Poster Section 5: "Strabismus Surveys"	
Clinical Spectrum and Management of 298 Cases with Brown Syndrome at Tertiary Eye Care Center	465

B. Gökyiğit , O.B. Ocak , A. İnal, E.D. Aygıt, S Akar, C. Öztürker, B. Başarır Horizontal Strabismus-Outcome of 596 Cases in IIEI&H, Dhaka, Bangladesh.	470
M. Khatun, M.M. Hossain, N.H. Kallol, R. Sultana, Q.S. Iftekhar, S. Rahman Survey of Strabismus Surgeries in Japan	474
S. Nishina, A. Miki, A. Wakayama, T. Yagasaki, T. Fujikado Clinical Spectrum and Management of 582 Cases of Duane Retraction Syndrome	479
O.B. Ocak, B. Gökyiğit, E.D. Aygıt, A. İnal, S. Akar, A. Demirok	
Poster Section 6: “Cyclovertical Deviations”	
A New Comprehensive Approach for Management of Congenital Monocular Elevation Deficiency Leading to Acceptable Outcome – A Report of Two Cases	485
C. Chakraborty Long-Term Postoperative Course of Vertical Strabismus in Children	491
Y. Hatsukawa, T. Fujino, H. Ineyama, M. Ishizaka The Bilateral Inferior Oblique Muscle Anterior Transposition and its Efficiency in Obtaining the Vertical Alignment of Esotropia Accompanied by Bilateral Dissociated Vertical Deviation and Bilateral Inferior Oblique OverAction	495
D.E. Cioplean A New Approach to Inferior Oblique Over Action (IOOA) without Cyclotorsion.	499
B. Gökyiğit, S. Akar, E.D. Aygıt, Z. Alkın, O.B. Ocak Absence of Superior Oblique Tendon in Congenital Superior Oblique Palsy: What Kind of Surgery ?	503
N. Gravier Effects of Bilateral Inferior Oblique Myectomy in V-Pattern Exotropia with Oblique Dysfunction	507
Y.O. Yokoyama, T. Yagasaki, M. Maeda, M. Tsukui	
Poster Section 7: “Restrictive Strabismus”	
Superior Oblique Muscle (SOM) Insertion Abnormality in Bilateral Brown Syndrome: Case Report	511
A.E. Bahadır-Kılavuzoğlu, B. Gökyiğit, E.D. Aygıt “Surgical Outcome of Graded Y split in Patients with Duane’s Retraction Syndrome”	515
S. Chandramouli, K. Narendran Surgical Results of Temporal Transposition of Superior Rectus Muscle in Duane’s Retraction Syndrome and Lateral Rectus Palsy	520
S. Chandramouli, K.Narendran Lateral Rectus Recession with a Y-split of the Recessed Lateral Rectus in Duane’s Retraction Syndrome Type III (Exotropic)	524
M.N.H. Kallol, R. Kekunnaya, Q.S. Iftekhar, M. Khatun Marcus Gunn Jaw winking and Duane’s Retraction Syndrome	528
K.-E. Ra (C.-Y. Lo) A Patient with Vertical Retraction Syndrome	532
E. D. Aygıt, B. Gökyiğit, A. Inal, O.B. Ocak, A. Demirok Surgical Management of Strabismus Following Scleral Buckling Surgery	534
T.-H. Tsai, H.-Y. Liu, L.-L. Wu	

Combined Scleral Buckling and Strabismus Surgery for Three Cases of Rhegmatogenous Retinal Detachment with Exotropia	537
F. Ikeda, A. Nakao, S. Noda, K. Ishida, S. Kishi	
Strabismus Surgery in Thyroid-Related Ophthalmopathy	541
M.-C. Lin, J.-Y. Lin, Y.-S. Bee, S.-J. Sheu	
Poster Section 8: "Paralytic Strabismus"	
Surgical Outcomes of Acquired Bilateral Superior Oblique Palsy	547
M. Washiyama, R. Inagaki, A. Hikoya, M. Saeki, Y. Harada, Y. Hotta, M. Sato	
Bilateral Nasal Transposition of Inferior Rectus Muscle in the Management of Bilateral Acquired Fourth Nerve Palsy	552
C.-C. Habault N. Gravier, E. Laurent	
Vertical Muscle Transposition without Lateral Rectus Weakening for Treatment of Exotropia with Adduction Deficit	555
A.A. ElKamshoushy, D.A. El Sayed, D.T. Sprunger	
Long Term Results of 'Gokyigit's Split Lateral Rectus Transposition to Medial Rectus Area' Operation for Complete Third Nerve Palsy	560
B. Gökyiğit, S. Akar, E.D. Aygıt, O.B. Ocak, A. Inal	
Central Serous Chorioretinopathy Following Medial Transposition of Split Lateral Rectus Muscle for Complete Oculomotor Nerve Palsy	565
A. Soni, R. Sorenson	
Poster Section 9: "Surgical Methods"	
Comparison of Four Augmented Recession Techniques	569
B. Gökyiğit, S. Akar, E. D. Aygıt, A. Demirok	
Long Term Results of Deeper Muscle Fibers Recession of Inferior Rectus Operation	574
B. Gökyiğit, S. Akar, P. Kaynak , A. Demirok	
The Median Tucking: Our Ten-year' Experience in Strabismus Surgery	579
K.G. Puzyrevskii, I.L. Plisov, N.G. Antsiferova	
Ahn's Modification for Rectus Muscle Recession Surgery	583
D.H. Kim, H. Ahn	
Knot Assisted Hang-Back Suture Technique	586
T. Negishi, A. Murakami	
Poster Section 10: "Varia"	
Decompensation to "Bad Day" Strabismus After Pneumotonometry Measurement in a Case of Cyclic Esotropia	591
T.-H. Tsai, F.-Y. Liu, P.-I. Kuo	
Surgical Success for Infantile Esotropia and Strabismus Associated with Neurological Impairment	594
P. Bingöl Kızıltunç, F. Çalış, C. Alay, H. Atilla	
Surgical Reinforcement of the Pulley Suspensions to Restore the Displaced Lateral Rectus and Superior Rectus Paths in Myopic Strabismus Fixus	600
K.-E. Ra (C.-Y. Lo)	
Five Cases of Acute Acquired Concomitant Esotropia Associated with Myopia: Prism Adaptation Test and Surgical Planning	605
N. Nishikawa, H. Ito, S. Ishiko, A. Yoshida	
Stepwise Adjustment for Congenital Nystagmus with Anomalous Head Posture and Strabismus	610

C.B. Tsai	
Clinical Results and Sides Effects on 25 Cases of Incobotulinum Toxin A (Xeomin) Injection in Congenital and Acquired Strabismus	613
A. Aziz, F. Matonti, O. Fakhoury, D. Denis	
Comparison of Ocular Response Analyzer Results Before and After Strabismus Operations	616
E.D. Aygıt, B. Gökyiğit, S. Akar, E. Karaman, I. Yılmaz, A. Özkaya	
Surgical Outcomes of Strabismus with Microphthalmia	619
T. Uemura, S. Nishina, T. Yokoi, Y. Nakayama, M. Yagihashi, K. Manzoku, S. Akaike, S. Ogonuki, N. Azuma	

Transactions 13th International Strabismological Association

Advances in Strabismus, Editor: Rosario Gomez de Liano

18-22 March, 2018, Washington, DC, USA

Introduction of Linksz Awardee: Frank Martin	3
D L Guyton	
Introduction of the Bielschowsky Lecturer: Anna Horwood	7
S Kraft	
Accommodation and Convergence- Rations, Linkages, Styles and Mental Somersaults	10
A M Horwood	
Re-Operation Strategies in Strabismus: The First Art Jampolsky Lecture	25
B J Kushner	
Six Pearls for Treatment of the 6 th Nerve Palsy	35
JTHN de Faber	
New Approaches to Third Nerve Palsy	39
M Goldchmit, MD	
Superior Oblique Advancement On Adjustable Sutures	41
J M Holmes	
Can We Correct Torsion With Ir Surgery	44
M Sato	
Significance of Compartmentalisation in Extraocular Muscle Palsies	48
J Demer	
Current Perspectives on Congenital Cranial Dysinnervation Disorders	52
E I Traboulsi, M D, M Ed	
Cfeom-Pearls for Management	57
A O Khan	
Treatment Guidelines in Typical Forms of Duane Syndrome	60
G G W Adams	
What to do in Atypical Duane Syndrome	62
S B Özkan	
Management of Consecutive Exotropia	66
L Lindberg	
Traction Tests to Evaluate Tight Inferior Oblique	69
R Gomez de Liaño MD, E Hernandez Garcia MD	
The Role of Orbital Mri in Patients with Strange Strabismus Patterns	72
G B Marcon MD, R Pittino MD, N Martini MD	
Contribution of Examination Under Anesthesia tp Decision Making in Strabismus Surgery	78
D A Thouvenin	
The Effect of Suture Adjustment on Surgical Outcomes in Adults with Symptomatic Intermittent Exotropia	83
J J Sloper, N Raoof	
Dichoptic Training and Video Games in the Treatment of Amblyopia: Fantasy or [Virtual] Reality?	86
L Colpa O C	
Benfits. Barriers and Understanding: The Importance of Spectacle Wear in Young Children	92
A Bruce	
Newer Signatures for Evidence Based Evaluation in Strabismus: Imaging and Genetics	95
Z Chaughuri, J L Demer	
Innovate Technologies for the Treatment of Adult Strabismus	99

S L Pineles MD, MS, M Y Chng MD, J M Holmes BM, BCh, R Kekunnaya MD, S B Özkan MD, F G Vlez MD	
New Pediatric Vision Questionnaires for Assessing Health Related Quality of Life and Functional Vision in Childhood Eye Conditions	103
J M Holmes, S R Hatt, D A Leske, Y S Castaneda, S M Wernimont, Libermann, C S Cheng-Patel, E E Birch	
Treatment Outcomes for Amblyopia Using PDIG amblyopia Protocols- A Perspective Study of 844 Cases	106
M Buckle, C Billington, P Shah, J D Ferris	
Novel Binocular iPad Cartoon Video Program Improves Stereoacuity and Distance Fusion in Treated and Untreated Amblyopes	110
V M Chen, N Quinn, S Klein, C S Choi, S H Yoo, M B Strominger	
Observer Variability in Assessing Passive Cyclorotation Using Guyton's Exaggerated Traction Test Before Strabismus Surgery (Cannot read names of authors due to photocopying)	114
Does Local Analgesics Reduce Opioid Consumption After Strabismus Surgery?	117
A M Hansen (RN), L B Jensen (RN), J P Saunte (MD), J S Fomsgaard (MD), T Torp-Pederson, M S Borger	
Injection of Bupivacaine & Botulinum Type A Toxin to Treat Strabismus	120
T M Cunha, J M Miller, A B Scott	
Comparison between Augmented Recession and Medical rectus Recession with Posterior Scleral Fixation in Partly Accommodative Esotropia	124
H Al-Hayouti, G Gawdat, A Awadein, H Elhilali	
Comparison between Medial Rectus Pulley Fixation and augmented Recession in Children with Convergence Excess and Variable-Angle Infantile Esotropia	129
H M Fouad, MD, M A Abdelhakim, MD, A Awadein, MD, H Elhilali, MD	
Unwinding of Cyclodeviation After an Adjustable Harada-Ito Procedure	134
L Liebermann, D A Leske, S R Hatt, B Bata, J M Holmes	
Delayed Adjustment of Short Tag Noose Stitches in Strabismus Surgery Allows the Effect of Surgery to be Evaluated in Real Time Up to 7 days	137
C S Loenkqvist MD, T Torp-Pedersen, MD, PhD, J P Saunte MD	
Microcatheter-assisted trabeculotomy versus two-site tredecutotomy with rigid probe trabeculotome in primary congenital glaucoma	141
Y M El Sayed, G L Gawdat	
Pediatric strabismus cases possibly related to excessive use of information and communication technology devices	145
T Yoshida, S Nishina, M Matsuoka, S Akaike, S Ogonuki, T Yokoi, N Azuma	
Abnormal biorbital angle in patients with infantile exotropia	149
M Tsukui, MD, T Yagasaki, MD, PhD, Y O Yokoyama, MD	
The classification of diseases of binocular diplopia in the elderly	153
M Kawai, T Goseki, H Ishikawa, M Hoshina, N Shoji	
Strabismus Combined with Congenital Optic Disc Anomaly	157
H Y Choi, MD, PhD, H Jeon, MD	
Whole exome sequencing in familial primary comitant exotropia	161
Z Chaudhuri, J John, A Mukhopadhyay, S Aneja, B K Thelma	
Developmental Change of the Biorbital angle in Normal Japanese Children	164
Y O Yokoyama, T Yagasaki, M Tsukui	
Sensory testing and stereopsis with Nintendo 3DS game	169
R W Arnold, MD, A Damarjian, K Smith, OD, MA	
Investigation of Maximum Disparity and Stereopsis	171
H Davis, D Buckley	
New Developed Four Light Test Mobile Application	175
R Gómez-de-Liaño. M Nieves-Moreno, MD, M Alarcon, L Mrales-Fernández	

Correlation of Disorders of the Spatial Vision System (Strabismus) and Amblyopia by Changes in Neural-Reflex Excitability and Metabolic Disorders at the Stages of Restoration of Pre-, Perinatal Encephalopathy S Salmanova, E Kasimov, N Aliyeva	183
The Effect of Strabismus Muscle Surgery on Corneal Biomechanics. A Preliminary Study. E Gendy H A, Khalil N M, Eissa L M, Shousha S M	187
Binocularity after Strabismus Surgery in Adult Patients H Atill, P Bingöl-Kiziltunc	191
Normal Range of Ocular Deviations in Various Age Brackets by Prism Shifting Light-Reflex Test W Honglertnapakul, P Praneerachachon, P Pukrushpan	199
Horizontal saccadic velocity in patients with exotropia before and after strabismus surgery M Mihara, A Hayashi, K Fujita, K Kakeue, R Tamura	203
Correlation of Diplopia and Quality of Life in Patients with Graves Orbithopathy Alarcón, M, Nieves, M, De Pablo, L Niño, C, F Vigo, J, Gomez De Liaño, R.	207
Strabismus sursoadductorius or IV nerve palsy: similar clinical picture, different MR Imaging features G B Marcon, R Pittino, N Martini	211
A Quantitative Oblique Traction Test: Clinical Applications S P Kraft, A J Connor	215
The importance of the Orthoptist in the treatment of neurological acquired binocular diplopia S Polychroniadis-Scouros, DBO, D, C F Freeman, DBO, T	219
The fix and follow grade: a new method of grading the visual performance in infant H Jeon, MD, J Jung, MD, H Y Choi, MD, PhD	223
Comparison of Three Contrast Sensitivity Tests A M I Palmowski-Wolfe, K Ulrich	227
A Comparative Study of Vicryl Sutures 6-0 and 7-0 strength capacity for Strabismus Surgery I E Aznauryan, A A Shpak, V O Balasanyan, E A Kudryashova	231
Role of Botulinum Toxin A in Cyclic Esotropia- A Long Term Follow Up A I A Unsal, S B Özkan, Ş Ziyil	234
Characteristics of surgical outcomes of acquired nonaccommodative comitant esotropia with diplopia in children and young adult with different functional prognoses N Nishikawa, Y Kawaguchi, I Yamaga, K Yamada, Y Tanaka, S Honda, A Yoshida	238
Surgical Dose-Response Relationship in Patients with Down Syndrome with Esotropia: A Comparative Study C Gurez, O B Ocak, A Inal, E D Aygit, S Clik, Z Huseyinham, A Demirok, B Gokyigit	242
A New Approach to Treat Esotropia in Patients with Large V-Pattern M S Abdelhafez, MD, FRCS	246
Lateral rectus resection in type 1 Duane Retraction Syndrome (DRS) S Celik, A Inal, O B Ocak, E D Aygit, A Demirok, B Gokyigit	254
Fascia Lata Augmented Nasal Transposition of Split Lateral Rectus for Reoperation of Complete Third Nerve Palsy CB Tsai, MD, PhD	257
An Easy and Safe Operation Technique for Monocular Elevation Deficiency (MED) B Gokyigit, S Celik, A Inal, E D Aygit, O B Ocak	261
Induced Hypertrophy of Extraocular Muscles after the Administration of Synthetic Peptides into Them	264

I L Plisov, N G Antsiferova	
Primary Bilateral Medical Rectus Resections in Large Angle Childhood Exotropia	268
C S Ronconi, B L Ducca, D C Issaho, D R Weakley	
Recognizing Bradyopsia in Children	273
A O Khan	
A Phase 2, Randomised, Controlled Trail of Providone-Iodine/Dexamethasone	277
Pphthalmic Suspension for the Treatment of Adenoviral Conjunctivitis	
J S Pepose, A Narvekar, A Ahuja, W Liu, R Haque, R D Gross	
Comparison of Transscleral Sutureless Intraocular Lens and Retropupillary Iris-	281
Claw Lens Fixation for Aphakia without Capsular support in Children	
Shuaib A, El Sayed Y, Kamal A, El Sanabary Z, ElHilali H	
Visual Function Assessment in Children with Congenital Zika Virus Infection	286
J D Rossetto, I Irena, L M Neves, J C B Silveira, L Haefeli, M E L Moreira, A A Zin	
Risk Factors and Time to Failure of Pediatric Angle Surgeries	289
N M Mettias, Z El Sanabary, Y El Sayed, A Esmael	
Topical Cyclosporine-A in Pediatric Severe Dry Eye Associated with Ocular Graft	292
Versus Host Disease	
P Bingol-Kiziltunc, T Celik, N Yalcindag, M Ertem, E İnce, H Atilla	

Transactions 14th International Strabismological Association
Joint meeting with European Strabismological Association
Advances in Strabismus, Editor: Sule Ziylan, Galton Vasconcelos
23-25 April, 2021, Paris, France (virtual)

Available from: https://isahome.org/p/2021_Transactions

Table of contents

Bielschowsky Lecture	
Nexus of strabismus, myopia and glaucoma	2
Demer JL.	
ESA Lecture	
Vergence tonus and surgery for esotropias	11
Thouvenin D.	
ESA / ISA / AFSOP symposium	
Timing of surgery in children's esotropis	20
Bui Quoc E.	
Nystagmus: how I decide what to do and whether I have succeeded?	26
Gravier N.	
How I decided what to do and whether I have succeeded in a trauma case	32
Molinari A.	
Symposium	
Intermittent exotropia in the USA; PEDIG perspectives	38
Holmes J.	
Intermittent exotropia in Italy	43
Schiavi C.	
Intermittent exotropia in France	47
Audren F.	
Intermittent exotropia in South Korea	52
Hwang J-M.	
Early surgery course	
Lateral rectus nasal transposition for IIIrd nerve palsies	58
Graef M.	
Round table	
Double Y-splitting for Duane syndrome with severe elevation on adduction	64
Spielmann A.	
Free papers	
Strabismus surgery in patients with prior vitreoretinal surgery – strategies and results	69
Saunte JP.	
Oculogyric crisis induced by metoclopramide	73
Marta A.	
Surgical treatment for small angle vertical strabismus: partial recession	78
Merino P.	

Persistent of downshoot in infra-adduction after surgical treatment of A-pattern strabismus	82
Urrets-Zavalía E.	
Brown syndrome: characteristics, management and evolution	87
Gamio S.	
Giving up was not an option	93
Paris V.	
French touch recommendations for visual screening in children	99
Bui Quoc E.	
Long-term outcome of medial rectus combined posterior strapping-recession surgery adapted under general anesthesia in infantile esotropia	104
Fremont F.	
Medial rectus muscle stretches the normal, but not glaucomatous optic nerve	110
Demer JL.	
Horizontal eye movements deform the optic disc and peripapillary retina and choroid in children	116
Demer JL.	
Fixation preference in asymmetric dissociated vertical deviation	121
Avila A.	
Using evidence-based psychological approaches to accommodation anomalies	126
Horwood A.	
Reoperation for strabismus: when, why and how?	133
Jara A.	
Posters	
Brain potential response to activation procedures in children with refractive amblyopia	140
Boichuk IM, Wael B.	
The use of video-oculography in the strabismus center	147
Fernandez-Agüero D, Lawand T, Guerrero Y, Morales H.	
Comparisons of lateral rectus recession and lateral rectus recession combined with medial rectus resection for exotropia without divergence excess	153
Celik S.	
Effect of visual acuity and convergence ability on reoperation rate in patient undergoing exotropia surgery	156
Gokyigit B, Ocak OB, Celik S, Gurez C, Huseyinhan Z, Inal A.	
Torsion after augmented superior rectus transposition surgery	159
Bansal S, Green EK.	
Convergence insufficiency as initial sign of Dejerine-Sottas syndrome in a 13-year-old girl	166
Loenkvisst CS, Hofslí M, Torp-Pedersen T, Saunte JP.	
Ocular refraction changes during post-rotatory nystagmus	168
Hirota M, Takigawa R, Okabe C, Kato K, Nakagomi R, Sasaki K, Hayashi T.	
Results of prismatic lenses in the treatment of congenital nystagmus: a case report	173
Pocas IM, Lino PM.	
Binocular single vision field and quality of life before and after surgery of diplopia in adults	179
Bontron C, Hugounenq L, Soriano CA, Thouvenin D.	
The oculomotor imbalance in concomitant strabismus in the absence of visual input	183
Droite VR.	

An anterior nasal supernumerary extraocular muscle: a case report	188
Vanhatalo L, Lindberg L, Majander A.	
Transconjunctival tuck	192
Spielmann AC.	
Inferior oblique recession associated to a partial temporal inferior rectus recession	196
in the management of superior oblique palsy	
Burgos-Blasco B, Hernandez-Garcia E, Valverde-Megias A, Rego-Lorca D, Gomez-de-Liano R.	
Bupivacaine injection to extraocular muscles in various strabismus patients	202
Ocak OB, Inal A, Gokyigit B, Celik S, Gurez C, Huseyinhan Z.	
Causes of inferior oblique reoperation and surgical results in cases who	206
underwent inferior oblique muscle operation	
Inal A, Ocal OB, Gokyigit B, Celik S, Gurez C, Huseyinhan Z.	
The 'Copenhagen strabismus planner' – a valuable tool in the operation room in	209
decision making during strabismus surgery	
Saunte JP, Hofslis M, Lonkvist CS, Torp-Pedersen T.	
Treatment of diplopia in the adult patient	215
Fernandez-Agrafojo D, Trueba lawand A, Guerrero Y.	
The 100 most frequently cited articles on myopia	220
Shemesh RS, Dichter SD, Mezer EM, Wygnanski-Jaffe TWJ.	
Study of binocular vision and quality of life in patients with primary congenital	235
glaucoma	
Hernandez-Garcia E, Morales-Fernandez L, Burgos-Blasco B, Piedrahita-Alonso E, Gomez-de-Liano-Sanchez R.	

