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 1
Franceschetti A, Franceschetti AT, Hudson-Shaw S.
Differential diagnosis of the different syndromes of functional amblyopia 8
Thomas CH.
Methods and results in examination of fixation in amblyopia 14
Avetisov ES.
On amblyopia – its definition and the results of the treatment 20
Yamashita T.
The aetiology of strabismic amblyopia in relation to the problem of its therapy 31
Castanera A.
Physiopathology of amblyopia as basis of its treatment 33
Arruga A.
Classification of amblyopia 39
Von Noorden GK.
Comparison of the results of static and kinetic perimetry in the central region of the visual field of the amblyopic eye 45
Francois J, Verriest G, Verluyten P.
White and colour visual fields and scotometry – possible difference between amblyopias of different etiology 51
Sato O.
Importance of additional factors for indication or prognosis of amblyopia treatment 56
Gortz H.
The significance of nystagmoid movement in amblyopia 60
Gillies WE.
Problems of organic lesions in functional amblyopia 63
Sachsenweger R.
Prophylaxis and therapy of amblyopia 67
Bangerter A.
Round table: session 1 73
Treatment of amblyopia with and without foveal fixation 80
Ayberk N.
Persistent amblyopia 84
Fletcher MC.
Surgery for eccentric fixation displacement 89
Sevrin G, de Corte H.
Results of treatment of concomitant squint amblyopia with eccentric fixation by squint operation and occlusion of the fixing eye 98
Mortada A.
Examples of binocular therapy in cases of early amblyopia 104
Lyle TK.
An evaluation of successes and failures (indications and contraindications) or orthoptics and pleoptics 113
Awasthi S.
Round table: session 2 120
Report of working group III (International Strabismus Society) 128
Lyle TK.
The aetiology of motor disturbance of squint 130
Wybar K.
Sensori-motor examination of the infant 134
Costenbader FD.
Analysis of the motor situation in strabismus
Adelstein F, Cuppers C.
Alteration of the angle of anomaly dependent on the direction of gaze
Aust W, Dettmering W.
The utility of orthoptics in the diagnosis and the treatment of strabismus
Vancea P, Ratiu E.
Diagnostic errors in the evaluation of retinal correspondence by various tests in squints
Bagolini B.
Dissociated vertical anomalies
Brown NW.
Contribution to the sensory and motor status of strabismus and to the choice of proper conservative and surgical measures
Raab-Sternberg A.
An evaluation of objective methods in the measurements of strabismus on the operating table versus pre-operative objectives and subjective methods
Schillinger R.
An evaluation and comparison of the Hess chart, Lees screen and Lancaster red-green tests in paretic strabismus
Pratt-Johnson JA.
Sources of errors by exclusive use of the Hess screen
Schmidt-Hofmann-Friemel E.
Use of prisms in the diagnosis of retinal correspondence and of the eye-hand relation
Arentsen J.
Round table: session 3
Evaluation in small angle strabismus or microtropia
Lang J.
An evaluation of the significance of the refractive state both pre and post operatively
Romaine H.
The examination of retinal correspondence by the method of projected after-images
Wilczek M.
Visual acuity under low luminosity (dynamic visual acuity) in strabismic amblyopia
Verin PH, Rougier-Houssin J, Le Rebeller MJ, Pincon F.
Flash Haploscope
Siebeck R.
Examination of binocular vision in polarised light
Pigassou R.
Phase difference haploscopy for investigation of strabismus
Aulhorn E, Kreuzer W.
Synoptophore in space compared with other methods
Breitenmoser R.
Stereoacuity as an indicator of bifixation
Parks MM.
Round table: session 4
Report on the deliberations of working group 1 (Terminology, standardisation of the language of communication)
Linksz A.
Some considerations on the pathophysiology of anomalous correspondence in relation to its treatment
Pasino L, Maraini G.
The treatment of strabismus in Sweden
Aurell G.
Suppression and inhibition in therapy
Hamburger FA.
Methods of treatment in free space of ARC
Hugonnier-Clayettes S.
Surgical orthoptics
Knapp P.
The influence of the operative overcorrection of an esotropia on abnormal retinal correspondence
Hugonnier R.
Purposeful overcorrection in exotropia
Cooper EL.
Overcorrections in exotropia surgery
Dunlap EA.
An evaluation of the use of prisms in the postoperative orthoptic care of divergence strabismus
Laws HW.
The role of orthoptics in the evaluation and treatment of intermittent exotropia
Asbury T.
Prisms: their therapeutic use in strabismus
Berard PV.
An evaluation of treatment and management of squints with relation to Pakistan
Wania JH.
Practical implications of the present knowledge about subjective space in anomalous correspondence
Ciancia AO.
Round table: session 5
Carbajal UM.
An evaluation of bifocals and orthoptics in the treatment of esotropia with abnormal accommodation-convergence ratio
Caldeira JAF.
Miotics in the diagnosis and treatment of convergent strabismus
Chamberlain W.
Phospholine iodide as an orthoptic tool
Gonzalez C.
An evaluation of successes and failures of orthoptics
Limon de Brown E.
The criteria of recovery
Jonkers GH.
The value of orthoptics in the treatment of paralytic strabismus
Tsamparlakis J.
Round table: session 6
Report of working group II
Thomas CH.
An evaluation of the present status of medical and surgical treatment of exodeviations (clinical and etiological considerations)
Agundis TM.
An evaluation of the present status of medical and surgical treatment of exodeviations
Palomino Dena F.
Considerations on postoperative diplopia
Focosi M.
Study of ocular myopathy
Maruo T.
Contribution to the genesis of strabismus
Molnar L.
Psycho-pedagogic aspects of observation and treatment of strabismic and amblyopic patients
Moutinho H, Dos Santos J.
The incidence of postoperative diplopia in older children (above the age of 9) and adults
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 445
Talwalkar VS.
Optical overcorrection of the manifest hyperopia in cases of convergent strabismus 449
Rethy I.
Orthoptics and pleoptics in Thailand 455
Dumavibhat P.
Round table: session 7 456
An electro-oculographic comparative study of kinetic troubles in horizontal palsies, retraction syndrome and functional squints
Quere MA, Lavenant F.
Latent nystagmus and esotropias: an EOG study
Duran de la Colina JA, Maroto Garcia S.
The optokinetic nystagmus response in early onset strabismus
Mein J.
The real interest of EOG examination: detection of unnoticed neurological syndromes
Weiss JB.
Saccadic velocity studies in patients with internuclear ophthalmoparesis
Olivier P, Weiss JB.
Ocular and skeletal electromyography diagnostic test in external congenital ophthalmoplegia
Magli A, Daniele D’Esposito A, Santoro L, Fusco R, Perretti A.
Electromyography of congenital esotropia under general anaesthesia
Cibis GW, Varghese G.
Histological aspects of rectus muscles in concomitant strabismus
Balcet U, Castri M, Bosso G.
Anatomy components in squint pathogenesis
Rivara A, Galiani G, Murgia B.
The use of synoptometry in the diagnosis of eye movement disorders
Krzystkowa KM, Kubatko-Zielinska A.
Pareses of extraocular muscles as early symptom of occult cerebral tumors or hemorrhages
Aichmair H.
Accommodative esotropia with convergence excess, associated with myopia
Calcutt C, Mathalone B.
Electrophysiology of binocular vision
Von Noorden GK, Crawford MLJ.
Evaluation of binocularity by means of visual evoked responses
Campos EC.
Squint, a functional behavioural pattern stabilised by sensorimotor adjustments during first year of life
Rethy S.
Clinical results and electrophysiological investigations in amblyopic patients treated with ‘Bascule Reperage-Observation’
Galassi F, Scrivanti M, Casi G, Pisani L.
Objective assessment of the strength of binocularity in normals and strabismics
Chiesi C, Campos EC.
New stereotests
Lang J.
Random-dots stereograms
Muller Feuga E, Thiollet ML.
Motor dominance and sensorial dominance
Nardi M, Falco L.
On the nature of suppression scotomas
Mehdorn E.
Relationships between different kinds of functional amblyopia and perimetry
Castellazzo R, Fava GP, Capris P, Fioretto M.
Binocular visual field in concomitant strabismus, pre and postoperative evaluation
Bellizzi M, Lamorgese C.
Clinical study and interpretation of the phenomenon of horror fusionis in 1982

Pigassou Albouy R.

Investigations of fixation disparity during light and dark adaptation

Schmidt B, Braun I.

Sensory rehabilitation of binocular vision in concomitant strabismus with early onset

Herzau V.

Sensory and motor rehabilitation by sectors

Coudero-Devaux M.

Esotropia during the first year of life

Lobstein-Henry Y, Dorey-Perrigue F.

The infant strabismus of yesterday is the adolescent strabismus of today

Capobianco NM, Arrigoni L, Natale B.

Preoperative motor assessment

Frosini R, Boschi MC.

Intraoperative strabometry

Paliaga GP.

Microcomputer use in planning strabismus surgery

Russmann W.

Study on the clinical application of the millimetric cover test

Ponte F, Vaccaro G.

Surgical correction of head malpositions of ocular origin

Salci G, Boschi MC, Baroncelli D.

The vertical syndrome in concomitant strabismus

Berard PV, Reydy R, Hantisse S, Jourdan D.

Computer-assisted analysis of cyclovertical squint

Konen W, Russmann W.

Indications for adjustable surgery

Spielmann A.

Considerations on new-born and early childhood depistage for prevention of amblyopic ocular disease

Tittarelli R, Guerra M, Valazzi CM.

Long period time results of strabismus medical early treatment before 18 months of age

Badoche JM.

Effects of Trazodone on eye movements in children affected by neurological disorders (spastic and dystonic syndromes)

Papini M, Martinetti MG, Pasquinelli A, Baroncelli D, Milani Comparetti A, Gidoni EA, Fantini ML.

The treatment of strabismus with botulinum toxin

D’Esposito M, Calace P.

Strabismus and amblyopia associated with congenital glaucoma

Tsamparlakis J, Kalipolitis P, Stavrakas E, Kitsos T.

The convergent pseudo-paresis in the postural deficiency syndrome. A sensorial and proprioceptive approach


Tendon split lengthening of the superior oblique muscle

Ciancia AO, Lavin RJ.

Our experience of anteroposition of the oblique muscles according to Gobin (preliminary study)

De Rosa C, Magli A, Calabro S, Ambrosio G.

Our experience in strabismus surgery according to Gobin

Fedriga P, de Vincentiis L, Ferrari E.

Desagittalisation of the oblique muscles as a surgical treatment of strabismus

Gobin MH.

