3rd International Conference on Functional (Psychogenic) Neurological Disorders
September 6–8, 2017  Edinburgh, Scotland

PROGRAM
Welcome to the 3rd International Conference on Functional (Psychogenic) Neurological Disorders and to Edinburgh! We are delighted that the event appears to be a sellout. Most of you at the meeting will know that we have come a long way in the 20 years or so in this field. In the late 1990s, it was a topic that barely registered in academic articles, curricula and textbooks.

There has been exciting progress throughout the field from mechanism to treatment, from phenomenology to aetiology. The state of the art is reflected in the first volume of the Handbook of Neurology on Functional Disorders (volume 139), published in Oct 2016, which the three of us edited and to which most of the speakers at this meeting have contributed. This book, for the first time in a long time, assembled together information on all types of functional neurological disorders in one place. There is a 30% off code in this program (editors receive no additional royalties from purchases!) or your university library may subscribe for a free download.

We thought this represented an opportunity to hold a meeting where health professionals of all disciplines could meet to learn, teach and collaborate. We have been especially impressed with the very high quality of the abstracts submitted and would encourage everyone to look round the posters which will be changing every day.

Similar meetings, but with a specific focus on movement disorders were held in Atlanta in 2003 and in Washington DC in 2009 with support from the International Parkinson and Movement Disorder Society (MDS). Some residual funds from that 2009 meeting were used to help finance this 2017 meeting.

We are grateful to the following organizations and companies for supporting this meeting:

- National Institute of Neurological Disorders and Stroke
- International Parkinson and Movement Disorder Society
- American Epilepsy Society
- Scottish Government
- GE Healthcare

Our particular thanks to our organizing committee listed below and especially to Heather Vitale from the International Parkinson and Movement Disorder Society who has been dealing with the thousands of emails an event like this generates. We hope you enjoy it and that we can have another meeting in less than 8 years time!

Best wishes

Mark Hallett        Jon Stone                Alan J. Carson

On behalf of the organizing committee:

Alan J. Carson        Mark Hallett        Timothy R. Nicholson
Anthony David        W. Curt LaFrance, Jr.        Markus Reuber
Marina Aj De Koning-Tijssen        Anthony E. Lang,        Karen S. Rommelfanger
Mark J. Edwards        Codrin Lungu        Jon Stone
Marjorie Garvey
Table of Contents

- Faculty List ................................................................. 2
- Program Agenda .......................................................... 4
- Abstracts ................................................................. 10
- FND Handbook – 30% Discount ........................................ 18
- Sponsor Information....................................................... 19
- Upcoming Conferences .................................................. 20
- FND Patient Run Charities and Resources .......................... 22

Course Venue

The Assembly Rooms Edinburgh - Music Hall and Ballroom
54 George Street, Edinburgh EH2 2LR
Phone: +44 (131) 220-4348
www.assemblyroomsedinburgh.co.uk

Wi-Fi

Complimentary Wi-Fi is available at The Assembly Rooms.
Select “Assembly Rooms Internet” and enter your email address.

The City of Edinburgh also offers complimentary Wi-Fi through:
www.edinburghfreewifi.com

