



British Society of Neuro-Otology
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THE 10TH MEETING OF THE BRITISH SOCIETY OF NEURO-OTOLOGY

FRIDAY 9 OCTOBER 2015

10th Floor Lecture Theatre, Laboratory Block, Imperial College London
St Dunstan's Road, Charing Cross Hospital Campus, London W6 8RF

PROGRAMME

- 08.45-09.15 Registration and welcome
- 09.15-10.00 Keynote Guest lecture:
Multisensory Vestibular Cortex in Humans
Professor Olaf Blanke
Department of Neurology, University of Geneva, Switzerland
- 10.00-11.00 FREE PAPERS - SESSION 1 Chair: Professor Adolfo Bronstein
- 10.00 - 10.15 MELAS Syndrome with Progressive Deafness – Managing Complex Communication Issues
Jonathan Donnelly, *J G McElroy*
Department of General Internal Medicine, Altangelvin Hospital, Londonderry
- 10.15 - 10.30 Motor Performance and vestibular function in children diagnosed with congenital cytomegalovirus (cCMV) infection or connexin 26 (Cx26) mutation
Leen Maes¹, *Alexandra De Kege*^{2,3}, *Hilde Van Waelvelde*², *Els De Leenheer*^{3,4}, *Helen Van Hoecke*^{3,4}, *Ingeborg Dhooge*^{3,4}
¹ Faculty of Medicine and Health Sciences, Department of Speech, Language and Hearing Sciences, Ghent University, Ghent, Belgium.
² Faculty of Medicine and Health Sciences, Department of Rehabilitation Sciences and Physiotherapy, Ghent University, Ghent, Belgium
³ Department of Otorhinolaryngology, University Hospital Ghent, Ghent, Belgium
⁴ Faculty of Medicine and Health Sciences, Department of Otorhinolaryngology, Ghent University, Belgium
- 10.30 - 10.45 Are White Matter Abnormalities associated with "Unexplained Dizziness"?
Hena Ahmad^{*1}, *Niccolò Cerchiai*^{*2}, *Michelangelo Mancuso*², *Augusto P Casan*², *Adolfo M Bronstein*¹
**both authors contributed equally*
¹ Academic Department of Neuro-Otology, Division of Brain Sciences, Imperial College London, Charing Cross Hospital, London, UK
² Department of Medical and Surgical Pathology, Otorhinolaryngology Unit, Pisa University Hospital, Pisa, Italy
- 10.45 - 11.00 Multisensory conflict is associated with activity in posterior insular cortex
R E Roberts¹, *H Ahmad*¹, *Q Arshad*¹, *M Patel*¹, *D Dima*³, *R Leech*², *B M Seemunga*¹, *D J Sharp*², *A M Bronstein*¹
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Imperial College London, Hammersmith Hospital, London UK

³ Social, Genetic and Developmental Psychiatry, Institute of Psychiatry, Psychology and Neuroscience, King's College London, London UK

11.00 - 11.30 Coffee and Poster Viewing

11.30 - 12.30 FREE PAPERS - SESSION 2

Chair: Dr Katherine Harrop-Griffiths

11.30 - 11.45 Comparison of different electrode configurations for the oVEMP with bone-conducted vibration
Robby Vanspauwen¹, Floris L Wuyts², Stefanie Krijger³, Leen K Maes⁴

¹ ENT Department, Sint-Augustinus Hospital Antwerp, European Institute for ORL-HNS, Antwerp, Belgium

² Antwerp University Research Center for Equilibrium and Aerospace (AUREA), ENT Department, University Hospital Antwerp, Antwerp, Belgium

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⁴ Faculty of Medicine and Health Sciences, Department of Speech, Language and Hearing Sciences, Ghent University, Ghent, Belgium

11.45 - 12.00 Comparisons between caloric testing, rotating chair, head impulse and peripheral posturography tests after acute unilateral peripheral loss: Dependence on recovery and central compensation

John H Allum, Alja Scheltinga, Flurin Honegger

Division of Audiology and Neurootology, Department of ORL, University Hospital of Basel, Switzerland

12.00 - 12.15 VOR Gain in the Abducting versus Adducting Eye during vHIT: a Tale of Two Cameras

Joel Goebel, Allison Sargent, Belinda Sinks

Dizziness and Balance Center, Department of Otolaryngology-Head and Neck Surgery, Washington University School of Medicine, Saint Louis, Missouri, USA

12.15 - 12.30 Visuo-Cortical Adaptivity in Bilateral Vestibular Failure

Hena Ahmad, Ed Roberts, Qadeer Arshad, Mitesh Patel, Barry Seemungal, Adolfo Bronstein

