



Movement Disorders Special Interest Group &
The Cerebral Palsy International Research Foundation
London, Monday 20 May 2013

**Sensorimotor, cognitive and emotional integration in movement disorders
in children and the influence of neuromodulation**

Joint meeting of:

The British Paediatric Movement Disorders Special Interest Group (BPNA MDSIG)

&

The Cerebral Palsy International Research Foundation (CPIRF, USA)

- Venue:** Lecture Theatre 1, New Hunt's House, Guy's Campus, London Bridge, SE1 1UL (nearest tube is London Bridge)
- Date:** Monday 20 May 2013
- Time:** 09.30-18.15 followed by an evening reception at Gordon Museum, Guy's campus 18.15-19.30
- Registration Fee:**
- Clinicians: £145.00
 - Allied Health Professionals, Scientists: £105.00
 - Trainees/Fellows: £60.00
 - Medical students: £30.00

Conference Organiser & Leader:

Jean-Pierre Lin, MRCP (UK) PhD, Consultant Paediatric Neurologist, Complex Motor Disorders Service, Evelina Children's Hospital, Guy's and St Thomas' Hospital and King's College Hospital NHS Foundation Trusts, King's Health Partners, London

BOOKING

Please complete the booking form below and send it by post or fax to:
BPNA Secretariat, 3-5 Lee Lane, Horwich, Bolton, BL6 7BP
Fax: +44 (0)1204 468539

Please make cheques payable to 'BPNA'

FURTHER INFORMATION

For further information, please contact Philippa Rodie at the BPNA on +44 (0)1204 695958 or email info@bpna.org.uk or alternatively email Jean-Pierre Lin at Jean-Pierre.Lin@gstt.nhs.uk

For more information email: info@bpna.org.uk

Telephone: +44 (0)1204 695958

Approved and supported by BMBS COST Action BM1101 European network for the study of dystonia syndromes



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Dear Colleagues

On behalf of the BPNAMDSIG and the CPIRF, I hope you will be able to join us for this exciting international meeting on movement disorders in children focussing on important integrative pathways and the current knowledge and experience of using neuromodulation to improve motor comfort, function and independence.

All of the speakers and chairs are themselves attending to share their experience and to learn from each other. As with our 2012 meeting there will be an opportunity to hear about the latest neuroscience concepts while focussing in the second part of the meeting on focussed clinical issues and of course, to participate in the discussions!

Jon Mink will address fundamental issues in the 'motor tool box': reflex, instinct and voluntary motor function. Mark Edwards will present evidence for altered or distorted body image representation in certain forms of dystonia.

Then we will hear from Tamsin Owen and Laurence Reed about cognitive functioning and stress in a variety of dystonias before and after DBS with information from PET imaging data and implications for understanding distributed functions of the basal ganglia and cortex.

Under the careful scrutiny of John Rothwell and Marina de Koning Tijssen, we will continue to explore functional anatomy with new information on imaging models in dystonia by Daniel Lumsden and neuronal firing patterns in childhood dystonias presented by Verity McClelland. We will discuss the impact of age of onset and of dystonia duration on response to DBS.

The morning will conclude with a state of the art presentation on DBS electrode location by Laura Cif from the Montpellier Functional Neurosurgery department in France.

After lunch, practical and technical issues relating to DBS in children will continue to be discussed by Margaret Kaminska and Warren Marks.

Amande Pauls will also address specifically the role of DBS in **cerebral palsy** as one of the dominant groups of motor disorders experiencing the difficulties of living with dystonia and choreoathetosis (dyskinesia).

In the penultimate session after tea, there will be specialized talks from allied health professionals encompassing Occupational Therapy as well as Physiotherapy and the very important issues of assessment scales, goal-setting and outcome measures. Hortensia Gimeno will present concepts and data on manual functioning, activity and participation in dystonia. Elegast Monbaliu will focus on a new scale for dyskinesias in secondary dystonias and discuss the relative merits and disadvantages of existing scales.

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**DYSTONIA
EUROPE**

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Markus Elz and Jane Hutton from Warwick University will present a statistical overview on modelling dystonia.

Then Terence Sanger will have the difficult task of reviewing what we have learned about movement disorders in children to date, picking up on key concepts and future work.

The conference proper comes to a climax with our guest speaker, Marina de Koning Tijssen from Holland who will cover 'Jerky movements, myoclonus-tics-startle & dystonia: from behavioural phenotype to movement disorder.'