Twitter - @fneuroforum    Facebook - @UKFNT
<table>
<thead>
<tr>
<th>Name</th>
<th>Institution and Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Selma Aybek</td>
<td>University Clinic for Neurology, InselSpital Bern, Bern, Switzerland</td>
</tr>
<tr>
<td>David Baguley</td>
<td>NIHR Nottingham Biomedical Research Unit in Hearing, Nottingham, United Kingdom</td>
</tr>
<tr>
<td>Gaston Baslet</td>
<td>Brigham and Women's Hospital, Harvard University, Boston, MA, USA</td>
</tr>
<tr>
<td>Fabrizio Benedetti</td>
<td>University of Turin Medical School, Plateau Rosa Labs, Turin, Italy</td>
</tr>
<tr>
<td>Kailash P. Bhatia</td>
<td>Institute of Neurology, University College London, London, United Kingdom</td>
</tr>
<tr>
<td>Richard J. Brown</td>
<td>University of Manchester, Manchester, United Kingdom</td>
</tr>
<tr>
<td>Alan J. Carson</td>
<td>Royal Edinburgh Hospital, Robert Fergusson Unit, Edinburgh, Scotland</td>
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<tr>
<td>Trudie Chalder</td>
<td>King's College London, London, United Kingdom</td>
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<tr>
<td>Anthony David</td>
<td>King's College London, London, United Kingdom</td>
</tr>
<tr>
<td>Marina AJ De Koning-Tijsen</td>
<td>University Medical Centre Groningen (UMCG), Groningen, Netherlands</td>
</tr>
<tr>
<td>Quinton Deeley</td>
<td>Institute of Psychiatry, Kings College London, National Autism Unit, Bethlem Royal Hospital, South London and Maudsley NHS Foundation Trust, London, United Kingdom</td>
</tr>
<tr>
<td>Joseph R. Duffy</td>
<td>Mayo Clinic, Rochester, MN, USA</td>
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<tr>
<td>Roderick Duncan</td>
<td>Christchurch Hospital, University of Otago, Otago, New Zealand</td>
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<tr>
<td>Barbara Ann Dworetsky</td>
<td>Brigham and Women's Hospital, Harvard University, Boston, MA, USA</td>
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<tr>
<td>Mark J. Edwards</td>
<td>St. George's University of London, London, United Kingdom</td>
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<tr>
<td>Alberto J. Espay</td>
<td>University of Cincinnati Academic Health Center, Cincinnati, OH, USA</td>
</tr>
<tr>
<td>Jeannette M. Gelauff</td>
<td>University of Edinburgh, Western General Hospital, Edinburgh, Scotland, University Medical Center Groningen (UMCG), Groningen, Netherlands</td>
</tr>
<tr>
<td>Christopher G. Goetz</td>
<td>Rush University Medical Center, Chicago, IL, USA</td>
</tr>
<tr>
<td>Laura H. Goldstein</td>
<td>Institute of Psychiatry, Kings College London, London, United Kingdom</td>
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<tr>
<td>Mark Hallett</td>
<td>National Institute of Neurological Disorders and Stroke, National Institutes of Health, Bethesda, MD, USA</td>
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<tr>
<td>Ingrid Hoeritzauer</td>
<td>Centre for Clinical Brain Sciences, University of Edinburgh, Edinburgh, Scotland</td>
</tr>
<tr>
<td>Joseph Jankovic</td>
<td>Baylor College of Medicine, Houston, TX, USA</td>
</tr>
<tr>
<td>Name</td>
<td>Institution and Location</td>
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<tr>
<td>Eileen Joyce</td>
<td>Institute of Neurology, University College London, London, UK</td>
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<tr>
<td>Richard A. A. Kanaan</td>
<td>University of Melbourne, Melbourne, Australia</td>
</tr>
<tr>
<td>Diego Kaski</td>
<td>University College London Hospitals, London, UK</td>
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<tr>
<td>Kathrin LaFaver</td>
<td>University of Louisville, Louisville, KY, USA</td>
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<tr>
<td>W. Curt LaFrance, Jr.</td>
<td>Alpert Medical School, Brown University; Providence, RI, USA</td>
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<tr>
<td>Anthony E. Lang</td>
<td>University of Toronto, Toronto, ON, Canada</td>
</tr>
<tr>
<td>Stephen Lawrie</td>
<td>Centre for Clinical Brain Sciences, University of Edinburgh, Edinburgh, Scotland</td>
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<tr>
<td>Timothy R. Nicholson</td>
<td>Institute of Psychiatry Psychology &amp; Neuroscience, King's College London, London, UK</td>
</tr>
<tr>
<td>David L. Perez</td>
<td>Departments of Neurology and Psychiatry, Massachusetts General Hospital, Harvard Medical School, Boston, MA, USA</td>
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<tr>
<td>Stoyan Popkirov</td>
<td>Neurology Department and Epilepsy Centre, Ruhr-University Bochum, Bochum, Germany</td>
</tr>
<tr>
<td>Markus Reuber</td>
<td>Academic Neurology Unit, University of Sheffield, Royal Hallamshire Hospital, Sheffield, UK</td>
</tr>
<tr>
<td>Karen S. Rommelfanger</td>
<td>Emory University, Atlanta, GA, USA</td>
</tr>
<tr>
<td>Primavera Spagnolo</td>
<td>National Institute of Neurological Disorders and Stroke, National Institutes of Health, Bethesda, MD, USA</td>
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<tr>
<td>Jeffrey P. Staab</td>
<td>Mayo Clinic, Rochester, MN, USA</td>
</tr>
<tr>
<td>Jon Stone</td>
<td>Centre for Clinical Brain Sciences, University of Edinburgh, Western General Hospital, Edinburgh, Scotland</td>
</tr>
<tr>
<td>Michele Tinazzi</td>
<td>University of Verona, Verona, Italy</td>
</tr>
<tr>
<td>Valerie Voon</td>
<td>Behavioral and Clinical Neurosciences Institute, Cambridge, United Kingdom</td>
</tr>
<tr>
<td>Patrik Vuilleumier</td>
<td>University Medical School, University Hospital, Swiss Affective Science Center, Geneva, Switzerland</td>
</tr>
<tr>
<td>Sir Simon Wessely</td>
<td>Institute of Psychiatry, Kings College London, London, UK</td>
</tr>
</tbody>
</table>
Registration will be available in Crush Hall starting at 07:00. Coffee and pastries will be available in the Ballroom/Poster Hall.

### Welcome and Introductory Lecture
**08:30 – 10:30 ● Music Hall**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>08:30 – 08:45</td>
<td>Welcome</td>
<td>Mark Hallett, Jon Stone and Alan J. Carson</td>
</tr>
<tr>
<td>08:45 – 09:20</td>
<td>Lessons from Shellshock</td>
<td>Sir Simon Wessely</td>
</tr>
<tr>
<td>09:25 – 09:50</td>
<td>Neurological Diagnostic Criteria</td>
<td>Anthony E. Lang</td>
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<tr>
<td>09:50 – 10:10</td>
<td>Psychiatric Classification</td>
<td>David L. Perez</td>
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<tr>
<td>10:10 – 10:30</td>
<td>Discussion</td>
<td>Mark Hallett, moderator</td>
</tr>
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### COFFEE/TEA BREAK
**10:30 – 11:00 ● Ballroom/Poster Hall**

### Clinical Update
**11:00 – 12:25 ● Music Hall**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>11:00 – 11:25</td>
<td>Clinical Overview of Psychogenic Movement Disorders</td>
<td>Joseph Jankovic</td>
</tr>
<tr>
<td>11:30 – 11:55</td>
<td>Phenotyping in Functional Movement Disorders</td>
<td>Marina Aj de Koning-Tijssen</td>
</tr>
<tr>
<td>11:55 – 12:25</td>
<td>Discussion</td>
<td>Christopher G. Goetz, moderator</td>
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</table>

### Poster Updates - Phenomenology
**12:30 – 12:45 ● Music Hall**

Selected poster presentations will provide a brief introduction to their posters. See page 10-16 for presenter detail.

### LUNCH
**12:45 – 13:45 ● Ballroom/Poster Hall**

Poster Presentations - Phenomenology
**13:15 – 13:45 ● Ballroom/Poster Hall**
Day 1 – Phenomenology  
Wednesday, September 6, 2017

<table>
<thead>
<tr>
<th><strong>Clinical Update</strong></th>
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<tbody>
<tr>
<td><strong>13:45 – 15:10 ● Music Hall</strong></td>
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</tbody>
</table>
| 13:45 – 14:10 | Functional Auditory Disorders  
| | David Baguley |  
| 14:15 – 14:40 | Functional Eye Movement Disorders / Vision  
| | Diego Kaski |  
| 14:45 – 15:10 | Dizziness and PPPD |  
| | Jeffrey P. Staab |  
| **COFFEE/TEA BREAK** |  
| **15:15 – 15:45 ● Ballroom/Poster Hall** |  
| 15:45 – 16:10 | Functional Cognitive Symptoms  
| | Stoyan Popkirov |  
| 16:15 – 16:40 | Functional Speech Disorders  
| | Joseph R. Duffy |  

