



British Society of Neuro-Otology

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THE 11TH MEETING OF THE BRITISH SOCIETY OF NEURO-OTOLOGY

FRIDAY 6 OCTOBER 2017

Governor's Hall, St Thomas' Hospital, Westminster Bridge Road, London SE1 7EH UK

PROGRAMME

- 08.30-09.00 Registration and welcome** **Welcome: Professor Peter Rea**
- 09.00-10.00 Keynote Guest lecture** **Introduction: Professor Adolfo Bronstein**
Spatial Representation and Navigation in Relation to the Vestibular System
Professor Neil Burgess
Professor of Cognitive and Computational Neuroscience, University College London
- 10.00-11.00 FREE PAPERS - SESSION 1** **Chair: Dr Peter West**
- 10.00 - 10.15 **Functional neuroimaging of visuo-vestibular interaction in vestibular neuritis**
R E Roberts¹, H Ahmad¹, Q Arshad¹, M Patel¹, D.Dima^{3,4}, R Leech², B M Seemungal¹, D J Sharp², A M Bronstein¹
¹ Neuro-otology Unit, Division of Brain Sciences, Charing Cross Hospital, Imperial College London, London W6 8RP
² Computational, Cognitive and Clinical Neuroimaging Laboratory, Division of Brain Sciences, Imperial College London, Hammersmith Hospital, London W12 0NN
³ Department of Psychology, City University of London
⁴ Department of Neuroimaging, Institute of Psychiatry, Psychology and Neuroscience, King's College London
- 10.15 - 10.30 **The role of magnetic resonance based imaging in the diagnosis of endolymphatic hydrops and Ménière's disease**
R Vanspauwen¹, B De Foer², A Bernaerts², A Zarowski¹, J van Dinther¹, C Blavie¹, J Casselman^{2,3}
¹ European Institute for ORL-HNS, GZA Hospital Sint-Augustinus, Antwerp, Belgium
² Department of Radiology, GZA Hospital Sint-Augustinus, Antwerp, Belgium
³ Department of Radiology, AZ St Jan A V, Brugge, Belgium
- 10.30 - 10.45 **EEG correlates of postural control and balance**
A Edwards, Q Arshad, M D Furman, A M Bronstein
Neuro-Otology Unit, Division of Brain Sciences, Imperial College London
- 10.45 – 11.00 **Bi-directional modulation of motor cortex excitability**
S Mediratta, R Lobo, A Fluri, M S Noor, M Chalwa, Y Nigmatullina, P Bentley, P Strutton, A M Bronstein, Q Arshad
Division of Brain Sciences, Imperial College London, Charing Cross Hospital Campus, Fulham Palace Road, London W6 8RF
- 11.00 - 11.25 Coffee and Poster Viewing**

11.25 - 12.25 FREE PAPERS - SESSION 2**Chair: Dr Mark Lewis****11.25 - 11.40 Errors of upright perception in patients with vestibular migraine***A Kheradmand, A Winnick, J Otero-Millan, T Chang*

Departments of Neurology and Otolaryngology-Head and Neck Surgery, The John Hopkins University School of Medicine

11.40 – 11.55 Perceptuo-reflex uncoupling impairs motions detection in vestibular migraine*Q Arshad¹, N F Bednarczuk¹, M C Ortega¹, A Fluri¹, J Chan¹, H Rust², F de Melo³, D Kaski¹, B M Seemungal¹, A M Bronstein¹*¹ Academic Department of Neuro-Otology, Division of Brain Sciences, Charing Cross Hospital Campus, Imperial College London, Fulham Palace Road, London W6 8RF² Department of Neurology, University of Basel, Petersgraben 4, Basel, Switzerland, CH 4031³ Department of Neurology, Hospital das Clinicas da Faculdade de Medicina de Rebeirao Preto-USP, Campus Universitario s/n Riberao Preto, Sao Paulo, Brazil**11.55 - 12.10 Increased prevalence of white matter hyperintensities affecting frontal and temporo-parietal areas in idiopathic dizziness***H Ahmad, M Cohn, E Roberts, A Bronstein*