To fulfil the role of bringing so many different clinicians together we conclude the day in the Gordon Museum across the quadrangle from the lecture theatre, with a reception and a special talk on images in neuroscience by the artist Susan Aldworth, who has exhibited widely and currently has a small exhibition 'The Portrait Anatomised' at the National Portrait gallery in London.

May I therefore take this opportunity to emphasise that our speakers are coming from Belgium, Holland, France, Germany, the UK and the USA and this will, as usual, be an opportunity to make contact and network with these distinguished visitors and amongst yourselves.

Please encourage your colleagues and trainees to register and help us make this another memorable meeting.

Jean-Pierre Lin
Consultant Paediatric Neurologist
Chair: BPNAMDSIG

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Joint meeting of:

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New Hunt's House, Guy's Campus, London on Monday 20 May 2013

PROVISIONAL PROGRAMME

9.00-9.30 Registration Tea & coffee

Session 1: Overview of movement disorders

Chairs: Jean-Pierre Lin & James Blackman

9.30-10.00 Reflexes, instinct and voluntary motor control: similarities and differences
Jon Mink (USA)

10.00-10.30 Body image, sensory processing and dystonia in young people: are we getting the right picture?
Mark Edwards (UK)

10.30-11.00 Cognitive function and stress in dystonia and the impact of neuromodulation of the basal ganglia on
distributed circuits
Tamsin Owen and Laurence Reed (UK)

11.00-11.20 Tea & coffee break

Session 2: Imaging & Neurophysiology for dystonia & DBS

Chairs: John Rothwell and Marina de Koning-Tijssen

11.20-11.50 Motor phenotype and connectivity: does structure follow function?
Daniel Lumsden (UK)

11.50-12.10 Patterns of Somtao-sensory evoked potentials and intracerebral recordings in children with dystonia
and choreoathetosis
Verity McClelland (UK)

12.10-12.30 Dystonia distribution, duration and response to DBS in children and young people: is there a
continuum from primary to secondary dystonia?
Jean-Pierre Lin (UK)

12.30-13.00 Deep Brain Stimulation and the rationale for multiple electrodes
Laura Cif (France)

13.00-14.00 Lunch

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Session 3: DBS trouble-shooting and technical issues

Chairs: Keyoumars Ashkan (TBC) & Martin Smith

- 14.00-14.30 Wires, batteries, body, brain: getting technical!
Margaret Kaminska (UK)
- 14.30-15.00 Deep Brain Stimulation for children: risks and challenges, Texan style
Warren Marks (USA)
- 15.00-15.20 The challenges of DBS in cerebral palsy: an international meta-analysis
Amanda Pauls (Germany)
- 15.20-15.45 Coffee and Tea

Session 4: Assessing outcomes after DBS

Chairs: Jane Hutton, Terence Sanger and Richard Selway

- 15.45-16.15 Manual ability beyond fine motor function: lessons from the COPM and COOP in childhood movement disorders after DBS
Hortensia Gimeno (UK)
- 16.15-16.45 The Dyskinesia Impairment Scale (DIS): 'beyond the BFMDRS'
Elegast Monbaliu, Els Ortibus and Hilde Feys (Belgium)
- 16.45-17.15 Modelling dystonia, secondary complications and outcomes after intervention: how do we measure change and prevention?
Markus Elze and Jane Hutton (UK)
- 17.15-17.45 Managing dystonia and choreo-athetosis in children and young people: what have we learned?
Terence Sanger (USA)

Keynote Lecture

Chairs: Michael Samuel & Els Ortibus

- 17.45-18.15 Jerky movements, myoclonus-tics-startle & dystonia: from behavioural phenotype to movement disorder
Marina AJ de Koning-Tijssen (Netherlands)
- 18.15-19.30 Reception Gordon Museum Guy's Campus
- 18.45-19.00 Images of the Nervous System
Susan Aldworth (UK)

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Booking Form

PERSONAL DETAILS

Title: _____ First Name: _____

Surname: _____

Position: _____

Place of Work: _____

Address for correspondence: _____

Telephone: _____

Email: _____

Where did you hear about this course? BPNA email / BPNA website / _____

REQUIREMENTS

Attendance at the BPNA Movement Disorders Special Interest Group Meeting London, 20 May 2013 Clinicians: £145.00 Allied Health Professionals, Scientists: £105.00 Trainees/Fellows: £60.00 Medical students: £30.00	£ _____
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Special requirements (eg vegetarian, special dietary requirements):

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For the attention of: _____

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Course attendee's name (if different): _____

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Amount: _____ Card holder's signature: _____

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Expiry date: \_\_\_\_\_ Start date/issue no: \_\_\_\_\_

Security number (last 3 digits on reverse of card): \_\_\_\_\_

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