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<tr>
<th><strong>Clinical Update</strong></th>
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<tr>
<td><strong>16:45 – 18:15 ● Music Hall</strong></td>
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</table>
| 16:45 – 17:10 | Non-epileptic Attacks: Subjective Symptoms  
| | Markus Reuber |  
| 17:15 – 17:40 | Non-epileptic Attacks: Semiology  
| | W. Curt LaFrance, Jr. |  
| 17:45 – 18:15 | Discussion  
| | Gaston Baslet, moderator |  

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<thead>
<tr>
<th><strong>DRINKS RECEPTION</strong></th>
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<tbody>
<tr>
<td><strong>18:15 – 19:30 ● Ballroom/Poster Hall</strong></td>
</tr>
<tr>
<td>Please join your colleagues for whisky and networking following the educational sessions.</td>
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</table>
Registration will be available in Crush Hall starting at 08:00. Coffee and pastries will be available in the Ballroom/Poster Hall.

**Aetiology**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>08:30 – 08:55</td>
<td>Psychological Models and Discussion</td>
<td>Alan J. Carson</td>
</tr>
<tr>
<td>09:00 – 09:25</td>
<td>Genetics and Epigenetics</td>
<td>Primavera Spagnolo</td>
</tr>
<tr>
<td>09:30 – 09:55</td>
<td>Early Life Experiences and Life Events</td>
<td>Selma Aybek</td>
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<tr>
<td>10:00 – 10:30</td>
<td>Discussion</td>
<td>Roderick Duncan, moderator</td>
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**COFFEE/TEA BREAK**

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<th>Time</th>
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<tr>
<td>10:30 – 11:00</td>
<td>Pathophysiology 1</td>
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**Pathophysiology 1**

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<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>11:00 – 11:25</td>
<td>Neurophysiology</td>
<td>Mark Hallett</td>
</tr>
<tr>
<td>11:30 – 11:55</td>
<td>Predictive Brain Models</td>
<td>Mark J. Edwards</td>
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<tr>
<td>11:55 – 12:25</td>
<td>Discussion</td>
<td>Kailash P. Bhatia, moderator</td>
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**Poster Updates – Aetiology and Mechanism**

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<tr>
<td>12:30 – 12:45</td>
<td>Poster Updates – Aetiology and Mechanism</td>
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Selected poster presentations will provide a brief introduction to their posters. See page 10-16 for presenter detail.

**LUNCH**

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<tr>
<td>12:45 – 13:45</td>
<td>Poster Presentations – Aetiology and Mechanism</td>
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Poster Presentations – Aetiology and Mechanism

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Poster Presentations – Aetiology and Mechanism

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<td>13:15 – 13:45</td>
<td>Poster Presentations – Aetiology and Mechanism</td>
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</table>

Poster Presentations – Aetiology and Mechanism
## Pathophysiology 2

**13:45 – 15:45 • Music Hall**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:45 – 14:10</td>
<td>Imaging Movement</td>
<td>Patrik Vuilleumier</td>
</tr>
<tr>
<td>14:15 – 14:40</td>
<td>Imaging Agency</td>
<td>Valerie Voon</td>
</tr>
<tr>
<td>14:45 – 15:10</td>
<td>Imaging Emotions and Memories</td>
<td>Anthony David</td>
</tr>
<tr>
<td>15:15 – 15:45</td>
<td>Discussion</td>
<td>Stephen Lawrie, moderator</td>
</tr>
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### COFFEE/TEA BREAK

**15:45 – 16:15 • Ballroom/Poster Hall**

## Pathophysiology 3

**16:15 – 17:45 • Music Hall**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:15 – 16:40</td>
<td>Hypnosis</td>
<td>Quinton Deeley</td>
</tr>
<tr>
<td>16:45 – 17:10</td>
<td>Nature of the Placebo Effect</td>
<td>Fabrizio Benedetti</td>
</tr>
<tr>
<td>17:10 – 17:45</td>
<td>Discussion</td>
<td>Michele Tinazzi, moderator</td>
</tr>
</tbody>
</table>

### EVENING EVENT (TICKETED EVENT)

**19:30 – 22:30 • Royal College of Physicians Edinburgh – Great Hall and Library**

Join us for an evening of food, wine, and entertainment in the historic setting of the Royal College of Physicians Edinburgh
9 Queen Street, Edinburgh EH2 1JQ

Entertainment will include a bagpipe welcome from Calum White, entertainment from Andrew McKinley – elite magician and mystery artist, and the musical stylings of the Roger Cull Trio.

Visit the Registration Desk for additional information or to inquire about tickets.
Registration will be available in Crush Hall starting at 08:00. Coffee and pastries will be available in the Ballroom/Poster Hall.

### Setting the Scene
**08:30 – 09:25 ● Music Hall**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Presenter/Referent</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30 - 08:55</td>
<td>Attitudes and Ethics</td>
<td><em>Karen S. Rommelfanger</em></td>
</tr>
<tr>
<td>09:00 - 09:25</td>
<td>Discussion</td>
<td><em>Richard A. A. Kanaan, moderator</em></td>
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</table>

### Initial Explanation/Assessment
**09:30 – 10:30 ● Music Hall**

<table>
<thead>
<tr>
<th>Time</th>
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</thead>
<tbody>
<tr>
<td>09:30 - 09:55</td>
<td>The Consultation as Treatment</td>
<td><em>Jon Stone</em></td>
</tr>
<tr>
<td>10:00 - 10:25</td>
<td>Discussion</td>
<td><em>Barbara Ann Dworetzky, moderator</em></td>
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</tbody>
</table>

### COFFEE/TEA BREAK
**10:30 – 11:00 ● Ballroom/Poster Hall**

### Physical/Multidisciplinary Treatment
**11:00 – 12:30 ● Music Hall**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Presenter/Referent</th>
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</thead>
<tbody>
<tr>
<td>11:00 – 11:25</td>
<td>Physiotherapy</td>
<td><em>Glenn Neilsen</em></td>
</tr>
<tr>
<td>11:30 – 11:55</td>
<td>Inpatient Treatment</td>
<td><em>Kathrin LaFaver</em></td>
</tr>
<tr>
<td>12:00 – 12:30</td>
<td>Discussion</td>
<td><em>Alberto J. Espay, moderator</em></td>
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</tbody>
</table>

### Poster Updates – Treatment
**12:30 – 12:45 ● Music Hall**

Selected poster presentations will provide a brief introduction to their posters. See page 10-16 for presenter detail.