Neuro-Otology Unit, Division of Brain Sciences, Imperial College London

12.10 - 12.25 Correlations between multi-plane video head impulse test (vHIT) responses and balance control after an acute unilateral peripheral vestibular deficit*J H J Allum, F Honegger*

Division of Neurology and Neuro-otology, Department of ORL, University of Basel Hospital, Basel, Switzerland

12.25 - 13.15 Lunch and Poster Viewing**13.15 - 14.30 FREE PAPERS - SESSION 3****Chair: Dr Peter Savundra****13.15-13.30 Living in the dark: self-induced visual deprivation leading to visual deafferentation with pendular nystagmus***D Kaski¹, P Naschev¹, R Jager², M Sokolska², G Zhang², M Matharu¹*¹ Department of Neurology, National Hospital for Neurology & Neurosurgery, London WC1N 3BG² Department of Neuro-Radiology, University College Hospital, London NW1 2BU**13.30-13.45 Inter-hemispheric control of vestibular thresholds***N Bednarczuk, M C Ortega, A Fluri, A M Bronstein, Q Arshad*

Academic Department of Neuro-Otology, Division of Brain Sciences, Charing Cross Hospital Campus, Imperial College London, Fulham Palace Road, London W6 8RF

13.45-14.00 Optimal target for identification of vestibulo-ocular reflex dysfunction during the gaze stabilization test: does size matter?*J A Goebel¹, C E Dutcher², A Thompson-Harvey³, H A Monroe¹*¹ Department of Otolaryngology, Washington University School of Medicine, Saint Louis, MO USA² Department of Otolaryngology, Program in Audiology and Communication Sciences, Washington University School of Medicine, Saint Louis MO USA³ Department Of Otolaryngology, Saint Louis University School of Medicine, Saint Louis MO USA**14.00-14.15 Domain-specific cognitive function disrupted by visuo-vestibular incongruity***J Corcoran, M Gardner, A Towell, J Golding*

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

14.15 - 14.30 "I fear what I feel, not what I think" - objective and subjective effects of wearing a harness during a posturally challenging task*P C Abarca, M Furman, M Schieppati, Q Arshad, D Kaski, A M Bronstein*

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

14.30-14.55 Business meeting All welcome

14.55-15.15 Tea and Poster Viewing

15.15-16.15 FREE PAPERS - SESSION 4

Chair: Dr Barry Seemungal

15.15-15.30 Othostatic tremor presenting to a falls syncope service - if you hear the sound of helicopters, think zebras

J Lawson, M Baker

Falls and Syncope Service, Newcastle Upon Tyne Hospitals, NHS Foundation Trust

15.30-15.45 Internet based rehabilitation for older adults with chronic dizziness: a randomised control trial in primary care

R Essery, A W A Geraghty, S Kirby, B Stuart, D Turner, P Little, A Bronstein, G Andersson, P Carlbring, L Yardley

Department of Psychology, University of Southampton

15.45-16.00 Widened vestibular aqueducts and vestibular function in children

K Harrop-Griffiths, W Pagarkar

Royal National Throat Noes and Ear Hospital, Gray's Inn Road, London WC1X 8DA

16.00-16.15 Do patients with chronic migraine perceive sway differently to normal controls?

S Williams, S A Zaidi, M Lewis

Department of Neurology, Leeds Teaching Hospitals NHS Trust

16.15-17.15 Keynote Guest Lecture

Introduction: Dr Louisa Murdin

Advances in Intra-Tympanic therapies for Ménière's Disease

Mr Jonny Harcourt, Consultant ENT Surgeon

Charing Cross Hospital, London

17.15-17.30 Prize giving and meeting closure

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, 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

Investigation the link between hypovitaminosis D and BPPV pathogenesis by correlating monthly distributions of new BPPV cases with monthly sunshine duration

J Corcoran, R Smith, S Ritchie, L Williams, G Jones

Physiotherapy Department, Guys Hospital, Guys and St Thomas' NHS Foundation Trust, Ground Floor Tower Wing, Great Maze Pond, London SE1 9RT

Treatment of tinnitus using theta burst based repetitive transcranial magnetic stimulation - a single blinded randomized control trial