15th International Strabismological Association

8-11 September, 2022, Cancun, Mexico

Information available from: https://isahome.org/p/meetings_2022

16th International Strabismological Association

11-14 November, 2026, Buenos Aires, Argentina

Information available from: <https://isahome.org/p/2026>

1967 Transactions of First International Orthoptic Congress, London, UK

<https://internationalorthoptics.org/members-area/learning-library/abstract-and-transactions-of-ioa-congresses/>

Some Anomalies Of Binocular Vision	1
A Jampolsky	
The Sensory Aspects Of Abnormal Retinal Correspondence	32
MH Fitton	
The Treatment Of Abnormal Retinal Correspondence	43
W Aust	
The Similarities Between Binocular Single Vision And Abnormal Retinal Correspondence	48
KE Bullock, P Catterill, VA Hughes	
The Use Of Space Diagnostic Methods And Of Prismotherapy In The Treatment Of Sensory Alterations Of Convergent squint	62
A Arruga	
Prisms – Their Therapeutic Use In Concomitant Strabismus With Normal Correspondence	68
PV Beraki	
The Selection Of Cases For Orthoptics And Pleoptics In The USA	73
J Hurst	
The Selection Of Cases For Orthoptic Treatment.	88
A Discussion Of Special Problem	
BL Gosnell	
The Purpose And Significance Of The Cover Test	95
EB Marshall	
Some New Aspects Of Convergence Insufficiency Treatment	104
A Raab, C Steinberg-Raab	
The Treatment Of Early Convergent Squint.	107
An Analysis Of The Different Factors Influencing The Final Therapeutic Result	
G Mariani, L Pasimo	
Some Aspects Of Functional Versus Organic Amblyopia	115
GK Von Noorden	
The Time To Operate	129
TK Lyle	
Cyclotropia As A Possible Cause Of Squint Particularly In V And A Syndromes	142
TK Lyle	
Surgical Principles In The Treatment Of The A And V Phenomena	149
A Stanworth	
The Use Of Plastic Materials In Muscle Surgery	158
E A Dunlap	
Clinical Feature Of The Retraction Syndrome	165
J Mein	
Electrophysiology Of Eye Muscle	178
A Huber	
Traumatic Anomalies Of Binocular Vision	192
E Cameron	
Blow-Out Fractures Of The Orbit	207
GM Bleaker	
Discussion	
Squint Dating From Birth Or Early Onset	231
J Lang	
The Value Of Contact Lenses In Orthoptics	238
M Ruben, JW Walker	

Nystagmus In Childhood	249
KC Wybar	
Alternate day Squint	262
MJ Roper-Hall, JMS Yapp	
Vertical Deviations Of Anisometropia	272
CT Hart	
Vertical Deviations Of Anisometropia	277
J Bagshaw	
The Importance Of Early Orthoptic Investigation And Treatment In Very Young Children	287
GH Boardman	
The Symptoms Of Ocular Deviations In Adolescents And Adults	293
TAS Boyd, GE Budd	
The Immediate And Long-Term Results Of Orthoptics In Exodeviations	300
S Sanfilippo, AC Cahane	
The Training Of Orthoptists In Australia	319
P Lance	
Orthoptics In Brazil	323
CF Gallo, Z Nagueira	
The Education Of Orthoptists In France	326
MJ Besnard	
The Education Of Orthoptists In The UK	328
FB Badcock	
The Education Of Orthoptists In Holland	328
JG Van Der Bosch	
Orthoptics In Switzerland	335
P Jost	
The Training Of Orthoptists In The USA	337
LJ Gerard	
The Action of Miotics On The Eye And On The Patient	342
P Jameson Evans	
The Use Of Di-Isopropylflourosophate In The Treatment Of Accommodative Squints	345
J Bryer	
Miotic Therapy	352
R Salisbury	
The Action Of Di-Isopropylflourosophate In The Management Of Esotropia	358
S Moore	
Report On The Documents And Historical Exhibition	364
F Barnett	

1971 Transactions of Second International Orthoptic Congress, Amsterdam

<https://internationalorthoptics.org/members-area/learning-library/abstract-and-transactions-of-ioa-congresses/>

Introduction	1
BM Lee	
Opening Address	3
WB Gerritsen	
The Progress Of Orthoptics	5
AS Van Paassen, J Mein, BM Lees	
Can Cases Of Heterophoria And Convergence Insufficiency With Abnormal Fixation Disparity Curves Be Treated By Orthoptics	9
RA Crone, ELM Dekker-Bonants	
Fixation Disparity Method Of Testing Binocular Functions In Patients With Microstrabismus	20
EJ Arnott, CL Calcutt, KT O'Callaghan, M Welburn	
Does Binocular Single Vision Exist	24
MH Gobin	
Peripheral Fusion Orthoptics	28
T Miyashita, Y Araki, Y Kikuchi	
Stereoscopic Visual Acuity In Defective Binocular Vision	36
MH Fitton, N Boyle, A Dayson, L Roughsedge, J Simms	
The Binocular Visual Field In Small-Angle Strabismus	43
B Bagolini, G Ravalico	
The Postoperative Shift Of The Suppression Scotoma	50
JJM Bierlaagh, MH Gobin	
The Importance Of Eliminating Suppression	53
JM White	
The Treatment Of Small-Angle Esotropia	56
ECJF Keiner	
Sensory Influences On The Motoricity Of The Eyes	59
J Otto	
Determination Of The Objective Angle	65
C Cuppers	
The Sensorial State In Divergent Strabismus	72
K Krzystkova, J Pajakowa	
The Utilization Of Prisms In The Treatment Of Divergent Strabismus	77
AP Ravault, M Bongrand, G Bonamour	
The Use Of Central Nervous Drugs In Orthoptics	85
S Fukai, S Uchida, J Tsutsui	
Pharmacological Studies On Accommodation	96
G Callingham, N Restrepo, I Baras, MA Galin	
A Further Investigation Into The Problems Of Alternating Sursumduction	103
EV Mclellan	
Campimetria Of Small Inhibitional Scotoma Following Cure Of Squint Investigation By Phase-Difference Haploscope After Aulhorn	109
W De Decker	
What Is Abnormal Retinal Correspondence	112
A Macleod, K Bullock, B Unwin, C Giles	
The Management Of Abnormal Retinal Correspondence	114
S Hugonnier, C Bernard	
Results Of Orthoptic Treatment Of Squinting Children In Relation To Laterality	117
G Prigent, J Lavat, J Sales, S Jasik, M Oliver-Farcot, F Widme	
Neurophysiology Of Amblyopia	131

T Flynn	
The Evaluation Of Visual Acuity	139
A Th, M Van Balen	
Visual Acuity Of Amblyopic Eyes Under Monocular And Binocular Condition: Further Observations	146
S Awaya, GK Von Noorden	
Central And Peripheral Visual Acuity Of Eyes Suffering From Strabismic Amblyopia	153
E Aulhorn, Ch Lichtenberg	
Vectographic Suppression Studies In Strabismus Patients	161
RA Morgan, GE Budd, TAS Boyd	
Differential Diagnosis Of Amblyopia And Lesion Of The Optic Nerve	169
R Esser-Leeman	
Therapeutic Consequences Of The Analysis Of Simple Forms Of Amblyopia	174
J Lang	
Study Of Separation Difficulty In Strabismus Amblyopia (Measurement Of Visual Acuity By Means Of An Optotype Board)	178
G Hermans	
A Method Of Visual Acuity Detection	183
GV Catford, A Oliver	
Measurement Of Visual Acuity In The Strabismic Amblyope	188
F Zamfirescu	
Technique And perspectives Of Lens Implants (Pseudophakia) In Children	194
JJM Bierlaagh, A Van Der Wee, A Kats, PAM Leonard, CD Binkhorst	
Unilateral Aphakia And Orthoptics	202
MJ Besnard	
Treatment Of Anisometropia	205
M Ruben, JW Walker	
Treatment Of Amblyopia With Low-Vision Optical Aids	211
JB Smith	
Asymmetrical Correction	214
JB Weiss	
Occlusion In Latent Nystagmus	217
J Walton	
Is Early Surgery Really Necessary	220
EA Dunlap	
Vertical Rectus Muscle Transplantation to Restore Abduction	229
P Fells	
Contralateral Inferior Oblique Overaction Following Unilateral Weakening Surgery	238
EL Raab, FD Costenbader	
Dysfunction Of The Extraocular Muscles Following Head Injuries	245
D Sevel, P Steven	
Ocular Symptoms In Facial Injuries	252
J Nolan	
Co-Ordimeter Of Hess-Weiss	256
A Beressi	
Orthoptic Investigation In Posttraumatic Diplopia	262
E Friemel Schmidt-Hofmann	
Diagnostic Observation On Acquired Unilateral And Bilateral Superior Oblique Palsies	266
S Moore, L Stockbridge	
Acquired Ocular Palsy	270
EJ Arnott, CL Calcutt, F Clifford Rose,	
Disorders Of Ocular Motility In Craniopharyngiomata	272
K Wybar	

Vergence Anomalies After Stereotactic Midbrain Lesions In Man	278
JH Seabar, BS Nashold	
Oculomotor Signs In Multiple Sclerosis	283
M Swallow	
Strabismus In Thyroid Dysfunction	287
W Chamberlain	
Ocular Myopathies	296
A Huber	
The Scope Of Orthoptics In Intrinsic Extraocular Muscle Disease	304
AM Anderson	
The Assessment Of Cyclotropia In Paralytic Squint	309
R Watts	
A Method Of Electromyographic Waveform Analysis Applied	317
To The Extraocular	
Muscles With Particular Reference To The Turk-Stilling-Duane Syndrome	
BH Brown, IM Strachan	
A New Test For Investigation Of Oculomotor Imbalance By Electro-Oculography	322
HEA Bicas	
The Assessment Clinic And Special Problems Of Squint In Mentally Handicapped	333
Children	
JL Kennerley Bankes, DM Thornhill, EL Rowse, PE Corr	
Is The Functional Treatment Of Strabismus Possible In	338
Cerebral Palsied Children?	
R Pigassou, AM Le Moigne, M Cahuzac	
Symptomatic Unilateral Concomitant Strabismus In Early Childhood	345
B Harcourt	
Post Traumatic Diplopia In Cases Of Long Standing Strabismus	350
H Kilmister, VH Smith	
Contribution To The Knowledge Of The Superior Oblique	354
Tendon Sheath Syndrome	
(Browns Syndrome)	
F Feric-Seiwerth, M Celic	
The Superior Oblique 'Click' Syndrome	360
MJ Roper-Hall, G Roper-Hall	
Some Results Of Occlusion In Cases Of Non-Central Fixation	369
HM Goodier	
An Examination Of A New Method Of Screening Young Children For Defects	369
In Visual Acuity	
CT Hart	
Orthoptic Problems In Aphakia Anisometropia	370
VJ Marmion	
Head Tilt For Better Monocular Vision	370
J Dublon	

1975 Transactions of Third International Orthoptic Congress, Boston, USA

<https://internationalorthoptics.org/members-area/learning-library/abstract-and-transactions-of-iaa-congresses/>

Stereopsis And Othoptics: Past, Present And Future	1
Robert D, Belnecke MD, Morton G, Simons K	
The Development Of Normal Binocular Single Vision In Childhood	11
Romano PE, Romano JA, Pukin JE	
Anisotropies And Scotomas Of Binocular Disparity Detectors In Humans	17
Julesz B	
Stereoacuity In Microtropia	25
Hill M, Perry J, ICJ Wood	
Neurophysiological Basis Of Squint Amblyopia: Spatial Resolution Of	31
Neurons In The Lateral Geniculate Nucleus Of Kittens Reared With Convergent	
Squint In One Eye	
I Hisako, Wright MJ	
Current Concepts In Amblyopia	37
Von Noorden GK	
Methods And Results Of Quantitative Determination Of Accommodation In	45
Amblyopia And Strabismus	
J Otto, D Safra	
The Pattern-Evoked Cortical Potential In Amblyopia As An Index Of	59
Visual Function	
S Sokol, E T Shaterian	
Pupillographic Responses In Patients With Untreated Strabismic Amblyopia:	69
Further Investigations Of The Mechanism Of Amblyopia Disturbance	
F Trimarchi, G Casali	
Abnormal Pursuit Movements Of The Fellow Eye In Amblyopia And Strabismus	75
S Fakai, J Tsutsi, Y Nakamura	
Changing Approaches To The Treatment Of Amblyopia	93
H Nawratzki	
Penalisation And Prism: New Results Obtained With The Method Of	99
Treating Squint Amblyopia With Eccentric Fixation	
Experiences With Penalisation Therapy	105
W Haase	
Use Of Velocity And Acceleration Measurements In The Evaluation	113
Of Strabismus Patients	
SJ Fricker	
An Apparatus For Measuring Forces In Strabismus	123
I M Strachan, R H Brown	
Classification Of Nystagmus	129
B Todd Troost, RB Daroff	
Prism Exploitation Of Gaze And Fusional Null Angles In Congenital Nystagmus	135
L E Dell'Osso	
Diagnosis Of Convergent Strabismus With Nystagmus And Its Treatment With	143
Cuppers Faden Operation	
H Muhlendyck	
Fixation Disparity And The Origin Of Microstrabismus	155
W De Becker, T Scheffel	
Motor Fusion In Small Angle Esotropia	167
A M Noordenbos, R A Crone	
Monofixation Exotropia And Asthenopia	173
T A S Boyd, G E Budd	
The Confrontation Of Cases Of Strabismus With Small Angles Of Deviation	179

S Polychroniadis	
Lessons Learned From Microtropia	183
J Lang	
Varieties Of Prism Application In Strabismus Therapy	191
W Rubin	
Prisms As An Orthoptic Tool In The Management Of Primary Esotropia	195
S Shippman, A C Clahane	
Permanent Wearing Of Prisms And Early Delayed Treatment Of Esotropia	203
P V Berard, R Ready, J Berthon	
Vicious Circle "Deviation-Diplopia"	209
J H Weiss, A Beresst	
Prisms To Determine The Importance Of A Vertical Component Associated With Esotropia	213
L Stockbridge, S Moore	
Prisms In Superior Oblique Palsy	217
F Zamfirescu, J B Weiss	
A Long-Term Follow-Up Of Patients Presenting With Dysthyroid Eye Disease	223
B P Greaves, J C Gibb	
Why The Heterophoria In Some Thyroid Patients Is Not Amenable To Prism Therapy	241
F P Catheun, F Stegall	
The Surgical Treatment Of Dysthyroid Eye Disease	245
P Fells, B Dulley	
Some Problems In The Management Of Dysthyroid Ophthalmopathy	253
T K Lyle	
A Five Year Study Of Patients With Cerebral Palsy Strabismus	271
J H Seabar, AC Chandler	
Disorders Of Ocular Motility In Children With Hydrocephalus	279
L M Rabinowles, J W Walker	
The Association Of "A" Pattern Strabismus With Hydrocephalus	287
T D France	
The Management And Binocular Achievement Of Mentally Handicapped Children With Squint	293
J L Kennerley Banks, D M Thornhill, F J Rowes, E Wood	
Ocular Motility Problems In Cranio-Facial Dysostosis	299
J Walker, K Wybar	
Observations Of Ocular Dominance In The Binocular Vision Of Children	311
Vraynar Smith	
A New Orthoptic Technique In Learning Disability Due To Visual Dyslexia	317
D B Dunlop, P Dunlop	
Changes In The Orthoptic Department Of A Provincial National Health Hospital	325
M E S Horton	
Methods And Results Of Treatment To Re-Establish Fusion In Strabismus	333
F S Avetisov, P P Kaschenko	
Incomitant Deviations In Dissociated Vertical Divergence	345
H J Bately, LS Labowe, D R Smith	
Retinal Correspondence In Congenital Esotropia	353
N Fischer, J Bruce	
Sixth Nerve Palsies In Children	359
T H Kirkham	
Ocular Motor Defects Associated With Herpes Zoster Ophthalmicus	367
V Kelly, B Dulley	
Surgical Management Of Superior Oblique Paresis	379
C Souza Dias	
Atypical Partial Oculomotor Nerve Palsies	393
G Roper Hall, R M Burde	

Cyclophoria Or Cyclovergence: Illusion Or Reality	403
R S Jampel, A Stearns	
Cyclofusion	409
R C Crone, Y Everhard-Halm	
Eye Position Of Strabismus Patients Under General Anesthesia	417
L Apt, S Isenberg	
The Use Of The Operating Microscope In Squint Surgery	423
P Eustace, M Roper-Hall	
Four-Muscle Surgery In "V" Esotropia With Long Term Orthoptic Follow Up	427
M H Gobin, J J M Bierlaagh	
The Increased Certainty And The Increased Correction Of The Bare Selera	441
Closure With Bimedial Recession	
P Knapp	
Esotropia: The Second Operation	443
W E Gillies	
Extirpation Of The Recurrent Overacting Inferior Oblique Muscle	449
M M Parks	
Anchoring Sutures In The Management Of Complicated Strabismus	453
J S Hermann	
The Superior Oblique Tendon Sheath Syndrome: Differential Diagnosis Of	463
Deficient Elevation In Adduction	
A B Scott	
The Assessment And Treatment Of The Residual Deviation	487
C L Calcutt, E J Arnott	
The Effect Of Prisms In The Treatment Of Squint (Anomalous Movements)	493
B Bagolini, N M Capobianco	
The Sensorial Evolution Or Overcorrected Esotropias	501
A O Ciancia, N Melek	
Preoperative And Postoperative Sensory Findings And	507
Distance/Near Relationship: Their Influence In Corrected Exodeviations	
E L Raab, M M Parks	
An Assessment Of The Role Of Secondary And Consecutive Factors In	515
Overcorrected Esotropia	
R M Brown, B M Cooper	
Fusion And Stereopsis In Aphakia	523
J Nolan, A Hawkswell, S Beckett	
Studies Of Suppression In Alternating Constant Exotropia And	531
Intermittent Exotropia: With References To Effects Of Fusional Background	
S Awaya, H Nozaki, T Hoh, K Harada	
Retinal Correspondence In Intermittent Exotropia	547
H T Forrer	
Management Of Intermittent Exotropia	551
J T Flynn, S Mckenney, M Rosenhouse	
Results In Intermittent exotropia	559
G Velez	
The Management Of Intermittent Exotropia: A Comparison Of The Results Of	563
Surgical And Non-Surgical Treatment	

1979 Transactions of Fourth International Orthoptic Congress, Berne, Switzerland

<https://internationalorthoptics.org/members-area/learning-library/abstract-and-transactions-of-ioa-congresses/>

Opening Addresses	1
R Esser, H Bratschi, AS Van Paasen	
Burian Memorial Lecture: Points Of View About Sensorial Adaption In Strabismus	3
NM Capobinco	
The Blockage Syndrome: An Electroculographic Study	7
F Moro, S Tomarchio, F Castorina Mangano	
Torticollis And Congenital Nystagmus: Clinical Classification And Regrouping	9
A Speilamn	
Dissociated Vertical Divergence And Its Association With Nystagmus	14
J Mein, F Johnson	
Nystagmus And The Strabismus Patient	16
RD Reinecke, N Coleman-Barrows	
The Efficacy Of Inferior Oblique Myectomy Operations	20
B Harcourt, S Almond, H Freedman	
Surgical Management Of Vertical Deviations With Particular Reference To IV	24
Nerve Paresis	
FA Billson , S Brown	
More Or Less Oblique Recession Of Horizontal Muscles	26
M Balon, G Prigent, M Ecoffet, P Lavat	
Study Of The Cyclovertical Results Of The Superior Oblique Scleral Shifting	29
M D'Esposito, A Daniele	
Surgical Procedures In A And V Pattern Strabismus	34
C Calcutt, B Mathalone, JW Walker, K Wybar	
Mobius Sundrome: Multidisciplinary Diagnosis And Surgical Treatment Of Disturbances	37
K Krzystkova, B Sieradzka, Z Berenda	
An Alternative To Strabismus Surgery	42
AB Scott	
Form Vision Deprivation In Man And How To Prevent It	46
J Sugita, T Itoh	
A New Test For The Diagnosis Of Amblyopia	50
KH Hagemans And A Th M Van Balen	
Hysterical Amblyopia in children	61
E Ohmi, J Kobayashi, T Tsuboi, H Mitsuya, O Mimura, K Kani	
Psychogenic Amblyopia	65
GA Van Veen, A Th M Van Balen	
Functional Amblyopia In Children Of Less Than 1 Year Old: Diagnosis And Treatment	67
A Roth, Y Lobstein-Henry, M Tondre, E Gaddelle Barbier	
Amblyopia In Congenital Glaucoma	71
CM Clothier, NSC Rice, P Dobinson, E Wakefield	
Medical Therapy For Amblyopia After Failure Of Conventional Therapy	75
H Maclean	
A Clinical Assessment Of New Alternative Methods Of Treatment Of Amblyopia	78
RV Banks, F Barnett	
Changes In The Visually Evoked Response During And After Occlusion Therapy	81
WM Barnard, GB Arden	
Continuous Wear Soft Contact Lenses In The Treatment Of Strabismic Amblyopia	84
YA Fahmy, M Nyholm, K Norskov	

Modalities Of The Treatment Of Amblyopia According To The Age And Degree Of Amblyopia	86
N Jeanrot, F Jeanrot, G Delfour	
Normal And Pathologic Pupillary Reactions	89
H Aichmair	
Diplopia As A Presenting Symptom: A Prospective Study	91
RB Trimble, VD Kelly	
Ocular Myasthenia: Diagnosis And Treatment	95
A Huber	
Comparative Ocular Changes After Unilateral Stereotactic Mid-Brain Lesions In Man	98
JH Seabar, BS Nashold	
Ophthalmoplegic Migraine Of Childhood And Adolescence: A Disorder Of The 3 rd , 4 th , And 6 th Cranial Nerves	101
RC Polomeno, GV Waters, F Andermann, TH Kirkham, S Bekhor, JM Little	
'Spread Of Comitance' After Palsy: A New Explanation Based on Disproportionate Regeneration Of Motoneuron Types	108
B Kommerell, S Mattheus	
Myopia Acquired Progressive Esotropia: A Possible Association: The MAPE Syndrome	112
LM Wilcox Jr, PS Greenfield, ES Stephens, G Stephens	
Familial Ophthalmoplegia Plus Syndrome	118
JW Frank, TD France	
Disorders Of Ocular Motility In Patients With Spina Bifida	122
V Gordon, L Mckenzie	
Eye Findings In Premature Infants	125
C Braun, A Hoffstetter, Y Lobstein-Henry	
Evaluation Of Strabismus In Turners Syndrome	127
JT Troupe, CC Troupe	
The Significance Of Dyssynergy In Strabismus	131
M Ardouin, W Fontenaille, M Urvoy, JB Weiss	
Electrophysiologic Studies Of Retina And Central Nervous System Of Patients With Amblyopia	135
M De Carvalho Sardinha, LP Neto	
Electro-Oculography In Ocular Palsies And Functional Squints	138
MA Quere	
Quantitated Forced Duction Testing And Force Generation Test In Duane's Syndrome	142
IM Strachan	
Clinical, Electromyographic And Electro-Oculographic Examinations In Stilling-Turk-Duane Retraction Syndrome	145
M Celic, V Dorn	
A New Concept Of Anomalous Correspondence	151
D Friedburg	
Abnormal Retinal Correspondence : Investigation And Treatment	154
J Laffineur, MF Clenet-Guthier	
Retinal Correspondence In Exotropias And Esotropias	155
L Cathalifaud De Schneuer	
Anomalous Binocular Vision Redefined	160
R A Crone	
Vertical Vergence And Fusional Movements	161
WA Houtman	
Sensory Fusion	165
ME Wesson	
Fusion Reflexes: Misconceptions And New Ideas	168
MH Gobin, JM Bierlaagh	

The Complexities Of Suppression In Intermittent Exotropia	172
JA Pratt-Johnson, A Pop, G Tillson	
Decompensation Symptoms In Exophoria Cases	173
H Muhlendyck	
Acute Divergent Comitant Idiopathic Strabismus	178
R Neuschuler, G Cristini	
Surgical Therapy For Convergence Insufficiency	179
JS Hermann	
Factors Influencing The Surgical Results Of Divergent Strabismus	182
FJ Martin, S Brown, J Pardey, A Stephens, S Tait, F Merrick, A Watts	
Intermittent Exotropia	187
D Wieser, R Esser	
The Evaluation Of The Bielschowsky's Head Tilting Test	189
HM Goodier	
Exploring The Spatial And Temporal Parameters Of Stereopsis	198
DB Dunlop, RA Neill, P Dunlop	
Contrast Thresholds In Anisometropia	207
IC J Wood, MG Stephenson	
Clinical Tests Of Stereoacuity: Do They Measure The Same Thing?	211
JP Frisby, P Neilson, J Porter	
Additional Tests On The Phase Difference Haploscope	215
W De Decker, J Baenge	
Aniseikonia And Binocular Function In Unilateral Aphakes Wearing Contact Lenses	218
M Guillon, PJ Warland	
Re-Evaluation Of Orthoptic Treatment	222
E Schulz, W Hasse	
The Critical Age?	225
AV Maclellan, C Wortham, C Jancey	
Early Orthoptic Treatment Of Strabismus Between The Age Of	228
4 Months And 4 Years	
F Pincon, J Badoche	
Normosensorial Late Convergent Squint	230
J Lang	
Management Of Variable Angle Esotropia	233
PV Bernard, N Mouilloc-Gambareli, R Reydy	
Management Of Consecutive Esotropia	236
E Meyer, GK Von Noorden, C Waters Avilla	
Levels Of Stereoacuity Achieved With Binkhorst Lens Implantation For	239
Unilateral Aphakia	
MG Stephenson, AEA Ridgway	
Patterns Of Heterotropia In Aphakia	242
SM Wolf, L Werner, DA Boyce	
Viewpoint On The Use Of Prisms	244
M Bourron, T Clayette, C Bongard	
Recent Advances In Thyroid Disease And Management Of Its Ocular Complications	246
AL Crombie	
Complications In The Surgical Treatments Of Dysthyroid Eye Disease	249
P Fells, NF Lawton, E Waddell	
Fresnel Prism Therapy In Endocrine Ophthalmopathy	252
E Ross-Dommasch	
Ophthalmoplegia In Thyroid Disease: The Role Of Steroid Therapy	261
PA Mcfaul	
Diagnosis And Follow-Up Study In Ocular Muscle Trauma	263
H Thaller-Antlanger	
Prismatic Therapy In Orbital Fractures	271
M Woillez, M-J Besnard, M Louly	