Our experience with symmetrical and simultaneous surgery in V esotropias

Jovicic B, Srbivanic N.
The surgical treatment of squint by desagittalisation of the oblique muscles according to Dr Gobin, our first experiences
Maselli E, Esempio G, Gaddi D, Pitino G, Talatin C.
Surgical correction of A and V phenomena
Papadedes C.
The so-called weakening surgery of the inferior oblique muscle (IO)
Scassellati Sforzolini G.
The problem of the arc of contact. Our experience with Focosi-s tendon lengthening
Boschi MC, Frosini R.
Loops: indications and results
Faraldi I, Contrucci N, Poggi F.
Single surgical procedure in the management of pseudo-paralysis of the lateral recti
Deller M.
Our experience in retropexy operation
Casu L, Guerra R.
Follow-up results of faden-operation
Ambrosio G, Magli A, Chiosi E.
Evolution of operated esotropias
Scassellati Sforzolini G.
Vademecum of reoperation
De Decker W.
Findings on revision of Bruckenfadenoperation
Polenghi F.
Adjustable sutures in special cases of rectus muscle surgery
Roggenkamper P.
Diseases of the orbit affecting the extraocular movements
Sevel D.
CT as an exploration method of the orbits
Del Pzzo GC.
Ocular motility alterations in patients suffering from orbital disorders
Bonavolonta G, Chiosi E, Capasso-Barbato M, Vassallo P.
The click syndrome. A case report
Miglior M, Lasagni F, Lambertienghi E.
Reduction of intraoperative bleeding in squint surgery
Pinto G, Leonardi E, Silvi MB, Malagola R.
Retraction Duane’s syndrome from an ultrasonic point of view
Dorn V, Celic M.
Alternating esotropia and retinal sensitivity valued through perimetry at different retinal adaptation levels
Fusco R, Chiosi E, Uccello G, Colasanti A.
Methods of tenon-conjunctival suture and amount of correction in esotropias
Genovesi E, Cerasoli A.
The role of the ophthalmologist in the diagnosis and treatment of blowout fracture of the orbit
Krzystkowa 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
La Rosa G, Bellone G.
Comment on a complex malformative syndrome with ocular and systemic manifestations
Lasagni F, Gornati MV, Ottino A, Forte R.
Anisometropia
Marmion VJ.
Plaquette, neutralisation and peripheral amblyopia
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.
Photorefraction: 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 691 angle in concomitant strabismus
Tittarelli R, Guerra M, Benedetti S.
Prism correction of residual postoperative deviation 699
Zahariev A.
Transactions 6th International Strabismological Association
1990, Australia

The sixth Bielchowsky lecture: Control of eye vergence and anomalous retinal correspondence
Bishop PO.

Amblyopia: Correlation Between Human And Animal Research
G K Von Noorden

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

Amblyopia: Care And Prevalence In Pre-School Children, Campanias, Sao Paulo, Brazil
K M Monteiro De Carvalho, N Kara-Jose, R Caldato, A M Oliviera, J Fonseca Neto, V L Pereira

The Incidence Of Amblyopia In Long Standing Untreated Infantile Esotropia
A D N Murray, C Calcutt

Comparison Of Treatment Methods In Strabismic Amblyopia
R M L Doran, S Yarde, A Starbuck

Amblyopia, Strabismus And Anisometropia In Congenital Glaucoma Patients
L M Christmann, JG Ferguson

A Trial Of P-ERG For The Aid Of Therapy In Amblyopia
S Takayama, K Nomura, K Fujioka, T Shinkai, M Yamamota

Retinal Sensitivity In Amblyopia Cases
M Ito, M Imaizumi, H Miyazawa, M Yamamoto

Pattern VEP And Accommodation In Anisometropic Amblyopia
T Ohzeki

Observations On Grating Acuity Measures Of Children In Clinical Practice Using Teller Acuity Cards
A Chanda, R M L Doran

Development Of Visual Acuity Test By Grating Acuity Cards In Pre-Term And Full-Term Newborn And Premature Infants
H Miyazawa, M Yamamoto

Visual And Ocular Motor Assessment Of Infants: A Preliminary Report
L Mckenzie

Studies Of Stereoacuity In Infants By The Tv-Random Dot Stereo Test
S Awaya, Y Mizukami, A Kumiya, E Koizumi, S Miyake

Clinical Applications Of Stereograms Made With IBM Microcomputer
L L K Lin, S F Wu, J H Jan, A H Wang

Evaluation Of Langs Test As A Screening Procedure In Children
H A Peduti-Cunha, J A F Caldeira

Influence Of Vertical Fusion On Horizontal Fusion
W Aust

Binocular Dissociation By The Mechanism Of Time Separation
A H Wang, J H Jan, J H Yu, L L K Lin, L S Ko

The Observation Of Eye Movement Using Magnetic Resonance Imaging
Y Nishida, E Nishida, K Kani, A Inatomi

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

A Clinical Method Of Measuring The CA/C Ratio
I Strachan, M Watts

Photographic Measurement Of The Angle Of Strabismus
M S Ruttum, K Shimshak, M Chesner
The Use Of The Corneal Reflex Test Through Glasses
Y Hatsukawa, T Otori, B Patel, C Hogg, P Fells

161

Squint Surgery Performed With Measurement Of The Globe By A –Scan
Compared With Standard Surgery
W E Gillies, A M V Brooks

A Method For Determining Intraoperative Length-Tension Curves Of Human
Extraocular Muscles

A Right Angle Siamese Twin Calliper For Greater Accuracy And Precision
In Eye Muscle Surgery
P E Romano, C E Hess

Application Of The Computer In Strabismology
J H Jan, L L K Lin, A H Wang, Y F Shih

Polaroid Photorefractive Screening For Amblyopia
H L Freedman, K L Preston

A New Dot Visual Acuity Test For Children
H Morizane, K Morizane

Event-Related Potentials In Disturbance Of Vision Of Psychogenic Origin
Y Oguchi

Pathophysiology Of The Symptoms Of Infantile Strabismus
A Spielmann

Origin Of The Lateral Rectus Paresis In Strabismus of High Myopic Patients
B Bagolini, A Dickman, C Tamburrelli, C Colosimo

Duane’s Retraction Syndrome: A Review Of 72 Cases
F J Martin, K M Bourne

Further Insights Into Developmental Errors Causing Duane’s Syndrome
Revealed By A New MRI Technique
A L Rosenbaum

Strabismus Resulting From Retinal Detachment Surgery:
Some Aspects Of Management
A F Hilton

Oscillopsia In Congenital Nystagmus
L A Abel, I M Williams, L Levi

Treatable Nystagmus (Manifest Latent Nystagmus)
R D Reinecke, A A Zubcov

Results Of Horizontal Rectus Muscle Surgery To Modify The Null Point In
Congenital Nystagmus
J A Pratt-Johnson

Compensation Mechanisms And Treatment In Nystagmus Patients With
Albinism Or Congenital Cataract
H Muhlemdyck

Symposium On The Management Of Fully Accommodative Esotropia
P Fells, PV Berard, M Gobin, A Jampolsky, A C B Molteno,
G K Von Noorden, C Shor, M Spiritus