J S Sandhu, J Godbehere, A Evans, J Ray

ENT Department, Royal Hallamshire Hospital, Sheffield, UK

Magnetic resonance imaging in vestibular paroxysmia - an observational study

P Touska, N Sivarasan, L Murdin, S E Connor

Guys and St Thomas' NHS Foundation Trust

Cognitive-behavioural model of persistant vestibular symptoms: a systematic review

D Herdman^{1,2}, M Pavlou³, L Murdin², R Moss-Morris¹

¹ Psychology Section, Institute of Psychiatry, Psychology and Neuroscience, King's College London

² ENT Department, Guys Hospital, London

³ Centre of Human & Aerospace Physiological Sciences, King's College London, UK

What should we call chronic dizziness?

D Herdman^{1,2}, E Ferris¹, M Pavlou³, L Murchin², R Moss-Morris¹

¹ Psychology Section, Institute of Psychiatry, Psychology and Neuroscience, King's College London

² ENT Department, Guys Hospital, London

³ Centre of Human & Aerospace Physiological Sciences, King's College London, UK

Vestibular suppressants and alcohol: effect of different protocols on balance clinic pathways

P Premachandra, L Gillen, R McKearney, S Sriskandarajah, A Thientosapol, L Murchin

Guy's and St Thomas' NHS Foundation Trust

Similar levels of dysfunctions found in patients with discrete balance disorders; evidence for an insidious secondary disorder?

J Corcoran, N Triteos, S Michalski

Physiotherapy Department, Guy's and St Thomas' NHS Foundation Trust

Interhemispheric control of higher-order vestibular function

M C Ortega, N F Bednarczyk, A Fluri, R Lobo, S Cousins, R Sheriff, A Bronstein, Q Arshad

Academic Department of Neuro-Otology, Division of Brain Sciences, Charing Cross Hospital Campus, Imperial College London, Fulham Palace Road, London W6 8RF

Central positional nystagmus: literature review and future directions

N K Macdonald¹, D Kaski^{1,2}, Y Saman¹, A A-S Sulaiman^{2,3}, A Anwer², D Bamio^{1,2}

¹ Neuro-Otology Department, National Hospital for Neurology and Neurosurgery, London

² UCL Ear Institute, London

³ Department of Otolaryngology and Head and Neck Surgery, King Fahd Hospital, University of Dammam, Al Khobar, Saudi Arabia

Viewing-target distance influences the VOR gain when assessed using the vHIT

P C Abarca¹, S S Esteves², F Lerchundi³, D Buckwell¹, M A Gresty¹, A M Bronstein¹, Q Arshad¹

¹ Neuro-otology Unit, Division of Brain Sciences, Charing Cross Hospital Campus, Imperial College London

² Centro Hospitalar do Porto, Largo do Prof. Abel Salazar, 4099-001 Porto, Portugal

³ Fundacion para la lucha contra las enfermedades Neurológicas de la infancia (FLENI), Montañeses 2325, Buenos Aires, Capital Federal (C1428AQQ), Argentina

Predictors of visual vertigo and dizziness in the general population

L Peverall, J F Golding

Department of Psychology, Faculty of Science and Technology, University of Westminster, London

Impact of transient spatial disorientation on visual dependence and postural control

V Theodorou, J Golding

Department of Psychology, Faculty of Science and Technology, University of Westminster, London

A pilot study exploring the utility of outcome measures selected to assess balance and dynamic vision in patients with neurofibromatosis II (NF2)

R Smith, J Corcoran, V Williams, A Swampillai, S Wood, S Afridi

Guy's and St Thomas' NHS Foundation Trust, Guy's Hospital, London UK

Optimizing stimulating/recording parameters for ocular vestibular evoked myogenic potential recordings using a high-force level bone-conductor: a clinical protocol

A J Beynon

Radboud University Medical Centre, Netherlands

Periodic alternating nystagmus with functional head tremor

D Kaski^{1,2}, S Haider³, A Male¹, A Radunovic³, F Liu⁴, C Cordivari⁴, K Bhatia⁴, A M Bronstein^{1,2}

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