1983 Transactions of Fifth International Orthoptic Congress, Cannes, France

<https://internationalorthoptics.org/members-area/learning-library/abstract-and-transactions-of-ioa-congresses/>

Theory Of Vision Screening	19
JB Sprague	
Visual Behaviour In Neonates	23
GR Laroche, DP Anderson, AC Allen	
The Objective Assessment Of Vision In Infancy	33
DJ Stark	
The Use Of The Preferential Looking Technique In The Assessment Of Infant Visual Acuity	39
M Bongrand, C Gay-Meret, M Grochwicki, F Vital- Durand	
Preferential Looking In Normal Squinting Infants	47
KP Boergen, G Kellere, G Bauernfeind-Kaliwas, R Sireteanu	
Photorefractive Vision Screening of Infants	53
J Atkinson, O Braddick	
Difficulties In Evaluating Vision In The Young Child	61
N Jeanrot	
The Assessment Of Foveolar Visual Function	69
GP Paliaga	
Contrast Sensitivity In Amblyopia	77
G Lennerstrand, BL Lundh	
Dynamic Topography Of Visual Evoked Potentials In Normal And Amblyopic Infants	85
H Kimaru, J Tsutsui, T Karino	
The Measurement Of Visual Acuity In Visually Impaired Children	91
L Hyvarinen	
The Assessment Of Visual Acuity In Infants With Congenital Cataract	97
I Morita, Y Uemura	
The Burian Lecture: The Effect Of Supranuclear Lesions On Ocular Motility	103
JH Seabar	
Duane's Retraction Syndrome:	119
Considerations On Pathophysiology And Aetiology	
A Huber	
Neuro-Ophthalmic Complications Of Pregnancy	127
G Roper-Hall, RM Burder	
Bilateral Fourth Nerve Palsy. Ex-Cyclovergenc, A Warning Symptom Of A Periaqueduct Lesion	135
G Bechac, P Bec, G Delfour, N Jeanrot, B Marion	
Post Traumatic Fusion Deficiency	143
CW Avilla, GK Von Noorden	
The Congenital Squint Syndrome	151
J Lang	
Evidence Of Abnormal Optic Nerve Fibre Projection In Patients With Dissociated Vertical Deviations	161
A Fitzgerald, F Billson	
The Relevance Of Testing Optokinetic Nystagmus In Patients With Strabismus	167
S Tait, I Atkins, S Brown, M Doyle, J Kelly, F Merrick, A Stephens	
Dissociated Vertical Divergence And Exotropia	175
J Green	
Post Operative Early Onset Esotropia: What Keeps Them Straight?	183
(The Margaret H Fitton Memorial Lecture)	
JW Walker, D Taylor	
Oculo-Motor And Sensorial Anomalies In Esotropia Mono And Dizygote	195

Twins	
A Magli, S Calbro, G Tonna	
Nosological Aspects Of Congenital And Progressive External Ophthalmoplegia	203
P Turut, B Regnault, M Woillez, M Louly	
A New View-Point On The Heredity Of Congenital Strabismus	209
WL Tydeman, J Spaan, L Polmon, A Th M Van Balen, A Abbink	
Ocular Motility In High Myopia	217
E Leonardi	
A Comparison Of Single Letter And Snellen Optotype Results	225
M Carter, H Maclean	
Motonueron Activity Around The Primary Position And In Extreme Position Of Gaze	233
V Henn, K Hepp	
Vergence Eye Movements And Herings Law Or Equal Distribution	239
WA Houtman	
Unusual Eye Movements In Humans With Attached And Detached Eye Muscles	245
A Jampolsky	
Dynamic Counter-Rolling And Its Role For Strabismology	251
Y Watanabe, R Mori, H Ohtsuki, R Ichikawa, M Nakayama, H Takasaki, Y Seguchi	
A Paradoxical Pattern Of Ocular Movement Associated With Acquired Superior Oblique Dysfunction	261
F Spencer, RB Harcourt	
Acquired Brown's Syndrome	267
RM Trimbe, V Kelly, M Mithcell	
Saccadic Velocities On Orbital Fractures	275
V Webster	
Difficulties In The Management Of Orbital Blow-Out Fractures In Patients Under 20 Years Old	283
B Mccarry, P Fells, L Waddell	
Drug Injection In Strabismus	291
A Scott	
Acupuncture In The Orthoptic Field	295
EG Poli, GE Zucchini	
Hypermetropia In Accommodative Esodeviation	301
EL Raab	
The Use Of Contact Lenses In The Treatment Of Esotropia With Convergence Excess (High AC/A Ratio)	317
G Tillson, JA Pratt-Johnson	
Functional And Organic Amblyopia In Children	323
F Lods, C Braun, F Lalvee, G Lebert	
A Comparison Of Distance And Near Vision In Amblyopia	329
L Weingeist Lennarson, JZ Portnoy, WE Scott, TD France	
Accommodative Response In Anisometropic Amblyopia With Successfully Recovered Visual Acuity	337
J Sugawara, Y Ishida, Y Nobe, T Utsumi	
Congenital Nystagmus, Characteristics And Pathophysiology	345
G Kommerell	
Idiopathic Congenital Nystagmus: A Diagnosis Of Exclusion	353
IM Strachan, AK Thiagorajah	
The Various Elements Of Torticollis In Nystagmus	359
A Spienmann, N Fontenaille	
Operative Treatment Of Nystagmus In Patients With And Without Abnormal Head Position	365
H Kaufmann, E Dannheim	
Orthoptists And Electro-Oculography	373
JB Weiss, M Munck, E Muller-Feuga	

Research By Means Of Computerised Tomography Into Correlation Between Orbital Structure And The Position Of The Globe; Its Application To Strabismology D Godde-Jolly, H Pineau, M Th Iba-Zizen, MS Muzac	381
Computerised Axial Tomography In Strabismus Patients JE Miller	393
Ultrasonography In Unilateral High Myopia With Amblyopia RG Beneish, FR Williams, RC Polomeno, JM Little, WES Connolly	401
Binocularity Assessed With Visual Evoked Responses EC Campos, C Chiesi	415
The Elector-Optokinetic Nystagmographic Diagnosis Of Amblyopia ES Stephens, A Cinotti, GS Stephens, P Chavis, A Vigorito	423
Electo-Diagnosis- Its Value In Paediatric Ophthalmology JJ Clarke, LA Parker	433
The Utilisation Of The Computer In Clinical Investigations TD France	443
Data Processing For A Mathematical Analysis Of Strabismus JF Le Gargasson, Y Grall, JL Bensimon	449
Comuper-Assisted Decision Making In Strabismus Surgery W Russman	455
The Use Of Micro-Computer In Evaluating Strabismus Surgery B Haskins, PL Condon	467
Computer Teaching Of Strabismus DK Hartman, HS Hertz	475
The Effects Of And Indications For The Faden Operation On Patients With Paretic Squint H Muhlendyck	485
The Faden Operation Its Influence On Refraction C Fava, M Fioretto, ML Costa	495
Strabismus Surgery Under Local Anaesthesia: One-Stage Technique Using Adjustable Sutures P Fells	501
Single Horizontal Muscle Surgery GW Cibis, V Crandall-Moore	507
Therapuetic Management Of Exotropia A Roth, F Huguenin, L Bianchi	515
Ocular Alignment Variations After Strabismus Surgery P Olivier, D N'Guyen	523
The Surgical Treatment Of A And V Syndromes P Magnard, R Hugonnier, C Bongard, M Bourron-Madignier, J Caprili, A Hullo	533
Surgical Treatment Of Torticollis W De Decker	541
Surgical Treatment Of Ex-Cyclotorsion H Iwashige, N Kubuto, T Maruo	549
Desagittalisation Of The Superior Oblique Muscles MH Gobin	553
Intrasheath Myotomy Of The Inferior Obliwque Muscle P Eustace, M Bourke	559
Studies Of Stereoacuity Thresholds In Crossed and Crossed Disparity Measured With The New Stereo Tests (Awaya) S Awaya, M Sugawara, T Yagasaki, T Itoh	565
Small Vergence Eye Movements In Stereopsis With Random Dot Stereograms T Inui, E Ohmi, K Kani	575
Resulsts Of Orthoptic Tests In Low Luminosity R Roggenkaemper	581
Consecutive Divergence A Arruga	587

**1987 Transactions of Sixth International Orthoptic Congress, Harrogate, Great Britain
Orthoptic Horizons**

<https://internationalorthoptics.org/members-area/learning-library/abstract-and-transactions-of-ioa-congresses/>

Genetic Aspects Of Strabismus	11
B Jay, J Elston	
Development Of The Mammalian And Primary Visual System	15
LD Beazly, SA Dunlop, CR Braekelvelt, A M Harman, LA Coleman, JE Darby	
The Development Of Eye Movements Their Relationship With Spinning Test	16
C Tims, P Novakovic, M Gonclaves, M Gresty, D Taylor	
Prospective Study Of The Development Of Strabismus During The First 6 Months Of Life	21
D Friedrich, W De Decker	
Binocular Competition In Strabismus	29
JH Seabar	
A Long Term Study Of Fixation Disparity	35
AM Van Mourik-Noordenbos	
The Sensitive Period Of Visual System In Humans	44
S Awaya, S Miyake, E Koizumi, T Hirai	
Pupil Cycle Time As A Measure Of Autonomic Nervous System Function	49
A Pitt, M Lewis	
Correlation Between Human And Animal Research In Amblyopia	56
GK Von Noorden	
The Neural Basis Of Deprivation Amblyopia In The Monkey Visual Cortex	63
F Vital-Durand	
The Electroretinogram By Pattern Reversal (PREG) In Functional Amblyopia	67
M Fioretto, GP Fava	
Comparison Of Optotype And Grating Acuity Values At Different Ages	78
L Hyvarinen	
Visual Acuity In Amblyopia: A Comparison Between "Preferential Looking" And Conventional Tests	81
A Rydberg, ML Kirchhofer	
Development Of Grating And Vernier Acuity And The Detection Of Amblyopia In Human Infants	89
J Gwiazda	
Visual Sensitivity Degradation For Non-Fixating Eye In Alternating Fixation	96
T Inui, E Ohmi	
What We Are Doing When We Occlude Infantile Esotropes	101
E Ross-Dommasch, E Morris	
Amblyopia: The Prevalence In Congenital Esotropia Vs Partially Accommodative Esotropia: Diagnosis And Treatment Results	106
Clinical Observations In Anisometropic Amblyopia	113
CW Avilla, GK Von Noorden	
An Objective Evaluation Of The Sensorial Status In Esotropia And Of Possible Obstacles To Surgical Correction	116
B Baaglolini, NM Capobianco	
Anomalous Retinal Correspondence Update	124
J Lang	
Do Patients With Congenital Nystagmus Really Show OKN Reversal	128
SFJ Pilley	
Study Of Opto-Kinetic Nystagmus In Children	134
M Bourron-Madignier, S Vettard, ML Ardoi, C Cypres	
Congenital Paralysis Of Vertical Gaze	140
IM Strachan, JR Innes	

Ocular Motor Apraxia	145
B Mccarry, P Fells	
Myasthenia Gravis	150
H Orton	
Evaluation Of Spatial Frequency Discrimination Test For Multiple Sclerosis	156
E Cornell, L Wilcox	
Systemic Steroid Therapy In Infantile Haemangiomas Of The Lids And Orbit	160
P Enoksson, P Naeser	
Relationship Between The Anatomical And Clinical Situation In Patients With Different Disturbances Of Cyclodeviation. Diagnosis And Therapy	166
H Mulendyck	
Binocular Visual Fields In Cyclodeviation	174
E Campos, C Cheisi, S Schiavi	
The Clinical Assessment Of Cyclodeviation	179
F Johnson, B Harcourt, A Fox	
Ocular Torticollis Without Normal Binocular Vision Head Tilt	184
L Baekeland, A Boschi, D Hoffman, M Spiritus	
Orthoptic Treatment Of Acquired Superior Oblique Palsy	190
S Fukai, J Tsutsui	
Surgical Treatment Of Trochlear Palsy	198
KP Boergen, A Brenner	
Computers And Electro-Diagnosis In Strabismus	204
JC Hache	
Saccadic Movements Of Strabismus Patients Before And After Surgical Intervention	205
P Nemet, S Ron	
Analysis Of Ocular Movement Through Digital Processing To Television Recording	210
R Frosini, L Campa, A Pasquinelli, M Papin, N Landi	
The Contribution Of The Intraoperative Length/Tension Curve And The Computer Modelling To Diagnosis And Treatment In Strabismus	217
HJ Siemonsz, B Van Dijk, GH Kolling, H Kaufmann	
Establisng A Place For Eye Movement Saccades In Disorders Of Ocular Motility	222
A Ansons , J Wylie, RB Trimble	
Electrophysiological Responses To Crossed And Uncrossed Disparity Under Conditions Of Refractive Overcorrection	227
R Neill, MB Fenlon, P Dunlop, DB Dunlop, C Dunlop	
Development Of A Moving Topography System For The Study Of Visual Function In The Brain	234
J Tsutsui	
Visual Acuity Testing By Use Of Computer Technology	242
S Johnson, J Allan, I Stewart	
Optical quality Of Fresnal Prism – Analogous Measurements In Situ	250
W Kulnig	
Temporary Exotropia Following Surgery for Infantile Esotropia	255
WE Scott, SH Pressman	
Recession Of The Conjunctiva In Squint Surgery	263
P Roggenkamper	
Pastpointing After Strabismus Surgery: Lack Of Proprioceptive Information About Postoperative Eye Position	266
G Kommerell, O Bock	
Extraocular Muscle Morphology And Botulinum Toxin	271
K Mcneer, FR Spencer	
Saccadic Velocities Following Botulinum Toxin Injection	282
C Pritchard, J Flynn	
Botulinum Toxin Adaption Test: Use Of Botulinum In The Investigation Of The Sensory State In Strabismus	289
MJ Ketley, CM Powell, J Lee, J Elston	

Botulinum Injection Treatment Of Congenital Esotropia	294
AB Scott	
Possible Interactions Between Orthoptic Treatment And Accommodation Pathology	301
R Navarra, G Gaiba, N Zveehi, C Martoni, A Massari, MT Temussi, R Zucchini	
Accommodative Myopia, A Decompensation Sign Of Exophoria	307
H Thaller-Antlanger	
The Association Of Accommodative Esotropia And Bilateral Superior Oblique Palsy	317
TD France , L France	
A Study Of Accommodative Anomalies In Pre-Presbyopic Age Group	322
P Vijayalaskshmi	
Fusion Loss From Longstanding Unilateral Cataract	327
G Tillson, JA Pratt-Johnson	
The Orthoptists Role In the Management Of Stroke Patients	333
CF Freeman, N Rudge	
Panel Discussion Of Accommodative Esotropia:	
S Moore	339
C Calcutt	341
S Fukai	345
G Martinez	350
D Verlohr	354
F Williams	357
B Zurcher	359
Managememnt Of A Pattern Exotropia As A Complication Of Thyroid	361
Ophthalmopathy	
G Roper-Hall, RM Burde	
An Orthoptic Case Study Of A Patient Undergoing Medial Orbital Decompression	365
For Dysthyroid Eye Disease	
M Payne, P Craven	
Studies On The Causative Factors Of Proprioceptive Abnormalities In	371
Paralytic Strabismus	
H Kimura, J Tsutsui, S Fukai	
Atypical Types Of Duane's Retraction Syndrome	376
G Macdonald	
Bilateral Superior Oblique Tendon Sheath Syndrome – Clinical Features And	382
Management	
J Wlaker, P Rells, B Mccarry, A Moore	
Clinical Presentation Of Acquired Bilateral IV Nerve Palsy	383
A Pitt, R Wilkinson	
Asymmetrical Superior Oblique Dysfunction	388
J Greene	
Surgery Of Accommodative Esotropia	396
PV Berard, R Reydey, P Viral-Berard	
Long Term Results Of The Surgical Correction Of Accommodative Esotropia	403
MH Gobin	
Some Uses Of Inferior Oblique Anteroposition	407
W Rubmann	
Role Of The Oblique Muscles In Convergence Insufficieny	412
BP Buller Greaves	
Slipped Inferior Rectus After Adjustable Suture	421
EM Helveston	
Fadenoperation : A Simple Approach To Incomitant Vertical Strabismus	427
EG Buckley, BM Meekins	
The "Oblique Kestenbaum" Procedure Revisited	433
A Spielmann	
Surgical Options In Duane's Retraction Syndrome	438
P Fells, B Macarry	

Long Term Results Of Treatment Of Brown's Syndrome By Means Of Partial Trocleotomy	442
M D'Esposito, E Chiosi, A Daniele	
Strabismic Complications Following Retinal Detachment Surgery	447
AL Rosenbaum, M Munoz	
The Management Of Surgically Induced Strabismus – Case Studies	448
GV Catford, LA Watts	
Motor Alignment Following Traditional Vs Adjustable Suture Strabismus Surgery	454
D Hartmann, HS Metz	
Factors Producing Underaction Of The Horizontal Recti Muscle Following Squint Surgery. Prediction In Patients At Risk.	460
WE Gillies, N Strang, AM V Brooks	
Is The 3 Step Test Invalid?	472
IM Rabinowicz, AE Stearns, J Petrunak	
The Cambridge Crowding Cards For Pre-School Visual Acuity Testing	482
S Anker, J Atkinson, C Evans, A McIntyre	
Visual Acuity Assessment In Latent Nystagmus	487
D Moore	
Marlow Occlusion, Is It An Important Pre-Operative Investigation Of Intermittent Exotropia	492
B Neikter	
The Importance Of The Synoptometer In The Diagnosis Of Vertical Muscle Disturbances	499
K Kryzstkowa, A Kubatko-Ziellinska	
Are The Subjective Tests Still Useful?	505
R Pigassou, A Borja	
Esotropia And Variable Angle: A Study Of The Dazzling Test And The Different Testing Methods	509
N Jeanrot, L Beziat	
Re-Evaluation Of The Depth Of Anomaly Concept With Special Reference To After-Image Tests	514
T Hirai, E Koizumi, S Miyake, S Awaya	
The Project-O-Chart In The Evaluation Of Stereopsis At Distance	519
C Giles, C Lewis, K Pascall	

1991 Transactions of Seventh International Orthoptic Congress, Nurnberg, Germany

<https://internationalorthoptics.org/members-area/learning-library/abstract-and-transactions-of-ioa-congresses/>

The Natural History Of Infantile Esotropia. A Study Of The Untreated Condition In The Visual Adult C Calcutt	3
Preliminary Results Of Observation Of The Development Of Eye Movement Control In Babies Am Harwood	11
Visual Outcome After Seven Years In Infants Of Very Low Birth Weight J Luck, J Voller	16
Visual Improvemen In The Multi-Handicapped Child With Cortical Visual Impairment HL Crossman	21
Objective Visual Acuity Testing By Means Of Optokinetic Nystagmus Inhibition S Fukai, T Hayakawa, J Tsutsui	26
Assessment Of Vision In Children 0-6 Years Of Age A Rydberg, B Ericson, G Lennerstrand, E Lindstedt	30
The Effect Of Tinted Lenses On Contrast Sensitivity In Normal And Reading Disabled Children A Fitzgerald	35
Response To Induced Aniseikonia With Size-Lenses In Anisometropic Patients E Schulz, R Heins, T Heins	41
The Ultrastructure Of Collagen Filbrils Of Tenons Capsule In Normal Eyes And In Eyes With Infantile Esotropia	48
The Dissociated Vertical And Torsional Deviations In Infantile Strabismus A Spielmann, A Spielmann	53
Pattern Visual Evoked Potentials In Dissociated Vertical Deviation K Furuya, S Kawno, S Shoda, T Sukaue, N Kubota	58
Factors influencing The Sensory Outcome In Congenital Esotropia JA Pratt-Johnson, G Tillson	63
Nystagmus Intensity Variations In Early Onset Strabismus In Children M Bourron-Madignier, S Vettard	68
Asymmetries Of Nystagmus RD Reinecke, HP Goldtein, LC Blumenfeld	72
A Prospective Multicentre Analysis Of Strabismus Surgery JR Lipton, HE Willshaw	79
Simultaneous Horizontal And Vertical Surgery In V-Esotropia J Van Nouuys-Leenders, I Vleeming-De Jong, H Knijrenburg-Gaillard, F Bijker, M Van Es-Gutter, L Barenbrug, O Vermeulen-Van Rijt, K Damnes, W Dell, C Durian, K Mortier	84
Variability Following Adjustable Suture Strabismus Surgery R Rosen, R Morris, B Mccarry, P Fells, J Lee	89
A Simple Transposition Procedure For Complicated Strabismus EG Buckley	94
An Anti-Contracture, Self-Adjusting Strabismus Operation: Myotomia Laminae Globalis K Molnar	99
Dissociated Vertical Deviation And Oblique Muscle Dysfunction L Mccall, AL Rosenbaum	104
The Surgical Correction Of Accommodative Esotropia MH Gobin	105
Delayed Visual Acuity Development In Alternating Strabismus EC Campos, C Schiavi, R Bolzani	112

Notion Of Critical Period In Amblyopia According To Physiological And Clinical Data	116
N Jeanrot	
The Significance Of Crowding	121
S Johnson, JA Sparks	
A New Technique For Early Detection Of Functional Amblyopia	126
V Paris	
Haemangiomas Of The Eyelid And Amblyopia	130
JW Walker, R Collin	
Nystagmic Tropias And Optical Penalisation	141
MA Quere, O Malauzat	
Changes In Ocular Alignment After Occlusion Therapy In Patients With Strabismic Amblyopia	145
A Parrozzani, S Pullini, P Gerhardinger, T Sibilla, E Farrari, L De Vicentiis, F Fratolin, G Stocco	
Treatment Of Amblyopia With The Pattern Flicker MF 17 Stimulator : A Critical Analysis	150
R Frosini, EG Poli, L Campa, M Mottes	
Stereoscopic Co-Operation Between The Fovea Of One Eye And The Periphery Of The Outer Eye At Large	157
G Kommerell, B Dengler	
Nine Years Experience With The Lang Stereotest	163
J Lang	
The Quantitive Measurement Of Interocular Suppression	168
N Jolly, A Freeman	
Subnormal Binocular Vision	172
E Dannheim-De Decker, W Hasse, W De Decker	
Asthenopic Troubles And Fusion Training	177
HH Keller	
Covering One Eye In Fixation-Disparity Measurement Causes Slight Movement Of Fellow Eye	179
HJ Simonsz LJ Bour	
A Study Of Post-Operative Diplopia	184
A Hilscox, G Woodgruff, J Thompson	
The Pre-Operative Diagnostic Value Of Botulinum Toxin A	189
S Watkins, JP Lee	
Orthoptic Workup Of Patients Being Considered For Refractive Surgery	194
B Bagolino, A Dickmann, G Savino, A Muci	
Clinical Observations In Refractive Accommodative Esotropia	197
GK Von Noorden, CW Avilla	
How Long Should We Follow Up Strabismus	202
Y Watanabe, H Ohtsuki, H Konishi, S Hasebe, Y Tadokoro, K Hasebe, M Ohtani	
Proprioceptive Effects On Eye Position In Exotropia	209
G Lennerstrand, J Roll, S Tian, R Roll, JL Velay, Y Han, PV Bernard	
Horizontal Fusional Movements In Intermittent Exotropia	214
WA Houtman, JA Spreen, B De Vries	
The Role Of Orthoptic Therapy In The Treatment Of Exodeviations	218
JH Seabar	
Long Term Results After Surgery In Intermittent Exotropia	222
E Vereecken, C Vereecken, P Brabant	
Intermittent Exotropia: A Survey Of Current Management	227
PRE Romano, JA Robinson	
Photorefractive – A Comparative Study	232
TJ Smellie, J Tovey, J Deutsch	
The Optical Principles And Some Clinical Applications Of The Otago Photoscreener	237
A Molteno, IJ Hodgkinson	