Outcome Of Accommodative Esotropia
T Nakagawa, T Kii, S Mori

Long Term Follow-Up Of Refractive Accommodative Esotropia
N Kubota, S Akatsu

The Accommodative Component After Esotropia Surgery
E L Raab

Ultra-Early Surgery For Essential Infantile
E M Helveston

Late Management Of Infantile Esotropia
AA Assaf

Stability Of The Monofixation Syndrome
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 Ahgue, 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 (Under General Anesthesia) For Neuroparalytic And Mechanical Strabismus 473
P E Ramono
Superior Oblique Silicone Expander For Browns Syndrome And Superior Oblique Overaction 479
K W Wright
Desagitalization Of The Superior Rectus: A Simple Method To Correct Abnormal Head Posture In Congenital Absence Of The Superior Oblique 481
S Miyake, K Tsuzuki, T Yagasaki, S Awaya
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 Meningomyelocele
501
G Lennerstrand, L Samuelson
Ocular Motility Defects In Motor Neurone
509
K G Gibson
The Effect Of Radiotherapy On Abnormal Eye Movements In Dysthyroid Obitopathy
517
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
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Evaluating The Optical Status Of The Human Eye</td>
<td>3</td>
</tr>
<tr>
<td>SH Hay, P Reiner, R Bryant</td>
<td></td>
</tr>
<tr>
<td>Inter-Observer Variability Of Cycloplegic Refraction In Children</td>
<td>7</td>
</tr>
<tr>
<td>S Jamal, G R Laroche</td>
<td></td>
</tr>
<tr>
<td>The Variability Of Ophthalmological Parameters In Normal Children</td>
<td>11</td>
</tr>
<tr>
<td>Age 4 ½ To 5 ½ Years</td>
<td></td>
</tr>
<tr>
<td>S Lam, G R Laroche, J De Becker, H Macpherson</td>
<td></td>
</tr>
<tr>
<td>Polaroid Photoscreening. A New Model And Interpretation Standards</td>
<td>15</td>
</tr>
<tr>
<td>H L Freeman, L Griffin</td>
<td></td>
</tr>
<tr>
<td>The Results Of Russell Corporation-Sponsored Eye Screenings In 14,000</td>
<td>19</td>
</tr>
<tr>
<td>Children</td>
<td></td>
</tr>
<tr>
<td>K S Morgan, J C Kennemer</td>
<td></td>
</tr>
<tr>
<td>Deficiencies Of The Fixation Mechanism</td>
<td>23</td>
</tr>
<tr>
<td>J Lang, P Bischoff</td>
<td></td>
</tr>
<tr>
<td>Photopic Visual Field In 2 Month Old Infants</td>
<td>27</td>
</tr>
<tr>
<td>A Fea, M Delpiano, A Soldi, M Musso, E Miraglia, C Martano, L Mayer,</td>
<td></td>
</tr>
<tr>
<td>F Vitale Brovarone</td>
<td></td>
</tr>
<tr>
<td>A Sweep VEP Test For Colour Deficits In Infant Children</td>
<td>31</td>
</tr>
<tr>
<td>T D France, J N Ver Hoeve</td>
<td></td>
</tr>
<tr>
<td>Changes In Corneal Topography After Strabismus Surgery In Children</td>
<td>35</td>
</tr>
<tr>
<td>X-H Wang, ME Wilson, E LC Bluestein</td>
<td></td>
</tr>
<tr>
<td>Longitudinal Changes Of Refractive Error In Esotropic Operated And Unoperated Young Children</td>
<td>39</td>
</tr>
<tr>
<td>M Spiritus, O Kallay Jr, C Denis, M Van Der Broeck, D Hoffman</td>
<td></td>
</tr>
<tr>
<td>Focal Macular ERG In Amblyopia: With Special Reference To The</td>
<td>43</td>
</tr>
<tr>
<td>Difference Between Hypertropic Anisometropia And Myopic Anisometropia</td>
<td></td>
</tr>
<tr>
<td>A Awaya, H Tanaka, Y Miyake, T Yagasaki, N Nakamura, Y Suzuki</td>
<td></td>
</tr>
<tr>
<td>Efficiency Of Preferential Looking Test And PVEP In Detecting</td>
<td>47</td>
</tr>
<tr>
<td>Amblyopia In Infants With Or Without Mental Handicaps</td>
<td></td>
</tr>
<tr>
<td>M S Roy, M Barsoum-Hornsy, LM Khouri, C Tremblay</td>
<td></td>
</tr>
<tr>
<td>A Comparative Study Of Near And Distant Visual Acuity In Amblyopic Eyes</td>
<td>51</td>
</tr>
<tr>
<td>W Haase, B Schmal, B Damashke, E Meyer</td>
<td></td>
</tr>
<tr>
<td>Citicoline Improves Temporarily Visual Acuity Of Amblyopic Patients</td>
<td>55</td>
</tr>
<tr>
<td>Outside The Plastic Period Of Visual System</td>
<td></td>
</tr>
<tr>
<td>E C Campos, S Chiavi, P Bededetti, R Bolzani</td>
<td>59</td>
</tr>
<tr>
<td>Steroid Injection Vs Conservative Treatment Of Anisometric Amblyopia</td>
<td></td>
</tr>
<tr>
<td>In Juvenile Adnexal Hemangioma</td>
<td></td>
</tr>
<tr>
<td>MV Motwani, J W Simon, J Pickering, R A Catalano, P L Jenkins</td>
<td></td>
</tr>
<tr>
<td>Using An Ocular Contact Lens For Amblyopia Management</td>
<td>63</td>
</tr>
<tr>
<td>C G Summers, LK Davis, JE Egbert</td>
<td></td>
</tr>
<tr>
<td>The Physiology Of Suppression In Strabismus</td>
<td>69</td>
</tr>
<tr>
<td>R Harrad, F Sengpiel, C Blakemore</td>
<td></td>
</tr>
<tr>
<td>Neuroanatomic Abnormalities Of Visual Cortex In Infantile Esotropia</td>
<td>73</td>
</tr>
<tr>
<td>L Tychsen, A Burkhalter</td>
<td></td>
</tr>
<tr>
<td>Fly Test Calibrated</td>
<td>77</td>
</tr>
<tr>
<td>W De Decker, E Dannheim, R Gockeln</td>
<td></td>
</tr>
<tr>
<td>Preliminary Evaluation Of A Newly Designed Random Dot Test</td>
<td>81</td>
</tr>
<tr>
<td>L L K Lin, S F Wu, A H Wang</td>
<td></td>
</tr>
<tr>
<td>Binocular Sensory Testing</td>
<td>85</td>
</tr>
<tr>
<td>B W Arthur</td>
<td></td>
</tr>
<tr>
<td>Cortical Binocular Recovery Following Strabismus Surgery</td>
<td>89</td>
</tr>
<tr>
<td>L W Baitch, M W Preslan</td>
<td></td>
</tr>
<tr>
<td>The Relationship Between The Angle Of Strabismus And Degree Of Binocularity</td>
<td>93</td>
</tr>
</tbody>
</table>
J E Egbert, J H Anderson, C G Summers  
Long Term Evaluation Of Extra Ocular Muscle Surgery For Congenital Nystagmus And Abnormal Head Posture  
E Schulz, E Meyer, W Haase, J Lithander  
The Treatment Of Congenital Nystagmus With Botox  
J Carruthers  
Accommodative Amplitude In Children Wearing Bifocals  
G K Van Noorden, R H Jenkins  
M X Repka  
Discussion Of “Effect Of Bifocals On Accommodative Range Children”  
By G K Von Noorden And R H Jenkins  
Hyperopia In Infantile Vs Acquired Esotropia: Implication For Glasses  
M X Repka  
Prophylaxis To Prevent Acquired Esotropia  
G W Cibis, M A Crandall  
Progressive Increase In The Angle Of Deviation In Congenital Esotropia  
M R Ing  
Ocular Deviation Under Atropine Cycloplegia As A Predictor Of The Accommodative Component Of Esotropia  
P Nemet  
Prism Adaption In Variable Esotropia  
S A Stewart, C G Summers, J D Lavoie, J E Egbert  
The Influence Of The Prism Adaption Test (PAT) On Surgery For Intermittent Esotropia  
S Veronneau-Troutman, E Traykovski, J Derosa  
The Correlation Between Axial Length And The Response To Strabismus Surgery  
M Graf, T Kruzik, H Kaufmann  
Relating The Angular Correction To The Amount Of Strabismus Surgery  
W E Gillies, M R Rivers, A M V Brooks  
Results Of 8 And 9mm Bilateral Muscle Recessions For Exotropia  
J E Berland, M E Wilson, R A Saunders  
Large Bimedial Rectus Recession (6.5mm Or More) In The Management Of Large Angle Esotropia  
A A Assaf  
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  
Surgical Success In Patients With Acquired Esotropia And High Refractive Error  
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  
Predictive Factors For Exotropia Following Esotropia Surgery  
W R Lee, R V Keech, J Kim  
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  
Treatment For A And V Patterns By Slanting Muscle Insertion  
B Biedner, Y Yassur  
Unilateral Surgery For Exotropia With Convergence Weakness  
S P Kraft, A V Levin, R W Enzenauer  
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  
Vertical Rectus Muscle Transposition In Complete VI Cranial Nerve Palsy  
S E Brooks, G Deb Ribeiro, S M Archer, M A Del Monte
<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>279</td>
<td>The Superior Rectus Contracture Syndrome</td>
</tr>
<tr>
<td>283</td>
<td>Inferior Transposition Of The Horizontal Recti (Inverse Knapp Procedure) For The Treatment Of Acquired Inferior Rectus Paresis</td>
</tr>
<tr>
<td>287</td>
<td>An MRI Study Of Double Elevator Palsy</td>
</tr>
<tr>
<td>291</td>
<td>The Spectrum Of Anatomic Variations In Congenital Superior Oblique Palsy</td>
</tr>
<tr>
<td>295</td>
<td>Facial Asymmetry And Superior Oblique Tendon Laxity In Superior Oblique Palsy</td>
</tr>
<tr>
<td>299</td>
<td>Should Early Surgery Be Performed For Head Tilts To Prevent Facial Asymmetry?</td>
</tr>
<tr>
<td>303</td>
<td>True Versus Masquerading Superior Oblique Palsies: Muscle Mechanisms Revealed By Magnetic Resonance Imaging</td>
</tr>
<tr>
<td>307</td>
<td>Superior Oblique Myokymia</td>
</tr>
<tr>
<td>311</td>
<td>The Use Of The Computer-Assisted Lancaster Test In The Evaluation Of A New Operation For Mild Superior Oblique Palsy</td>
</tr>
<tr>
<td>313</td>
<td>Unilateral Modified Harada-Ito Procedure For Excyclotorsion Secondary To Unilateral Superior Oblique Palsy</td>
</tr>
<tr>
<td>317</td>
<td>Effect Of The Superior Oblique Silicone Expander For Superior Oblique Overaction</td>
</tr>
<tr>
<td>321</td>
<td>Superior Oblique Tenotomy With Expander</td>
</tr>
<tr>
<td>322</td>
<td>Efficacy Of Posterior Tenectomy Of The Superior Oblique For A-Pattern Anisotropia</td>
</tr>
<tr>
<td>326</td>
<td>Anterior Transposition Of The Inferior Oblique In The Treatment Of Fourth Nerve Palsy</td>
</tr>
<tr>
<td>329</td>
<td>Surgical Procedure In Congenital Brown’s Syndrome</td>
</tr>
<tr>
<td>333</td>
<td>Inferior Oblique Overaction In Congenital Esotropi: Fundus Exocyclotorsion As A Predictive Sign</td>
</tr>
<tr>
<td>336</td>
<td>Vertical Deviations Secondary To Inferior Oblique Inclusion In Previous Lateral Rectus Surgery</td>
</tr>
<tr>
<td>340</td>
<td>Nasal Myectomy Of The Inferior Oblique</td>
</tr>
<tr>
<td>347</td>
<td>Observation Of Dissociated Vertical Deviation (DVD) By Infrared Fundus Haploscope</td>
</tr>
<tr>
<td>351</td>
<td>A And V Patterns In Untreated Infantile Esotropia And Their Association With DVD</td>
</tr>
<tr>
<td>355</td>
<td>Analysis Of The Vertical Factor In Early Surgery Of Early Onset Strabismus</td>
</tr>
<tr>
<td>359</td>
<td>Does Dissociated Strabismus Affect Surgical Outcome In Congenital Esotropia?</td>
</tr>
<tr>
<td>363</td>
<td>W O Young, M E Wilson, R A Saunders Dissociated Horizontal Deviation</td>
</tr>
</tbody>
</table>
D Romero-Apis
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
Ultrastructure Of The Superior Oblique Tendon
E M Helverston, M Oberlander, A Evan, B Connors, J Clendenon
Graduated Superior Oblique Surgery And DVD
B P Greaves, A Chadwick
A Pattern Horizontal Strabismus, Dissociated Vertical Deviation And Superior Oblique Overaction
D K Coates, E A Paysse, M Sato, E M Helveston
Surgical Treatment Of Dissociated Vertical Deviation By Faden Operation
II El Bably
20 Years Experience With The Faden-Operation
H Muhlendyck, J Goerd, S Kellner
Posterior Fixation Sutures (Faden Procedure) For The Management Of Convergence Excess Esotropia
A J Vivian, L Kousoulides, P Fells, J P Lee
Posterior Fixation: Adjustable And Without Posterior Sutures
A B Scott
Augmenting Surgery For Monocular Esotropia With A Medial Rectus Posterior Fixation Suture
An Alternative Of Fadenoperations In Acquired Esodeviations With Variable Angle
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
J S Davis, A W Biglan, R Day, D Landsittel
Effect Of Adjustable Sutures In Recession Of The Inferior Rectus Muscle In Thyroid Ophthalmopathy
M S Ruttum
Discussion Of Paper By MS Ruttum MD
S M Archer
Strabismus Surgery In Patients With Moebus Syndrome
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
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
R Gomez De Liano, J M Rodriguez, P Gomez De Liano, M L De Andres
Long Term Use Of Botulinum Toxin For Adult Strabismus
J P Lee
Persisting Hypotropia Following Botulinum Induced Protective Ptosis
P L O Heyworth, J P Lee
Flourescein Angiographic Evaluation Of Anterior Ciliary Vessel Preservation
J Olver, P Fells
The First Textbook Of Strabismus Surgery
J L Mims III And T Boubel
A New Method For Doing Chart Reviews…Without The Chart!
V C Hansen, L Rovick, R S Freeman
Direct Visualization For Nasocrmial Duct Intubation
S K Mcclatchey, S J Jaafar
A Manicure For Difficult Crawford Intubations
R W Arnold
Bilateral, Monocanalicular Crawford Loop: Simple Removal For Remote NLD Patients
R W Arnold
The Association Of Nasolacrimal Duct Obstruction with 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 Holliten, 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
Idiopatch 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
Gonitomy 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-Ophthamologists Screen For Retinopathy Of Prematurity? 529
R A Saufders, E L C Bluestein, 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 Drost, 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
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 Comlubia 577
J Carruthers, D Berg

