10th World Congress for NeuroRehabilitation

7-10 February, 2018
Renaissance Mumbai Convention Centre Hotel, Powai, Mumbai, India

www.wcnr2018.in
E-mail: wcnr2018@gmail.com

FROM NEUROTECHNOLOGIES TO COMMUNITY CARE

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Endorsed by:

World Federation for NeuroRehabilitation
Indian Federation of NeuroRehabilitation
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Dear Colleagues and Friends,

It is our great pleasure to welcome you all in Lausanne for the 4th European Congress of NeuroRehabilitation!

The mission of the European Federation of NeuroRehabilitation (EFNR) is to advance the quality of science, services and education in the field of neurorehabilitation across Europe. Due to the different approaches for neurorehabilitation in the various European countries, the EFNR promotes a common platform for discussion of organisational models and rehabilitation ideologies.

Again, the ECNR will cover a broad spectrum of topics in neurorehabilitation in plenary lectures, invited symposia, and workshops. Since a major aim of the meeting is to provide a platform for young scientists to present their results and ideas, we are delighted that many “next generation`s researchers” will join us in a special session on Friday.

International experts from Europe and overseas will address hot topics on a multidisciplinary basis with a major emphasis on new treatments, pharmacology, and technology. Three round table discussions will allow an interactive exchange of ideas on education, future aspects of neurorehabilitation, and rehab technology.

With kindest regards and best wishes for a stimulating and enlightening congress,

Leopold Saltuari  
Congress President

Volker Hömberg  
Programme Chair
Dear Colleagues,

The exchange of the newest research results and the construction of transnational networks is essential for the development of our medical field and to construct important networks. Therefore, it is our pleasure to invite you to the ECNR 2017 – 4th European Congress of NeuroRehabilitation from 25–28 October in Lausanne. The main focus will be on “Newest developments in Neurorehabilitation – Treatments, Pharmacology and Technology”. With the collaboration of the programme committee, we want to create an exciting programme around the main topics acute and post-acute neurorehabilitation, neuropharmacology and biomarkers as well as neurotechnologies. We are sure to win current pioneers for our keynote lectures.

Organising this congress at The SwissTech Convention Centre Lausanne gives our European society the exceptional occasion to symbolise the technological and scientific progress of neurorehabilitation. The high tech environment joint to cultural and natural beauty in the centre of Europe encourages the network for researchers and clinicians.

The Lausanne University Hospital, better known as CHUV (Centre hospitalier universitaire vaudois), is one of the five university hospitals in Switzerland. It provides care for in-patients and out-patients in all branches of medicine and surgery, including both somatic and psychiatric disciplines. The CHUV permit to develop the acute Neurorehabilitation as a pilot university hospital in Switzerland. As a university hospital, the CHUV works in close partnership with the University of Lausanne and with the Ecole polytechnique fédérale de Lausanne (EPFL). EPFL is Europe’s most cosmopolitan technical university and is centered on its three missions: teaching, research and technology transfer.

We are looking forward to a stimulating and successful exchange at the ECNR 2017 in Lausanne.

Yours sincerely,

Karin Diserens
**Venue**
SwissTech Convention Center
Quartier Nord de l’EPFL
Route Louis-Favre 2
1024 Lausanne | Switzerland
www.stcc.ch

**Congress Website**
www.ecnr-congress.org

**Congress President**
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**Programme Chair**
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Bad Wimpfen GmbH
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**Local Organising Committee Chair**
Karin Diserens
Head of the transverse unit of acute neurorehabilitation Neurology Service | Department of Clinical Neuroscience
Centre Hospitalier Universitaire Vaudois
1011 Lausanne | Switzerland

**Collaborating Societies**
EFNR — The European Federation of NeuroRehabilitation Societies

*in collaboration with*

OeGNR — The Austrian Society of NeuroRehabilitation

SGNR — The Swiss Society of NeuroRehabilitation

**Professional Congress Organiser**
Conventus Congressmanagement & Marketing GmbH
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<td>WS 3: Multiple Resistant Bacteria regiments in early rehab</td>
<td>WS 4: Dysphagia</td>
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<td>WS 7: Special neuromotor procedures on early neurorehab ward</td>
<td>WS 8: How to deal with tricky spasticity problems</td>
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<td>WS 10: Neurorehabilitation pharmacology</td>
<td>WS 11: Transcranial magnetic stimulation for stroke rehab</td>
<td>WS 12: Pediatric neurorehabilitation</td>
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**Welcome Reception within the Industrial Exhibition**

**ePoster Sessions 1–7**

**Abbreviations:**

WS  Workshop  IS  Invited Symposium  OC  Oral Communications
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<td>IS 22: Prognosis of recovery: clinical evaluation/ biomarkers</td>
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Room        | Garden 5 A, B
             | V. Hömberg (Bad Wimpfen/DE)

12:00–14:00  Workshop 2  |  Clinical research – methodological challenges and advances within the framework of study design, meta-analyses and clinical practice guidelines
Room        | Garden 4 B, C
             | J. Vester (Krailling/DE)

12:00–14:00  Workshop 3  |  Multiple resistant bacteria regiments in early rehabilitation – What is rational?
Room        | Garden 1 A, B
             | D. Boering (Bad Wimpfen/DE), N. Schmitt (Heilbronn/DE)