Photorefractive Screening For Amblyogenic Factors	243
CEA Morris, WE Scott, J Simon, K Preston, H Freedman	
The Clinical Evaluation Of A Computerized Mathematical Model Of Strabismus	250
B Horsburgh, D Stark, D Kault	
Functional Exploration In Orthoptic Department	255
D Schmitt, L Laurent, P Le Neindre, F Zamfirescu, JL Duthie	
Data Processing Of The Orthoptic Chart: Accuracy And Logic	261
F Lods, G Lebert	
Visual Disturbances Associated With Whiplash Injury	269
S Brown	
Cavernous Sinus Sundrome: Acute And Chronic	274
J Tullos	
The Pattern And Management Of Strabismus In Dysthyroid Eye Disease	281
Rj Morris, PH Rosen, JP Lee, P Fells, B Mccarry	
The Incidence Of Orthoptic Disorders In A Series Of Children With	286
Noonan Syndrome	
LA Kelly, NB Lee, M Sharland	
Ocular Features Of The Turner Syndrome And The Effect Of Hormone Therapy	291
On The Accommodation	
MC Masters	
Atypical Adaption Of Muscle Sequelae Following Superior Oblique Palsies	296
A Hornbrook, J Kelly, F Erick, M Doyle, G Stead	
Ophthalmic Manifestations Of Head Injury	301
L Kowal, S Debono	
Saccadic Eye-Movement Recording Using An Intelligent Video Eye Monitor	309
A Pitt	
Evaluation Of Saccadic Velocity Testing As A Diagnostic Tool In Orbital	313
Trauma Patients	
C Pritchard, D Tse, JW Kronish, LA Abel, J Vahey, JT Flynn	
The Observation Of Eye Movement Within The Orbit Using Cine Mode MRI	318
K Nukina, Y Nishida, E Nishida, O Hayashi, A Mekada, A Inatomi, K Kani	
Investigation Of Oculomotor Palsies By A computerized Lancaster Screen Test	322
JY Guessant, JF Rouland, C Joly, P Debruyne	
Ultrasound Of The Horizontal Muscles In Duane's Syndrome	327
L Malan, NH Welsh	
Botulinum Toxin A Injections Into Extraocular Muscles In Paralytic Strabismus	332
(VI And IV Nerve Palsy)	
KN Kryzstkowa, A Madroszkiewicz, R Szpytma	
Botulinum Toxin A Injection For Acute Sixth Nerve Palsy	336
K Cooper, JP Lee, C Macewan, S Jones	
The Role Of Botulinum Toxin A Injections In The Management Of Patients	341
With Duane's Retraction Syndrome	
JES White, JP Lee	
The Evaluation Of Superior Rectus Recession For The Treatment Of Congenital	346
Superior Oblique Muscle Palsy	
S Akatsu, M Tokutomi, H Iwashige, T Mauro	
O.C.E Orthoptists De La Communaute Europeene	353
M Louly, C Wortham, J Clayton, A Van Mourik-Noordenbos	
AACO 50 th Anniversary Poster	354
American Association Of Certified Orthptists	
Eye Care In Northern Saskatchewan – Canada	355
E Ross-Dommasch, CC Ewing, E Morris	
The Orthoptists Role In An Eye Screening Program	356
(Louisiana Eye Health Program)	
FL Franks, B Rockett	
Early Detection Of Visual Disorders In Young Children In Health Care Centres	357

K Lantau, DH Loewer-Sieger	
Contrast Sensitivity Normals For 525 Australian Children Aged 6 – 12 Years Using The Vistech System	358
A Fitzgerald	
Does Forced Choice Preferential Looking Fail To Recognise The Crowding Phenomenon In Amblyopes	359
A McIntyre, C Hogg	
Preferential Looking: - The Sydney Experience	360
C Searle, K Bourne	
Using IBM PC Microcomputer To Measure Visual Acuity In Children	361
R Mcnamara, CN French, ICJ Wood	
Vision Assessment Of Pre-School Children With Multiple Disabilities	362
DW Harrison	
A multidisciplinary Approach To Working With Multi-Handicapped Visually Impaired Children	363
HL Crossman	
Communication Board Design For Non-Verbal Communicators	364
S Collett, A Pitt	
The Orthoptist – Visual – Therapist	365
E Colombo	
A New Field For Orthoptists	366
G Schwerdtfeger	
Treatment Of Children With Contact Lenses	367
U Ergstrom, G Simonsson	
Contact Lenses And Congenital Nystagmus	368
DJM Godts, AMJ Adank, HGN Veraart, O Lopez Cardozo	
Visual Rehabilitation: An Orthoptic Perspective	369
KC Fitzmaurice	
A Trend For A Blind And Hyposeeing Subjects Rehabilitation	370
U Monti, F Mignacco, G Sacco, E Cremonesi	
Eye Movement Recordings By Electro-Oculographic Methods In The Orthoptic Daily Uses	371
L Thiriez, L Bughin, MP Leroy, P Vermersch	
A Long-Term Follow-Up Study Of The Visual Functions In Retinopathy Of Prematurity	374
T Iwasaki, N Akaike, H Suzuki, K Harasawa, H Matsuo	
Evaluation Of Reliability Of Preferential Looking Test After Follow Up Of 5 Years As “Signaller” Of Sensorial And Refractive Alterations In Child.	375
L Fusi, F Fusi Czimeg	
Observation Of Fixation And Correspondence In Amblyopia With The Fundus Halposcope	376
T Kojima, K Nukina, M Funabili, K Kazutaka, A Inatomi	
Cerebral Mapping: A New Method For Assessment Of Visual Maturation And Amblyopia In Infants	377
D Thouvenin, M Tiberge, B Gajan, M Nardin, JL Arne	
Fixation Switch Diplopia	378
W Cadera, K Galloway, T Kaban, RB Orton	
Vertical Accommodative Vergence	379
U Klein-Scharff, G Kommerell	
Delineation Of Stereofields And Stereoscotoma To Crossed And Un-Cross Disparity Using Temporal Detection Thresholds	380
D Dunlop, ML Manning, DC Finlay, SAM Dewis, P Dunlop	
Is BVS Really Necessary For Good Hand-Eye Co-Ordination?	381
L Kousoulides	
Binocular Function In Cataract Operated Persons	382
H Dahl, A Schou, PH Madsen	

An Alternate-Day Vertical Strabismus After Retinal Detachment Surgery	383
H Yamamoto, K Tsuihiji, S Inoda, H Shimizu	
Strabismus after Cataract And Retinal Detachment Surgery – A Retrospective Study	384
M Faxander, G Lennerstrand	
A Retrospective Evaluation Of Bimedial Recession And Recession-Resection	385
Operations In Early-Onset Esotropia	
HM VD Meulen-Schot, LJJM Maillette De Buy Wenninger-Prick	
Results Of Strabismus Surgery At The Rotterdam Eye Hospital In Patients With	386
Graves Disease	
IJ Van Wijnen-Segeren, R Wijngaarde, M Wildervanck De Blecourt-Deville	
The Effect Of Botulinum Toxin Esotropia Vs Exotropia	387
H Kimura, J Tsutsui, S Fukai	
Botulinum Toxin In The Treatment Of Acute Surgical Overcorrection	388
S Ahghe, J Lee, K Cooper	
Surgical Reversal Of A And V Patterns	389
R Jenkins, GK Von Noorden	
Strabismus Correction By Adjustable Globe Surgery – A New Technique	390
BP Greaves	
A Case Of Vertical Strabismus Fixus Due To Chronic Maxillary Sinusitis	391
N Kubota, C Usui, F Mita, T Hayashi, H Iwashige	
Duane's Syndrome Associated With Congenital Third Nerve Palsy – A Case Report	392
V Subrayan	
Clinical And Electro-Oculographic Findings For The Key To	393
Duane's Retraction Syndrome	
P Vermersch, MP Leroy, M Bughin, L Thiriez	
Recording Of Voluntary Saccades – Dynamic Study	394
MP Leroy, M Buguin, L Thiriez, JC Hache	
Eye Movement Recordings Using The Ober-2 Registration System	395
J Ygge, A Rydberg, B Neikter, A Seidman, S Wijecoon, G Lennerstrand	
The Importance Of The Gestational Period In Infantile Esotropia	396
M Strathdee, A Stuart, V Tosswill	
Efficacy Of Photorefractive Screening On 20 Month Old Children	397
M Angi, R Rizzo, F Rodeghiero, V Pucci, B Piccinelli	
Congenital Nystagmus – The Role Of The Neurologist In Its Investigation	398
JDA Carruthers, JE Jan	
A Study Of Critical Period Of Abnormal Retinal Correspondence In Cases	399
Of Consecutive Exotropia	
T Hirai, K Tsuzuki, S Awaya	
The Polarized Four Dot Test	400
BW Arthur, A Marshall	
Marlow Occlusion Of The Dominant Eye In Intermittent Exotropia	401
B Neikter	
The Heavy Eye Phenomenon: Orthoptic And Ophthalmological Characteristics	402
KR Whales, MF Raines	
Computerization Of Hess And Less Screen Testing	403
A Assaf	
Instantaneous Capture Method Of The Nine Cardinal Positions Of Gaze	404
C Joly, J Y Guessant, P Debruyne, G Constantinides, JC Hache	

**1995 Transactions of Eight International Orthoptic Congress, Kyoto Japan
East meets West**

<https://internationalorthoptics.org/members-area/learning-library/abstract-and-transactions-of-ioa-congresses/>

Can We Eliminate Amblyopia In The 21 st Century?	17
T Hirai, M Arai, T Kora, S Awaya	
Association Of Colour Vision Defects In Amblyopia With And Without Eccentric Fixation	22
MA Deacon, C Leach, H Davis	
The Congenital Functional Monophthalme Syndrome Revisited	27
A Speilmann, AC Spielmann	
Visual Screening In School And At Children Health Care Centres In Sweden	32
G Kvarnstrom, P Jakobsson, G Lennerstrand	
Is Visual Screening At Age 3 Effective, Desirable And Reproducible?	37
A Franceschetti	
Static Threshold Across The Visual Field In Amblyopes	42
N Nagae, T Niida, M Wakakura, K Mukuno, S Ishikawa	
Amblyopia In Pakistani Children: Causes And Management	45
H Awan, M Jalis, H Minto	
Anisometropic Amblyopia And Microtropia	50
K Yazawa, K Ikebe	
Teller Acuity Cards In The Diagnosis Of Functional (Hysterical) Visual Loss	56
SE Staffieri, J Elder	
A 10 Year Study On The Ocular Manifestations Of Head Injury	63
Z Georgievski, L Kowal, E Hollenbach	
Developmental Delay In Congenital Ocular Motor Apraxia	68
FJ Rowe	
Ocular Morbidity Following Acoustic Neuroma Sugery	74
KL Smyth, IB Marsh	
Ocular Neuromyotonia: A Report Of 2 Clinical Cases	77
M Spiritus, A Boschi, J Bergmans	
A Population Based Prospective Study Of 22 Neonates With Spina Bifida Cystica	82
E Caines, M Dahl	
Essential Anisocoria – Is It Really Benign	85
GT Denslow, A Mccarthy	
The Effects Of The Prism Adaption Test (PAT) On The Surgical Plan For Deviations With A And V Patterns	105
S Veronneau-Troutman, E Traykovski, S Shipman	
What Have We Learned From Pre-Operative Prism Treatment?	109
D Weiser	
Treatment Of Symptomatic Heterophoria By Small Prisms	113
V Paris, JB Weiss	
Orbital Tissue Volume In Dysthyroid Ophthalmopathy Determined With MRI	118
Y Nishida, S Tian, L Tallstedt, G Lennerstrand	
Extraocular Muscle Surgery After Radiation Therapy For Graves' Ophthalmopathy	123
K Ogasawara, A Asakura, S Nakanima, M Shibuya	
Force Development And Saccadic Velocity In Dysthyroid Ophthalmopathy	129
S Tian, G Lennerstrand, Y Nishida	
Measurement Of Subjective Adaption To Cyclodeviations	134
R M Mcnamara, RML Doran, M Geall, L Anderton	
Pfeiffers Syndrome: A Study Of The Orthoptic Problems	139
JP Yih, J Walker, I Russell –Eggitt, W Readon, R Ahyward, B Jones	
Management Of Persistent Binocular Diplopia Following Cataract Surgery	144
The Role Of Fresnel Prisms	

J Wylie, Mhenderson, Mdoyle, M Hickey-Dwyer A New Device For Measurement Of Head Positions	149
JY Guessant, P Debruyne, JF Rouland Management Of Head Tilt In Strabismic Patients	157
W De Decker The Factors Affecting Large Consecutive exotropia Following Surgery For Esotropia	162
RYB Roh, JR Lee Surgical Management Of Anatomic Variations In Congenital Superior Oblique Palsy	166
C Y Lo Long Term Post-Operative Results Of Early Treated Infantile Strabismus	171
D Wittebol-Post, Mde Graff Isolated Lacerations Of Extra-Ocular Muscles Following Penetrating Stab Wounds Of The Orbit – A Preliminary Report	174
AND Murray Synthetic Tendon Extension Procedure (Step) In Rectus Muscle Surgery	179
S Kheterpal, RK Aggarwal, HE Willshaw Masked Bilateral Superior Oblique Palsy	184
J Van Nouhuys-Leenders, IR Vleeming-De Jong Medial Rectus Slanting Recesson For Treatment Of Esotropia With Discrepancy	192
BZ Biedner, R Frilling, M Marcus Fast Vergence Responses To Step Disparity In Small Angle Esotropia With Anomalous Retinal Correspondence	199
Z Georgievski Sensory Tolerance To Retinal Disparity In Subjects With Normal Binocular Single Vision	204
The Effect Of Foveal Fusion And Stereo-Acuity On Surgical Outcome In Intermittent Distance Exotropia	209
PE Waddingham Motion Perception Tested With Reversing grating In Duane's Syndrome	213
S Awaya, Y Suzuki, T Hirai The Relationship Between Binocular Function And Monocular Optokinetic Symmetry	217
C Timms, F Shawkat, P West, C Harris Monocular Optokinetic Nystagmus In Parents Of Children With Congenital Esotropia	222
M Sato, LA Abel, EM Helveston Botulinum Toxin A In Essential Infantile Esotropia	229
EC Campos, C Shiavi, L Scrorolli, S Piaggi Use Of Botulinum Toxin In Acquired Nystagmus	232
IB March, A Kosmin, KL Smyth A Case Of Abducens Palsy Due To Neuroborreliosis	241
J Krijnen, L Polman The Pulfrich Stereophenomenon – A Literature Review And Experimental Investigation	249
AG Pechereau, MA Quere, M Weber, F Lavenant Videorefraction: Its Use In Infant Vision Screening To Detect Strabismus And Abnormal Refractive Errors	254
S E Anker, J Atkinson, OJ Braddick Studies On Retinal Image – Development Of The Prejection Method By The Non-Mydriasis Fundus Camera With A Built In Target	259
S Uchida, S Fukai Clinical Applicationof The Non-Mydriasis Fundus Camera With A Built In Target	264
S Miyake, S Ohtomo, K Orito, S Uchida Incidence Of Post-Operative Diplopia In Adults After Surgery For Early Onset Strabismus: An IOA Study	268

E Cornell, N Jolly, R Heard	
The Detection Of Visual Stimuli By Drivers	274
N Jolly, P Mithcell, W Smith	
Incidence of Bitemporal Hemianopic Visual Field Defects In Pituitary Tumours	279
F Rowe, C Thompson, A Webster	
Usefulness Of Automated peripheral Isoptometry And Central Three Zone Testing For Visual Field Screening In Children	284
H Suzumura, A Kobayashi, S Saito, A Koori, K Harasawa, N Endo, M Usui	
Preliminary Evaluation Of A Long Term Screening Project	289
K Thoren, J Andersson, E Caines, F Rasmusson	
Assessment Of Visual Acuity In Preterm And Newborn Infants	292
R Frosini, S Frosini, L Campa, R Caputo, G Tosini	
ECCVUE: Computer Software For Eccentric Viewing Training	298
K Fitzmaurice, JF Kinnear, YA Chen,	
Visual Stimulation: Its Benefits In Therapy Of Low-Vision Pre-School Children	303
H Van Dueren, G Loots, H Thone	
Functional State Of Retina In Children With Amblyopia	309
I Boichuk	
A Long-Term Follow Up Study Of The Functional Outcome Of Eyes In Infants Of Very Low Birthweight	310
E Ch. Schwarz	
Early Vision Screening – An International Study	311
M Wackerhagen	
Screening Of Amblyogenic Factors By Photorefractor	312
R Ishii, K Yazawa, A Kanai	
Effects Of Parental Education In The Treatment Of Amblyopia	313
A Rydberg, A Goransson, G Lennerstrand, P Wilen	
The Melbourne Initial Screening Test (MIST)	314
S Brown, R Duyshart, I Story	
A Follow Up Of Visual Acuity In Amblyopia Patients With Astigmatism	315
K Suda, Y Mori, H Shirabe, Y Sekiya, M Yamamoto	
Contrast Sensitivity Analysis In Amblyopia Cases	316
Y Mori, K Suda, H Shirabe, Y Sekiya, M Yamamoto	
Treatment Of Strabismic Amblyopia In Patients With Dissociated Vertical Deviation	317
C Usui, N Kubota, M Nakagawa, N Ikuta	
The Cardiff Acuity Test: A New Measure For Infant Vision In Practice	318
A Brown	
The Use Of Cambridge Crowding Test In The Assessment Of Visual Acuity: A Clinical Study	319
IM Pocas, H Marques, L Dias Periera	
Screening For Refractive Errors By MTI Photoscreener TM In Young Children	320
R Fukuhara, M Totuka, C Miida, K Fujiike, T Nakamura, S Nishina, K Tomita, Y Tanaka	
Evaluation Of The Standard Cure For Anisometropic Amblyopia	321
S Takamura, K Matsuda	
A Protocol For Occlusion Therapy In Amblyopia	322
B Unwin	
Pilot Study Of Low Dose Phenylephrine 2.0% And Atropine Sulphate 0.2% In African-American Children	323
JC Merritt, NR Hanna	
Amblyopia In The Pediatric Population Treated With Silicone Oil For Retinal Detachment	324
B Bieder, I Klemperer	
Factors That Contribute To Visual Loss In Strabismic Patients	325
N Jolly, A Freeman, V Nguyen	
Vision Screening In Ethnic Minorities	326

LA Baxter, R Fuller	
The Results Of The Treatment Of Functional Amblyopia In Children At Age 7 And On	327
S Bosnjakovska, V Celeva, M Golubovic-Arsovska	
Orthoptic Visual Screening Of Pre-School Children In Hong Kong	328
GHS Leung, MK Leung, YH NG, RCM Tsui	
Kinetic Vision Refractive Amblyopia	329
F Matsumoto, S Uchida	
The Number Of Low Vision Patients In Japan	330
K Tajima, T Mori, M Shibuya, A Asakura, S Nakajima	
Vergence Adaption In Fully Accommodative Esotropia	331
AY Firth	
A Review Of Excessive Accommodative Convergence/Accommodation (AC/A) Ratio	333
HJ Abbott, AY Firth, Cm Leach	
Strabismus And Orthoptics In Republica De Cabo Verde	334
Gulbenkain Ophthalmologic Missions	
L Dias Pereira, F Inocencio, Ilda Pocas, LN Ferraz De Oliveira	
Fresnel Membrane Prism For Partially Accommodative Esotropia	335
T Hasimoto, K Yago, H Tanji	
Angle Reduction In Infantile Esotropia With Prismatic Treatment	336
H Yamamoto, K Hozawa	
Comparison Of Exodeviation Corrected By Glasses And Contact Lenses In	337
Bilaterally Aphakic Eyes	
S Ohta, Y Matsui, S Oono	
Accommodation, Convergence And Pupil Dynamics In Phoriamyopia	338
M Matsuo, S Ohta, Y Matsui, S Hara, S Oono	
Intermittent Exotropia Of Distance Type: Patient V Practitioner Perception	339
Of Outcome Of Treatment	
JES White, P Fells, JP Lee	
Duane's Retraction Syndrome – A Different Perspective From Johannesburg	340
SC Young, NH Welsh	
Recession Of Both Horizontal Recti Muscles In Duane's Syndrome With Globe	341
Retraction In Primary Positions	
DT Sprunger	
A Cyclic Esotropia With A 3 Month Cycle Combined With A 24-72 Hour Cycle	342
Y Shin, H Nemoto, Y Nemoto, K Chiba	
Treatment by Acupuncture Of Convergent Strabismus With Variable Angle	343
S Labrador, F Renaudot, A Poletti, J Poletti, S Franzini XL, Xu	
Some Considerations On Age-Limit In Treatment Of Childhood Squint	345
I Reich-d'Almeida, F Reich-D'almeida	
The Treatment Of Total Paralysis Of The Lateral Rectus By Transposition According	346
To Hummelsheim	
L Dias Pereira, F Vaz, I Pocasa, LN Ferraz De Oliveira	
Surgical Treatment Of Acquired Convergent Strabismus Surgery	348
G Matsuura, J Kawahara, T Iwasaki, Y Wakabayashi, A Sanada,	
A Toyoguchi, K Yamamota, T Mizusawa, K Harasawa, Musui	
Factors Influencing Surgical Overcorrection	349
L Polman, F Kamsteeg, M Weel, J Krijnene	
Factors Influencing Binocularity For Horizontal Strabismus Energy In Adults	350
F Umazume, H Ohtsuki, S Hasebe, M Okano, T Furuse	
Influence Of Dynamic Background On The Eye Position	351
M Yamashita, T Tokoro, T Murakami, J Asakawa	
MRI Measurement Of normal Eye Muscle In Different Gaze	352
Y Nishida, S Tian, B Isberg, G Lennerstrand	
Analysis Of Ambiguous Eye Movements During The Cover Tests	353
S Hasebe, H Ohtsuki, N Umazume, K Hasebe	
Othoptic Training In Acquired Ocular Movememtn Disorders	354

N Sakai, S Fukai, N Arai, M Oka, H Kimura	
On The Semiology Of A And V Patterns: Vertical Manipulation Of The Head (Dolls Head Phenomenon)	355
M Zanasi	
The Orthoptist In The Care Of Patients With Brain Injury (Head Injury & Cerebro Vascular Accident)	356
A Macfarlane, N Jolly	
Fourth Cranial Nerve Palsy In Benign Intracranial Hypertension	357
FJ Rowe	
Community Prevalence Of Vertical Deviations In People Aged 49 Years And Older	358
R Sparkes, N Jolly, P Mithcell, W Smith	
A Study Of The Histochemical And Cytoenzymatic Alterations In Human Strabismic Oculomotor Muscles	359
Y Ducournau, MA Quere, A Pechereau	
Morphological Changes In Extraocular Muscles Of The Rabbit Produced By Botulinum Toxin	360
H Ohtsuki, S Hasebe, M Okano	
Treatment Of Acute Comitant Esotropia With Botulinum A Toxin	361
M Ohba, T Kii, M Hotubo, T Nakagawa	
A Case Of Congenital Abducens Palsy Treated With Botulinum Toxin	362
H Kimura, N Arai, M Oka, N Sakai, S Fukai, A Tabuchi	
Receptive Fields Of Retinal Ganglion Cells And Visual Fields	363
M Takahima, K Kani	
Binocular Cumulative Phenomenon Within The Binocular Visual Field	364
A Wakayama, S Fukai	
A Survey On Perception Of Visual Field Change	365
N Akaike, K Baba, H Muto, Kharasawa, N Endo	
Pupil Perimetry – Prototype Device	366
T Matsui, T Yoshitomo, A Fujita, K Mukuno, S Ishikawa	
Three Dimensional Perception And The Use Of Virtual Reality System	367
Y Komachi, K Miyazaki, T Murata, S Nagata, Kknai	
Difference Of Depth Perception By Usage Of Unilateral Visual Centre Or Bilateral Visual Centres	368
K Toda, A Watanabe, T Nakano, K Kitahara	
Photographic Method Of Measurement Of Ocular Deviation By Analysis Of The Corneal Reflex	370
F Lignereux, A Pechereau	
Videographic Analysis Of The Corneal Reflex Test In Spectacle Wearers	371
Y Hatsukawa, A Muai, K Kasai, A Furukawa, S Sugimoto, G Ohmi, T Fujikado	
New Projects For The Study Of Ocular Dynamics Through Grids Method	372
G Cattini, GP Gracis	
The Training Chart For Patients With Convergence Insufficiency	373
M Shibuya, S Nakajima, K Tajima, A Asakura, T Mori	
The Use Of A Modified Hand Perimeter In Orthoptics	374
S Van Buitenen, MM Van Hermert, M Ph Mourits	
The Torsionometer	375
Z Goergievski	
Changes In Slow Phase Of Congenital Nystagmus (CN) By Biofeedback Treatment	376
A Matsuno, H Haro, Y Fuijiyama, S Aoki, K Mukuno, S Ishikawa	
The Newly Established Ophthalmic Rehabilitation Clinic Of The Hospital Of Kawasaki Medical School	377
A Tabuchi, K Yasuki, A Hasiba, C Tanaka, A Morinaga, A Kikuri	
Side Effects Of The Use Of Botulinum Toxin For Treatment Of Strabismus	378
Z Liu	