### LUNCH
**12:45 – 13:45 ● Ballroom/Poster Hall**
### Psychological and Pharmacological Treatment

**13:45 – 15:45 • Music Hall**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>13:45 – 14:10</td>
<td>Pharmacological Therapy</td>
<td>Eileen Joyce</td>
</tr>
<tr>
<td>14:15 – 14:40</td>
<td>Cognitive Behavioral Therapy</td>
<td>Laura H. Goldstein</td>
</tr>
<tr>
<td>14:45 – 15:10</td>
<td>Psychodynamic Psychotherapies</td>
<td>Richard J. Brown</td>
</tr>
<tr>
<td>15:15 – 15:45</td>
<td>Discussion</td>
<td>Trudie Chalder, moderator</td>
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### COFFEE/TEA BREAK

**15:45 – 16:15 • Ballroom/Poster Hall**

### Outcome

**16:15 – 17:30 • Music Hall**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:15 – 16:30</td>
<td>Prognosis</td>
<td>Jeannette M. Gelauff</td>
</tr>
<tr>
<td>16:35 – 17:00</td>
<td>How Should We Measure Outcome?</td>
<td>Timothy R. Nicholson</td>
</tr>
<tr>
<td>17:05 – 17:30</td>
<td>Discussion</td>
<td>Ingrid Hoeritzauer, moderator</td>
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### Future Directions and Closing Remarks

**17:30 – 17:50 • Music Hall**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>17:30 – 17:35</td>
<td>American Neuropsychiatric Association Consensus Guidelines on FND</td>
<td>Valerie Voon</td>
</tr>
<tr>
<td>17:35 - 17:40</td>
<td>International Parkinson and Movement Disorder Society (MDS) Functional Motor Disorder Special Interest Group</td>
<td>Kathrin LaFaver and Alberto J. Espay</td>
</tr>
<tr>
<td>17:40-17:50</td>
<td>Future Directions and Closing Remarks</td>
<td>Mark Hallett, Jon Stone and Alan J. Carson</td>
</tr>
</tbody>
</table>
100 - Baseline characteristics and outcome of pediatric onset psychogenic non-epileptic seizures
Anne Sofie Hansen, Charlotte Rask, Jakob Christensen, René Nielsen (Aalborg, Denmark)
**PODIUM PRESENTER**

101 - Experience of 32 patient with functional movement disorders at the Department of Neurology, Ege University Medical Faculty, Izmir Turkey
Ahmet Acarer, Zafer Colakoglu (Bornova Izmir, Turkey)

102 - Emotion regulation and post-traumatic stress in patients with psychogenic non-epileptic seizures
Ruifan Zeng, Lorna Myers, Marcelo Lancman (New York, NY, USA)

103 - Functional dystonia: Experience in a US specialised dystonia clinic
Christopher Stephen, David Perez, Nutan Sharma (Boston, MA, USA)

104 - Sudden Unexpected Death in Opera
Michael Trimble, Dale Hesdorffer (New York, NY, USA)

105 - Referrals to acute neurology and stroke teams in Leeds with functional neurological symptoms: characterising current service use.
Stefan Williams, Melissa Maguire, Jane Alty, Christopher Graham (Ilkley, United Kingdom)

106 - Functional neurological features in Parkinson disease: a multicenter case-control study
Benjamin Wissel, Alok Dwivedi, Danielle Chin, Aristeide Merola, Cara Jacob, Andrew Duker, Jennifer Vaughan, Lilja Lovera, Kathrin LaFaver, Ariel Lev, Anthony Lang, Francesca Morgante, Melissa Nirenberg, Christopher Stephen, Nutan Sharma, Alberto Romagnolo, Leonardo Lopiano, Bettina Balint, Kailash Bhatia, Alberto Espay (Cincinnati, OH, USA)

107 - The impact of non-motor symptoms on health-related quality of life in patients with functional movement disorders
Gabriela Vechetova, Matej Slovak, Pavel Dušek, Tomáš Nikolai, Eva Bolceková, Zuzana Hanzlíková, Evžen Ružicka, Tereza Serranová (Prague, Czech Republic)
**PODIUM PRESENTER**

108 - Attitudes and Knowledge of Local GPs to Patients with Functional Seizures
Ruth Child, Marco Mula, Mark Edwards, Mahinda Yogarajah (London, United Kingdom)

109 - Utilization of Anion gap to differentiate between psychogenic non-epileptic seizures and epileptic seizures in the emergency setting
Yi Li, Liesl Matzka, Louise Maranda, Daniel Weber (Worcester, MA, USA)
**PODIUM PRESENTER**

110 - Functional Sensory Symptoms Progressing Into Cenesthopathy --- Was It Preventable? A Case Report
Hidehiro Shibayama (Chiba, Japan)

111 - Self-assessed depression, anxiety, fatigue and depersonalisation in functional and organic dystonia
Rachel Newby, Jane Alty, D. R. Jamieson, Stephen Smith, Peter Kempster (Melbourne, VIC, Australia)

112 - Minimum voluntary EMG burst duration: Implications for electrodiagnostic investigation of movement disorders
Alexis Collins, Steven Brown, Gaith Tarawneh, Mark Baker (Newcastle upon Tyne, United Kingdom)

113 - The risk of perceived stigma in psychogenic nonepileptic seizures vs. epilepsy
Gregg Rawlings, Ian Brown, Markus Reuber (Sheffield, United Kingdom)
114 - Electrophysiological Characteristics of Voluntary Orthostatic Leg Tremor
Alexis Collins, Marisa Brum, Georgia Collins, Ghaith Tarawneh, Mark Baker (Newcastle upon Tyne, United Kingdom)

