

Child Vision
RESEARCH
SOCIETY

Thursday 3 – Saturday 5 June 1999

DAY 1 - Thursday 3 June 1999

- 9.00 REGISTRATION AND COFFEE
- 10.15 Welcome to CVRS at the Institute of Child Health '99
Chris Harris
- 10.30 **Invited Lecture**
"The next 10 years of child vision - a personal view"
Professor J. Atkinson

Session 1 : Development I. Chaired by Janette Atkinson

- 11.30 Spatial and temporal expression of proteins involved in outer segment and synapse formation in human and monkey cones
A. Hendrickson
- 11.45 Form and motion coherence: measures of ventral vs dorsal stream development?
O. Braddick
- 12.00 Infants' reaching and looking preferences for objects varying in size and visual pattern: a cross sectional and longitudinal study
C. Newman
- 12.15 Up/down motion biases at and above threshold in infants
J. Wattam-Bell
- 12.30 LUNCH & POSTER SET UP

Session 2 : Development II. Chaired by Oliver Braddick

- 14.00 Visual input induces rapid improvement in infants' acuity
D. Maurer
- 14.15 Illusory contour perception in infants
W. Curran
- 14.30 Motion asymmetry in normal and visually deprived infant monkeys
R. G. Boothe
- 14.45 Development of responses to prism deviation in human infants
A. Horwood (replacing P.M. Riddell)
- 15.00 Relationships between stereopsis and cognitive abilities in children up to the age of 4 years
C. Williams
- 15.15 Modeling language development in sighted, visually impaired and blind children
A. Peltzer-Karpf
- 15.30 Development of the ability to recognize incomplete contour pictures in 7-12 - year - old children
M. E. Bernadskaya
- 15.45 TEA

Session 3 : Emmetropization. Chaired by Richard Held

- 16.15 Does optical correction alter the progress of myopia ?
R.Held
- 16.30 Binocular manipulations of visual input suggest an interocular influence in the regulation of emmetropization
D.V.Bradley
- 16.45 The influence of aphakia or pseudophakia on the growth of the axial length in children.
B.M.Rossillion
- 17.00 Emmetropization delay after optical correction in infancy
M.R.Angi
- 17.15 The failure of emmetropisation and the prevalence of strabismus in Down's syndrome
M.Cregg
- 17.30 *Reception at the Institute of Child Health*

DAY 2 - Friday 4 June 1999

- 9.00 **Invited Lecture**
The genetics of early onset visual disorders
Mr A.T.Moore

Session 4 : Genetics. Chaired by Tony Moore

- 10.00 Clinical and genetic heterogeneity of non-syndromic autosomal dominant cataract (ADCC)
P.J.Francis
- 10.15 A spectrum of chiasmal hypoplasia
D.Thompson
- 10.30 COFFEE
- 11.00 Clinico-pathologic correlation of congenital corneal opacification using high frequency ultrasound
K.Nischal
- 11.15 Myopia and congenital heart defects in Down's syndrome
N.R.Bromham

Session 5 : Refraction. Chaired by Dorothy Tompson

- 11.30 Evaluation of a hand held autorefractor and its potential for screening a paediatric population
K.Cass

- 11.45 Measurement of refractive error with a prototype vision screener
P.Schmidt
- 12.00 Cognitive follow-up of infant refractive screening
S.Anker
- 12.15 Use of the Welch-Allyn pediatric autorefractor to detect astigmatism in native American preschool children
J.Miller
- 12.30 LUNCH & ODD NUMBERED POSTERS

Session 6 : Eye Movements I. Chaired by Chris Harris

- 14.00 Extraocular muscle toxic paralysis induced with Botulinum A and its recovery; rat ocular medial rectus experimental study
B.Stirn Kranjc
- 14.15 Yoking of vertical saccades in young children
M.P.Bucci
- 14.30 Developmental changes of OKN asymmetry in infants with damage of one cerebral hemisphere
G.Cioni
- 14.45 Comparison between cognitive and non-cognitive stimuli in the evaluation of visual pursuit development in infants
C.Pieb
- 15.00 A demographic and socioeconomic study of patients with spasmus nutans vs infantile nystagmus
I.Gottlob
- 15.15 TEA

Session 7 : Eye Movements II. Chaired by Richard Abadi

- 15.45 Support for the saccadic flight time minimisation hypothesis
C.M.Harris
- 16.00 Infantile cataracts and fixation stability
J.E.Gage
- 16.15 Clinical and ocular motor analysis of congenital nystagmus in infancy
R.W.Hertle
- 16.30 Outcome of children presenting with congenital vertical and asymmetric nystagmus
F.Shawkat
- 16.45 Abnormal vertical optokinetic nystagmus - preliminary findings.
S.Garbutt
- 17.00 *Business Meeting*

DAY 3 - Saturday 5 June 1999

- 9.00 **Invited Lecture**
Vision in Down's syndrome: past, present and future
Dr. Margaret Woodhouse