1999 Transactions of Ninth International Orthoptic Congress, Stockholm, Sweden

<https://internationalorthoptics.org/members-area/learning-library/abstract-and-transactions-of-ioa-congresses/>

A New Orthoptics Trend In The 21 st Century Sakuko Fukai	3
Long Versus Short Term Prism Adaption In Adults V C Hansen, R S Freeman, C Swarbick	17
How Far Can We Compare Primary Microtropia And Macrotropia? V Paris	21
Adaption To Torsion After Macula Translocation Surgery J H Seabar, S F Freedman, C Toth	25
Effectsof Eye And Neck Muscle Proprioceptive Activation On Eye Position And Space Localization In Normals And Strabismics Y Han, G Lennerstrand	29
Amblyopis In Sweden G Kvarnstrom, P Jakobsson, G Lennerstrand	35
State Of Rotterdam Amblyopia Screening Evaluation Study (RAMSES) V K Lantau, R E Juttman, P J Van Der Maas, J T H N De Faber, H Simonz, J Hermans, F Pass	39
Modulation Of Referral Criteria For School-Aged Children C E Stewart, B Winn, P V McGraw	42
Prevalence Of Adult Strabismus – A Preliminary Report S Brown, L Weih, C Mccarty, H Taylor	46
Amblyopia Treatment In Later Referrals In Non-Screened Area A Southgate	53
Is There An Upper Limit For Successful Occlusion Therapy In Amblyopia D Friedrich	57
Amblyopia Treatment In Microstrabismus With Eccentric Fixation J Van Nouhuys-Leenders	62
Amblyopia As A Cause Of Visual Handicap In As Unscreened Population P Jakobsson, G Kvarnstrom, E Abrahamsson, E Bjernbrink-Hornblad, B Sunnqvist	66
Nerve Fibre Layer Thickens In Unilateral Amblyopia M O'hara, J Burroughs, M Dirks	68
Functional Neuroanatomy Of Human Amblyopia H Richter, K Imamura, O Franzen, A Rydeberg, Y Watanbe, B Langstrom, G Lennerstrand	72
Visual Acuity As A Functional Test In Amblyopia And As A Method For Differential Diagnosis – 15 Years Of Experience With A Crowding Test (Landolt Rings) W Haase, B Schmal, D Verlohr, B Liedke	76
Psychological Impact Of Occlusion Therapy In Unilateral Congenital Cataracts D Thouvenin, N Jeanrot	80
The Effect Of Written Information On Parental Compliance With Occlusion Therapy D Newsham	84
A Computer Based System For Acquisition, Recording And Analysis Of 3d Eye Movement Signals J Ygge, R Bolzani, S Tian	91
Detection Of Vertical Saccade Initiation Failure Using An OKN Projection System S Garbutt, C M Harris	95
Monocular Clues In Tests Of Stereoacuity J M Holmes D Leske	103
Margaret Fitton Lecture: Assessment Of The AC/A Ratio Using The Remote Haploscope A M Horwood, P M Riddell, J E Turner, S M Houston	107
A Method Of Assessing Visual Performance Applicable To	111

Multi-Handicapped Children	
K Fitzmaurice, H Maclean	
Presbyopia And Strabismus: New Symptoms , Old Patients	119
C J Lyons, D T Oystreck	
The Effect Of Orthoptic Treatment On The Proximal Component	123
Of The Near Response	
E Cornell, J Predebon, Y P Vu	
The Incidence Of Visual Dysfunction In Children With Reading Difficulties	127
G Godts, L Smeets, P Evens, M J Tassignon	
Findings In Congenital Fibrosis Syndrome Of The Extraocular Muscles (CFEOM)	133
G Rudolph, H D Schworm, A Golla, T Meitingner, B Lorenz, A Kampik, K P Boergen	
The Significance Of Interpupillary Distance On The Strabismus In	137
Craniofacial Dysostosis	
J W Walker, I Russell-Eggitt, N Ragge, R Hayward, B M Jones	
Visual Function In Children With Periventricular Leukomalacia	141
L Jacobson, J Ygge, O Flodmark, U Ek	
Multi –Sensory Treatment Of Nystagmus	145
K Caiffreda, B Tannen	
Pseudotumor Cerebri – Eye Finding Plus	149
P Jenkins, C Gunderson, J D Cook	
Ocular Motor Abnormalities Following Whiplash Injuries	153
H Griffiths, J Whittle, I Whelehan, R Workfolk, J P Burke	
Interpretation And Management Of Symptoms In Supranuclear Gaze Disorders	157
G Roper-Hall, S M Chung	
Atypical Ocular Myasthenia Gravis	161
J Krynen, L Polman	
A Neuro-Orthoptic Approach To Multiple Sclerosis	165
V Trimble	
Anisotropy Related Blurred Vision	170
J Mingle, C Flinn, M Green	
Scleral Implants – A Useful Technique In Eye Muscle Surgery	177
J Blohme, G Stigmar, J Hall-Lingberg, K Moutakis	
Combined Rectus Muscle Resect/Recess	181
E G Buckley	
Surgical Pleoptics	185
W De Decker, E De Decker	
Surgical Management Of Baglioni's Syndrome	190
C Y Lo, T Marou	
Extraocular Muscle Surgery In Persisting Tonic Downgaze,	194
Esotropia And Upgaze Palsy	
E Schulz	
Aqueous Flare And Corneal Endothelial Cell Density As Parameters Of	196
Oxygen Supply After Eye Muscle Surgery With Involvement Of 4 And	
More Ciliary Arteries	
G C Gusek-Schneider, N X Nguyen, B Seitz, M Kuchle	
Review Of The Myotoxic Effects Of Retrobulbar Anaesthetics	200
B Wakeman	
Restrictive Vertical Strabismus Following Orbital Decompression	204
C W Avilla, M Mazow	
Visual Outcome And Alignment Of Patients Presenting With Orbital Injuries	209
T Eariss, F J Rowe	
Severe Rectus Muscle Injury: Diagnosis And Management Using MRI Scanning	213
A Rosenbaum, J L Demer, G Shin	
Benign VI Nerve Palsies In Childhood	219
B Schmal, D Verlohr, E Schulz	
Emmetropization In Patients With Accommodative Esotropia	223

T D France, L W France	
The Accommodative Convergence/Accommodation Ratio As A Predictor To Control Of Fully Accommodative Esotropia Without Optical Correction	227
The Role Of Botulinum Toxin A In Acute Onset Esotropia	231
E Dawson, W Marshmann, G G W Adams	
Consecutive Exotropia Following Surgery For Partially Accommodative Esotropia	234
K Arnoldi, L Tychsen	
Asynchronous Manifestations Of Bilateral Brown's Syndrome	241
S P Kraft, N U Nabi, M E Wilson, J D Roarty, A S Budning	
Diagnosis And Treatment Of Combined Oblique Eye Muscle Dysfunctions	243
K P Boergen	
Epidemiology Of IV Nerve Palsy	247
C A Gunderson, M L Mazow, C W Avilla	
Discrepancy Between Measureable Exocycloptropia And The Real Rotary Deficit Incases With Marked Bielschowsky Head Tilt Phenomenon	251
W Happe, H Muhlendyck	
Study Of Unilateral High Myopia With Or Without Heavy Eye Phenomenon	253
V Dedes, P Lablette, J Y Guessant, O Devos, M P Leroy, J F Rouland	
Pathophysiology Of Binocularity	259
E C Campos	
Dissociated And Associated Phoria: Do They Indicate Asthenopia?	264
G Kommerell	
The Postoperative Diplopia Test And Botulinum Toxin As Predictors Of Post-Operative Sensory Outcome	271
A L Spencer, A M Ansons	
Projection In Longstanding Strabismus	272
M A Deacon, J K Hole	
Can "Worth" Be Found In The 4 Dot Test?	273
D T Oystreak, C Parsons	
The Relationship Between Motion Stereopsis And Peripheral Fusion In Patients With Esotropia	274
I Matsuda, S Asonuma, C Kawabata, A Akaike, C Kumazaki, N Kunisawa, Y Takami, T Fujikado	
A Study Of Fusional Vergence Movements	275
T N Theodorou, H J Griffiths, J P Whittle	
Stereoacuuiy After Implantation Of Different Designed Multifocal Intraocular Lenses	276
E Ch Schwarz, T Walkow, E Waffenschmidt	
M And P Pathway Anomalies In Functional Amblyopia: Effect Of Treatment Evaluated By Patter VEP's And Reaction Time	279
R Beneish, P Lachapelle, J Lachapelle, M Mckerrall	
The Crowding Effect Can Be Observed In Normal Subjects And Can Be Improved By Pop Out	280
T Hayakawa, S Miyauchi, M Kato, A Onishi, H Baba, K Maruhama, H Moriyasu	
Assessment Of Contrast Sensitivity In Children Aged 3 Years, 9months – 6 Years	281
A Rydberg, Y Han, B Ericson	
Motion Detection Test In School Children	282
R Bolzani, A Rydberg, V Belli, M E Pappalardo, J Ygge	
Fournier Analysis Of Steady-State VEP's In Subjects With And Without Stereovision	283
B Johansson, P Jakobsson	
The Effect Of The Proximity Factor And Fusional Convergence On Accommodation In Exophoria, Exotropia And Orthophoric Subjects	284
Y Sugiyama, C Oki, K Tsuchiya, H Ishikawa, S Ishikawa	
Functional Neuroanatomy Of The Human Accommodative/Vergence System	285
H Richter	
Threshold Sensitivity Of Strabismus Detection: A Pilot Study	289

M A Deacon, C Leach	
Objective Measures Of Accommodation When Testing Binocular	290
Visual Acuity Of Fully Accommodative Esotropes Without Refractive Correction	
A Y Firth	
Assessment Of Near Triad In Accommodative Esotropia	291
N Shoji, A Aoki, Y Fujiyama, T Niida, K Mukuno, H Ishikawa	
Decompensation Of Convergence Excess Esotropia In Adulthood	292
L Pankethman, J Hole, M A Deacon	
Muscle Sequelae In Acquired VI Nerve Palsy	293
L Garnham	
Botulinum Toxin As Pre-Surgical Treatment For Abducens Nerve Palsy	294
Y Nemoto, H Kaneko, K Nishide, T Hayashi, T Maruo	
Long Term Postoperative Stability In Infantile Esotropia	295
F J Rowe	
Ocular Deviation And Binocular Vision Of Infantile Esotropia Treated	296
With Combined Use Of Surgical Undercorrection And Post-Operative Prisms	
M Shioya, K Minamimura, Y Fukuoka, U Shinjo, A Sawada	
Early Surgery For Infantile Esotropia	297
H Shirabe, Y Mori, M Dogru, M Yamamoto	
Spontaneous Change Of Ocular Deviation In Infantile Esotropia	298
M Nakagawa, T Maruo, N Kubota, T Hayashi, N Ikuta, Y Arima	
Spontaneous Consecutive Esotropia	299
J K Hole, L Pankethman, R Doran	
Risk Factors Of Consecutive Exotropia	300
A Svede, I Hercoga, S Valeina	
Long-Term Effectiveness Of Surgery For Exotropia	301
M Mitta, S Oda, K Sasamoto, A Inatomi	
It The Treatment Of Brown's Syndrome With Local Steroids Justified?	305
R Wilson, I Marsh	
Clinical Characteristics Of Class III Congenital Superior Oblique Palsy	306
M Sato, M Maeda, T Ohmura, Y Miyazaki	
Estimation Of Range Of Motility Of Straight And Oblique Muscles In	307
Persons Without Squint	
L Puchalska-Niedbal	
Isolated Idiopathic Inferior Rectus Palsy	308
J White	
Vertical Duane's Retraction Syndrome	309
A Cook, I B Margh, M Doyle	
The Stroke Patient And Common Orthoptic Problems	313
B Neikter, P Klein	
Ocular Status Of A VDU (Visual Display Unit) Population	314
J Mehta	
Ophthalmic Manifestations Of Crotalide Envenomations In The United States	315
G Denslow, A Mccarthy	
Doctors Delay In Retinoblastoma?	316
L Polman, A C Moll, S M Imhof	
Pseudostrabismus Associated With Retinopathy Or Prematurity	317
L Gannon, C Moen, D Clark	
Incidence Of Strabismus Associated With Retinopathy Of Prematurity	318
A O'connor, A R Fielder, T J Stephenson , M Ball, K Fielding	
A Longitudinal Study Of Premature Infants With Stage 3 Retinopathy Of	319
Prematurity (ROP): Orthoptic And Refractive Outcomes At 6 And 36 Months	
(Corrected Age)	
D Clark, R Wilson, L Gannon, F Pennie	
Atypical Fixation Due To Submacular Disciform Neovascular Membrane With	320
Virteous Haemorrhage	

F J Rowe	
Rotated Fovea With Good Vision And Binocularity Infamilial Exudative Vitreoretinopathy	321
N Nozaki, S Akaike, S Ogoonuki, S Nishina, N Azuma, K Tomita	
Sporadic Aniridia In A Girl, Congenital Cataract With Nystagmus In Her Maternal Grand-Uncle, And Idiopathic Nystagmus In The Grand-Uncles Son: Three Different Diagnoses Or One Entity With Variable Expressivity	322
H Link, E Gampe, S Kern, B Lorenz	
Diagnositic And Therapeutic Aspects Of Sensory Defect Nystagmus	323
E Gampe, H Link, M Andrassi, C Girth, B Lorenz	
Strabismus Associated With Congenital Cataract	324
G Simonsson, U Kugelberg, A Lundvall	
Eye Movements During The Decoding Process	327
V Rawsthorne	
The Impact Of Orthoptic Treatment On Reading And Spelling Performance	328
J Wulff, N Jolly, E Cornell, R Heard, N Anton, M Austin	
Reading Difficulties In Patients With Right Hemianopia And Their Rehabilitation (Contrasting The Distributed Brain Systems Involved In Reading Single Words And Text In Norma And Alexic Subjects)	329
B Unwin, A P Leff, S Scott, H Crewes, D Howard, R J S Wise	
Diagnosis And Treatment In Patients With Asthenopic Symptoms	330
B Neikter, B Eriksson-Derouet	
The Amblyogram: A Dynamic Approach To Amblyopia And Its Treatments	333
D Thouvenin, B Gajan, M Nardin	
Parental Compliance With Occlusion Therapy	334
D Newsham	
Treatment Compliance In Amblyopia Patching	335
H J Simonsz, J R Polling, R Voorn, J Van Leeuwen, H Meester, K Romeijn	
The Exploration Of Parents Perception And Experiences Of Caring For A Child Who Has Undergone Cataract Extraction	336
J K Clarke	
Eccentric Fixation As A Problem In The Treatment Of Amblyopia	337
A Kedeva-Petrova	
Pleoptic Treatment For Anisometropic Associated With Unilateral Congenital Anomalies	338
T Kojima, R Yamamoto, N Hashimoto, H Wada, F Takahashi, H Ishigooka	
Studies On Fixation Using The Image Diagnosis Method	339
H Yoshida, S Fukai, M Morita, S Uchida	
Studies On Fixation Difficulty At Near Vision	340
N Hoshihara-Fukuda, A Tabuchi, S Fukai	
Axial Length Of The Eye In Anisohypermetropic Amblyopia	341
C Usui, T Maruo, N Kubota, T Hayashi, Y Misaizu, K Nagai	
Can The Animal Model Of Visual Deprivation Amblyopia And Myopia After Lid Closure Be Established In Human Congenital Ptosis	342
G Ch Gusek-Schneider, P Martus	
A "Lost Muscle", A "Lost Case"?	345
M Swart-Vb D, E Berg, T Tijssen	
Which Patients Require Adjustable Sutures?	346
L B Marsh	
Late Results Of Subjective And Objective Cyclorotary Changes Following Surgery Of The Oblique Muscles	347
H D Schworm, P Sauter, O Ehrt, G Rudolph, K Boergen	
The World In Extorsion: What To Do About It? Horizontal Transposition Of The Inferior Rectus Muscles For Exocycloptropia	348
M A G Bouten-Wijnhoven, G Cinque, J T H N De Faber, C Kingma-Wilschut	
The Physiological Impact Of "Cosmetic" Strabismus In Adults	349

S Brannen, G Vinten, J Vinten, M Doyle, G Baker, I Marsh Orthoptists And European Citizenship	353
M Louly, M Van Lammeren Orthoptics In Norway	354
E M Olsen, K W Tangent Orthoptics In The Netherlands Under The New Health Law	355
I R Vleeming-De Jong Orthoptics Without Ophthalmology?	356
B De Vries, N M Jansonius, T B Kerkhof, J R W Pott, M F L Versteegh, R H J Wijdh A New Model For The Evaluation And Management Of Strabismus, Amblyopia And Refractive Errors In Children	357
G Schalit, J Howell, S Tansley, G G W Adams, A McIntyre Post-Graduate Education for Orthoptists Absed On Sensory Sciences	358
S Fukai, N Hoshihara-Fukada, Y Uchikawa, M Sumitani, T Nagahara, H Baba, H Kimura, S Awaya, A Tabuchi Special Prism Glasses As A Meaningful Benefit To Patients With A Progressive Supranuclear Palsy	361
M M C Weel, H L M Stam The Application Of Cut Off Glasses	362
G Schwerdtfeger, K Weinand, M Graf A New Method For Evaluating The Effect Of Orthoptic Treatment	363
A Wakayama, K Ohmure, F Matsumoto, T Tanimoto, T Kusube, T Otori Our Method For Maintaining Exophoria In The Treatment Of Intermittent Exotropia	364
F Matsumoto, A Wakayama, K Ohmure, K Tanoue, T Otori Effects Of Acupuncture On Congenital Nystagmus – A Longterm Follow Up Study	365
Y Fujiyama, H Ozawa, S Ishikawa Thai Ophthalmologists Opinion And Practise On Low Vision	369
S Kongsangchai The Fundamental Points Of A Scientific Method Of Evaluation And Rehabilitation For Low Vision People	370
C Dauxerre, C Corbe Can Patients With Glaucoma And Intracranial Diseases Recognize Their Visual Field Loss?	371
T Hirai, T Omura, M Sato, K Tsuzuki Introduction Of Monocular And Binocular Visual Functions Ion Myopic Patients Submitted To Photorefractive Keratectomy (PRK)	375
V Kortas Pires De Camargo Anomalous Head Posture Related To Uncorrected Refractive Error	377
X Gao, L Ma, G Xu, D Zhang Emmetropization In Eyes With Uniocular Congenital Glaucoma	378
C Moore, A V Drack Changes In Myopic Refraction During Childhood And Prediction Of Amblyopia And Squint	379
C Stolovitch A Comparison Between 3 Metres And 6 Metre Tests. Does This Alter The Diagnosis?	383
C Lewis, A McIntyre The Reliability Of The 15 Base In Prism Test With Orthotropic Patients And With Microstrabismus	384
W G Van Den Berg-Den Bok, M Muyskens Comparison Of Non Verbal / Preschool Visual Acuity Tests: Cardiff Test, Lea Hyvaerinen – Test (LH Test) And H Test (Kolt)	385
B Christiani, B Schmal, W Haase The Development Of Visual Acuity Measured With The Preferential Looking Method (Teller Acuity Cards)	386
C Schoffler, Y Renkin, E Schulz, W Haase New Lens Designed For Measuring Refraction And Ocular Deviation In Infants	387

C Y Lo, T Maruo	
A New Model Of Hess Coordimeter Employing Head Mounted Display	388
K Miyazaki, Y Nishida, T Murata, O Hayashi, M Noguchi, K Kani	
A New Adaptation Of The Electric Hess Test	389
H Webb, C Hogg, J Lee	
Evaluation Of Static Ocular Countertorsion In Normal Subjects Using A	390
Handheld Automated Keratometer: Implications For The Bielschowsky	
Head Tilt Test	
C Palmer	
Detection Of Slightly Slowing Saccade Using Electrooculogram	391
K Kamigaki, T Niida, K Mukuno, T Yamada, S Ishikawa	
An Enhancement Study Of Extraocular Muscles Using MRI	393
O Hayashi, Y Nishida, T Murata, Y Aoki, M Kimura, K Kani	

**2004 Transactions of Tenth International Orthoptic Congress, Melbourne, Australia
CD ROM transactions – there are no page numbers for this CD ROM version**

<https://internationalorthoptics.org/members-area/learning-library/abstract-and-transactions-of-ioa-congresses/>

Burian Lecture

Factors Contributing to the Outcome of Sensory Testing in Patients with Anomalous
Binocular Correspondence

Kyle Arnoldi

Steady-State Sweep VEP Acuity in Childhood Amblyopia: A Longitudinal Prospective
Treatment Study

Arvind Chandna, S.I.Chen, A.M.Norcia, D.Stone

Snellen, Sheridan Gardiner and Lea Symbols Acuity: A Comparative Study

Arvind Chandna, J. Senior, L.Bell

Recovery of Contour Integration Thresholds in Relation to Logmar Visual Acuity during
Treatment of Amblyopia in Children

Arvind Chandna, A.M.Norcia

A National Survey of the Use and Range of Written Guidance for Occlusion in the Treatment
of Amblyopia

Sue Elliott

Amblyopia: 'Is there more to Amblyopia Treatment than Meets the Eye?'

Sahira Hanif, C. Noonan

The Psychosocial and Functional Impact of Amblyopia and its Treatment

Konstandina Koklanis, L.Abel, R.Aroni, J.E.Elder

Atropine Occlusion-How Long Does it Take for Fixation to Swap?