115 - Speech, language and swallowing impairments in functional neurological symptom disorder: A scoping review
Caroline Barnett, Christina Smith, Jean Armes (Birmingham, United Kingdom)

116 - Presence of multiple comorbid functional symptoms impacts Psychogenic Nonepileptic Seizures (PNES) outcomes
Gaston Baslet, Benjamin Tolchin, Mary O’Neal, John Sullivan, Carolyn Lee, Molly O’Reilly, Barbara Dworetzky (Boston, MA, USA)

117 - An Exploration of the Long-term Outcome for Patients with Functional Memory Disorder and Depressive Pseudodementia
Josef Mahdi, Kirsty Harkness, Laura Kelly, Jessica Collins, Evaldina Incopte, Markus Reuber, Daniel Blackburn (Sheffield, United Kingdom)

118 - Can Free Association Narrative Interviews help to extend understandings of Psychogenic Non-Epileptic Seizures (PNES)?
Marian Peacock, Jon Dickson, Markus Reuber, Richard Grunewald, Paul Bissell, Steph Howlett (Sheffield, United Kingdom)

119 - Attitudes and nature of diagnostic disputes made by patients with Functional Neurological Disorders in secondary care
Piriyan Kan Ananthavarathan, Shanika Samarasekera (Barnet, Hertfordshire, United Kingdom)

120 - Predictors of Quality of Life in Children with PNES: The Impact of PNES Frequency
Lindsey Elliott, Lauren Bolden, Aaron Fobian (Birmingham, AL, USA)

121 - Pitfalls of Diagnosing Functional Neurological Disorders in the Emergency Ward
Carlo Dallocchio, Carla Arbasino, Federica Bombieri, Angela Marotta, Michele Tinazzi (Voghera, Italy)

122 - Demographic and clinical characteristics of patients with functional motor disorders: the prospective Salpêtrière cohort
Nicolas Villain, Francine Mesrati, Lionel Naccache, Marie Vidailhet, Emmanuel Flamand-Roze, Bertrand Degas, Béatrice Garcin (PARIS, France)

123 - Functional movement disorders and associated psychiatric comorbidity in US veterans
Joel Mack, Joseph Quinn, Brenna Lobb, Susan O’Connor (Portland, OR, USA)
PODIUM PRESENTER

124 - Systematic Review: Electrophysiology in Movement Disorders
Steven Brown, Mark Baker (Milton Keynes, United Kingdom)

125 - Semiological Classification Of Psychogenic Nonepileptic Seizures With The Video-Eeg Study In A Reference Epilepsy Surgery Center In Venezuela
Anilu Daza Restrepo, Rosaly Gonzalez Zerpa, Arnoldo Soto Reyes, Guilca Contreras, Angelica Aroni Paytan, Valentin Sainz, Herman Scholtz (Caracas, Venezuela)
PODIUM PRESENTER

126 - Withdrawn by author

127 - Current projects of the Functional Neurological Disorders Research Group (FRG) University of Edinburgh
Jon Stone, Alan J. Carson, on behalf of the FRG including Jeannette Gelauff, Ingrid Hoeritzauer, Laura McWhirter, Paula Gardiner, Lindsey McGregor, H Callaghan (Edinburgh, Scotland)

128 - Cryptogenic Drop Attacks revisited – evidence of overlap with Functional Neurological Disorder
Ingrid Hoeritzauer, Alan J. Carson, Jon Stone (Edinburgh, Scotland)

129 - Are Functional Neurological Disorder Symptoms Dependent Upon the Patient’s Understanding of the Symptom?
Emily Cox, Ingrid Hoeritzauer, Laura McWhirter, Jakov Tiefenbach, Mhairi Paterson, Alistair Crawford, Komal Ahmed, Liam Delaney, Abigail Southgate, Jon Stone (Edinburgh, Scotland)
130 - Cauda Equina Syndrome (CES): What happens to the patients who have CES symptoms but negative scans?
Ingrid Hoeritzauer, Savva Pronin, Alan J. Carson, Patrick Statham, Andreas K. Demetriades, Jon Stone (Edinburgh, Scotland)

Abstracts – Aetiology and Mechanism
Thursday, September 7

200 - Gray matter differences in patients with functional movement disorders
Carine Maurer, Kathrin LaFaver, Gaurang Limachia, Geanna Capitan, Rezvan Ameli, Stephen Sinclair, Steve Epstein, Silvina Horovitz, Mark Hallett (Bethesda, MD, USA)

PODIUM PRESENTER

201 - Withdrawn by author

202 - Emotion processing in patients with Functional Neurological Disorders: comparing Nonepileptic Attacks with other Functional Neurological Symptoms
Isobel Williams, Liat Levita, Markus Reuber (Sheffield, United Kingdom)

203 - Severity and Correlates of Illness Anxiety in Three Functional Neurologic Disorders
Mary Widmeyer, Jeffrey Staaeb (Rochester, MN, USA)

204 - Abnormal beta power is a hallmark of explicit movement control in functional movement disorders
Tiago Teodoro, Anne Marthe Meppelink, Simon Little, Robert Grant, Glenn Nielsen, Antonella Macerollo, Isabel Parees (London, United Kingdom)

PODIUM PRESENTER

205 - A case control study of 322 functional motor disorder patients utilising a psychiatric case register
Nicola O’Connell, Anthony David (London, United Kingdom)

PODIUM PRESENTER

206 - Structural MRI changes in cerebral psycho-motor networks in functional tremor
Sebastian Franthal, Stephan Sailer, Nina Homayoon, Mariella Koegl, Petra Katschnig-Winter, Karoline Wenzel, Reinhold Schmidt, Petra Schwingenschuh (Graz, Austria)

207-Salience Network Structural Alterations Linked to Health-Related Quality of Life in Functional Neurological Disorder
David Perez, Benjamin Williams, Nassim Matin, W. Curt LaFrance, Victor Costumero-Ramos, Gregory Fricchione, Jorge Sepulcre, Matcheri Keshavan, Bradford Dickerson (Boston, MA, USA)