Neuro-Otology Unit, Division of Brain Sciences, Imperial College London, Charing Cross Hospital, London UK

12.30 - 13.30 Lunch and Poster Viewing

13.30-14.30 FREE PAPERS - SESSION 3

Chair: Mr Peter Savundra

13.30-13.45 Living with Meniere's disease: Understanding Patient Experiences of Mental Health and Wellbeing

Sarah Bell, Jessica Tyrrell, Cassandra Phoenix

European Centre for Environment and Human Health, University of Exeter Medical School, Knowledge Spa, Treliske, Truro TR1 3HD, UK

13.45-14.00 A Survey of Physiotherapists' Current Management of Benign Paroxysmal Postional Vertigo (BPPV) in the United Kingdom (UK)

A J Male^{1,2}, I D Beith¹, R A Davies³, R Grant¹

¹ Faculty of Health, Social Care and Education, Kingston University and St George's University of London, London, UK

² Therapy Services, National Hospital for Neurology and Neurosurgery, Queen Square, London, UK

³ Department of Neuro-Otology, National Hospital for Neurology and Neurosurgery, Queen Square, London, UK

14.00-14.15 Diagnosis and Management of Drop Attacks in Meniere's disease

P Bertholon¹, P Reynard¹, V Colin¹, S Oletski¹, R Peyron², C Martin¹

¹ Service ORL, CHU de St Etienne, France

² Service de Neurologie, CHU de St Etienne, France

14.15-14.30 The Effect of Age on Improvements in Balance Control after Acute Unilateral Peripheral Vestibular Loss

John H J Allum, Alja Scheltinga, Dionne Timmermans, Flurin Honegger

Division of Audiology and Neurootology, Department of ORL, University Hospital of Basel, Switzerland

- 14.30-15.00 Business meeting Everybody Welcome
- 15.00-15.30 Tea and Poster Viewing
- 15.30-16.15 FREE PAPERS - SESSION 4 Chair: Dr Rosalyn Davies
- 15.30-15.45 Cortical Reorganization in an Astronaut's Brain after Long Duration Spaceflight
A Van Ombergen¹/Athena Demertzi, Elena Tomilovskaya, Ben Jeurissen, Ekaterina Pechenkova, Carol Di Perri, Liudmil Litvinova, Enrico Amico, Alena Rumshiskaya, Jan Sijbers, Valentin Sinitsyn, Inessa Kozlovskaya, Stefan Sunaert, Paum M Parizel, Paul H Van de Heyning, Steven Laureys & Floris L Wuyts.
¹ Antwerp University Research Centre for Equilibrium and Aerospace (AUREA), University of Antwerp & University Hospital Antwerp, Antwerp, Belgium
- 15.45-16.00 Vertigo Induced by Downhill Mountain Biking and Road Cycling
P H Perrin^{1,2}, A Lion^{1,2,3}, G Bosser^{1,2,4}, G Gauchard^{1,2}, D Vibert⁵
¹ EA 3450 DevAH – Development, Adaptation and Disadvantage, University of Lorraine, Nancy, France
² LAPEM – Laboratory for the Analysis of Posture, Equilibrium and Motor Function, Hopitaux de Brabois, CHRU, Nancy, France
³ Sports Medicine Research Laboratory, Luxembourg Institute of Health, Luxembourg
⁴ Regional Institute of Physical Medicine and Rehabilitation, Cardiac Rehabilitation, CHRU Nancy, Vandoeuvre-lès-Nancy, France
⁵ Department of Otorhinolaryngology, Head and Neck Surgery, Insepspital, University of Bern, Bern, Switzerland
- 16.00-16.15 Electro-Cortical Therapy for Motion Sickness
Q Arshad¹, U Goga¹, N Cerchia², Y Nigmatullina¹, R E Roberts¹, A P Casan², J F Golding³, M A Gresty¹, A M Bronstein¹
¹ Academic Department of Neuro-Otology, Division of Brain Sciences, Imperial College, Charing Cross Hospital, Fulham Palace Road, London W6 8RF, UK
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³ Department of Psychology, University of Westminster, London, UK
- 16.15-17.00 Keynote Guest Lecture
 Long term outcomes of intratympanic steroid vs gentamicin in the management of Ménière's disease: first results of a major new RCT
 Dr Barry Seemungal
 Consultant Neurologist, Charing Cross and St Mary's Hospitals, London
- 17.00-17.15 Prize giving and meeting closure

We wish to acknowledge with thanks the support of the following sponsors:
 Biosense Medical

The format of the Invited Keynote lecturers will allow 10-15 minutes for questions and discussion. Free papers will consist of 10 minutes' presentation time. There will be some additional 2 minutes for "spill-over" time, plus 5 minutes for questions and discussion. Would all presenters please make sure you do not use all your time with your presentation as the aim of the meeting is to be able to discuss and interact actively.