Congenital Ocular Synkinesis (Aberrant Innervation)- New Concepts 581
H L Freedman, B J Kushner

Strabismus Associated With Marcus Gunn Synkinesis 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 Tychsen

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
Helveston E
Retinal Nerve Fibre Layer Thickness In Human Strabismic Amblyia
TP Colen, JTHN De Faber, H G Lemij
Assessment Of Detection, Resolution And Recognition Acuities In Children, Aged 3 1/2 - 6 Years, With Normal Vision, Visual Impairment Due To Ocular Disease And Strabismic Amblyopia
A Rydeberg, G Lennerstrand
Visual Acuity Tests Using Chart, Line And Single Optotype In Healthy And Amblyopic Children
Rotterdam Amblyopia Screening Evaluation Study Ramses
V K Lantau, R E Juttman
Amblyopia Is A Cause Of Visual Handicap
G Kvarnstrom, P Jakobsson, M Abrahamsson, E Bjernbrink Hornblad, B Sunnqvist
Measurement Of Treatment Compliance In Patching For Amblyopia
H J Simonsz, Bg Dijkstra
Ametropic Bilateral Amblyopia
K Verhoeff, R J Grootendorst, J T H N De Faber
Visual Prognosis In Children With Bilateral High Refractive Errors
G Shalit, A Mulvihill, J Howell, G G W Adams
The Fate Of The Hugh Hypermetropic Eye. A Long Term Follow Up
E Mezer, B Miller, Y Shaully, A Tamir, W Haase, A W Biglan, E Meyer
The Pattern Of Visual Evoked Potentials In Treatment Of Amblyopia In Children
A Kubatko-Zielinska, K M Krzysztkowa, J Lebiedz
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
R M Wilkinson, J M Barbour, C H Wilkinson, D A Mackey
Motion Detection Test In Central And Peripheral Vision
V Belli, E Petrelli, R Bolzani
Contrast Sensitivity, Receptive Fields And Mach Bands
E Petrelli, V Belli, R Bolzani
Proprioceptive Effects On Space Localisation In Strabismus
Y Han, G Lennerstrand
Does Early Onset Strabismus Inhibit The Development Of The Uncrossed Optic Pathway
V Herzau, S Starc
Binocular Visual Field Of Strabismus Measured By Starlight Test
T Hirai, Y Ito, K Tsuzuki, M Sato
A Development Of A New Four-Dot Test To Assess Suppression Scotoma
Without Glasses
T Fujikado, I Matsuda, J Hosohata, G Ohmi
Tonic Interoculular Suppression In Amblyopia And Exotropia
S I Kawano, K Seki, E Watanabe, K Takechi, T Tsukada, T Maruo
Binocular Function Of Parents Of Children With Infantile Esotropia In Japan
K Kanemoto, Y Miyazaki, M Sato
Disruption Of Binocular Fusion By Adult-Onset Macular Dystrophy
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
J E S White, E Dawson, JP Lee, C Bunce
Long-Term Wearing Of Prism – A Conservative Way To Cure Squint  
Deviations In Childhood  
E Strangle-Zuschrott  
Heterotopy Of Extraocular Muscle Pulleys Causes Incomitant Strabismus  
J L Demer, R A Clark, J M Miller  
Normal Fusion Amplitudes: With Special Attention Paid To Cyclofusion  
D K Parkinson, J P Burke, T L Shipman  
A Computer Based System For Acquisition, Recording And Analysis Of Eye Movement  
S Tian, J Yegge, R Bolzani, G Lennerstrand  
Horizontal Disparity Vergence Indifferent Gaze Positions  
A Dickmann, D Di Nichiola, N Gianfrancesco, G Savino, L Scullica  
Vergence Stability In Microstrabismus  
L J Van Rijn, M P M Ten Tusscher, I De Jong, F Henrikse  
Vergence Eye Movements And Asthenopia: Is Vergence Training Useful?  
A F Van Leeuwen, J T H N De Faber, J Van Der Steen  
The Spring-Back Balance Test, Evaluation Of The Conjunctival Component  
A Pechereau, J M Halberdier, F Lignerreux, F Oger-Lavenant  
The Electromyometer. A New Instrument For Measuring Muscle stretching  
A Pechereau, J Chereau  
Strabismus As An Initial Symptom In Children With Brain Tumors  
D Mills, D Puccetti  
A Multi – Centre Prospective Study Of Traumatic Sixth Nerve Palsy  
J M Holmes, D A Leske, P J Drost, R W Beck  
Botulinum Toxin A (BTA) In Treatment Of Paralytic Strabismus  
(VI And IV Nerves Palsy) In Early And Late Periods Of Paralysis  
K M Krzysztkowa, R Szpytma, A Kubatko-Zielinska, A Madroszkiewick  
Results Following Treatment Of Third Cranial Nerve Palsy In Children  
L A Schumacher-Feero, A W Biglan, F Mendiola Solari, K W Yoo  
A Patient With Sudden Diplopia Due To Abduction Limitation. 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 Transplantation Of The Superior Oblique  
X Guo, L Ma, G Xu  
Different Forms Of Congenital Fibrosis Of The Extraocular Muscles  
W E Gillies, A M V Brooks, M Scott  
Synergistic Divergence In Association With Congenital Extraocular Muscle Fibrosis  
S B Ozkan, E Kir  
The Evaluation Of Chronic Progressive External Ophthalmoplegia With Computerized Tomography  
S B Ozan, M F Soylev, Z C Karaman, E Kir, I Durak  
Congenital Innervation Defect Syndrome  
A A Assaf  
A Relationship Between Strabismus And Congenital Blepharoptosis  
N Kubota, T Hayashi, T Maruo, N Ikuta, M Nakagawa, C Usui  
Natural History Of Stillting-Tuk-Duane Retraction Syndrome And Risk Factors Of Decompensation  
K Mcmain, G R Laroche, F Tremblay, J Zurenbinsky  
Frontalis Muscle Transposition In Ptosis With Unwanted Eyelid Movements  
Ten Tusscher MPM, Roddi R  
Assessment Of Visual Function, Orthoptic Findings And Underlying 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-Wilschut, 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 Stger 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 Belmiero 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 – Plagicephaly 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
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thyroid Eye Disease?</td>
<td></td>
</tr>
<tr>
<td>H D Schworm, A E Heufelder, A Kunze, E Welge, T Eggert, K P Boergen</td>
<td></td>
</tr>
<tr>
<td>Early Strabismus Surgery For Thyroid Ophthalmopathy</td>
<td>263</td>
</tr>
<tr>
<td>D K Coats, E A Paysse, D A Plager, D K Wallace</td>
<td></td>
</tr>
<tr>
<td>Incidence And Mechanism Of Oculomotor Disorder After Translid Bony</td>
<td>267</td>
</tr>
<tr>
<td>Bony Orbital Decompression For Thyroid Related Orbitopathy</td>
<td></td>
</tr>
<tr>
<td>A C Spielmann, T Maalouf, J L George</td>
<td></td>
</tr>
<tr>
<td>Changes In Eye Position And Ocular Motility After Orbital Decompression</td>
<td>271</td>
</tr>
<tr>
<td>D Godts F De Wilde, H Smet, P Evens, L Smeets, M J Tassignon</td>
<td></td>
</tr>
<tr>
<td>Ocular Motility Complications Associated With Endoscopic Sinus Energy</td>
<td>275</td>
</tr>
<tr>
<td>M F Murphy, G G W Adams, J J Sloper</td>
<td></td>
</tr>
<tr>
<td>Uniocular Restriction Of Elevation Associated With Sinusitis</td>
<td>279</td>
</tr>
<tr>
<td>M F Murphy And G G W Adams</td>
<td></td>
</tr>
<tr>
<td>Lateral Incomitance In Intermittent Exotropia</td>
<td>285</td>
</tr>
<tr>
<td>E Nichol, A Ansons</td>
<td></td>
</tr>
<tr>
<td>Is “Earlier” Surgery A Sensory Benefit In The Treatment Of Intermittent Exotropia</td>
<td>289</td>
</tr>
<tr>
<td>J D Baker, M Schweers, J Petrunak</td>
<td></td>
</tr>
<tr>
<td>Outcome Study Of Bilateral Lateral Rectus Recession For Intermittent Exotropia In Children</td>
<td>293</td>
</tr>
<tr>
<td>M R Ing</td>
<td></td>
</tr>
<tr>
<td>Large Angle Exotropia Corrected By Intraoperative Botulinum Toxin A And Monocular Recession Resection Surgery</td>
<td>297</td>
</tr>
<tr>
<td>P L Owens, M B Stominger, P A D Rubin, S Veronneau-Troutman</td>
<td></td>
</tr>
<tr>
<td>Comparison Between Recess-Resect Surgery And Bilateral Recession In The Correction Of Lateral Deviation Of Intermittent Exotropia</td>
<td>301</td>
</tr>
<tr>
<td>T Nakagawa, M Ohba, N Sasaki, H Osanai, Y Pattern Exodeviation – A Variant Of Duane’s Retraction Syndrome</td>
<td>305</td>
</tr>
<tr>
<td>S B Ozkan, E Kir, V Daynair</td>
<td></td>
</tr>
<tr>
<td>Prevalent Forms Of Childhood Esotropia</td>
<td>311</td>
</tr>
<tr>
<td>B Mohoney</td>
<td></td>
</tr>
<tr>
<td>Prism Adaption For Acquired Esotropia With Distance/Near Disparity</td>
<td>315</td>
</tr>
<tr>
<td>L Baker, A M Ansons, J P Burke</td>
<td></td>
</tr>
<tr>
<td>Motor Outcome For Infantile Esotropia Using Video Corneal Reflex Test</td>
<td>319</td>
</tr>
<tr>
<td>Y Hatsukawa, Y Kawai, T Yamagishi, M Ishizaka, A Murai, G Ohmi, T Fujikado</td>
<td></td>
</tr>
<tr>
<td>Outcome Of Bimedial Recessions V Resect Procedures</td>
<td>323</td>
</tr>
<tr>
<td>J A Bradbury, C Thompson</td>
<td></td>
</tr>
<tr>
<td>Bimedial Rectus Recession To Equator Site In Infantile Esotropia</td>
<td>327</td>
</tr>
<tr>
<td>A Vinciguerra, S Pensiero, F Parentin, P Perissutti</td>
<td></td>
</tr>
<tr>
<td>A Comparative Study Of Faden (Post Fixation Sutures) Versus Recession Surgery In Esotropia</td>
<td>331</td>
</tr>
<tr>
<td>M El Cherbini, F Attia</td>
<td></td>
</tr>
<tr>
<td>Infantile Onset Esotropia: Evaluation Of Management Outcome</td>
<td>335</td>
</tr>
<tr>
<td>A A El Din, A Rizk</td>
<td></td>
</tr>
<tr>
<td>Prognostic Value Of Primary Inferior Oblique Muscles Overaction</td>
<td>339</td>
</tr>
<tr>
<td>In Refractive Accommodative Esotropia</td>
<td></td>
</tr>
<tr>
<td>C Schiavi, C Bellusci, E Gasparriani, E Campos</td>
<td></td>
</tr>
<tr>
<td>Refractive Surgery Of Accommodative Esotropia: 2 Different Approaches</td>
<td>343</td>
</tr>
<tr>
<td>S Frosini, R Caputo, L Campa, L Frosini, R Frosini</td>
<td></td>
</tr>
<tr>
<td>The Effect Of Laser In Situ Keratomileusis In Accommodative Esotropia</td>
<td>347</td>
</tr>
<tr>
<td>S C Park, C Park</td>
<td></td>
</tr>
<tr>
<td>Dissociated Vertical Deviation: Etiology And Mechanism</td>
<td>353</td>
</tr>
<tr>
<td>D L Guyton, E W Cheeseman, F J Ellis, D Straumann, D S Zee</td>
<td></td>
</tr>
<tr>
<td>Reality Of Vertical Deviation Asymmetry In Early Onset Strabismus:</td>
<td>357</td>
</tr>
</tbody>
</table>
Observation During General Anesthesia As A Predictive Sign
V Paris

