LIVE Course Planning and Review Form

Activity title: Tremor from Basic Science to Clinical Diagnosis and Therapy

Tentative date: November 10-11, 2017

Location (must not be on the list of US travel warnings): Semmelweis University, Budapest, Hungary

Number of anticipated attendees: 100

Total number of credits requested: _____None _____ACCME _____TBD-10 _____EACCME _____ other

If ACCME credit, please attach accreditation cover page to course proposal document. Accreditation statement must appear on all activity materials except “save the date”.

Sponsorship Type: ___X___Directly _____ Other:

Type of Activity

X One-Time Live Activity

☐ Repeating Live Activity (List all dates and locations below)

<table>
<thead>
<tr>
<th>Dates</th>
<th>City &amp; State</th>
<th>Facility</th>
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Review Status

MDS-_ES_ Education Committee Date Reviewed ____________ Date Approved ____________

MDS-_ES_ Executive Committee Date Reviewed ____________ Date Approved ____________

MDS Education Committee Date Reviewed ____________ Date Approved ____________

MDS Officers Date Reviewed ____________ Date Approved ____________
**Course Director(s)**

1. Gertrúd Tamás  
2. Matej Skorvanek  
3. Loránd Erőss

**Proposed Faculty**

1. László Acsády  
2. István Balás  
3. Péter Barsi  
4. Kailash Bhatia  
5. Günther Deuschl  
6. Marina de Koning-Tijssen  
7. Norbert Kovács  
8. Evžen Růžička  
9. Jens Volkmann  
10. Peter Valkovic  
11. Muthuraman Muthuraman

1. Institute of Experimental Medicine of the Hungarian Academy of Sciences, Budapest, Hungary  
2. University of Pécs, Pécs, Hungary  
3. Semmelweis University, Budapest, Hungary  
4. University College London, London, UK  
5. Christian-Albrechts University, Kiel, Germany  
6. University of Groningen, Groningen, the Netherlands  
7. University of Pécs, Pécs, Hungary  
8. Charles University, Prague, Czech Republic  
9. Julius Maximilians University, Würzburg, Germany  
10. Comenius University, Bratislava, Slovak Republic  
11. Johannes Gutenberg University, Mainz, Germany

**Reviewers**

MDS-ES Education Committee,  
MDS-ES Executive Committee,  
MDS Education Committee,  
MDS Officers

**MDS Staff**

Sabine Gifford, Heather Vitale

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**Marketing**

**Course description statement:** Tremors are common but present in different movement disorders. The sources and networks for their generation are still of interest in basic and clinical studies; their clinical diagnosis is a challenge. This course is intended for neurologists, neurosurgeons, neuroscientists and general practitioners interested in tremor. In the course evidence-based results and speakers experiences will be reviewed from the basic science and clinical point of view; it will involve the new tremor classification scheme, which is being developed by the International Parkinson and Movement Disorder Society. The course also focuses on the approach to pharmacotherapy and discusses the neurosurgical procedures with emphasis on deep brain stimulation. Video case reports submitted by the participants will be presented at the end of the program precipitating further discussions.

**Potentially conflicting meetings** *(Competing meetings during that same period which could affect participation of the target audience)*


Please suggest any Associations, Societies or Contacts in the region that MDS marketing may want to use as potential marketing targets for this course:

<table>
<thead>
<tr>
<th>Association</th>
<th>E-mail address</th>
<th>Contact Person</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hungarian Neurology Society</td>
<td><a href="mailto:csiba@med.unideb.hu">csiba@med.unideb.hu</a></td>
<td>Prof. László Csiba</td>
</tr>
<tr>
<td>Hungarian Scientific Parkinson Society</td>
<td><a href="mailto:klivenyi.peter@med.u-szeged.hu">klivenyi.peter@med.u-szeged.hu</a></td>
<td>Prof. Péter Klivényi</td>
</tr>
<tr>
<td>Hungarian Neurosurgical Society</td>
<td><a href="mailto:mit@neurosurgery.org.hu">mit@neurosurgery.org.hu</a></td>
<td>Prof. Pál Barzó</td>
</tr>
<tr>
<td>Movement Disorder section of the Slovak Neurological Society</td>
<td><a href="mailto:peter.valkovic@gmail.com">peter.valkovic@gmail.com</a></td>
<td>Prof. Peter Valkovic</td>
</tr>
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</table>
Attachment 1 – Agenda

This course will include a Rare Movement Disorder disease (Orphan) topic as one of its session presentations.