Rowena McNamara, P.Rice

Factors Predicting Non-Compliance with Occlusion Therapy for Amblyopia: Results from the
Electronic Recording of Patching for Amblyopia Study (ERPAG)

E.van Minderhout, S.E.Loudon, B.Simonsz, M.V.Joose, M.Fronius, M.Awan, D.Newsham,
R.A.Harrad, H.J.Simonsz

Inventory of 404 Orthoptists Simultaneously Prescribing Occlusion Therapy for Five Sample
Amblyopic Cases

Janine Monique Van Zon, R.Delle Site, S.E.Loudon, J.R. Polling, B.Simonsz, H.J.Simonsz

Evaluation of Reading Using Mread-Jk with Normal Children and Anisometropic
Amblyopia Children

Kazuyo Ohmure, Fumiko Matsumoto, Akemi Wakayama, Kiyo Ohmura, Toru Kusube,
Kosuke Abe, Masayo Kinoshita, Yoshikazu Shimomura

II. Electronic Recording of Patching for Amblyopia Study (ERPAG): Can Compliance be
Improved?

Brigitte Simonsz, S.E.Loudon, M.V.Joose, M.Fronius, M.Awan, D.Newsham, R.A.Harrad,
H.J.Simonsz

Longterm Outcome of Occlusion Therapy for Amblyopia in a Historic Cohort

Brigitte Simonsz, H.Van Kempen, E.S.van de Graaf, G.W. van der Sterre, H.J. Simonsz

Spatial and Temporal Distortions in Strabismic Amblyopia

Ruxandra Sireteanu, C.Baumer, C.Sarbu, S.Tsujimura

An Electrophysiological Study of Magnocellular and Parvocellular Visual Function in Early
and Late Onset Strabismic Amblyopia

John Sloper, A.Davis, M.Neuve, C.Hogg, M.Morgan, G.Holder

Optimisation of the Dose-Response of Occlusion Therapy for Amblyopia: The ROTAS Study

Catherine Stewart, M.J.Moseley, D.A.Stephens, A.R.Fielder

Treatment Dose-Response for Amblyopia: Results from the MOTAS Study

Catherine Stewart, Merrick Moseley, David Stephens, Alistair Fielder (on behalf of the
MOTAS Cooperative)

Evaluation of Diagnostic Usefulness of the Simultaneous Foveal Perception Test in Assessment of Anisometropic Amblyopia
Sachiko Takamura, K.Matsuda
Treatment of Amblyopia in Japan
Chie Usui, T.Hayashi, M.Minoda, S.Kawano
Range of Accommodation and Binocular Vision after Refractive Surgery
Jeroen Claeys, D.Godts, R.Trau, M.J.Tassigno
Assessing the Dominant Eye - A New Method to Determine Sensory Dominance during Binocular Vision
Elaine Cornell, C.Emmanouilidis, N.Moss
Does Dissociation Reduce Stereoacuity?
Helen Davis, Michelle Tewkesbury, Jonathan Dominic, John P Frisby, David Buckley
Does Stereoacuity Correlate with Interpupillary Distance for Normal Observers? –
John P.Frisby, Emma Patchick, Rebekah Edgar, Helen Davis
Assessment of Sensory Ocular Dominance
Junko Fujita, Takahiro Niida, Kazuo Mukuno
The Age-Related Decline in Stereopsis as Measured by Different Stereotests
Louise Garnham, J.Sloper
A Clinical Quantitative Measurement of Ocular Dominance
Tomoya Handa, Hiroshi Uozato, Kazuo Mukuno, Takahiro Niida, Nobuyuki Shoji, Risako Higa, Marie Nitta, Kimiya Shimizu
Can Stereo Tests be an Indicator of Decreased Visual Acuity?
Toshie Hirai, Keisuke Takahashi, Yoshikatsu Kawase, Muneko Tanabe, Norio Ohba
Stereoacuity Following Unilateral and Bilateral Cataract Extraction
Rebekah Lawry
Measurement and Improvement of Visual Skills in Young Adults
Yoshie Morita, Akiko Toshimitsu, Mitsuko Shima, Maureen Powers
Diagnosis and Treatment in Patients with Asthenopic Symptoms Due to Exophoria
Birgitta Neikter, Brigitte Eriksson-Derouet
Monovision by Implanted Intraocular Lenses
Marie Nitta, Takahiro Niida, Risako Higa, Kimiya Shimizu
The Effect of Simulated Torsional Disparity on Horizontal Fusional Vergence and Stereopsis in Normal Subjects
Michael Sleep, Z.Georgievski
Strabismus In Childhood: Unilateral Cataracts Function Of Age At Surgery (About 75 Cases).
Dominique Thouvenin, C.Lesage, S.Nogue, L.Fontes, O.Norbert, J.L.Arne
The Use of a Computerised System for the Study of Binocular Vision: First Experiences
Joy White, Hector Rojas-Anaya, L.Ripley
Disruption of Binocular Vision following Cataract Surgery
Joy White
The Influence of Vestibular Eye Movements on the Precision of Vergence Eye Movements during Head Tilt
Elaine Cornell, J.Predebon, I.Curthoys
Binocular Co-Ordination of Saccades in Children Born Preterm
David Newsham, Paul Knox, Richard Cooke
A Study to Investigate the Effect of a Moving Background on the Accuracy and Latency of Saccades
Joanna Tarbox, Jon Whittle
Fixation Behaviour and Stability in Normal Children
Jan Ygge, E.Aring, Y.Han, R.Bolzani
A Survey of Quality of Life in Patients with Age Related Macular Degeneration
Jill Carlton, G .Phippen, C.Czoski Murray, J.E.Brazier, C.Brand, L.A.Hughes
Orthoptic Intervention for Children with Multiple Disabilities. Does it make a Difference?
Rachel Elliott, Heather Crossman
Effectiveness of Gradient Absorptive Lenses
Hiromi Hayashi, Marie Miwa, Kazuko Kanno, Kenji Yanashima

Understanding Children with CVI

Lea Hyvarinen

Changes to Paediatric Referral Patterns to Royal Blind Society Over 10 years

Marion Rivers

Eccentric Viewing Training - Comparing Situation and Success in Kenya and Germany

Petra Verweyen

The Prevalence of Charles Bonnet Syndrome in Persons with Low Vision

Meri Vukicevic, Kerry Fitzmaurice

A Comparison of Rehabilitation Strategies Used to Ameliorate the Impact of Centre Field Loss:

Preliminary Results

Meri Vukicevic, Kerry Fitzmaurice, Larry Abel

Assessment of Optic Nerve Compression in Cases of Thyroid Eye Disease

Hilary Boyce, N.R.A.Parry, J.L.Noble

Follow-Up at Age 12-14 Years of Visual and Oculomotor Function in Children with Spina

Bifida Cystica and Arnold Chiari Malformation

Elizabeth Caines, Margareta Dahl, Gerd Holmstrom

An Investigation of the Long-Term Effects of Stroke- Related Visual Field Defects

Paula Callaghan, Claire Copeland, Brendan Martin, Brigitte Yip

Visual Characteristics of Community Returning Stroke Survivors

Ian Cunningham, Paul Knox, Fiona Rowe, Tony Fisher, Cathy Jack

The Incidence of Superior Oblique Weakness following Foramen Ovale Wiring for Temporal Lobe Epilepsy. A Prospective Study.

Melanie Doyle, Ian Marsh, David Smith

The Orthoptist's Contribution on a Stroke Rehabilitation Ward

Fanny Freeman

The Varied Understandings and Experiences of Congenital Nystagmus

Adrienne Hall, Larry Abel

The Heimann-Bielschowsky Phenomenon: An Acquired Unilateral Vertical Nystagmus

Following Severe Monocular Visual Loss.

Gemma Hocking, R.V.Abadi

Orthoptic Problems following Stroke

Rachel McKay

Ocular Motility and Alignment Abnormalities in Horizontal Gaze Palsy and Progressive Scoliosis (HGPPS)

Darren Oystreck, T.Bosley, M.Salih, T.Kansu, J.Jen

Eye Movement Disorders Associated with Intracranial Shunts

Gill Roper-Hall, S.M.Chung, O.A.Cruz

Visual Function and Ocular Motility Consequences of Lumbar-Peritoneal Shunt

Complications Fiona Rowe

With the Rule Astigmatism in Congenital Horizontal Jerky Nystagmus - A Prospective Study

Upali Seekkubadu, R.M.McNamara

Correlation of MRI Findings with the Visual and Perception Performance of Children Born Pre-Term

Chris Timms, B.Vollmer, F.Vargha-Khadem

A New Visual Field Screening Test (Suzuki's Eye Check Chart)

Reiko Higashi, Taketoshi Suzuki, Takayuki Oba

Evaluation of Visual Perception Using Pattern VEP - Horizontal/Vertical Fresnel Prisms

Noriko Hoshihara-Fukuda, Sakuko Fukai, Misa Tanabe, Miyuki Furuyama

Age-Related Changes in Wavefront Aberrations of the Human Eyes

Misae Ito, Daisuke Aizawa, Yoshihiko Iida, Takashi Yano, Sachiko Sekiguchi, Nobuyuki

Shoji, Hiroshi Uozato, Kimiya Shimizu

Effect of Pupil Size on Binocular and Monocular Visual Functions

Takushi Kawamorita, Hiroshi Uozato

A Simultaneous Record of Triad of Near Reflex with a New Device

Takayuki Oba, R.Higashi, Taketoshi Suzuki

Development of a Treatment Method in Which Recovery in Contractility of Iris Sphincter Muscle is Achieved in a Short Duration after Administration of Tropicamide, a Mydriatic Agent used for Funduscopy
Mayumi Okano, Y.Uchikawa, R.Yamamoto

Visual Acuity Thresholds with Retinal Eccentricity: Evaluation of Four Paediatric Acuity Tests
Gary Price, Tejpal Shergil, Arvind Chandna

Is Reading Distance a Function of Reading Material Size?
Luke Skilbeck, Catherine Devereux

Paediatric Contact Lenses - Further Expansion of the Role of the Orthoptist
Clare Dewsbery

Sensory and Motor Outcomes with Infantile Cataract
Joanne Forster, R.V.Abadi, I.C.Lloyd

Refractive Changes and Ocular Axial Length Growth Associated with Aphakia in Patients with Unilateral Congenital Cataracts
Birgit Griffiths, E.Schulz

Cycloplegics in the Paediatric Setting: A Comparison between Cyclopentolate and Homatropine
Konstandina Koklanis, S.Staffieri, J.E.Elder

Does Refractive Correction Impede Emmetropisation?
Sarah Richardson, Helen Haggerty, Susan Hrisos, Nicholas Strong, Michael Clarke

Evaluation of ROP - Incidence over a 25-Year Period in One Neonatal Unit
Ebba Schwarz, Kathleen Kunert, Beate Ruppert, Roland Wauer

Retinoblastoma and the Orthoptist
Sarah Turner

A Multidisciplinary and Shared Care Approach to Retinoblastoma
Sarah Turner, Maureen McCalla

Ocular Abnormalities in Deaf Children
Bronia Unwin, Joanna Lawson, Nigel Davies

Causes of Visual Loss in the Craniosynostoses: An Overview of 30 Years' Experience
Jane Walker, R.Hayward, A.Liasis, B.Walters, S.Mohammed, D.Dunaway, K.K.Nischal

Ocular Findings in Unicoronal Synostosis
Bronwen Walters, Shafquet Mohamed, Alki Liasis, Ken Nischal

An Overview of Orthoptic Research in the 21st Century - Scientific Committee of the International Orthoptic Association (IOA)
An "Online" Discussion Forum to Support Orthoptic Clinical Education
Catherine Devereux, Zoran Georgievski, Linda Santamaria

Verbal Skill of Orthoptists in Clinical Practice in NSW Public Hospitals
Neryla Jolly, H.Metlej, R.Heard

The Development and Diversity of the Role of the Orthoptist of the St. John Eye Hospital in Jerusalem
Judith Musallam, Jane Tapley

Students Teaching Students Refraction. Is There a Role for Peer Mentoring in the Education of Orthoptic Students?
Jean Pollock, Zoran Georgievski, Catherine Devereux

Using Online Discussion Groups to Enhance the Learning Outcomes of Undergraduate Orthoptic Students. What have we Learnt?
Sue Silveira, Helen Wozniak, Robert Heard

The Current Education of Orthoptists in Japan, Evaluation Method on Clinical Practice
Yoshikazu Uchikawa, M.Okano, K.Yoshihiro, M.Takaki, S.Uchida, S.Fukai

An Audit of Shared Care Practice for Paediatric Referrals in an Inner City Orthoptic Department
Rosemary Andrews, Marie Cleary, Hannah Stewart, Dawn Buchan, Gordon Dutton

Comparison of the LogMAR, Cardiff and Lea Visual Acuity Tests in Children
Anju Chandna

Preschool Photoscreening: Results from 100,000 Screened Children
Sean Donahue

Reliability of Visual Acuity Measurements in Vision Screening
Lea Hyvarinen

Mesopic Vision Assessment in the Senior Driver
Neryla Jolly, J.Major, S.Blanchette

Driver Confidence: The Impact of Age Related Cataracts on the Appreciation of Visual Cues in the Driving Situation
Neryla Jolly, P.Narayan, R.Heard

Rotterdam Amblyopia Screening Effectiveness Study (RAMSES): A Follow-Up Study
V.Kathleen Lantau, J.H. Groenewould

Pseudostrabismus?
Cindy Pritchard, G.S.Ellis Jr.

Evidence Based Orthoptics: The Importance of Systematic Reviews
Sarah Richardson, S.Elliott

A Prospective Study of Asthenopia in School Children Orthoptic and Ophthalmological Evaluation and Effect of Treatment
Saber Samuel Abdi, Agneta Rydberg

The Roles of Orthoptists in Vision-Check Program for Infants in Japan
Mikiko Tsunekawa, Keiko Nakamura, Hiroko Tanji, Kayoko Nemoto

Risk of Bilateral Visual Impairment in Subjects with Untreated Amblyopia: A Population-Based Prospective Study
Marleen Vermeulen-Jongen, R.van Leeuwen, M.Eijkemans, H.Simonsz

Photoscreening Survey for Amblyogenic Factors in Preschool Saudi Children
Keith Wilken, Abdulaziz Awad, Ali Al-Rajhi, Abdullah Al-Dearbey, Shahira Al-Turkmani, Amna Fallata, Ali Al-Hazmi

Binocular Single Vision in Surgically Treated Primary Constant Exotropia
A.L.Ansons, A.M.Ansons

A High Frequency of Abnormal Orthoptic Findings in Children Adopted from Eastern Europe
Eva Aring, Marita Andersson Gronlund, Ann Hellstrom

The Effect of Refractive Surgery on the Angle of Deviation in the Strabismic Patient
Carolyn Calcutt

Intermittent Exotropia is not Always a Progressive Condition
Michael Clarke, S.Richardson, H.Haggerty, S.Hrisos, N.Strong

The Natural History of X(T) Revisited
Stephanie Dotchin, Kenneth Romanchuk, Jocelyn Zurevinsky

A Systematic Review of Interventions for Infantile Esotropia
Sue Elliott, A.Shafiq

Effect of Refractive Surgery on Binocular Vision and Ocular Alignment in Patients with Manifest or Intermittent Strabismus
Daisy Godts, J.Claeys, M.J.Tassignon

Genetic Influence on Strabismus and Stereopsis in Children: The Twins Eye Study Tasmania
Lisa Kearns, S.Brown, J.MacKinnon, J.Poulsen, C.Hammond, L.Scotter, D.Mackey

New-Onset Childhood Accommodative Esotropia after Monocular Patching
Arif Khan

Replacing the 6 Metre Test Distance with 3 Metre for Prism Cover Test Measurement
Rowena McNamara

Longitudinal Evaluation of Control in Intermittent Exotropia
Brian Mohny, J.Holmes

The Objective Assessment of Ocular Cyclo Torsion Using Digital Fundus Imaging
A.L.Ansons, A.M.Ansons

Making Sense of Strabismus
Arvind Chandna

Ocular Motility Problems following Treatment for Uveal Malignant Melanoma
Emma Dawson, John P.Lee

Aetiology and Prognosis of Sixth Nerve Palsies
Helen Davis, Lindsey Hughes

Diplopia after Cataract Surgery: A Review of 150 Cases

Christopher Lyons, H.Nayak, D.Oystreck, R.Cline
Sudden Onset Vertical Diplopia Due to Silent Sinus Syndrome
Claire MacIntosh, C.Riddell, S.Oakland
Does the Position of the Extraocular Muscle Pulleys Dictate Ocular Alignment?
Wendy Marshman, L.Kowal, S.O'Leary
Marcus Gunn Jaw Winking Ptosis following Acquired Total Right 3rd Nerve Palsy
Ann McIntyre, John P.Lee
Tilt and Ocular Motility Measures following Macular Relocation and Counter-Rotation
Surgery Jignasa Mehta, David Wong, Judith Wylie, Jane Young
A Review of Cases of Duane's Retraction Syndrome Presenting to St John Eye Hospital
J.Musallam, Jane Tapley, M.Ishaq, H.Rishmawi
Comparison of Measurements Obtained From the Lees Screen, Synoptophore and Harms
Wall
Jean Voller, Gemma Bates, Lesley Fowell, Gemma Gardner, Joanne Horridge, Diane Oliver,
Lucille Whalley
The Role of Botulinum in Strabismus
S. Anderson, A. Chandna, S. Chen, J. Young, G. Price
Surgical Management for Large Vertical Deviations in Thyroid Eye Disease
Alec Ansons
Clinical Application of 3D Interactive Software for Planning Strabismus Surgeries
Michael Buchberger, T.Kaltoven, S.Priglinger
Does Botulinum Toxin have a Role in the Treatment of Secondary Strabismus?
Emma Dawson, A.Sainani, J.Lee
Two-Muscle Horizontal Rectus Muscle Surgery with Simultaneous Botulinum Toxin
Injections in the Treatment of Large-Angle Esotropia
Arif Khan
Fibrin Glue for Closing Conjunctival Wounds in Strabismus Surgery
Thomas Krzizok
Peribulbar versus Sub-Tenon Anesthesia in Strabismus Surgery
Lena Lindberg
Evaluation of Patient Information for Adjustable Suture Strabismus Surgery
Bernadette McCarry
Surgical Treatment in Patients with Asthenopia due to Exophoria
Birgitta Neikter, Brigitte Eriksson-Derouet, Gunnar Lennerstrand
Multiple Surgeries for Thyroid Strabismus: The Nature of the Problem
Luis H. Ospina, C.J.Lyons, A.Quan, D.Oystreck, J.Rootman
The Effect of Strabismus Surgery in Relation to the Preoperative Angle of Strabismus
J.R. Polling, S. Schutte, S.P.W. van den Bedem, H.J. Simonsz
Unilateral Four-Muscle Surgery for Exotropia: Further Experience
Edward L. Raab
Use of Botulinum Toxin in Pre-Adolescent Children
Fiona Rowe, Carmel Noonan, Harish Nayak
Botox, Post Operative Diplopia Prediction
Robyn Wallace, B.Haynes
A Review of Two Surgical Procedures for Eso-Hypotropia Associated with High Myopia
Hilary Webb, J.P.Lee
Childhood Blindness: A Global Overview
Marilyn Miller
The Role of the Orthoptist in Eye Health Care Delivery in Developing Countries
Katherine Fray
Childhood Cataracts: Epidemiology and Genetic Considerations
Darren Oystreck
Pediatric Cataracts: State of the Art; State in Developing Countries
Stephen Christiansen
Congenital Glaucoma: Epidemiology and Genetic Aspects in Saudi Arabia and Other Parts of
the World

Marianne Mottier

Childhood Glaucoma: State of the Art; State in Developing Countries

Edward Raab

Retinoblastoma: Epidemiology and Genetic Considerations

Bruce Furr

Retinoblastoma: State of the Art; State in Developing Countries

A. Linn Murphree

ORBIS Cyber Sight Telemedicine

Eugene Helveston

ISA Symposium - Update on Chemical (or Pharmacological) Treatment for Strabismus

New Injectable Agents for Management of Strabismus

Stephen Christiansen

Current Usage of Botulinum Toxin A

John Lee

Chemodenervation, How It Works and How Its Use Has Developed to the Present Day. Value of Other Botulinum Toxins for Strabismus

Alan Scott

Critical Appraisal of the Evidence in Favour (or not...!) of Vision Screening in Children

Prof G Robert LaRoche (Canada) Dr G Gole (Australia), Dr Sean Donohue (USA), Dr

Michael Clark (UK), Dr Harry De Koning (The Netherlands)

2008 Transactions 11th International Orthoptic Congress. Antwerp, Belgium

<https://internationalorthoptics.org/members-area/learning-library/abstract-and-transactions-of-ioa-congresses/>

Special Issue: Proceedings of the XI International Orthoptic Congress in Antwerp, Belgium, May 2008

Published in Strabismus: <https://www.tandfonline-com.liverpool.idm.oclc.org/toc/istr20/17/1>

The Influence of the Vergence System on Strabismus Diagnosis and Management ROPER-HALL G	12
What about the Superior Oblique Muscle? VAN WIJNEN -SEGEREN IJ	23
Vision screening in Pennsylvania Dutch Country, how accurate is the PlusOptix? SILBER T DI, MATTA N S, SINGMAN EL	26
Treatment of functional amblyopia: less and shorter use of occlusion under Gracis Biprism control PAR IS V	30
Factors affecting development of motor skills in EL BW children O'CONNOR AR , BIRCH E , SPENCER	34
Visual functions in children with hydrocephalus STRA MRO D, VAN BUITENEN S, BOCKHOLTS D, WITTEBOL -POST D	39
Plasticity of the visual system in cerebral palsy VAN DERL INDEN D, PORO G, WITTEBOL -POST D, VAN IEUWEN HUIZENO	42
Visual and ocular motor function in school-children with spastic hemiplegia JACOBSON L, KITS A, RYDBERG A	46
Children with multiple visual impairments; the role of the orthoptist VERBUNT-BRATTINGA HJM, L IJNDER S, KUNEN HEJ	50
Predictability of strabismus surgery in children with developmental delays and/or psychomotoric disorders compared to normally developed children LANGEN HORSTAEI, VAN R IJN L J, KRIJNEN JSM, BAKEL SAJ, JANSEN SM	54
A novel experimental method for measuring vergence and accommodation responses to the main near visual cues in typical and atypical groups HOR WOOD A M, RIDDEL PM	58
Visual outcome and binocular vision after "bag-in-the-lens" paediatric cataract surgery GODTS D, DE VEUSTER I, GOBIN L, TASSIGNON MJ	62
Visual perceptual consequences of stroke ROWE FJ	66
Dose-effect in patients with intermittent exotropia: a retrospective study BESSELINK YC, MERCKEL CF, LANTAU VK	70
SEE++ - A Software System for Simulating Strabismus Surgeries and Interactive Eye Motility Diagnosis KALTOFEN T, BUCHBERGER M, PRIGLINGER S	74
Strabismus sursoadductorius congenital and acquired IVth nerve palsy – differential diagnosis and treatment options GRIFFITHS B, VERLOHR D	79
Large recessions for nystagmus LADENVALL G	85
Confirmation of the strabismus susceptibility locus, STBMS1 RICE A, NSENGIMANA J, SIMMONS IG, TOOMES C, HOOLE J, WILLOUGHBY C, CASSIDY F, WILLIAMS G, GEORGE N, SHERIDAN E, YOUNG T, HUNTER T, BARRETT B, ELLIOT D, BISHOP D, INGLEHEARN C	88
An alternative approach to acquired primary esodeviations with fi xation-linked variability of deviation DIELTIENS M, DE CLIPPELEIR L, VAN LAMMEREN M, BAEKELAND L,	90

JANSSENS H, BEELEN L	
Neuromyotonia of the abducens nerve after pituitary fossa irradiation	95
MAINO AP, HEWITT G, MARSH IB	
Cannabis abuse and eye muscle palsies	98
VAN WAVEREN M	
Results in 100 patients with convergence insufficiency in Chili	100
ZUMARAN C	
Outcomes of non-surgical treatment of Intermittent Exotropia	104
POWELL CJ, BUCK D, CUMBERLAND P, DAVIS H, DAWSON E, JUGNOO R, SLOPER J, STRONG NP, TIFFIN P, CLARKE MP	
Vergence adaptation in intermittent distance exotropia	108
ROWE FJ, STEPHENSON G, NOONAN CP	
A comparison of variability in standard and modified SITA visual fields in stable glaucoma patients	112
MURRAY C, KNOX PC, FISHER AC, BATTERBURY M, YOUNG J,	
Measurement of Visual Acuity using the Landolt-C-chart and the Tumbling-E chart in 5-8-Year Old Children: A Comparison Study	116
GUTTER M	
Does ANN have the answer?	120
MITCHELL M, CHANDNA A, CUNNINGHAM I, FISHER T	
Prosthetic rehabilitation in paediatric ophthalmology:the role of the orthoptist	124
DI QUARTO F	
Thalidomide - a Cause of Diplopia?	128
WELLS RE	
Impact of Amblyopia on Eccentric Viewing Training	130
FITZMAURICE K, KOLIC M, VUKICEVIC M	
What determines the choice of a PRL?	134
COECKELBERGH TC	
Orthoptic assessment of the bi(n)ocular situation after macular translocation	138
JANSSENS HMJ, VAN LAMMEREN M, BAEKELAND LMA, BEELEN L, DE CLIPPELEIR L, DIELETIENS M	
Video presentation of a new surgical approach for compensatory extra-ocular muscle surgery after macular translocation	142
DE CLIPPELEIR L, DIELETIENS M	
Non-adjustable strabismus surgery for vertical deviations in thyroid-associated orbitopathy	147
EVENS PA, GODTS DJM	
Complications of botulinum toxin A and their adverse effects	150
ROWE FJ, NOONAN CP	
Field of Single Binocular Vision, using the Matta Map (modification of the Lancaster Test) in Lancaster Pennsylvania USA	155
MATTA NS, SINGMAN EL, CHRISTOFF A, SILBERT DI	
Evaluation of sensory dominance using binocular rivalry as related to ocular deviations	158
ITO M, NIIDA T, HANDA T, ISHIKAWA H, SHOJI N, SHIMIZU K	
Comparison of tonic and phasic measures of motor fusion	162
O'CONNOR AR, STEPHENSON G	
What is the missing link in Horror Fusionis?	166
RIJNEVELD MC, TRIEMSTRA W, DE FABER JTHN	
Suppression Density Assessment as a Predictor of Intractable Diplopia resulting from Treatment for Strabismic Amblyopia	170
PRICE AJ, AULD RJ	
A Prospective Audit of Orthoptic Referrals from Eye Accident and Emergency Service	174
KLEIN G, CLEARY M, WEIR CR	
Adjustable sutures for squint surgery- a patient perspective	178
WHITE JES, KHANDWALA M, KING L, VICKERS S, DOYLE E	
Trifocals with a different prismatic correction in each segment	182