The Preventative Management Of DVD In Infantile Esotropia
Y A Cho

Review Of Inverse Knapp Procedure: Indications, Effectiveness And Results
V Maurino, A Kwan, J P Lee

Surgery In Vertical Acquired Nystagmus
A Spielmann, G Aflalo, A C Spielmann

The Efficacy Of Adjustable Suture Technique (AST) In Paediatric Strabismus Surgery
T J Chan, A L Rosenbaum, L Hall

Seprafilm In Repeated Strabismus Surgery To Reduce Surgical Scaring
A A Assaf

New Strabismus Surgery With An Absorbable Jaw Clip To Reduce Suturing Procedures
B M Mion, S Y Kim, J M Yang

Positional Changes Of Reattachment Site After Superior Rectus Recession In Rabbit
J Y Kwon, E H Lee, J P Shin, H C Song
Transactions 9th International Strabismological Association
17-20 April 2002, Sydney, Australia

Introduction Of The 2002 Bielschowsky Lecturer
G Lennerstrand

Where Should Strabismology Be Going? Pearls And Refuse From Our Past
E C Campos

Vision Screening In The Netherlands – Up To Date
V K Lantau, R E Juttmann

Outcomes Of A School Vision Screening Programme
L Wilcox, E Cornell

The Rationale For The UK Amblyopia Treatment Trial
S Richardson, S Hrisos, J Anderson, J Henderson, C Wright, M Clarke

Visual Screening In Sweden. Effectiveness In The Reduction Of Amblyopia And Costs
G Kvarnstrom, P Jakobson, J Dahlgaard

Symposium: Thyroid Associated Ophthalmology
A Boschi, R Fitzsimmons, A Jampolsky, A McNab, A Rosenbaum

Symposium Of Terminology
S Veronneau-Troutman, E C Campos, R Laroche, D T Sprunger, C Dunlop, A Roth, C Souza-Dias

Refractive Surgery And Strabismus: Workshop
L Kowal, J De Faber, C Calcut, S Fawcett

Strabismology Advice For The Refractive Surgeon
J De Faber, M Tjon Fo Sang

Heterotopic Pulleys And Anomalous Head Posture In Comitant Strabismus
J L Demer

Guidelines For Management Of Anomalous Head Posture In Comitant Strabismus
C Schiavi

Primary Monofixation Syndrome In Discordant Monozygotic Twins With Strabismus
T Yagasaki, M Sato, Y Hotta

The Characteristics Of Patients With Chronic Progressive External Ophthalmoplegia (CPEO)
C Richardson, T Smith, A Schaefer, P Griffiths

A Development Of Stereotest Using Luminance Modulation
N Sekimoto, M Mizuno, K Okai, A Akaide, Y Takami, S Asonuma, J Hosohata, S Suyama, H Takada, S Sakai, T Fujikado

Intraoperative Adjustment In Strabismus Surgery
J B Lee, Y H Chang, S H Han

A Case Of Bilateral Congenital Superior Oblique Palsy Developing After Trauma
S Kusuhara, A Kanamori, K Ishibashi, Y Sekiya, A Negi

Crowding Phenomenon With Logmar Based Test
R Kuwahara, Y Mori, H Shirabe, K Ishibashi, Y Sekiya, M Yamamoto

Visual Dysfunction In Children With Reading Problems
D Godts, M Tassignon

Surgical Results Of Acquired Non-Accommodative Esotropia
D T Sprunger, S J Whang, J G Galli

Electrophysiological Differences Between Early And Late Onset Amblyopia
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 For V Pattern
K Monteiro De Carvalho, N Miniguini, L Costa De Araujo, C Crosta

Stabilization Of Postoperative Deviation By Fadenoperation For Exotropia
Y Hatsukawa, M Ishizada, A Nihmi, T Nakao, T Yamagishi

About The Origin Of A Pattern
A Dickmann, M V Stella, A Salerni, C Rendeli, E Salvaggio, M Calderelli, G Savino
Neural Network System And Children’s Strabismus Operation Design
W Xixi, X Yu, D Tajian
Moderate Amblyopia In Children Less Than Seven Years Of Age: Experience Of The Amblyopia Treatment Study I
M X Repka,
The UK Amblyopia Treatment Trial: Visual Acuity And Stereoeacuity Values In Treated And Untreated Unilateral Straight Eyed Amblyopia
M Clarke, S Richardson, S Hrisos, J Anderson, J Anderson, C Wright
Long-Term Visual Outcome In Primary Microtropia
T Matsuo, Y Kawaisha, R Kuroda, H Ohhtsuki, Y Watanabe
Morphological Changes Of The Optic Nerve Head In Albinism Are Frequent And Have Functional And Refractive Implications
B Kassmann-Kellner, K W Ruprecht
Anatomical Differences In Optic Nerve, Chiasm And Optic Tracts In Human Albinism Demonstrated By MRI Evaluation
B Kasmann-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
Lejun Wang, Li Wang, W Xixi, K Zhao
Clinical Tests Of Distance Stereopsis: State Of The Art
J P Frisby, H Davis
Outcome Study Of Stereoeacuity In Relation To Duration Of Misalignment In Congenital Esotropia
M R Ing, L M Okino
Aniseikonia Measured By Hess Chart And New Aniseikonia Tests
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
M Goldchmitt, S Felberg, C M Souza-Dias
Gaze-Related Orbital Pulley Shift: A Novel Cause Of Comitant Strabismus
J L Demer, R Kono, W Wright, S Yeu Oh, R A Clarke
Clinical Findings And Surgical Results Of True And Masquerading Congenital Superior Oblique Palsy
M Sato, E Amino
Effectiveness Of Extraocular Muscle Surgery In Macular Translocation With 360 Degree Retinotomy
T Fujikado, H Shimojyo, J Hosohata, Y Tano
Tenon Capsule Transposition In Cases Of Major Excyclotorsion
A C Spielmann, A Spielmann
Oculomotor Dysfunction In Migraine
S Chowdhury
Botulinum Toxin In Chronic Sixth Nerve Palsy
J M Holmes, D A Leske
Partial Augmented Rectus Extraocular Muscles Transposition
M T Britt, A L Rosenbaum, F G Velez, N Thacker, D Alcorn, R Scott Foster
Modified Hummelsheim Procedure Augmented By Posterior Fixation For 6th Nerve Palsy
A Rizk
I Type Duane’s Retraction Syndrome: Pre And Post Operative Saccades Evaluation
G Savino, D Colucci, S Russo, N Gianfrancesco, D D Nicola, A Dickmann
Predictive Factor For Upshoot And Downshoot In Duane’s Retraction Syndrome
K Mohan, V Saroha, A Sharma
Enlarged Muscle Strabismus
L Kowal, S Cochrane, P Mckelvie, O Bigault
Extraocular Muscle Cysticercosis
K Mohan, V Saroha, S S Pandav, A Sharma
Acquired Orbital Fibrosis
C Souza-Diaz
Extra-Ocular Muscle Limitation In Chronic Progressive External
Ophthalmoplegia (CPEO)
T Smith, C Richardson, A Schaefer, P Griffiths
Ocular Motility Abnormalities In Patients With Blepharophimosis
E Dawson, J Lee, R Collin
Diplopia As A Complication Of Sinus Surgery: A Presentation Of Four Cases
J T H N De Faber, C Kingma-Wilschut, R J Grootendorst, W Visscher
Diplopia In Patients With Orbital Fractures
A T Fenton, M Dirani, Z Georgievski, M A Coote, J Varvarigos
Anderson-Kestenbaum Procedure For Torticollis Secondary To Congenital Nystagmus
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
C Schiavi, C Bellusci, E C Campos
Preliminary Results Of Performing The Tenotomy Procedure On Ten
Adults With Congenital Nystagmus (CN)
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
M K Ibrahim, D T Sprunger, L A Abel, C J Winton, E M Helveston
Acute Esotropia In Heroin Withdrawal
L Kowal, J Mee, S Nadkarni, M Kozmsnysk, S Kalff
Distance Eso Deviation Or Vergence Insufficiency
B Gillies, A Brooks
Cyclic Esotropia: V Pattern And Upshoot In adduction
J W R Pott, D Godts, J T H N De Faber
Oclusion For Early Overcorrection Of Exotropia
E L Raab
Eye Muscles In Different Stages Of Thyroid Associated Orbitopathy:
MRI And Tension Measurements
G Lenerstrand, S Tian, B Isberg, L Tallstedt, R Bolzani, H D Schworm
Orthoptic Findings In Patients With Thyroid Associated Ophthalmopathy
A Rydberg, L Tallstedt, H Dieter Schworm
Botulinum Toxin Treatment Is Helpful In Thyroid Ophthalmopathy:
A 15 Year Australian Review
C Dunlop, D B Dulop, P Dunlop, G Pittar
Nonadjustable Strabismus Surgery For Restrictive Thyroid Eye Disease
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
Helveston E
Changes in strabismus over time: the roles of vergence tonus and muscle length adaptation
Guyton DL