If checked, please name the Rare disease (Orphan) topic(s) to be covered in presentation:
1. rare genetic tremor disorder: ORPHA307061
2. hereditary essential tremor: ORPHA862
3. Primary orthostatic tremor: ORPHA238606

<table>
<thead>
<tr>
<th>DAY 1 – Friday, November 10, 2017</th>
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<tbody>
<tr>
<td><strong>BASIC SCIENCE</strong></td>
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<tr>
<td>13:00 – 13:15 Welcome and Introductions</td>
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</table>
| 13:15 – 13:45 Anatomy and Physiology of Tremors – A Thalamic Viewpoint  
  Prof. László Acsády – Budapest, Hungary |
| 13:45 – 14:15 Tremor Networks  
  Prof. Jens Volkmann, Würzburg, Germany |
| 14:15 – 14:45 Functional Investigations of Tremor Networks  
  Muthuraman Muthuraman, Mainz, Germany |
| 14:45 – 15:00 Round Table Discussion |
| 15:00 – 15:30 COFFEE BREAK       |

<table>
<thead>
<tr>
<th><strong>CLINICAL DIAGNOSIS 1</strong></th>
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| 15:30 – 16:00 New Classification of Tremor  
  Prof. Kailash Bhatia, London, United Kingdom |
| 16:00 – 16:30 Essential Tremor, Dystonic Tremor  
  Prof. Günther Deuschl, Kiel, Germany |
| 16:30 – 17:00 Tremor in Parkinsonian syndromes  
  Dr. Matej Skorvanek, Kosice, Slovakia |
| 17:00 – 17:30 COFFEE BREAK |
| 17:30 – 18:00 Jerky or Shaky – Differential Diagnosis of Tremor Look-alikes  
  Prof. Marina de Koning-Tijssen, Groningen, Netherlands |
| 18:00 – 18:30 Inherited Tremor Syndromes  
  Prof. Kailash Bhatia, London, United Kingdom |
| 18:30 – 19:00 Uncommon Tremor Syndromes, Functional Tremor  
  Prof. Evžen Růžička, Prague, Czech Republic |
<p>| 19:00 – 19:15 Round Table Discussion |</p>
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker/Location</th>
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<tbody>
<tr>
<td>09:00 – 09:30</td>
<td>Clinical Examination of Tremor Patients</td>
<td>Prof. Günther Deuschl, Kiel, Germany</td>
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<tr>
<td>09:30 – 10:00</td>
<td>Practical Application of Tremor Scales</td>
<td>Dr. Norbert Kovács, Pécs, Hungary</td>
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<td>10:00 – 10:30</td>
<td>Electrophysiological and Kinematic Analysis of Tremor</td>
<td>Dr. Gertrúd Tamás, Budapest, Hungary</td>
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<td>10:30 – 11:00</td>
<td>Neuroimaging of Tremor Syndromes</td>
<td>Prof. Péter Barsi, Budapest, Hungary</td>
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<td>11:00 – 11:15</td>
<td>Round Table Discussion</td>
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**Pharmacological and Neurosurgical Therapy of Tremor**

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<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>11:15 – 11:45</td>
<td>Pharmacological Therapy of Tremor</td>
<td>Prof. Evžen Růžička, Prague, Czech Republic</td>
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<tr>
<td>11:45 – 12:00</td>
<td>Botulinum Toxin for Tremor? Review of the Literature</td>
<td>Prof. Peter Valkovic, Bratislava, Slovakia</td>
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<tr>
<td>12:00 – 12:15</td>
<td>Round Table Discussion</td>
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<td>12:15 – 13:00</td>
<td>LUNCH</td>
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<td>13:00 – 13:30</td>
<td>Targeting in Tremor Surgery</td>
<td>Dr. Loránd Erőss, Budapest, Hungary</td>
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<tr>
<td>13:30 – 14:00</td>
<td>Deep Brain Stimulation for Tremor in Parkinson’s disease and Essential Tremor</td>
<td>Prof. Günther Deuschl, Kiel, Germany</td>
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<td>14:00 – 14:30</td>
<td>Deep brain stimulation for uncommon types of tremor</td>
<td>Prof. Jens Volkmann, Würzburg, Germany</td>
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<td>14:30 – 15:00</td>
<td>Thalamotomy (Thermacoagulation, Gamma Knife, Ultrasound)</td>
<td>Dr. István Balázs, Pécs, Hungary</td>
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<tr>
<td>15:00 – 15:15</td>
<td>Round Table Discussion</td>
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<td>15:15 – 15:45</td>
<td>COFFEE BREAK</td>
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**Case Demonstrations**

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<tr>
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<th>Session</th>
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<tr>
<td>15:45 – 16:45</td>
<td>Video Case Presentations (10 – 12 presentations, approx. 5 minutes per presentation)</td>
<td>Prof. Peter Valkovic, Bratislava, Slovakia</td>
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<tr>
<td>16:45 – 17:00</td>
<td>Closing Remarks</td>
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