BEELEN L, VAN LAMMEREN M	
Duane Vertical Retraction Syndrome	186
MUSALLAM J, MERIN SC, RISHMAWI H	
Sixth Nerve Paresis Secondary to High Altitude Illness	191
McCARTHY AG, DENSLOW GT	
The role of an orthoptist involved in international clinical research trials in Australia and at Marsden Eye Specialists	194
GIRIBALDI M	
Cerebral visual impairment due to periventricular leucomalacia – a multidisciplinary team approach	199
HREINSDOTTIR J, STRÖMBERG B, PERSSON E, BROSTRÖM A, HOLMSTRÖM G	
A case study of Development Aid by Orthoptist - Health Education Program in School in Belize	202
KANEKO S	
Development of a secondary Orthoptic Outreach service in a politically unstable region	206
WESTMAN SM, TAPLEY JV	
How necessary are Orthoptic Assistants in a developing country?	210
MUSALLAM J, TAPLEY JV	
Vision Screening in Flanders – Belgium	214
LA GRANGE N, VAN LAMMEREN M	
Vision screening in Wallonia – Belgium	218
LA GRANGE N, VAN LAMMEREN M	
Computer stereo program applied in amblyopia treatment	223
BOYCHUK IM, SOLOVIEVA LN	
Decompensation of microstrabismus after occlusion therapy	226
RIJPMA KH, OLIE L, POTT JWR	
Benign Paroxysmal Tonic Upgaze of Childhood. Is it indeed benign?	230
VAN DER DOES P, HOMMERSOM CF, DE GRAAF M, WITTEBOL-POST D	
Congenital Unilateral Cataract: A Successful Visual Outcome	232
CLEEVELY S, WELLS RE	
Focal Dermal Hypoplasia	236
RIJSWIJK MM, KRUIT PJ	
Evaluating clinical competence of orthoptic students	238
TAKASAKI H, NAMBA T, YONEDA T, MAEDA F, OKA M	
How Integrated Training in Orthoptics and Optometry is provided by a unified Eye Care Department in the Netherlands	242
VAN PETEGEM-HELLEMANS JC	
50 years Dutch Orthoptic Association: the changing role of the orthoptist	244
MERCKEL CF, JELLEMA HM	
The European orthoptists, together since 1988	246
LOULY M, VAN LAMMEREN M	
A Comparative Analysis of Ocular Rotation Measures	250
HANIF S, ROWE FJ, O'CONNOR AR	
The Value of Assessing Fields Of Uniocular Fixation in Patients with Orbital Trauma	254
NRIAPIA VC, KNOWLES EJ	
Spontaneous Consecutive Exotropia in Childhood	258
SENIOR JD, CHANDNA A, O'CONNER A	
Unusual Cases of Progressive esotropia caused by High Myopia	263
OHBA M, KAWATA H, OHGURO H, FUKUSHI N	
Infantile Congenital Esotropia - A 16 year study in a small population	268
FRANCALANZA M	
Botulinum toxin A (Botox®) for the treatment of spasm of the near reflex/convergence spasm	272
DE GRAAF M, VAN HOOFT-HOFMANN J, WITTEBOL-POST D	
Near reflex spasm – review of types and aetiology	274

HOOLE JK, TUFF LC	
Convergence excess esotropia, a proposed new classification, the effect of monocular occlusion on the AC/A-ratio	278
GARRETTY T	
Long-term Outcome After Surgical Correction for Superior Oblique Palsy	282
FURR BA, DEL MONTE MA	
Results of bilateral inferior rectus recession in patients with Graves' orbitopathy; a retrospective study	286
JELLEMA HM, EVERHARD-HALM YS	
Occurrence and treatment of post-operative limitation of the inferior rectus muscle	291
STRAVERS SN, DE GRAAF MEL, WITTEBOL-POST D	
Mid-operative force duction test as a guide to titrate the surgery for consecutive exotropia	294
VISHWA NATH MR, ANSONS A	
The Use of Botulinum Toxin in Third Nerve Palsy	299
MARSH IB	
The Role of Botulinum Toxin in Paediatric Strabismus: a prospective study	302
ANDERSON S, CHANDNA A, CHEN S	

2012 Transactions 12th International Orthoptic Congress. Toronto, Canada

<https://internationalorthoptics.org/members-area/learning-library/abstract-and-transactions-of-iaa-congresses/>

Published in Strabismus: <https://www-tandfonline-com.liverpool.idm.oclc.org/toc/istr20/21/2?nav=tocList>

BURIAN LECTURE 16

KEYNOTE LECTURES

A Story of Change and Discovery: How and What We Learned From Studying Nystagmus In Infancy and Childhood 24

Hertle, R.

Planning Short Term Ocular Alignment To Achieve Long Term Success 25

Isenberg, S.

Oral presentations

Unilateral amblyopia: Optical coherence tomography findings 26

Alotaibi, A., Badriah, A.

Incidence of Strabismus and Amblyopia in Preverbal Children Previously Diagnosed with Pseudoesotropia 27

Silbert, D.

Radial Deformation Acuity and Amblyopia 28

Betts, M., Artes, P., McMain, K.

Unusual Presentation of Proptosis with Decreased Vision and Esotropia 29

Pritchard, C., Ellis, G., S.

Near Versus Distance Visual Acuity in Amblyopic Eyes 30

Christoff, A., Repka, M., Brett, K., Holmes, J.

Supervised Occlusion Therapy 31

MacKenzie, K.A., Adams, G.G.W.

Peer Attitudes Towards Children With Amblyopia 32

Moorehead, R., Geogievski, Z., Kolanis, K.

Development of a paediatric disease-specific health-related quality of life measure for amblyopia: the Children's Amblyopia Treatment Quality of Life Questionnaire (CAT-QoL)1 33

Carlton, J.

Modified Frisby Davis Stereotest (FD2) Showing Spatial Frequency (SF) Filtered Targets 34

Frisby, J., Dasani, Z., Davis, H.

Comparison of the Innova distance stereoacuity test to the Frisby Davis Distance Stereotest 35

Matta, N., Silbert, D.

Assessing Control of a Deviation 36

Davis, H., Hoole, J.

Binocular vision outcomes following surgery for longstanding large angle exotropia 37

Gill, L., Arnoldi, K.

Effect on Stereoacuity of Extraction of bilateral age-related cataract with Posterior Chamber Intraocular lens implantation. 43

Manoranjana, A., Shrestha, S., Shrestha, S.

Completing a simulated surgical task in different viewing conditions: Does stereopsis matter? 52

Uddin, N., Bloch, E., Gannon, L., Jain, S.

Investigation of Early Onset Horizontal Nystagmus (EOHN): The Role of Visual Electrophysiology Testing 53

Westall, C., Panton, C., Cotesta, M., Sutherland, J.E.

A Strategy for Elucidating the Cause of Early Onset Horizontal Nystagmus (EOHN): The Role of Genetic Testing	54
Sutherland, J., Day, M. A., Panton, C. M., Westall, C. A., Heon, E.	
Genetic epidemiology of myopia in a birth cohort study: The Generation R Study	55
Polling, J. R., Gaillard, R., Hofman, A., Jaddoe, V.W., Vingerling, J.R., Klaver, C.C.	
Role of lifestyle and education in myopia	56
Rose, K., Konstandina, K.	
Cycloplegic efficacy of cyclopentolate and atropine in pediatric refractions	57
Sachdeva, Manohar, M.	
Effect Of Extent Of Hypermetropic Correction (Full, Under and Over) on Refractive Eso	58
Yadav, K. K., Suchita, S.	
Single Vision Lenses: A Comparison of Management of High AC/A Esotropia and Refractive Esotropia	63
Gerling, A., Arnoldi, K.	
Ocular neuromyotonia: Differential diagnosis and treatment	69
Roper-Hall, G., Chung, S.H., Oscar, A.C.	
Use of the —upright-supine test to differentiate skew deviation from other causes of vertical strabismus	73
Colpa, L., Wong, A. F., Chandrakumar, M.	
Inflammatory Acquired Brown Syndrome	79
Dawson, E., Bunting, H., Adams, G., Lee, J.	
Myasthenia Gravis masquerading as ocular injury – or vice versa?	80
Eckersley, D., North, L., Govan, J.	
Ocular Myasthenia Gravis - The Great Mimicker?	81
Hira, P., Kelly, J.	
A Fresh Look at the Cogan Lid Twitch	91
Matta, N., Silbert, D., Singman, E.	
Saccadic Training Improves Orientation in Hemianopia	92
Verlohr, D., Reckert, I., Roth, T., Sokolov, A. N., Messias, A., Roth, P., Weller, M., Trauzettel-Klosinski, S.	
Symptoms of stroke-related visual impairment	93
Rowe, F., VIS group UK	
Gaining the best information about vision to assist the recovery of a patient with stroke	100
Jolly, N., Macfarlane, A., Heard, R.	
Flip Chart Visual Acuity Screening Compared to the plusoptiX S09 Photoscreener Performed by a Lay Screener	106
Matta, N.	
Which amblyopes do we miss and detect with non-cycloplegic refraction screening?	107
Ehrt, O., Joost, A., Kirchoff, S., Martorana, J., Strauss, R.	
A clinical look at the AAPOS pediatric vision screening referral criteria to predict amblyopia	108
Silbert, D.	
To establish whether orthoptic led school nurse vision screening is as effective in detecting visual defects as orthoptic primary screening	109
Rice, P., Shah, S.	
Vision Screening and Primary Eyes Health Care Program in elementary Schools	110
Kongsangchai, S., Toadee, N., Choperm, S.	
Understanding vision impairment in Australian children	111
Silviera, S	
Redesign of the Kay Pictures Visual Acuity Test for Children	112
O'Connor, A., Kay, H., Thomson, D., Newsham, D., Birch, E.	
Ophthalmic Outcomes for Children with Unilateral Coronal Synostosis: A Comparison of Two Distinctive Craniofacial Repairs	113
Whitecross, S., MacKinnon, S., Gregas, M., Dagi, L.	
The Ophthalmic Consequences of Coronal Synostotic Plagiocephaly	114
Guinard, A., Hanna, N., Bortoluzzi, P., Ospina, L.	

How quickly does muscle sequelae develop?	115
White, J.	
Prevalence of Duane Retraction Syndrome (DRS) of indigenous strabismic patients presenting in Mayo Hospital Lahore, Pakistan	116
Sarfraz, A., Hamza, A.	
Orbitofacial Neurofibromatosis Type 1: Expected and unexpected effects on sensory and motor systems	121
Oystreck, D., Chaurdy, I., Bosley, T.	
Rectus Muscle Flap Tear: When to Suspect, How to Treat	122
Raab, E., Ackert, J., Ostrovsky, A.	
Prevalence and Degree of Lateral Incomitance in Exodeviations	123
Wahl, B.	
Ocular Manifestations of Autism in Ophthalmology	124
Black, K.	
The changing use of visual cues in typical infant development	131
Horwood, A., Riddell, P.M.	
Survey of British and Irish orthoptists in the measurement of the AC/A ratio	132
Murray, C., Nesham, D	
Rapid Prism Adaptation Test in Intermittent Exotropia	133
Struck, M.	
Aspects of Suppression in Strabismus	134
Piano, M., Newsham, D.	
Effect of Amblyopia Treatment On Suppression Study (EATOSS)	135
Newsham, D., O'Connor, A.	
Bagolini glasses: do they affect the prism fusion amplitude?	136
Burggraf, F., Schultinaga, L., Polling, J. R., Gutter, M.	
Povidone-iodine (PI) Antisepsis for Strabismus Surgery Study	142
Simonsz, H. J., Swart-van den Berg, M., Tjon Fo Sang, M.J. H., van Rijn, L. J., Prick, L.J.J.M., ten Tusscher, M.P.M., Mino de Kaspar, H.	
Using adjustable sutures in adult strabismus surgery to achieve target angles	143
Schofield, J.,	
The effect of horizontal rectus muscle surgery on distance-near incomitance	144
Fray, K., Greogorian, A.P., Deacon, B., Lowery, R.S., Brown, S., Slape, L., Phillips, P.	
Surgical Management of Unilateral Superior Oblique Palsy	145
Wang, Q., Blais, C., Flanders, M.	
Measuring success in paediatric strabismus surgery by increased incidence of binocular vision in one surgical procedure	146
McNamara, R.	
Idiopathic early onset nystagmus surgery: noteworthy aspects	147
Van Lammerenm,M., De Clippeleir, L., Dieltiens, M., Janssens, H., Baekeland, L., Beelen, L., Goovaerts, L.	
Poster presentations	
Testing accommodation-binocularly and monocular – The importance of the orthoptist	148
Bentley Wennhall, E., Jansson, L.	
Parkinson disease and convergence insufficiency	149
Chidiac, M., Millaire, F.M.	
V-Pattern Esotropia Masquerading as High AC/A Ratio Esotropia	150
Christoff, A	
Spielman occluder and digital photography in examination of intermittent exotropia	151
Collett, H., Madhav, V., Vempali, R.	
Persistent binocular diplopia in childhood following successful treatment for accommodative esotropia	152
Devould, C., Skilbeck, L., Kerr, N.C., Hoehn, M.E.	
Comitant Esotropia in Myopia: A Possible Pathogenesis	153
Fresina, M., Mottes, M., Campos, E.C.	

Using Motion Perception in the Treatment of Amblyopia	154
Giaschi, D., Narasimhan, S.	
Association between fixation preference and strabismic amblyopia	155
Nisar, A., Sarfraz, A., Hamza, A.	
Visual functions in school-age children with a history of prematurity	156
Hong, B., Robitaille, J.M., Vincer, M., Walsh, L., Artes, P.H.	
The Clinical Near Gradient Stimulus AC/A ratio correlates better with the response	157
CA/C ratio than with the response AC/A ratio	
Horwood, A.M., Riddell, P.M.	
Near cue use profiles in esotropia	164
Horwood, A., Riddell, P.	
Retrospective review of occlusion treatment for intermittent exotropia	165
Hughes, L., Arblaster, E.	
Analysis of Binocular Vision Quality in Patients With Aphakic Intraocular Lens	166
Ismagilova, S., Somma, K., Levin, M., Molder, H.	
Unusual presentation of proptosis with decreased vision and esotropia	167
Jenkins, P.	
Quality of Life in Stimulus Deprivation Amblyopia	168
Rose, M., Georgievski, Z., Koklanis, K (Connie)	
The assessment of visual functions in individuals with severe motor and intellectual	169
disabilities and the rold of orthoptists in their intervention	
Komachi, Y., Niida, T., Suzuki, K., Yamada, T., Shinomiya, Y., Onda, D.H.S.,	
Shimoizumi, H.	
Effect of dual-task on postural control in dyslexic children	170
Legrand, A., Bui-Quoc, E., Dore-Mazars, K., Lemoine, C., Gerard, C., Bucci, M.P.	
Visual Outcome of Children With Anisometropia Referred From a School Screening	171
Programme: Does Anisometropic Amblyopia Exist in Isolation?	
Lysons, D., Tapley, J.	
Psychological Status of Adults with Strabismus Seeking Surgery	172
MacKenzie, K., Au, C., James, H., Hancox, J., Ezra, D., Adams, G.G.W., Newman, S.	
Accuracy of self-reported strabismus	173
MacKinnon, S.	
Do preverbal children who present with NLDO and are found to have amblyopia risk	174
factors go on to develop clinical Ambloypia?	
Matta, N.	
Value of contrast sensitivity and near vision in evaluating radiographic images	175
Mehta, J., Newsham, D.	176
Is Higher Hyperopia More Commonly Found in the Duane's Eye?	176
Merrill, K.S., Hogue, K.M.	
Extreme Hypermetropic Anisometropia Approach and Results	177
Modlingerova, E., Konvickova, M.	
Divergent Fusional Amplitudes and Acute Comitant Esotropia: A Risk Factor?	178
Mottes, M., Fresina, M., Campos, E.C.	
Convergence Insufficiency: a population-based study of Hutterite colonies	179
Mottier, M	
Interocular effect during visual acuity measurement with and without amblyopia	180
Parkinson, J., Sandusky, H., Tremblay, F.	
A prospective study to determine current practice in relation to occlusion dose and level	189
of amblyopia at the Manchester Royal Eye Hospital	
Parmar, K., Semeraz, R.	
Use of Atropine Penalisation to Treat Amblyopia in Clinical Practice	190
Piano, M., Newsham, D.	
Hypoaccommodative Eye-Movements	191
Resch, R	
Comparison of the binocular stereoacuity mesured by the TNO stereotest vs the Frisby	192
Stereotest Near FSN in healthy adult subjects	

Rousseau, B., Crepy, P., Tesson, J., Veyssiere, L., Angot, M. Is it reasonable to treat a strabismus with Amblyopia?	193
Sebag, V., Kostas, A., Goberville, M. Is 30 minutes of occlusion beneficial in amblyopia treatment?	194
Semeraz, R., Parmar, K. Saccadic reaction times in alternating cover	202
Shinomiya, Y., Yamada, T., Suzuki, K., Komachi, Y., Niida, T. Deficits in Eye-Hand Co-ordination in Children With Strabismus and Amblyopia Change with Age	206
Sloper, J., Suttle, C., Conway, M., Melmoth, D., Grant, S. Quality of Referrals in a Pediatric Ophthalmology Practice	207
Makar, I., Kerrin, M., Smith, K. When Visual Performance is Worse Using Two Eyes Together: Characterization of binocular Inhibition	214
Smith, K., Parkinson, J., Tremblay, F. Population-based screening for amblyogenic factors in young children using an automated infrared refractometer	215
Van Kersohaver, E. Incomitant strabismus	216
Wise, S. Comparative study of vision improvement by various amblyopia therapies	217
Yadav, K.K., Suchita, S. Long term visual outcomes in laser treated threshold retinopathy of prematurity	218
Alotaibi, A., Aldrees, S. A booklet for getting used to glasses for mentally restricted people	219
Asjes - Tydeman, W., Marskamp – Van Aperlo, M., Appeldoorn – Witte, M., Vingerling, J. EHR Implementation in an Academic Pediatric Ophthalmology Practice	220
Beaudet, K., Read-Brown, S., Tu, D., Yackel, T., Chiang, M.F. Learning Effect of Flicker Defined Form Perimetry in ocular hypertensive patients	221
Berardo, F., Francesco, O., Tanga, L., Ferrazza, M., Centofanti, M. Preliminary Study on the Eventual Correlation Between Defects and Cervical Symptoms in VDT Workers	222
Bettega, S., Tosatto, E., Mosca, M., Meroni, M., Petri, A., Costa, G. The paediatric vision screening program performed in Bolzano in 2010: significance of the orthoptic re-examination	229
Bottin, D., Waldhauser, K., Bertelli, E. Assessment of the visual acuity in patients with dementia using Teller Acuity Cards	236
Froiman, P.C., Dantas, P.E.C. A new method for testing letter contrast sensitivity in a clinical setting: Comparing M&S smart system II letter contrast test with Pelli-Robson chart	243
Colpa, L., Chandrakumar, M., Reginald, Y.A., Cotesta, M., Panton, C., Westall, C., Wong, A. Clinical and Electrophysiological Findings in Stargardt Macular Dystrophy (STGD)	244
Cotesta, M., Panton, V.A., Westall, T.P. Longitudinal refractive changes in albinism	245
De Melo, A. Central and Peripheral Visual Fields in Patients with Migraine	246
Eshtayah, H., Artes, P.H., Purdy, A., Maxner, C.E. Repeatability of Flicker Defined Form Perimetry in ocular hypertensive patients	247
Ferrazza, M., Francesco, O., Lucia, T., Francesca, B., Marco, C. Strabismus Findings in Rubinstein-Taybi Syndrome	248
Hahn-Parrott, L., West, C.E., Burke, M.J. Comparison of manifest angle of deviation of Krimsky test using accommodative target and alternate prism cover test	249
Rasool, M., Sarfraz, A., Ali, H.	

Five-year follow-up of ocular deviation in bilaterally pseudophakic patients Hoshikawa, R, Ito, M., Shimizu, K., Ishikawa, H., Amano, R.	250
Development of M2 melanopsin ganglion cells in the mouse retina Retinal ganglion cells (RGCs) undergo continued maturation after birth Husain, S., de Sevilla Muller, L.P., Baldrige, W.H.	260
Binocular interaction for effective lens exchange: an electrophysiological study Ito, M., Niida, T., Shimizu, K., Ishikawa, H.	261
Anisometropia with myopia: The big eye problem Jenkinson, E., MacKenzie, K., Adams, G.G.W.	262
The investigation of meridional accommodative disorders in children with with-the-rule astigmatism and their treatment Kuzhda, I., Serdyuchenko, V., Pityk, O., Kaminskiy, Y.	263
The Ocular Component Values Associated with the Degree of Anisometropia Lee, Y., Kim, S., Cho, S.Y., Yang, J.W., Kim, C.S.	264
Comparing the SureSight autorefractor and the plusoptiX photoscreener for pediatric vision screening Matta, N	265
Determining the accommodative effects of Atropine on the visual system Matta, N	266
Comparison of SureSight autorefractor and plusoptiX photoscreener for vision screening in rural Honduras Matta, N	267
Evaluation of plusoptiX photoscreening on autistic children Singman, E.L., Matta, N., Farward, A., Silbert, D.I.	268
Can a photoscreener help us remotely evaluate and manage amblyopia? Matta, N., Silbert, D.I.	272
The percentage of patients with highly myopic strabismus among Japanese outpatients with high myopia Nakao, Y., Kimura, T.	273
Investigating how the iSight app visual acuity measures compare with the current clinical tests used to measure acuity in adults and children Northway, N., Panesar, G., McCulloch, D.	274
Ocular Motor Score in children: A possible tool for identification and follow- up of neuropaediatric disorders? Olsson, M., Fahnehjelm, K.T., Rydberg, A., Ygge, J.	275
A retrospective analysis of sight impaired/severely sight impaired registrations for children across West Berkshire over the past ten years Orme, S., Sandford, V	276
Eccentric Fixation in Congenital Sixth Nerve Palsy Schwiebert, K., Singh, V., Moore, W., Nischal, K.K.	277
Comparing the Patti Pics to the Lea Symbols Silbert, D	278
Comparing the plusoptiX S04 to the plusoptiX S09 Singman, E.L., Matta, N.S., Tian, J., Brubaker, A., Silbert, D	279
A comparison of referral criteria used by the plusoptiX photoscreener Matta, N.S., Silbert, D.I., Singman, E.L., Tian, J.	283
Association between Accommodative Insufficiency and Amblyopia Signman, E.L., Matta, N.S., Tian, J., Silbert, D	291
Utilizing automated objective accommodative measurements as a new method of pediatric vision screening Silbert, D, Matta, N.	296
Comparison of visual acuity and contrast sensitivity in normal young subjects Suzuki, K	297
Evaluation of a computerised visual acuity and stereo-acuity test (VacMan) compared with gold standard Orthoptic examination Tailor, V., Greenwood, J.	298

A Review of the Clinical Management of Patients from East Jerusalem, the West Bank and Gaza who Presented to the Orthoptic Department of St John Eye Hospital, Jerusalem with Third (III), Fourth(IV) and Sixth(VI) Cranial Nerve Palsies	299
Tapley, J., Musallam, J., Sayej, R., Jawwad, Y.A.	
Telemedicine Screening for Retinopathy of Prematurity: novel use of a live connection	300
Tehrani, N	
Electronegative ERG in Mucopolysaccharidosis Type 1	301
Vincent, A., Panton, C.M., Ali, A.	
Study of Refractive Status in Strabismus	302
Yadav, K., Suchita, S.	
Penetrating orbital trauma presenting with horizontal diplopia – differential diagnosis and treatment	303
Denslow, G., Alexander, M.L., McCarthy, A.	
What about the presentation and the outcome of horizontal misalignment in superior oblique palsy?	307
Baelemans, K., Demet, Y.	
Outcomes including binocularity following surgical correction of the non-accommodative component in accommodative esotropia	308
Barto, H., Myung, G., Mets, M.B.	
Superior rectus limiting downgaze?	309
Beaudet, K., Stout, A.	
Treatment of Exophoria- Have base in prisms taken the place of orthoptic treatment?	310
Bentley Wennhall, E., Jansson, L.	
Bilateral Ophthalmoplegia in Children Bilateral ophthalmoplegia is rare in children	311
Biernacki, R., Donahue, S.P.	
Esotropia caused by improvised explosive device	315
Brouwer, M., de Jongh, E., de Faber, J.T.H.N., Tjon-Fo-Sang, M.	
A case of a child whose behaviour and wellbeing was affected with the onset of acute acquired comitant esotropia (AACE)	316
Collett, H., Madhav, V., Vempali, R.	
A diagrammatic representation to help the examiner of ocular motility to recall the actions of extra ocular muscles in different positions of gaze	317
Collett, H., McKinley, P.	
A case series of Surgery for Superior Oblique Palsy Superior Oblique	318
Coyle, G.	
Use of corticosteroid nasal spray with Ocular Myasthenia Gravis; a case report	319
Van der Does, P., Van der Valk, R.	
An Evaluation of vision rehabilitation training with vision impaired children	320
Fitzmaurice, K., Fadzil, N.B.M., Malesic, L.	
Fresnel Prism Use Among Orthoptists Aim: Understand current uses of Fresnel Prisms	321
Haller, T., Furr, B.A.	
Isolated Superior Rectus Infarction	322
Harn, M., Struck, M.C.	
Diplopia with Anomalous Retinal Correspondence Following Amblyopia Treatment in a Child	323
Harn, M., Bradfield, Y.	
Is acute acquired comitant esotropia a possible sign of serious neurological disease?	324
Holst, I., Hesgaard, H.B., Vinding, T.	
Fresnel membrane prisms in the treatment of diplopia caused by ophthalmoplegia	325
Ito, F., Sugawara, J., Nakamura, K., Hamamura, M., Inaizumi, R., Shimizu, M., Tsutsui, A., Minami, T., Mano, S., Tonari, M., Ikeda, T.	
The Evolving Orthoptic Role in Australia 1944-2010	326
Jolly, N., French, A.	
Computer-Based Simulation of the Prism Cover Test	327
Kaltofen, T., Santana Sosa, G., Priglinger, S.	
Medial Rectus Avulsion: A Rare Complication of Endonasal Sinus	335

Klein, G., Lok, A.S.L., Kemp, E.G. The Use Of Botulinum Toxin In Secondary Squints Following Glaucoma Drainage Surgery	336
Lafferty, C., Abbott, J., Adams, G.G.W. Acquired Incomitant Vertical Strabismus as a Presenting Sign of Ocular Myasthenia	337
Lambert, J., Christiansen, S.P. Antipodean Strabismus	342
McKeever, M Supporting an emerging workforce: global characteristics of orthoptic education	343
McMain, K Monocular Esotropia: A Case Report of Antipodean Strabismus	344
Miller, A., Jackson, J.L. Ocular fundus histological changes caused by ocular larva migrans and syndrome of ocular histoplasmosis: a case study	345
Pocas, I.M., Antunes, J., Ferreira, H. Rheumatic and autoimmune diseases – ophthalmic interactions	351
Pocas, I.M., Ferreira, J. Acquired non-paralytic causes of superior oblique dysfunction	354
Roper-Hall, G., Cruz, O.A., Chung, S.M. Simulated learning environments (SLE): orthoptic clinical education in Australia	355
Rose, K, Koklanis, K. Gaze dysfunction followign stroke	356
Rowe, F Determining the effect of 3 months VT/o on visual acuity(VA), stereopsis and ocular alignment in 3-7 years old children	357
Sharifzadeh, L., Daneshvar, F. Can you predict the outcome of Strabismus surgery?	358
Sharma, A., Benjamin, L. Concept for the Integration of the SEE++ Software System in the Education of Orthoptists in Austria	359
Santana-Sosa, G., Kaltofen, T., Priglinger, S., Resch, R.E., Scharinger, C. Anisocoria caused by the varicella zoster virus van	367
Gemert, S Adult eso-/exotropia with increasing complaints	368
Van Lammeren, M., de Clippeleir, L., Dieltiens, M., Janssens, H., Baekeland, L., Beelen, L., Goovaerts, L. Upgaze gone astray	369
Spieth, B., Van Waveren, M. An Unusual Cause of Ptosis and Amblyopia	370
Voller, J Incomitant Exotropia and Restricted Elevation with Synergistic Divergence: A Clinical Case Report	371
Whitecross, S, Ledoux, D. Bilateral Abducent Nerve Palsy in Cerebral Malaria	372
Yadav, K.K., Suchita, S.	