208 - Metacognition of Visuomotor Performance In Conversion Disorder
Indrit Sinanaj, Rebekah Blakemore, Julian Klug, Silvio Galli, Yann Cojan, Alexandre Berney, Selma Aybek, Patrik Vuilleumier (Geneva, Switzerland)

209 - Response inhibition and conflict in functional weakness
Graeme Hammond-Tooke, Karleigh O’Connor (Dunedin, New Zealand)

PODIUM PRESENTER

210 - Is functional weakness associated with neural correlates in imaging studies? A systematic review of the evidence
Lori Black (Cardiff, United Kingdom)

211 - Attention and functional movement disorders: Its role in symptom generation and sense of agency
Anne-Catherine Huys, Mark Edwards, Patrick Haggard, Kailash Bhatia (London, United Kingdom)

212 - The nocebo effect: how headache pain is generated by biological, psychogenic and social factors
Diletta Barbiani, Eleonora Camerone, Fabrizio Benedetti (Turin, Italy)
213 - Are there gender differences in psychogenic non-epileptic seizures: demographically, clinically and psychologically
Lorna Myers, Robert Trobliger, Kirsty Bortnik, Marcelo Lancman (New York, NY, USA)

214 - The truth about cognitive impairment in functional motor disorders: an experimental deception study with the Guilty Knowledge Task
Benedetta Demartini, Roberta Ferrucci, Diana Goeta, Fabiana Ruggiero, Alberto Priori, Orsola Gambini (Milan, Italy)

215 - Anorexia Nervosa and Functional Motor Symptoms: two faces of the same coin?
Benedetta Demartini, Diana Goeta, Luigi Romito, Simona Anselmetti, Sara Bertelli, Orsola Gambini (Milan, Italy)

216 - The Emotional Component of Pain Is Impaired In Functional Dystonia
Francesca Morgante, Angela Matinella, Elisa Andreelli, Cosimo Allegra, Carmen Terranova, Paolo Girlanda, Michele Tinazzi (Messina, Italy)

217 - Attention Bias in Adults with Non Epileptic Seizures
Clive Bellis, Jason Price (Durham, United Kingdom)

218 - How do Patients with epilepsy differ from patients with PNES: initial formulation of a paradigm shift
David Anderson, Maria Damianova, Skye Hanekom, Marilyn Lucas (Johannesburg, South Africa)

219 - Higher volume of the supplementary motor area in patients with functional movement disorders: a VBM study
Pavel Dusek, Robert Jech, Matej Slovak, Karsten Mueller, Jiří Keller, Filip Ružicka, Tereza Serranová (Prague, Czech Republic)

220 - Relationship between traumatic experiences and psychogenic non-epileptic seizures
Skye Hanekom, Maria Damianova, David Anderson (Johannesburg, South Africa)

221 - Functional neuroimaging of functional movement disorders (FMD) before and after a rehabilitation program
Leonard Faul, Brendan Depue, Alexandra Jacob, Darryl Kaelin, Alberto Espay, Kathrin LaFaver (Louisville, KY, USA)

PODIUM PRESENTER

222 - Withdrawn by author

223 - A comparison between the prevalence of alexithymia in patients with psychogenic non-epileptic seizures, epilepsy and the healthy population - a systematic review of the literature
Bruno Silva, Ana Sequeira (Lisbon, Portugal)

224 - Identifying contributing factors in individual patients with a (functional) tremor
Gerrit Kramer, Marina De Koning-Tijssen (Groningen, Netherlands)

225 - Illness attention and somatic interpretations in functional neurological disorder and chronic fatigue syndrome
Roxanne Keynejad, Alicia Hughes, Susannah Pick, Colette Hirsch, Rona Moss-Morris, Trudie Chalder, Timothy Nicholson (London, United Kingdom)

226 - Altered brain metabolism associated with functional motor disorder
Ismael Conejero, Laurent Collombier, Emilie Olié, Philippe Courtet, Mocrane Abbar, Eric Thouvenot (Montpellier, France)

PODIUM PRESENTER

227 - Psychic causes of autobiographical amnesia: A study of 27 cases
Jessica Collins, Hans Markowitsch (Sheffield, United Kingdom)

228 - Preoperative Quantitative Evaluation of Dysfunctional Determinants in Abnormal Head Postures
Emily Sanrey (Montpellier, France)

229 - Cognitive Behavioral Therapy for Functional Tremor: Clinical and Functional Magnetic Resonance Study
Alberto Espay, Thomas Maloney, Jennifer Vannest, Erin Neefus, Jane Allendorfer, Anthony Lang, Jerzy Szafarski (Cincinnati, OH, USA)

PODIUM PRESENTER
Abstracts – Treatment
Friday, September 8

300 - Long Term Result and Safety of the Subthalamic Nucleir DBS of Advanced Parkinson’s Disease: An Eight Year Follow Up Study
Qiuy Guo, Lulu Jiang, Shaohua Xu, Chen Wanru, Wenbiao Xian, Yanmei Liu, Jinglong Liu, Ling Chen (Guangzhou Shi, Peoples Republic of China)

301 - Characteristics and outcomes of children with conversion disorder admitted to inpatient rehabilitation unit, a retrospective study
Ashlee Bolger, Andrew Collins, Michelle Michels, David Pruitt (Loveland, OH, USA)

302 - Outcomes of a Five Week Intensive Multidisciplinary Rehabilitation Outpatient Programme for people with Functional Neurological Symptoms
Hannah Louissaint, Jasbir Ranu (London, United Kingdom)

303 - Functional Outcomes of a Four Week Intensive Multidisciplinary Rehabilitation Programme for people with Functional Neurological Symptoms
Hannah Louissaint, Jasbir Ranu (London, United Kingdom)

304 - A novel treatment protocol for Functional Neurological Symptom Disorder (FNSD): A retrospective consecutive case series
Matt Richardson (Dunedin, New Zealand)

305 - Impact of transcranial magnetic stimulation in functional movement disorders: cortical modulation or behavioral effect?
Beatrice Garcin, Francine Mesrati, Iulia Iliescu, Cécile Hubsch, Lionel Naccache, Emmanuel Roze, Bertrand Degos (Paris, France)