Session 8 : Assessment. Chaired by Margaret Woodhouse

- 10.00 Differences in VEP acuity scores and teller acuity scores in
pediatric referrals for visual acuity assessment
C.A. Westall
- 10.15 The abnormal looking behavior toward upright and upside-down
faces in autistic children
J.N. van der Geest
- 10.30 COFFEE
- 11.00 Electrophysiological correlates of visual discrimination in children
R.M. Henderson
- 11.15 Visual assessment in multiply handicapped children
I. Bachert
- 11.30 Contour interaction effects in observers with normal vision using
the LEA symbols chart
J. Siderov
- 11.45 Selective damage to vernier acuity responses in children with
cortical visual impairment
A.M. Skoczinski
- 12.00 Accommodation in children with Down's syndrome : the effect
of cognitive factors
H.L. Gunter

Session 1 (continued from Day 1) : Development

- 12.15 The perception of two-dimensional depictions of three
dimensional objects in infancy.
M.J. Kavšek
- 12.30 LUNCH AND EVEN NUMBERED POSTERS

Session 9 : Clinical I. Chairperson to be announced

- 14.00 Refractive changes after pediatric cataract surgery with and
without intraocular lens implantation in infants and children
A.A. Zubcov
- 14.15 Neuroimaging in children with congenital disorders of the
peripheral visual system
M. Waugh

- 14.30 Visual detection and pursuit in periventricular leukomalacia impairment and development
I.F.Porton-Deterne
- 14.45 Visual outcome of premature birth
A.R.O'Connor
- 15.00 Early visual field defects in Stargardt's macular dystrophy: Fundus perimetric examination with the scanning laser ophthalmoscope
O.Ehrt
- 15.15 Visual attention in developmental dyslexia
C.I.Goebel
- 15.30 TEA

Session 10 : Clinical II. Chaired by Patricia Sonksen

- 16.00 Telemedicine - a tool for ROP research
A.Tandon
- 16.15 Measuring treatment compliance in amblyopia patching
H.J.Simonsz
- 16.30 Visual development in children with hemiplegic cerebral palsy
A.Guzzetta
- 16.45 Prevalence of visual perceptual impairments in a random sample of children with physical disabilities
P.Stiers
- 17.00 Accommodation deficits in children with cerebral palsy
R.T.Mackie
- 17.15 Non-verbal intelligence measures are unaffected by visual perceptual impairments in neonatal at risk children
E.Vandenbussche
- 19:30 *Social Dinner at London House*

POSTER PRESENTATIONS

- 1 Twins with different visual status: what differences can we observe in their development from 1 to 2?
I.V.Blinnikova
- 2 Evaluation of a VEP grating acuity measure in children with cortical visual impairment
W.V.Good
- 3 Twins with different visual status: what differences can we observe in their development from 0 to 1?
E.A.Sergienko
- 4 A sign of delayed retinal maturity ?
C.M.Panton
- 5 Does spectacle wear influence infant emmetropization ?
D.L.Ebrlich
- 6 The prevention of amblyopia in early onset strabismus
Dr.C.Vladutiu
- 7 Saccadic programming in congenital nystagmus
M.R.Harwood
- 8 Visual problems after acquired brain damage in children: treatment and rehabilitation
H.J.M.Verbunt-Brattinga
- 9 Development of smooth pursuit eye movements in 3- to 5-year-old children
Y.B.Shavit
- 10 Transorbital optic nerve sheath ultrasonography as a diagnostic tool in children suspected of having raised intracranial pressure
W.D.Newman
- 11 Neural network modelling of the development of accommodation and vergence.
P.M.Riddell
- 12 Poster withdrawn
- 13 Free-space accommodative response and minus lens-induced accommodative response in pre-school children
A.H.Chen
- 14 Stereoacuity measurements in small angle strabismics
P. Schmidt
- 15 Video-based recording of the pupil light reflex in preterm infants
K.D.Cocker
- 16 Role of perceptual training in visual cognition of children with severe visual disorders
L.P.Grigorieva
- 17 Slow saccades in merosin-negative patients with congenital muscular dystrophy
L.E.Mezey
- 18 Visual information role in developmental praxic skills
S.Zoia

- 19 The development of linkage between gaze and hand movement
in 3 to 6 month old infants
I.Carbon
- 20 Towards an assessment schedule for social and communicative
development for young visually impaired children
N.Dale
- 21 The development of reaching and looking preferences
in infants for objects of different sizes
C.Newman
- 22 Effect of spectacle wear on the visual acuity of amblyopic
children
M.J.Moseley
- 23 Eye movements in type-1 and type-3 Gaucher disease
D.Lengyel
- 24 The value of combined ERG/VEP recording in visual testing
of children with mucopolysaccharidosis
A.Kriss
- 25 Myopia development in form-deprived eyes of adolescent
rhesus monkeys
A.Fernandes
- 26 The prevalence of eye problems among school children
in London inner city schools - a study using the city vision
screener for schools
D.Thomson