Introduction of the CLADE Lecturer
Shokida F
The laws and rationales of the oculomotor balance
Bicas HEA

Duanes retraction syndrome
Ozkan S
The trochlea
Helveston EM
Torsional surgery
Souza-Dias C
Different techniques for weakening the superior oblique muscle
Goldchmit M
Weakening the four oblique muscles in the treatment of DVD
Garnio S
Inferior oblique marginal myotomy
Illanes MEO
Amblyopia treatment studies – 2006
Repka MX, Holmes JM, Quinn GE, Hertle RW
Causes and outcomes for patients presenting with diplopia to an eye casualty department
Cornes R, Dawson E, Lee J
Ophthalmic nystagmus diagnosis and treatment and differentiation from neurological nystagmus
Hertle R
Non-strabismic esotropias
Repka MX
Modern surgeries for 3rd nerve palsy
Kowal L
Treatment of strabismus fixus with high myopia
Gokytit B, Akar S, Yilmaz OF
Amblyopia in capillary haemangiomas
Jellema HM, Prick W, van der Horst CMAM, Saeed P
The effect of induced anisometropia on stereovision
Davis H, Keating P, Smith R, Frisby J
Fundoscopy in the Dutch orthoptic bachelors course
Kozeis N, Tourvalis E, Gatos A, Kyropoulos A
A new test of visual functional assessment (VFA-K test) for developmentally delayed children
Kozeis N, Saiti P, Felekidis A, Thoidou E, Triantafyllou G
Management of ROP: close monitoring and early cryotherapy leads to favourable results
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
Rydberg A, Holstrom G, Larsson E
Eccentric viewing training – comparing situation and success in Kenya and Germany
Verweyen P
An original approach of microtropic amblyopia: the package
Paris V
Open your eyes for infant screening
Lantau VK, Groenewoud JH, de Koning HJ
Preschool visual screening: the original Belgian approach
Paris V, Cordonnier M, Guit-Neuforge A, Pirard-Gilbert L, Dubru JM, Mauroy MC
Early detection of strabismus with the help of digital pictures
Franceschetti A, Mawas LJ, Vital-Durand F, Diraison MC, Leplat F
Phakic (iris fixated) IOLs for anisometropic myopic amblyopia in children: pilot Study
Igrahim MK, Ibrahim TA, Al Moor OK
The course of intermittent exotropia in a population-based cohort
Mohney B
The comparison of the surgical result between unilateral lateral rectus recession-medial rectus resection and bilateral medial rectus resection in recurrent exotropia
Choy DG, Park HY
Intermittent exotropia: comparative surgical results of lateral recti-recession and monocular recess-resect
Fiorelli VMB, Goldchmidt M, Uesugui CF, Souza-Dias
Palpebral fissure changes after horizontal muscle surgery
Soltan-Sanjari M, Parsa CF, Guyton DL
A new technique of inferior rectus recession operation
Adjustable suture strabismus surgery in infants and children
Sharma M, Bazemore MG, Said HA, Guyton DL
Strabismus surgery learning for ophthalmology residents
Monteiro de Carvalho K, Flores VG, Minguini N, Vieira JC, Temporini ER
Re-recession of the medial rectus muscle in patients with undercorrected esotropia
Marcon GB
Standard strabismus surgery for thyroid related ophthalmopathy
Rotberg L, Sprunger D, Sindhi N, Plager D, Neely D
Surgical audit of double elevator palsy
Moreker S
Drift of ocular alignment following strabismus surgery with adjustable sutures
Isenberg SJ, Abdarbashi P
Suppressed synkinetic blinks accompanying saccades: an apparent artefact in eye movement recording
Timms C, West P
Vergence adaptation under conditions of artificially reduced monocular vision
Davis H, Firth AY
Baclofen for patients with congenital periodic alternating nystagmus
Comer RM, Dawson ELM, Lee JP
Clinical and electrophysiological effects of extraocular muscle surgery on infantile nystagmus syndrome
Hertle RW, Yang D
Superior oblique recession and anterior transposition in management of A-pattern exotropia with superior oblique overaction
Rizk A
The effect of overacting superior oblique muscle tenectomy associated to anterior transposition of inferior oblique muscle in patients with dissociated vertical deviation
Krieger FT, Lambert AC, Alves TCF
Shift of the insertion of the superior oblique muscle by sclera buckling: clinical features and surgery
Spielmann AC
Adjustable superior oblique advancement for bilateral superior oblique palsy
Holmes JM, Leske DA
Strabismus secondary to retinal detachment surgery: mechanisms and treatment
Guemes A
A practical and theoretically optimal surgical approach to Duane syndrome
Parsa CF
Latex glue: a solution for ptosis after botulinum toxin
Simoes B, Knupp S, Silveira T
After-effect of alcohol on binocular vision... or the morning after the night before
Hockley CE, Firth AY
Telemedicine experience with superior oblique palsy
Helveston EM
Ocular motility problems following episcleral plaque brachytherapy
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
Willian 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 11th Bielschowsky lecture
Introduction of the Bielschowsky lecturer: BJ. Kushner 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
AB. Scott
Future therapeutic agents for strabismus
SP. Christiansen

Round table discussion: the expert view of difficult strabismus and amblyopia
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
MX. Repka, JM. Holmes
How to manage convergence insufficiency type intermittent exotropia
JM. Hwang, HK. Yang
Can we operate exotropia with hemianopia?
M. Sato
The role of dynamic retinoscopy
D. Somer
Aphakia – how to correct it?
JTHN. De Faber
Inferior rectus adjustment: a variation
MF. Shokida
A systematic approach to eye muscle surgery in patients with nystagmus
RW. Hertle, L. Kowal
Eye movement recordings and clinical evaluation: how well fo they correlate?
L. Kowal, L. Abel
Evaluation of strabismus and eye movements
DT. Oystreck
Management of patients with congenital fibrosis of the extraocular muscles
El. Traboulsi

Papers
Age related distance esotropia
D. Godts
Response to binocular testing in intermittent exotropia
Binocular stakes in primary exotropia
A. Roth, H. Muhlendyck, M. Bumbacher
The psychological impact of strabismus: does the angle really matter?
AE. Ritchie, P. Colapinto, S. Jain
The contribution of cyber-sight E-consultation as a tool for the evaluation of strabismus
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?
AA. Demirtay, S. Kutluk, G. Bugdayci, G. Kural
Long term results of surgical treatment in Brown’s syndrome
S. Harmanci Karakus, B. Gokyigit, S. Akar, G. Varan, Y. Yildirim, D. Tuzun, A. Demirok, OF. Yilmaz
Duane retraction syndrome – Alexandria 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. Teodosescu, 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
YC. Besselink, PHB. Kok, R. deKinkelder, J. Kalkman, MEJ. Van Velthoven, C. Leach, FD. Verbraak
Evaluation of decompensation of accommodative esotropia 343

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 in cases with infantile esotropia 354
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 medial rectus pulley in purely tonic esotropia 359
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. Kucukevcioglu, 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 esotropia 377
U. Yigit, S. Ozdemir, B. Tugcu, A. Agachan
How is accommodative esotropia managed around the world? An international survey of Orthoptists practice patterns 380
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
Comparison of symmetric and asymmetric operations in the treatment of intermittent exotropia 398
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 and exotropia 406
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 analysis of matched cases
S. Akar, B. Gokyigit, OR. Yilmaz

The impact of prism adaptation test on surgical outcome in patients with primary exotropia
A.Kryak Yilmaz, S. Kose, O. Uretmen

Surgical effectiveness of medial rectus advancement for consecutive exotropia
GB. Marcon, R. Pittino

Surgical outcomes in patients with divergence excess intermittent exotropia
L. Niyaz, H. Gursoy, H. Basmak

Faden operation with conventional surgery on the medial rectus: 6 months results
M. Dogan, B. Gokyigit, S. Akar, OF. Yilmaz

One muscle surgery in small to moderate angle horizontal deviations
N. Sefi Yurdakul

The effectiveness of anterior transposition of inferior oblique muscle for primary superior oblique muscle palsy
B. Gokyigit, D. Alps, S. Akur, H. Altinkaynak, OF. Yilmaz

Surgical treatment of double elevator palsy
B. Gokyigit, S. Akar, PK. Hekimhan, A. Ozturk, Z. Soyuk, V. Kaya, OF. Yilmaz

Asymmetric muscle involvement in CPEO
C. Loong, R. Gokani, H. Armstrong, F. Bremner

Transposition of the lateral rectus muscle for N III palsy
M. Graf, B. Lorenz

Two cases of isolated superior oblique palsy caused by endoscopic sinus surgery

Myectomy versus anterior transposition of the inferior oblique muscle in unilateral superior oblique paresis
FM. Mutlu, B. Eryuruk, FC. Erdurman, HI. Altinsoy

Therapeutic efficacy of botulinum toxin in abducens nerve palsy
F. Braz, S. Silva, R. Fialho, ML. Vieira

Using torsion to assist the diagnosis of bilateral superior oblique palsy
K. Muecke, Z. Georgievski, K. Koklanis

Clinical features and strabismus surgery in mitochondrial myopathies: analysis of 24 patients
A. Armesto, M. Plat, MC. Ugrin, E. Travelletti, H. Iturriaga, E. Nunez, A. Schlaen

Congenital fibrosis of extraocular muscle case series
D. Shawky, M. ElBasha, K. Gaballah

Congenital fibrosis of extraocular muscles: a report of five cases
EN. Cetin, GO. Cetin, S. Ozen, C. Yildirim

Brown syndrome secondary to dog bite (canine tooth syndrome)
E. Comert, U. Beden, D. Erkan

Is Brown syndrome a congenital cranial dysinnervation disorder?
M. Flaherty, J. Smith

Yokoyama’s procedure for correcting globe dislocation in highly myopic strabismus
S. Akar, B. Gokyigit, P. Kaynak Hekimhan, A. Demirok, OF. Yilmaz