PODIUM PRESENTER

306 - EMDR in the treatment of functional speech disorders
Miriam Lomas (Durham, United Kingdom)

307 - Treatment of patients suffering from functional neurological motor dysfunction
Peter Arlien-Søborg, Hans Henrik Holmberg Olsen, Lis Albrechtsen (Copenhagen, Denmark)

308 - A multidisciplinary clinic for functional movement disorders (FMD): One-year experience from a single center
Alexandra Jacob, Courtney Smith, Megan Jablonski, Abby Roach, Kathy Paper, Darryl Kaelin, Diane Stretz-Thurmond, Kathrin LaFaver (Louisville, KY, USA)

309 - Documentation Bias in Functional Neurological Disorders: Comparing the Prevalence and Documentation of Suspected FND with Other Common Neurological Disorders
Katherine Werbaneth, Katie Emily Leaver, Kim Bullock (Palo Alto, CA, USA)

310 - Virtual Reality Delivered Mirror Visual Feedback for Functional Neurological Disorder
Kim Bullock, Andrea Won -Stevenson, Jeremy Bailenson (Stanford, CA, USA)

311 - Botulinum Neurotoxin (BoNT) for treatment of functional (psychogenic) jerky movement disorders: a randomized placebo-controlled clinical trial
Yasmine Dreissen, Joke Dijk, Jeannette Gelauff, Evelien Zoons, Maria Fiorella Contarino, Rudi Steenbergen-Zutt, Bart Post, Daniel Van Poppelen, Alexander Munts, Johannes Speelman, Rob De Haan, Johannes Koelman, Marina De Koning-Tijssen (Amsterdam, Netherlands)

312 - Treatment of four 14-year old girls with non-epileptic seizures (NES) in the same school where successful treatment of the index case had a significant impact on the others
Maria Hadji-Michael, Eve McAllister, Tara Murphy, Isobel Heyman (London, United Kingdom)
313 - Diagnosing psychogenic nonepileptic seizures: video-EEG monitoring, suggestive seizure induction and diagnostic certainty
Stoyan Popkirov, Johannes Jungilligen, Wenke Grönheit, Jörg Wellmer (Bochum, Germany)

314 - Outcome data from a functional seizure psychology service
Tammy Walker (Nottingham, United Kingdom)

315 - Multidisciplinary Treatment and Outcome Registry Collaboration for Dystonia and Functional Movement Disorders
Alyssa Elder, Julie Hershberg, Allie Southam, Sarah Patejak, Arik Johnson, Allan Wu (Los Angeles, CA, USA)

316 - Neuropsychiatric Factors Linked to Adherence and Short-Term Prognosis in a US Functional Neurological Disorders Clinic: a Retrospective Cohort Study
Sean Glass, Nassim Matin, Benjamin Williams, Julie Mello, Christopher Stephen, Sigrid Young, Janet Callahan, W. Curt LaFrance, David Perez (Boston, MA, USA)

317 - Outcomes of functional neurological disorder patients requiring physiotherapy and neuropsychology
Dharsha Navaratnam, Alexander Downie, Megan Broughton, Rian Dob, Alexander Lehn (Brisbane, QLD, Australia)

318 - Outcomes of a Time Limited Physiotherapy Service within a Dedicated Functional Neurological Disorder Clinic
Dharsha Navaratnam, Anthea Goslin, John Fitzgerald (Brisbane, QLD, Australia)

319 - Survey of Perceptions of Health Practitioners regarding Functional Neurological Disorders (FND)
Joanne Bullock-Saxton, Peter Newcombe, Jon Stone, Alan Carson, Alexander Lehn (South Brisbane, QLD, Australia)

320 - Development of a novel method of “explanation as treatment” with neuropsychological assessment and debriefing (NAD) for functional movement disorders (FMD)
Hiral Shah, Jason Krellman, Stephanie Assuras (New York, NY, USA)

321 - Risk Stratification for individuals with functional movement disorders (FMD)
Hiral Shah, Jason Krellman, Stephanie Assuras (New York, NY, USA)

322 - Eye Movement Desensitisation and Reprocessing (EMDR) as a clinical intervention in the treatment of dissociative seizures
Abrar Hussain (Bracknell, Berkshire, United Kingdom)

323 - Healthcare professionals’ experiences of providing inpatient care for patients with functional neurological symptoms: Interdisciplinary focus group interviews
Guðbjörg Andrésdóttir, Aldís Hauksdóttir, bórdís Hjartardóttir, Helga Jónsdóttir, Marianne Klinke (Reykjavík, Iceland)

324 - Functional disorder in the Department of Neurology in the National University hospital of Iceland in 2014-2015 and Physiotherapists’ knowledge of the disorder
Guðbjörg Andrésdóttir, Agnes Snorradóttir, Freyja Barkardóttir, bjóðbjörg Guðjónsdóttir (Reykjavík, Iceland)

325 - Lessons from Constraint-Induced Therapy (CI therapy) for Rehabilitating Behaviorally-Maintained Motor Deficits
Victor Mark, Edward Taub, David Morris, Gitendra Uswatte (Birmingham, AL, USA)

326 - Service Evaluation of a Functional Neurological Disorder Team in the Highlands of Scotland
Heather Ireland, Emma Burton (Inverness, United Kingdom)

327 - Functional neurological symptoms: Piloting a group protocol
Nicole Scheiner, Amanda Agyare (Watford, United Kingdom)

328 - Two studies of inpatient rehabilitation outcomes for patients with functional neurological disorders (FND)
Philip Yates, Timothy Harrower, Elizabeth Parry, Jac Dendle (Devon, United Kingdom)

329 - Functional Neurological Disorders and Patient Reported Experiences of the NHS
Mahinda Yogarajah, Ibrahim Chowdhury, Tiago Teodoro, Mark Edwards (London, United Kingdom)
330 - The Archeology of treatment of functional neurological symptom (conversion) disorders in Castle Hornberg in Black Forrest: From torpillage and faradic current treatment to TENS (Transcutaneous electrical nerve stimulation)
Hans Markowitsch, Hans Markowitsch, Hans Markowitsch, Angelica Staniloiu, Angelica Staniloiu, Angelica Staniloiu, Monika Finke, Andreas Wahl-Kordon (Baden-Baden, Germany)