POSTER PRESENTATIONS

Bidirectional Modulation of Numerical Magnitude

Q Arshad¹, Y Nigmatullina¹, R Nigmatullin², P Asavarut¹, U Goga¹, S Khan¹, K Sander¹, R E Roberts¹, R Cohen-Kadosh³, A M Bronstein¹, P A Mlhotra¹

¹ Division Of Brain Sciences, Imperial College, Charing Cross Hospital, Fulham Palace Road, London W6 8RF UK

² Institut für Quantenphysik and Centre for Integrated Quantum Science and Technology (IQST), Albert Einstein Allee, Universität Ulm, Ulm, D-89069, Germany

³ Department of Experimental Psychology, Oxford University, South Parks Road, Oxford OX1 3UD, UK

Perceptual Changes of "Self" Modulate Number Sense

Q Arshad¹, U Goga¹, M Piskovsky¹, Y Nigmatullina¹, R E Roberts¹, R Cohen-Kadosh², A M Bronstein¹

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² Department of Experimental Psychology, Oxford University, South Parks Road, Oxford OX1 3UD, UK

Right hemisphere dominance directly predicts the degree of top-down modulation exerted over low-level brain structures

Q Arshad, S Siddiqui, S Ramachandran, M Noor, U Goga, M Patel, Y Nigmatullina, P A Mlhotra, A M Bronstein

Division Of Brain Sciences, Imperial College, Charing Cross Hospital, Fulham Palace Road, London W6 8RF UK

Outcome Evaluation of the Dizziness Handicap Inventory in an Outpatient Vestibular Clinic

R Vanspauwen, C Blaivie, S Camp, J van Dinther, F E Offeciers, T Somers, A Zarowski

ENT Department, Sint-Augustinus Hospital Antwerp, European Institute for ORL-HNS, Antwerp, Belgium

Age at Onset of Meniere's disease in the Netherlands: No evidence for a forward shift in peak incidence

B F van Esch¹, P P G van Benthem¹, H J van der Zaag-Loonen², T D Bruinjes¹

¹ Department of Otorhinolaryngology and Head & Neck Surgery, Gelre Hospital, Apeldoorn, The Netherlands

² Department of Research and Education, Gelre Hospital, Apeldoorn, The Netherlands

Embodied Perspective-Taking Selectively Disrupted by Aberrant Self-Motion

John F Golding¹, Chloé Stent¹, Christine Mohr², Mark R Gardner¹

¹ Department of Psychology, University of Westminster, 115 New Cavendish Street, London W1W 6UW, UK

² Institute of Psychology, University of Lausanne, Bâtiment Geopolis, Quartier Mouline, CH-1015 Lausanne, Switzerland

Can Balance Disorders Moderate Our Cognition? Creation and Validation of a New Questionnaire

Émilie Lacroix^{1,2,3}, Samuel Salvaggio¹, Naima Deggouj^{2,3}, Valérie Wiener^{2,3}, Michel Debue², Martin Edwards^{1,3}

¹ Institute for Research In Psychological Science (IPSY), Université Catholique de Louvain, Louvain-la-Neuve, Belgium

² Oto-Rhino-Laryngology Department, Cliniques Universitaires Saint-Luc, Brussels, Belgium

³ Institute of Neuroscience (IONS), Université Catholique de Louvain, Louvain-la-Neuve, Belgium

Sudden Sensorineural Hearing Loss and its Impact on Tinnitus Perception

J Drsat¹, J Mejzlik¹, M Blaha², M Lanska², V Chrobok¹

¹ Department of Otorhinolaryngology and Head and Neck Surgery

² 4th Department of Internal Medicine – Haematology

University Hospital Hradec Kralove, Faculty of Medicine in Hradec Kralove, Charles University in Prague, Czech Republic

Meniere's disease and underlying mental/medical conditions

S Mohamad, I Khan, M Gaggini, G Kontorinis

TBC

Meniere's, Migraine and Motion Sickness

Mitesh Patel¹, Adolfo Bronstein¹, John F Golding^{1,2}

¹ Division of Brain Sciences, Imperial College London, Charing Cross Hospital, London W6 8RF, UK

² Department of Psychology, University of Westminster, London W1B 8RF, UK

Chronic Symptoms after Vestibular Neuritis are not related to impairment of the high frequency vestibulo-ocular reflex

Mitesh Patel, Qadeer Arshad, R Edward Roberts, Hena Ahmad, Adolfo M Bronstein

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