A case of myopic strabismus fixus with increased intraocular pressure
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
B. Kaczmarek, E. Wojcik
Combined mechanisms of restriction in strabismus after retinal detachment surgery

A. Arnesto
Use of botulinum toxin type A in type I Duane retraction syndrome

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 ocular alignment in patients with unilateral Duane syndrome

A. Medghalchi, M. Mohhammadi, 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
Modified Y-splitting procedure in Duane retraction syndrome

AG. Kocak Altintas, HB. Arifoglu, C. Can, S. Polat, G. Koklu
Pseudo-Duane’s retraction syndrome secondary to orbital trauma: case report

A. Pelit
Symmetrical surgery in type I Duane’s syndrome

H. Gursoy, H. Basmak, AI. Cakmak, L. Niyaz
Clinical features and surgical outcomes of Turkish patients with Duane retraction syndrome

OM. Ceylan, G. Gokce, A. Turk, FM. Mutlu, HI. Altinsoy
Ocular manifestations in children with mental retardation

A. Yaman, M. Parlak, AT. Berk
Ocular motility improvement in Crouson syndrome after neurosurgical intervention without strabismic operation

B. Tugcu, O. Orum, S. Zrylan, H. Camuscu, E. Hocaoglu
Ocular alignment and surgical results of strabismus in neurologically impaired patients

CU. Can, S. Polat, M. Yasar, B. Ilhan, AG. Kocak-Altintas
Scleroderma and eye motility disorders

E. de Jongh, FJ. Hordijk-Noordhuizen, M. Tjon-Fo-Sang, RLJ. Van Ruyven, JTHN. De Faber
Strabismus in retinopathy of prematurity

FS. Kosen, H. Atilla, F. Batioglu
Strabismus in pediatric cataract

NS. Yurdakul
Strabismus in congenital cataract

O. Uretmen, DI. Bozbiytik, S. Kose
Ophthalmic outcome of preterm and low birth weight infants

SK. Pocan, O. Uretmen, C. Sahbazov, S. Kose, S. Nalcaci, ET. Erakgun, J. Mentes
Internal ophthalmoplegia after inferior oblique myectomy: a report of three cases

C. Yildirim, EN. Cetin, M. Acar, F. Yaldrzkaya
Severe complications of strabismus surgery: British Ophthalmic Surveillance Unit: 6 months outcome

JA. Bradbury, RH. Taylor
Management of lost medial rectus muscle during strabismus surgery

HI. Altinsoy, OM. Ceylan, G. Gokce, FM. Mutlu
Influence of subtenon Bupivacaine injection on oculocardiac reflex in strabismus surgery
H. Basmak, H. Gursoy, B. Yelken, Y. Isildi
Use of the Cogan lid twitch to identify myasthenia gravis 576
NS. Matta, EL. Singman, DI. Silbert
Vertical nystagmus lesion of neural integrator 579
S. Moguel
Reading impairment following stroke: ocular and non ocular causes 584
FJ. Rowe
Prevalence of cranial nerve palsy and associations following stroke 589
FJ. Rowe
Longterm results of the unilateral inferior oblique myectomy 594
G. Soyugelen, S. Demirel, N. Onursever, O. Ilhan-Sarac, B. Bostanci-eran, 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. Tyryaki, 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. Bilgic, 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

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
Jan Tjeerde de Faber

2 THE 12th BIELSCHOWSKY LECTURE
Introduction of the Bielschowsky Lecturer: Tsuranu Yokoyama
Miho Sato
Myopic Strabismus: A Surgical Strategy Derived from Pathophysiological Imaging Studies
Tsuranu Yokoyama

3 SYMPOSIA
Amblyopia Management 2015
Chairs: M.X. Repka, G.A. Gole
PEDIG Amblyopia Treatment Trials: Surprising and Recent Findings
M.X. Repka, (on behalf of the Pediatric Eye Disease Investigator Group)
New Treatments for Amblyopia and Future Trials
J.M. Holmes

Picturing the Neuromuscular Causes of Strabismus
Chairs: T. Yokoyama, J.L. Demer
Extraocular Muscles: Not The Sums of Their Parts
J.L. Demer
The Nerve of that Muscle! Imaging the Cranial Nerves
J.M. Hwang
MRI Quantifies Inflammation in Thyroid Ophthalmopathy
Y. Nishida

Results beyond the Angle: Functional Outcomes of Strabismus Surgery
Chairs: J.J. Sloper, A.D. Molinari
Measuring Outcomes in Intermittent Exotropia
J.J. Sloper
Easing the Strabismus Surgery Experience
A. Molinari
How Stable is the Functional Cure in Congenital Esotropia
M.R. Ing

IOA Symposium: Ophthalmic Prisms from Diagnosis to Therapy
Chairs: G. Stephenson, K. McMain
Ophthalmic Prisms from Diagnosis to Therapy
D.J.M. Godts
Orthoptic prisms – calibration and true values
B. Wahl, K. Bendzmierowski, R. Heins, G. Waeselmann
Vergence Adaptation
H. Davis
Sensory and Motor Connections in Intermittent Exotropia
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
Panels 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
L.R. Dagi, and D.G. Hunter

Brown Syndrome
S.B. Özkan

Strabismus Following Orbital Trauma
J.M. Holmes

“Botulinum Toxin in Pediatric Strabismus”
Chair: S.B. Özkan
Botulinum Toxin Administration Techniques in Children
G.G.W. Adams
The Use of Botulinum Toxin in Infantile Esotropia
D.A. Thouvenin
BT in Small Angle Esotropia
R. Gomez de Liaño

6 PAPERS
Section 1: “Amblyopia and Epidemiology”
Asymmetrical Accommodation in Anisometropic Amblyopia
S. Toor, A. Horwood, P. Riddell
Effectiveness of Using GABA-Ergic Medications in Complex Treatment of Amblyopia in Children.
I.M. Kuzhda, O.M. Pityk
Prevalence of Symptomatic Non-Strabismic Binocular Problems in US and Japan Schools
M.K. Powers, Y. Morita
Views of Patients on Impact of Eye Movement Disorders
F.J. Rowe

Section 2: “Binocularity and Diagnosis”
Intercortical Visual Transfer in Human Binocularity
M.P.M. ten Tusscher, P. Van Schuerbeek
Management and Outcomes of Pseudostrabismus
M.D. Mills, M.M. Wong, J. Huang, G.S. Ying, G. Binenbaum
Heterophoria, Fusional Amplitudes and Stereoaucuity in School Aged Children
C. Lança
Candidate Genes for Strabismus Susceptibility Chromosomal Loci
T. Matsuou
Unmasking Bilateral Inferior Rectus Restriction Using Degree of Cyclotropia
K. Arnoldi, J.D. Reynolds

Section 3: “Magnetic Resonance Imaging”
Magnetic Resonance Imaging Demonstrates Novel Compartmental Mechanisms of Vertical Fusional Vergence
J.L. Demer, R.A. Clark
Magnetic Resonance Imaging Findings in Infantile Esotropia with and without Consecutive Exotropia
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.
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
Y. Sato, T. Hiraoka, T. Oshika
Electrical Stimulation of Nerves to the Levator and Oculorotary Muscles
A.B. Scott, J.M. Miller, K.K. Danh
Role of Botulinum Toxin A in Treatment of Intractable Diplopia
S.B. Özkan, I.A. Ünsal

Section 5: “Surgical Technique”
Surgery without an Assistant: Tricks and Tips
A.C. Spielmann
Graded Vertical Rectus Tenotomy in Small Angle Hypertropia
Z. Chaudhuri, J.L. Demer
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
J. Blohmé, R.L. Thorisdottir, L. Gränse, G. Stigmar
Vertical Rectus Muscle Transposition with Resections for Complete Unilateral Sixth Nerve (Abducens) Palsy
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
A.L. Armesto, M.C. Ugrin, E. Travelletti, B.A. Schlaen
The Marginal Myotomy of the Inferior Oblique Muscle at the N. Trochlearis Paresis
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
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)
Characteristics and Surgical Outcome of Consecutive Exotropia with Different Etiologies
M. Sawada, A. Hikoya, T. Negishi, Y. Hotta, M. Sato
Prospective Evaluation of Dose-Effect Relationship of Medial Rectus Advancement in Consecutive Exotropia
G.B. Marcon, R. Pittino
7 POSTERS

Poster Section 1: “Amblyopia”
The Pattern of Improvement in Visual Acuity During Amblyopia Therapy
M. Shioya, N. Ogino
Dependence of Visual Fixation Stability on Retinal Light Sensitivity in Patients with Amblyopia of Various Degrees
M. Kashchenko, E. Antonova, M. Magaramova, G. Kachalina, E. Pedanova
Congenital Nasolacrimal Duct Obstruction as a Risk Factor for Anisometropia
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
Amblyopia and Unilateral Congenital Glaucoma
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
A. H. Wang
Influence of Test Distance on Stereoacuity in Intermittent Exotropia
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
H. Kanda, H. Nagatani, T. Fujikado
Recovery of Binocular Vision by Dissociation of Accommodation and Convergence Using Laser Speckles
A. Bazarbaeva, T. Kashchenko, T. Kornyushina, M. Magaramova, R. Katsanashvili
Testing the Feasibility of A New Visual Acuity Test for Infants Using An Eye Tracking System.
A. Ohno-Tanaka, E. Noda

Poster Section 3: “Examination Methods”
Evaluation of Refraction in Children with Hyperopia Using the PlusoptiX A09 Device
T.A. Korniushina, Magaramova, A.K. Abdulsadykova
Efficacy of the Infrared Photograph with a Selective Wavelength Filter for Detecting Esotropia in Young Children
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
M. Mihara, K. Kakeue, K. Fujita, R. Tamura, A. Hayashi
The Analysis of Gaze Position in Reading by Using High Speed Video Oculography
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?
M.P. Flaherty, R.V. Jamieson
Relationship Between the Trochlear Nerve Diameter and Superior Oblique Muscle Volume
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
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
Z. Chaudhuri, J.L. Demer