331 - Evaluation of a multidisciplinary FND Workshop for patients and their family members
Sarah Cope, Mark Edwards, Kate Holt, Norman Poole, Shakiba Azizi, Niruj Agrawal (London, United Kingdom)

332 - Functional Neurological Symptoms and Idiopathic Intracranial Hypertension
Jan Coebergh, Mark Edwards (Hinchley Wood, United Kingdom)

333 - Guided self-help treatment for Functional Neurological Symptoms: Internet-based Psychoeducation
Sue Humblestone, Michael Moutoussis (London, United Kingdom)

334 - Multidisciplinary rehabilitation for patients with Functional Neurological Disorder (FND)
Monica Aasnes, Kerstin Wahman (Solna, Sweden)

335 - A report on a new pilot day hospital treatment programme for Functional Neurological Disorders at the Maudsley / Bethlem Royal Hospital
Simon Harrison, Yvonne Hsieh, Vaida Gudeliunaite, Maria Avraam, Paul Davies (London, United Kingdom)

336 - A striking case of a functional quadriplegia – what next when functional disorders are resistant to physiotherapy?
Alexandra Boogers, Ludo Vanopdenbosch (Aalst, Belgium)

337 - Visual-feedback in Psychogenic Movement Disorders & Its Management
Sunita Gudwani, S Kumaran, Rajesh Sagar, Gaurishankar Kaloiya, Madhuri Behari (New Delhi, India)

PODIUM PRESENTER

338 - Embedded Neuropsychiatric services within a Comprehensive Epilepsy Program: Improving access to early assessment for PNES
Adith Mohan, Rebecca Koncz, Ernest Somerville, Christian Zentner, Hanka Laue-Gizzi, Perminder Sachdev (Randwick, NSW, Australia)

339 - Motor retraining program by means of a smartphone for patients with functional neurological symptoms: Protocol for a feasibility study
Federica Bombieri, Lucia Ricciardi, Angela Marotta, Mirta Fiorio, Carlo Dallocchio, Michele Tinazzi, Benedetta Demartini (Verona, Italy)

340 - Early Experience of the First Multidisciplinary Unit for Functional Movement Disorders in Spain
Isabel Parees, Leticia Martinez, Monica Kurtis, Marta Sanz, Blanca Borda, Carmen Vicente, Pilar Rada, Beatriz Martin, Javier Perez-Sanchez, Montserrat Garcia, Oriol Franch (Madrid, Spain)

341 - Informal caregiver (CG) behavior and the mutual impact on the functional patient: An analysis of a psychotherapeutic group offered to the CG
Eduardo Mutarelli, Ymara Lucia Camargo Vitolo, Bruna Bartorelli (Sao Paulo, Brazil)

342 - Treatment of Functional Movement Disorders in an Outpatient Rehab Setting: A Pilot Study
Daniel Schneider, Shaloo Choudhary, Mary Jo Bronson (New Brunswick, NJ, USA)

343 - Withdrawn by author

344 - The rehabilitation of functional neurological (symptom) disorders and dissociative disorders after a mild TBI and mild TBI prognosis
Jessica Collins, Hans Markowitsch (Sheffield, United Kingdom)
345 - Treatment of chronic functional hemiplegia with time-limited inpatient multidisciplinary team (MDT) intervention – a case report
Anna Rutherford (Salford, United Kingdom)

346 - Expectation-based Functional Symptom Therapy for the Inpatient Management of FND
Lindsey MacGillivray, Sarah Lidstone, Mateusz Zurowski, Anthony Lang (Toronto, ON, Canada)

348 - Efficacy of Stimulus Control and Retraining Therapy (SCRT) for Pediatric Patients with PNES
Aaron Fobian, Lindsey Elliott, Christina Mueller, Lauren Bolden, Jerzy Szaflarski (Birmingham, AL, USA)

PODIUM PRESENTER

349 - The Effects of Group Psychodynamic Therapy on Psychological Characteristics and Psychogenic Non-Epileptic Seizure Frequency in Patients with Functional Neurological Symptom Disorder
Juliana Lockman, Ariela Karasov, Craig Forte, John Barry, Kim Bullock, Sepideh Bajestan (Menlo Park, CA, United States)

Full Abstracts are available online
www.movementdisorders.org/Private/2017-Pages/FND-2017-Final-Abstract-Booklet.htm

Free time in Edinburgh?
Go to the FND2017 website for Alan Carson’s personal guide to Edinburgh.

**Functional Neurologic Disorders**, a volume in the Handbook of Clinical Neurology series, summarizes state-of-the-art research findings and clinical practice on this class of disorders at the interface between neurology and psychiatry. This volume offers an historical introduction, chapters on epidemiology and pathophysiology, a large section on the clinical features of different type of functional neurologic symptoms and disorders (including functional movement disorders, non-epileptic seizures, dizziness, vision, hearing, speech and cognitive symptoms), and then concluding with approaches to therapy.

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JUNE 22-24, 2018 MIAMI, FLORIDA, USA

International Congress of Parkinson’s Disease and Movement Disorders
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Welcome to our three FND charities represented at www.fnd2017.org!

**fndhope.org** was the first patient led organisation for functional neurological disorders and was started by Bridget Mildon. Includes FNDHope UK, FNDHope Netherlands and FNDHope Australia.

**fndaction.org.uk** is a patient-led organisation for functional neurological disorders and dissociative (non-epileptic) attacks focusing on the UK.

**nonepilepticattackdisorder.org.uk** is part of fndaction specific for non-epileptic attacks.

**fnddimensions.org** is a patient-led organisation that focuses especially on creating a network of ‘peer support groups’ across the UK either in face to face meetings or online via methods such as Skype.

Health Professional Run Resources for FND

**Functional Neurological Forum**

**neurosymptoms.org**
A self-help site for patients run by Jon Stone.

**nonepilepticattacks.info**
A self-help site for patients run by Markus Reuber and colleagues.