2016 Transactions 13th International Orthoptic Congress. Rotterdam, The Netherlands

<https://internationalorthoptics.org/members-area/learning-library/abstract-and-transactions-of-ioa-congresses/>

Special issue - Published in Strabismus: <https://www-tandfonline-com.liverpool.idm.oclc.org/toc/istr20/25/3>

Education forum I

An exploratory study of orthoptic student satisfaction in a blended learning environment
Lanca C.

The use of blended learning to increase orthoptic student's acceptance and success in evidence-based practice learning

French A, Rose K.

Development and implementation of 3D eye movement animations

O'Connor A.

Learning from one another- a review of peer assisted learning in Orthoptic education

Nadia Northway

Clinical reasoning at the orthoptics department of HU University of applied sciences

Marijke Luijten

Can Google sites enhance learning experience?

Anne Bjerre

Binocular vision / Fusion

The Corpus Callosum in Human Binocular Vision

Anne Cees Houtman

Fusional Vergence Measurements for Eso vs Exo deviations:

Is there a Difference?

Carla Lança

How Progressive or Stable is Age-Related Distance Esotropia?

Does Fusional Divergence Amplitude Decrease Over Time?

Daisy Godts

Fixation Disparity by Ogle's Apparatus: Different Methods, Different Results

Marieke Telleman

Fusional Amplitudes: Developing Testing Standards

Katherine Fray

Incidence and Management of Intractable Diplopia

David Newsham

Cyclotropia Associated with Macular Disease

Jonathan M. Holmes

Correlation between Symptomatic Heterophoria and Asthenopic Syndrome

Federica Ristoldo

Binocular Function in Multiplayer Online Battle Arena Players vs. Non-Video Game Players

Marianne E.F. Piano

Burian Lecture

Folklore or evidence?

Horwood A.

Binocular vision / Stereopsis

Factors influencing Regaining of Stereopsis after Strabismus Surgery for Acute Acquired Comitant Esotropia

Helena Hesgaard

Bifocals Fail to Improve Stereopsis Outcomes in High AC/A Accommodative

Esotropia

Katelyn MacNeill

Stereodeficient Patients have Normal Non-disparity Based 3-D Depth Perception

Linda Colpa

ASTEROID: Development of Fun and Accurate Stereotest on a 3-D Tablet

Kathleen Vancleef

Are Stereoscopic Anaglyphic Red-Green Tests Sensitive to Dissociation?

Benoît Rousseau

The Visual Function of Young Soccer Players

Silvia Gamboa

Comparative Study of Stereopsis with 3 Different Tests: TNO®, Stereo Acuity Test Fly® and StereoTAB® in Students in Higher School

Ilda Maria Poças

Stereopsis and Professional Football Players

Anna Barducco

Myopia and its complications

Prediction of Axial Elongation and Early Onset Myopia

Willem Tideman

Controversies in Myopia: Association with Low Socio-Economic Status in Urban Children of the Netherlands

Caroline Klaver

Public Health Initiatives for the Control of the Myopia Epidemic

Kathryn Rose

Effectiveness Study of Atropine for Progressive Myopia in Europeans; Two Year Follow-up

Jan Roelof Polling

A Systematic Review on Myopia Progression; Can we really Prevent or Reduce the Progression of Myopia in the Long Term?

Madina Kaamil-Sayed

Strabismus Surgery in High Myopia

Stéphanie van de Ven

Myopexy for Acquired Distance Esotropia

Yair Morad

Unilateral High Myopia

Yvette Braaksma-Besselink

Post Operative Hypertopia after Esotropia Surgery in High Myopia

Vanessa Sebag

CVI and low vision

Longitudinal Changes in Visual Processing Performance Depend on Visual Pathology in Children

Marlou Kooiker

Cerebral Visual Impairment: Considerations in Practice

Hélène Verbunt-Brattinga

A Proposed Model for Determining the Severity of Vision Impairment

Sue Silveira

VerSE: Vertical Reading Strategy Efficacy for Homonymous Hemianopia after Stroke: A Feasibility Study

Lauren Hepworth

Clinical vs Evidence-Based Rehabilitation Options for Post-stroke Visual Impairment

Kerry Hanna

Posterior Cortical Atrophy

Ms Greetje Koevoets

CVIT 3-6, a Screening Test for Cerebral Visual Impairment in Young Children
Kathleen Vancleef
A 10 Year Review of Patient Outcomes from a Neurorehabilitation
Orthoptic Assessment Service
Jennifer Earl

Neuro-Ophthalmology

Neurological imaging in acquired cranial nerve palsy: Ophthalmologists
vs. Neurologists
Tessa Klein Hesselink
The role of MRI in infants with strabismus and central nervous system disorders
Sjoukje Loudon
Ocular motility dysfunction in patients with meningiomas
Gill Roper-Hall
Management and long-term follow-up of divergence paralysis in spino
cerebellar ataxia type 3
Jan Willem Pott
Oculomotor findings in bilateral thalamic strokes
Amandine Guinard
Visual field outcomes in children with Neurofibromatosis type 1 associated
optic pathway gliomas
Sarah Whitecross
Ocular motor function in children with unilateral spastic hemiplegia evaluated
by the ocular motor score
Agneta Rydberg
Oscillopsia due to malabsorption secondary to Wernicke encephalopathy
Angela Dillon

Genetics, Syndromes

A prospective observational study of ocular comorbidities in children with NAS:
Study design and one-year outcomes
Jennifer Lambert
14 year follow-up study of orthoptic findings in Fetal Alcohol Spectrum
Disorders (FASD)
Eva Aring
Visual field deficits in albinism
Viral Sheth
Phenotype modification after genetic analysis – another look at Moebius
syndrome
Darren Oystreck
Strabismus and binocular functions in children with Autistic Spectrum Disorder
Pamela Anketell
Strabismus, Prevalence and Influences in a UK Multi-ethnic Birth Cohort
Alison Bruce
Orbital xanthogranulomatous disease and eye motility disorders
Eline De Jongh
An eye diagnostic code for evaluation of ophthalmological abnormalities in
fetal alcohol syndrome disorders (FASD)
Eva Aring

Technology in eye disease

Binocular eye movement perimetry in children with visual problems
Johan J.M. Pel
Use of the Saccadometer to detect saccadic peak velocity in Myasthenia
Gravis and visually normal subjects
Craig Murray

Clinical and electro-retinogram assessment of an orthoptic and optometry led hearing loss clinic

Vijay Tailor

Exploring retinal development of strabismic infants using handheld optical coherence tomography

Gail Maconachie

Functional visual loss, diagnostics and treatment

C.M. (Lia) Brouwer-van der Gun

Feasibility of the saccadometer to detect saccadic performance across different age groups in a normal population

Jignasa Mehta

Perimetry in pediatric age: reliability and limits

Gloria Badin

Expanding orthoptic practice

The psychosocial impact of repeated intravitreal injections on patients with neovascular age-related macular degeneration

Jessica Boyle

Should orthoptic input be compulsory for all patients undergoing refractive surgery?

Tanzeela Rabbani

International orthoptic practice in care provision for post stroke visual impairment int-survey

Fiona Rowe

Gaze behaviour among orthoptists during optic disc examination

Jane Scheetz

The first UK orthoptist-delivered intravitreal anti-VEGF injections

Lorraine North

Children's participation at Bartiméus

Florine Pilon

Building capacity of child eye health services in Botswana

Claire Studley Scott

Listing for strabismus surgery by an orthoptist

Janice Hoole

Toward child-centered eye care

Heleen Veen-Hellendoorn

Screening, vision, refractive error

Disinvestment of population-wide eye screening at age 6-24 months in the Netherlands

Frea Sloot

The comparability of computerised and non computerised visual acuity tests.

Marianne Burgess

Validation of the new kay pictures visual acuity test

Anna O'Connor

Children's accommodation to a variety of targets

Siobhan Ludden

Accommodation to stereograms

Helen Davis

High-order aberrations in children

Aya Saito

Adverse reactions following routine anticholinergic eye drops in a paediatric population: an observational cohort study

Helena Maria van Minderhout

Are lea numbers and symbols comparable to the ETDRS using a computerised chart?

Anne Bjerre

Amblyopia

Is Microtropia a reliable predictor of the presence of Amblyopia in Anisometropic patients?

Deborah Lysons

Is the 15Δ base in prism test reliable for detection of amblyopia in anisometropic patients?

Fenna Burggraaf

Psychosocial impact of amblyopia therapy

Samantha McAuley

Effect of compliance to glasses wear and occlusion therapy on the outcome of visual acuity

Gail Maconachie

Trends in the incidence and causes of visual impairment and strabismus of teenagers in Israel

Eedy Mezer

Amblyopia therapy improves more than just visual acuity

Miriam Langeslag-Smith

Relative afferent pupillary defect: Pathology or amblyopia?

Gerdien Holtslag

VisioPercept - quantification of visual competency

Dagmar Verlohr

WSPOS symposium

Strabismus

Risk factors for Esotropia and Exotropia

Felicia Adinanto

Large-Angle congenital exotropia secondary to absent bilateral medial rectus muscles

Kathleen Curtin

Exaggerated V-pattern strabismus and displacement of the superior and lateral rectus muscles near their origins: Impact of altered bony morphology of the posterior orbit in syndromic craniosynostosis

Sarah MacKinnon

Differences in adult patients with strabismus sursoadductorius with and without hypoplasia of the superior oblique muscle (SOM)

Gabriele Gusek-Schneider

The role of the Hess/Lees Screen test in the clinical analysis of secondary changes of ocular motility in long-standing IVth Nerve palsy, and the implications for the surgical plan

Hilde Janssens

Evaluating a new test method for measuring cyclotorsion in a patient population:

A comparative study

Sara Flodin

An atypical unilateral vertical gaze restriction

Roisin Buckels

A case of bilateral sequential Brown's syndrome

Victoria Wilson

Strabismus management

Graded inferior oblique muscle surgery in unilateral fourth nerve palsy

Anne-Marie Langenhorst

The place of vertical rectus surgery in the surgical approach to N IV palsy

Maria Van Lammeren

Comparison of medial rectus Y-splitting and faden-operation for the treatment of convergence excess or cross-fixation in cases of infantile esotropia

Oliver Ehrt

Tendon elongation with bovine pericardium in strabismus surgery

Laurentius van Rijn

The “unhappy” post-surgery strabismus patient

Kelly MacKenzie

A review of Cochrane systematic reviews of interventions relevant to orthoptic practice

Fiona Rowe

The application of vergence training in the management of Intermittent

Exotropia

Wai Ling Chiu

The effect of prism and foil therapy on the quality of life in adult patients with diplopia

Clare Field

The development of mobile application MyEyeGym as an orthoptic stereogram exercise

Yi Ling Tan

2022 Transactions 14th International Orthoptic Congress. Liverpool, UK

<https://internationalorthoptics.org/members-area/learning-library/abstract-and-transactions-of-iaa-congresses/>

Congress proceedings – Published in Strabismus; <https://www-tandfonline-com.liverpool.idm.oclc.org/toc/istr20/29/2?nav=tocList>

Amblyopia, Screening Part 1

Accuracy of Vision Screening Protocols for Young Children

Mythili Ilango

Evaluation of changes in visual function by parents at home

Dr Anna O'Connor

Next Generation Home Vision Assessment: a paediatric study

Rachel Wells

Dose-response relationship and treatment efficiency for gaming vs occlusion therapy for amblyopia

Aveen Kadhum

Significant refractive error increases prevalent and incident childhood strabismus

Dr Felicia Adinanto

Neuro-Ophthalmology

Profile and recovery of cranial nerve palsies due to stroke

Professor Fiona Rowe

Non-invasive treatments for ocular cranial nerve palsy and neurological gaze disorders: A systematic review

Sean Gallagher

An orthoptist-led Neurofibromatosis type 1 clinic: a cost-effective model of care

Navdeep Kaur

Using eye-tracking technology as an objective measure of cognition in mild traumatic brain injury: A scoping review

Hilary Pearson

Management of diplopia in adults with abnormal posture from neurodegenerative or skeletal causes.

Professor Gill Roper-Hall

Australian children with CVI - using what we know now to improve future approaches

Dr Sue Silveira

Can Imaging of Temporal Raphe Orientation be helpful for Assessment of Ocular Torsion in Patients with Cranial Nerve Four Paresis?

Rebecca Fels

Education Session

Tackling Clinical Placement Shortages through Equitable Allocation: A National Scheme

Dr Sonia Toor

Students' perception of e-lectures from the undergraduate orthoptics programme

Elizabeth Lomas

Impact of the Placement Expansion Resource Library (PERL) for pre-registration Orthoptic students in the UK.

Karzan Hughes

Peer Enhanced e-Placement - an effective alternative to traditional clinical placements

Dr Sonia Toor

Interactive Poster Session 1

Using Role Playing for Educating to inter-professional work team

Anna Barducco

The accommodation response in anisometropic amblyopes measured using Nott dynamic retinoscopy

Emily Cottingham

The Erasmus+ mobility programme at the Lisbon School of Health Technology:
Characteristics and motivations of participants from 2009-2019

Ana Dolan

Esotropia, Proptosis and Chemosis: Primary Presentation of an Orbital Mass

Kate Hon

Acquired pendular nystagmus in Multiple Sclerosis (MS)- case review of pharmacological
treatment of five patients

Francesca Lynch

On line diploma course for Healthcare Science Associates in Ophthalmic and Vision Science

Rowena McNamara

Perceptions of online teaching in the academic community at a higher education health
institution

Professor Ilda Maria Pocas

Ophthalmic Side Effects of Immunosuppressant Drugs

Victoria Smerdon

Do families prefer gaming to patching? A qualitative study on experiences and preferences
with amblyopia treatment

Emily Tan

A case report: Isolated fourth nerve associated with Herpes Zoster Ophthalmicus

Farah Virani

Screening Part 2 (Vision & Strabismus)

Availability of data for cost-effectiveness comparison of paediatric vision screening
programmes in all countries in Europe

Professor Huibert Simonsz

Photoscreening vs Visual Acuity Screening. Marginal benefit vs much higher costs

Professor Anna Horwood

Evaluation of a new method to test visual acuity remotely.

Anne Bjerre

A Systematic Review of Clinical Practice Guidelines for Strabismus

Dr David Newsham

Current practice, challenges and facilitators in screening for visual perception deficits after
stroke

Dr Kathleen Vancleef

Oxford Visual Perception Screen, a new screening tool for visual perception deficits

Dr Kathleen Vancleef

Stroke

The sociology of post-stroke vision impairments, and the associated health inequalities

Dr Kerry Hanna

The experience of vision impairment among stroke survivors in NSW

Shanelle Sorbello

Applying “Plan, do, study act” to a service-enhancement; initiating and sustaining a specialist
orthoptic post stroke vision service.

Elizabeth Lomas

Rate of stroke referrals to orthoptics, before, during and after the Impact of Visual
Impairment following Stroke (IVIS) study

Dr Kerry Hanna

Development of core outcome measures for vision assessment in stroke: a Delphi and
consensus study.

Professor Fiona Rowe

The impact on cognitive screening assessment completion as a result of visual impairment

Dr Lauren Hepworth

Measurement of saccades to monitor adaptation to post-stroke homonymous hemianopia

Dr Claire Howard

Returning to driving following adaptation to post-stroke homonymous hemianopia
Dr Claire Howard

Orthoptic Assessment & Management

Motor skills in children with strabismus

Veronica Goossens

Causes, incidence and orthoptic treatment of orbital fractures: an overview

Yvette Braaksma-besselink

Treatment of symptomatic, oblique strabismus with Press-On Prism: A simplified approach

Professor Alex Christoff

Environmental drivers of the myopia epidemic and the impact of the COVID-19 pandemic

Dr Amanda French

Effect of Axial Length on Subjective Refraction and Uncorrected Visual Acuity

Yuta Nakaniida

An investigation into the accuracy of measuring interpupillary distance on the synoptophore

Katie Morton

How accurate is the iPhone compass application at measuring abnormal head turns?

Annabel Mynett

Burian Lecture

Binocular Vision and Test Design

Professor Helen Davis

Collaborative and/or Extended Practice

Visual function risk factors for falls in older adults.

Dr Jignasa Mehta

“Watch that step!” Older adult’s perspectives on the role of sight in falls incidents.

Dr Jignasa Mehta

Visual field assessment in children: a systematic review

Michaela Sherlock

Biofeedback rehabilitation of eccentric viewing in patients with central vision loss: A pilot study

Natalia Kelly

‘My CVI’ a serious game for psycho-education for children with cerebral visual impairment (CVI) in the age of 6-12 years.

Florine Pilon

Perspectives of orthoptists and speech pathologists working with patients with dual visual and communication impairments

Sonia Lau

The relevance of cooperation between orthoptist and athletic trainer in sports vision for the enhancement of sports performance

Alice Parisi

Interactive Poster session 2

Orthoptic findings and visual perception in adolescents born moderate-to-late- preterm

Associate Professor Eva Aring

The value of an Orthoptist in a joint Ophthalmology and Endocrinology clinic for thyroid eye disease

Sandeep Bansal

Procedures for measuring the Near Point of Convergence and the Point of Asthenopia in individuals with Postural Deficiency Syndrome

Ana Dolan

Red flags in orthoptics: patient safety for children without referral of a physician

Gerdien Holtslag

Atropine Express vs Cyclopentolate 0.5% - A new reliable alternative to a rapid cycloplegia?

Athéna Lallouette

The effect of test method on visual acuity in school children aged 4-5

Rebecca Lewis

Primary paediatric eye care in rural Bihar: the core orthoptic skill of measuring visual acuity is an essential tool

Rowena McNamara

Cyclical esotropia – a case series

Eve Shillan

Evidence Based Care Pathway for Isolated Adult Orbital Blowout Fractures

Jessica Wood

Interactive Poster session 3

Evaluation of Objective and Subjective Ocular Refraction in Refraction System with Binocular Simultaneous Looking-in Type

Megumi Fukushima

Restrictive Strabismus Secondary to Glaucoma Drainage Device

Carrie Griffiths

Automatic Semi-Realtime Measurements of Eye Movements using Video Oculography and Artificial Intelligence

Masakazu Hirota

Diplopia after Periocular Injections with Botulinum Toxin

Wendy Hordijk-Noordhuizen

The need for psychological support in Thyroid eye disease: A literature review

Melanie Joyce

Randomised controlled trial of a specialised mobile application for amblyopia treatment

Kristine Kalnica-Dorosenko

Did parents reliably measure children's visual acuity during the Covid-19 lockdown in New Zealand?

Miriam Langeslag-Smith

Challenges in developing an Ophthalmic Common Clinical Competency Framework (OCCCF) and Ophthalmic Practitioner Training (OPT)

Rowena McNamara

A factual survey for the environment surrounding amblyopia training in Japan

Shuri Okamura

Ocular repercussions in COVID-19 patients: structural changes of the retina

Professor Ilda Maria Poças

Postoperative uncorrected visual acuity of eyes implanted with Lentis Comfort

Yuka Sasaki

International Strabismological Association Symposium: Update on the management of ocular motor palsies

Update on the use of botulinum toxin in paralytic strabismus

Dr Seyhan Özkan

Bilateral IV nerve palsies

Dr Alejandro Armesto

Surgical management of 3rd nerve palsy

Dr Gill Adams

Management of monocular elevation deficit

Galton Vasconcelos

Management of internuclear ophthalmoplegia

Dr Saurabh Jain

Oculomotor problems due to stroke

Professor Fiona Rowe

Strabismus & Paediatrics

Inferior oblique recession with 5 mm loop to correct vertical deviation and inferior oblique overaction secondary to superior oblique palsy

Daisy Godts

Indications for and effect of nasal and temporal partial tenotomy of the vertical rectus muscles in strabismus

Dr Parinaz Rostamzad

Botulinum toxin as adjuvant to rectus muscle surgery in high myopia

Dr Sjoukje Loudon

Stereopsis for Microsurgery: Does It Really Matter?

Hanouf Alkharashi

Blepharoplasty: A cause of diplopia?

Carrie Griffiths

Exploring the ocular complications of intra-arterial chemotherapy and their recovery time for refractory retinoblastoma: a 5 year retrospective review

Zishan Naeem

Quality of Life

What do patients report after strabismus surgery?

Gemma Arblaster

Investigating the outcomes of adult strabismus surgery undertaken for psychosocial reasons

Gemma Arblaster

Psychometric properties of the Dutch version Adult Strabismus-20 Questionnaire (AS-20)

Fenna Burggraaf

The Brain Injury Visual Impairment Impact Questionnaire (BIVI-IQ): using multiple methods for development

Dr Lauren Hepworth

Visual functions and executive functions in children with Down syndrome; randomized controlled trial with bifocals and unifocals with 1-year follow-up.

Christine De Weger

Accommodation, Vision, and Fusion & Closing Ceremony

The impact of smartphone use on accommodative functions

Louise Allen

Modification of a symptom questionnaire for use with smartphones

Martha Farrelly-Waters

An Evidence-based Psychological Approach to Accommodative Problems

Professor Anna Horwood

Evaluation of distance stereoacuity in children with a novel digital application

Guy Barnett-Itzhaki

Are horizontal fusional vergences comparable when measured using a prism bar and synoptophore?

Shania Haque