Poster Section 4: “Neuro-Ophthalmology”
Does My Patient Really have “Congenital” Nystagmus?
G. Holmström, M.L. Bondeson, U. Eriksson, H. Åkerblom, E. Larsson
Strabismus in West Syndrome
Z. Chaudhuri, S. Madan, R. Jain
How Brain Pathology may Cause Infantile Strabismus
M.P.M. ten Tusscher
Ophthalmological Features of 43 Patients After Functional Hemispherectomy
F. Audren, C. Bulteau, M. Fohlen, G. Dorfmüller, O. Delalande
“Pain and Double Vision” A Description and Discussion of the Clinical Features of Some Recent Cases Presenting with Painful Ophthalmoplegia
C. Loong, R. Scheimann, H. Armstrong, F. Bremner
Convergence and Accommodation Development Relate to Corrected Age in Premature Infants
A.M. Horwood, S.S. Toor, P.M. Riddell
Isolated Third Nerve Palsy Following Coronary Angiography
S. Akar, B. Gökyiğit, E.D. Aygıt, S.A. Bayar, S. Oto, Ö.F. Yılmaz
Diplopia and Ptosis Experienced Whilst on Royal Duty!
H. Armstrong, C. Loong, F. Bremner
When Less is More
C.H.Y. Lai, J.C.C. Yeung
A Case of Craniopharyngioma Presenting with Monocular Vertical Nystagmus.
A.M. Mackay
A Case of Ophthalmoplegic Migraine at 38 Years After Onset
Y. Shimizu, H. Tabuchi, S. Asayama, O. Mimura
Ophthalmic Artery Aneurysm Presenting as Ipsilateral Trochlear Nerve Paresis
T.H. Tsai, H.C. Lin
Transitory Consecutive Esotropia After Amitriptyline Treatment for Nocturnal Enuresis-Case Report
D.E. Cioplean
Clinical Features of Oculomotor Disorders and Nystagmus Among Children Presenting Congenital Glaucoma
D. Denis, A. Aziz, L. Sauvan, O. Fakhoury, E. Pieri, F. Matonti
Epibulbar Osseous Choristoma Found During Strabismus Surgery
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
Horizontal Strabismus-Outcome of 596 Cases in IIEI&H, Dhaka, Bangladesh.
Survey of Strabismus Surgeries in Japan
S. Nishina, A. Miki, A. Wakayama, T. Yagasaki, T. Fujikado
Clinical Spectrum and Management of 582 Cases of Duane Retraction Syndrome

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
C. Chakraborty
Long-Term Postoperative Course of Vertical Strabismus in Children
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
D.E. Cioplean
A New Approach to Inferior Oblique Over Action (IOOA) without Cyclotorsion.
Absence of Superior Oblique Tendon in Congenital Superior Oblique Palsy: What Kind of Surgery?
N. Gravier
Effects of Bilateral Inferior Oblique Myectomy in V-Pattern Exotropia with Oblique Dysfunction
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
A.E. Bahadır-Kılavuzoğlu, B. Gökyiğit, E.D. Aygıt
“Surgical Outcome of Graded Y split in Patients with Duane’s Retraction Syndrome”
S. Chandramouli, K. Narendran
Surgical Results of Temporal Transposition of Superior Rectus Muscle in Duane’s Retraction Syndrome and Lateral Rectus Palsy
S. Chandramouli, K.Narendran
Lateral Rectus Recession with a Y-split of the Recessed Lateral Rectus in Duane’s Retraction Syndrome Type III (Exotropic)
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
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
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
Long Term Results of ‘Gokyigıt’s Split Lateral Rectus Transposition to Medial Rectus Area’ Operation for Complete Third Nerve Palsy 560
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. Gökyıgit, S. Akar, E. D. Aygıt, A. Demirok
Long Term Results of Deeper Muscle Fibers Recession of Inferior Rectus Operation 574
B. Gökıyıgit, 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
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Displaced Lateral Rectus and Superior Rectus Paths in Myopic Strabismus Fixus</td>
<td>600</td>
</tr>
<tr>
<td>K.-E. Ra (C.-Y. Lo)</td>
<td></td>
</tr>
<tr>
<td>Five Cases of Acute Acquired Concomitant Esotropia Associated with Myopia: Prism Adaptation Test and Surgical Planning</td>
<td>605</td>
</tr>
<tr>
<td>N. Nishikawa, H. Ito, S. Ishiko, A. Yoshida</td>
<td></td>
</tr>
<tr>
<td>Stepwise Adjustment for Congenital Nystagmus with Anomalous Head Posture and Strabismus</td>
<td>610</td>
</tr>
<tr>
<td>C.B. Tsai</td>
<td></td>
</tr>
<tr>
<td>Clinical Results and Sides Effects on 25 Cases of Incobotulinum Toxin A (Xeomin) Injection in Congenital and Acquired Strabismus</td>
<td>613</td>
</tr>
<tr>
<td>A. Aziz, F. Matonti, O. Fakhoury, D. Denis</td>
<td></td>
</tr>
<tr>
<td>Stepwise Adjustment for Congenital Nystagmus with Anomalous Head Posture and Strabismus</td>
<td>610</td>
</tr>
<tr>
<td>C.B. Tsai</td>
<td></td>
</tr>
<tr>
<td>Clinical Results and Sides Effects on 25 Cases of Incobotulinum Toxin A (Xeomin) Injection in Congenital and Acquired Strabismus</td>
<td>613</td>
</tr>
<tr>
<td>A. Aziz, F. Matonti, O. Fakhoury, D. Denis</td>
<td></td>
</tr>
<tr>
<td>Comparison of Ocular Response Analyzer Results Before and After Strabismus Operations</td>
<td>616</td>
</tr>
<tr>
<td>Surgical Outcomes of Strabismus with Microphthalmia</td>
<td>619</td>
</tr>
<tr>
<td>T. Uemura, S. Nishina, T. Yokoi, Y. Nakayama, M. Yagihashi, K. Manzoku, S. Akaike, S. Ogonuki, N. Azuma</td>
<td></td>
</tr>
</tbody>
</table>
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
D L Guyton

Introduction of the Bielschowsky Lecturer: Anna Horwood
S Kraft

Accommodation and Convergence- Rations, Linkages, Styles and Mental Somersaults
A M Horwood

Re-Operation Stratagies in Strabismus: The First Art Jampolsky Lecture
B J Kushner

Six Pearls for Treatment of the 6th Nerve Palsy
JTHN de Faber

New Approaches to Third Nerve Palsy
M Goldchmit, MD

Superior Oblique Advancement On Adjustable Sutures
J M Holmes

Can We Correct Torsion With Ir Surgery
M Sato

Significance of Compartmentalisation in Extraocular Muscle Palsies
J Demer

Current Perspectives on Congenital Cranial Dysinnervation Disorders
E I Traboulsi, M D, M Ed

Cfeom-Pearls for Management
A O Khan

Treatment Guidelines in Typical Forms of Duane Syndrome
G G W Adams

What to do in Atypical Duane Syndrome
S B Özkan

Management of Consecutive Extropia
L Lindberg

Traction Tests to Evaluate Tight Inferior Oblique
R Gomez de Liaño MD, E Hernandez Garcia MD

The Role of Orbital MRI in Patients with Strange Strabismus Patterns
G B Marcon MD, R Pittino MD, N Martini MD

Contribution of Examination Under Anesthesia to Decision Making in Strabismus Surgery
D A Thouvenin

The Effect of Suture Adjustment on Surgical Outcomes in Adults with Symptomatic Intermittent Exotropia
J J Sloper, N Raoof

Dichoptic Training and Video Games in the Treatment of Amblyopia: Fantasy or [Virtual] Reality?
L Colpa O C

Benfits. Barriers and Understanding: The Importance of Spectacle Wear in Young Children
A Bruce

Newer Signatures for Evidence Based Evaluation in Strabismus: Imaging and Genetics
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 Stures in Strabismus Surgery Allows the Effect of Surgery to be Evaluated in Real Time Up to 7 days 137

C S Loenkivist MD, T Torp-Pedersen, MD, PhD, J P Saunte MD
Microcatheter-assisted trabeculotomy versus two-site tredeculeotomy 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 Ogouniki, 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 Congntinal Optic Disc Anomaly 157

H Y Choi, MD, PhD, H Jeon, MD
Whole exome sequencing in familial primary comitant exotropia 161

Z Chauchuri, 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
H Davis, D Buckley

New Developed Four Light Test Mobile Application
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

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

Binocularity after Strabismus Surgery in Adult Patients
H Atill, P Bingöl-Kızıltunc

Normal Range of Ocular Dections in Various Age Brackets by Prism Shifting Light-Reflex Test
W Honglertnapakul, P Praneeprachachon, P Pukrushpan

Horizontal saccadic velocity in atients with exotropia before and after strabismus surgery
M Mihara, A Hayashi, K Fujita, K Kakeue, R Tamura

Correlation of Diplopia and Quality of Life in Patients with Graves Orbithopathy

Strabismus sursoadductorius or IV nerv pulsay: similar clinical picture, different MR imaging features
G B Marcon, R Pittino, N Martini

A Quantitative Oblique Traction Test: Clinical Applications
S P Kraft, A J Connor

The importance of the Orthoptist in the treatment of neurological acquired binocular diplopia
S Polychroniadis-Scouros, DBO, D, C F Freeman, DBO, T

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

Comparison of Three Contrast Sensitivity Tests
A M I Palmowski-Wolfe, K Ulrich

A Comparative Study of Vicryl Sutures 6-0 and 7-0 Strength Capacity for Strabismus Surgery
I E Azaauryan, A A Shpak, V O Balasanyan, E A Kudryashova

Role of Botulinum Toxin A in Cyclic Esotropia- A Long Term Follow Up
A I A Uns, S B Özkan, S Ziylan

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

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

A New Approach to Treat Esotropia in Patients with Large V-Pattern
M S Abdelhafiez, MD, FRCS

Lateral rectus resection in type 1 Duane Retraction Syndrome (DRS)
S Celik, A Inal, O B Ocak, E D Aygit, A Demirok, B Gokyigit

Fascia Lata Augmented Nasal Transposition of Split Lateral Rectus for
Reoperation of Complete Third Nerve Palsy
CB Tsai, MD, PhD

An Easy and Safe Operation Technique for Monocular Elevation Deficiency (MED)
B Gokyigit, S Celik, A Inal, E D Aygit, O B Ocak

Induced Hypertrophy of Extraocular Muscles after the Administration of Synthetic Peptides into Them
I L Plisov, N G Antsiferova

Primary Bilateral Medical Rectus Resections in Large Angle Childhood Exotropia
C S Ronconi, B L Ducca, D C Issaho, D R Weakley

Recognizing Bradyopia in Children
A O Khan

A Phase 2, Randomised, Controlled Trail of Providone-Iodine/Dexamethasone Ophthalmic 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-Claw Lens Fixation for Aphakia without Capsular support in Children

Visual Function Assessment in Children with Congenital Zika Virus Infection
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
N M Mettias, Z El Sanabary, Y El Sayed, A Esmael

Topical Cyclosporine-A in Pediatric Severe Dry Eye Associated with Ocular Graft Versus Host Disease
P Bingol-Kiziltunc, T Celik, N Yalcindag, M Ertem, E İnce, H Atilla