12:00–14:00  Workshop 4  |  Dysphagia
Room        | Garden 5 C
             | H. Matzak, E. Pucks-Faes (Tirol/AT)

14:15–16:15  Workshop 5  |  Newest in motor rehabilitation for lower extremity
Room        | Garden 5 A, B
             | L. Saltuari (Hochzirl/AT)

14:15–16:15  Workshop 6  |  Neurologic music therapy (NMT) – scientific foundations and clinical applications
Room        | Garden 4 B, C
             | M. Thaut (Toronto/CA)

14:15–16:15  Workshop 7  |  Special neuromotor procedures on the early neurorehabilitation ward
Room        | Garden 1 A, B
             | F. Müller (Bad Aibling/DE), G. Frazzitta (Gravedona/IT)

14:15–16:15  Workshop 8  |  How to deal with tricky spasticity problems
Room        | Garden 5 C
             | D. Boering (Bad Wimpfen/DE), J. Wissel (Berlin/DE)
16:30–18:30  Workshop 9  I  How to deal with the aphasic patient
Room  Garden 5 A, B
M. L. Berthier (Malaga/ES), B. Mohr-Pulvermüller (Berlin/DE)

16:30–18:30  Workshop 10  I  State of the art in neurorehabilitation pharmacology
Room  Garden 4 B, C
T. Buclin (Lausanne/CH), D. Mureșanu (Cluj Napoca/RO)

16:30–18:30  Workshop 11  I  Transcranial magnetic stimulation for stroke rehabilitation
Room  Garden 1 A, B
F. C. Hummel (Geneva/CH), U. Ziemann (Tübingen/DE)

16:30–18:30  Workshop 12  I  Pediatric neurorehabilitation
Room  Garden 5 C
H. van Hedel, A. Meyer-Heim (Zurich/CH)

18:30–20:30  Welcome Reception within the Industrial Exhibition

19:00–20:30  ePoster Sessions 1–7 (please see page 43)
Rooms  Offices G-M
08:30–09:00 Opening Ceremony
Room Garden 2/3

Welcome Note from the Congress President
L. Saltuari (Hochzirl/AT)

Welcome Note from the Local Organising Committee Chair
K. Diserens (Lausanne/CH)

Welcome Note from the Programme Committee Chair
V. Hömberg (Bad Wimpfen/DE)

Welcome Note from the Director of the CHUV
P.-F. Leyvraz (Lausanne/CH)

09:00–10:00 Plenary Lecture 1
Room Garden 2/3
Chairs K. Diserens (Lausanne/CH), T. Ettlin (Rheinfelden/CH)

The neurotechnological future of neurorehabilitation – To restore or to renew?
P. Ryvlin (Lausanne/CH)

Ethical issues in end-of-life decision-making in acute neurorehabilitation
G. D. Borasio (Lausanne/CH)

10:30–12:00 Invited Symposium 1  The enigma of critical illness neuro/myopathy
Room Garden 2/3
Chairs G. Hermans (Leuven/BE), D. Zutter (Zihlschlacht/CH)

Risc factors for intensive care unit-acquired weakness
G. Hermans (Leuven/BE)

Pathophysiological mechanisms – facts and hypotheses
L. Larsson (Stockholm/SE)

Critical care illness
Y. Gasche (Geneva/CH)
Intermediate care unit-acquired general weakness – new challenges in early rehabilitation
M. Hund-Georgiadis (Basel/CH)

**10:30–12:00 Invited Symposium 2 I Impairment or function – What to address in post-stroke neurorehabilitation?**

Room Garden 5 A, B
Chairs V. Hömberg (Bad Wimpfen/DE), S. Engelter (Basel/CH)

Proportional recovery after stroke and what it means for neurorehabilitation
N. Ward (London/GB)

We should address impairment!
V. Hömberg (Bad Wimpfen/DE)

What is state of the art in neurorehabilitation pharmacology?
S. Engelter (Basel/CH)

Proportional recovery in aphasia and neglect
A. G. Guggisberg (Geneva/CH)

**10:30–12:15 Session of the Swiss Society of Neurorehabilitation I SGNR**

Room Garden 4 B, C
Chairs C. Kätterer (Basel/CH), K. Diserens (Lausanne/CH)

10:30 Rehabilitation von Kopfschmerzen – klinische Aspekte und Bildgebung
P. Sandor (Baden/CH)

10:45 Rehabilitation von Kopfschmerzen – Outcomedaten
A. G. Gantenbein (Zurzach/CH)

11:10 Fallpräsentation eines Patienten aus der neurokognitiven Frührehabilitation der Rehaklinik Zihlschlacht
Y. Jerger (Zihlschlacht/CH)
11:20  Fallpräsentation eines Patienten mit fokaler Spastik und Therapie mit BoNT A  
C. Baum (Zihlschlacht/CH)

11:30  IMCU – ein wichtiger Baustein in der Frühneurorehabilitation  
A. Merkel (Basel/CH)

11:40  Herausforderung und Behandlungskonzept in der Rehabilitation verhaltensauffälliger Patienten  
V. Bouverat (Basel/CH)

11:50  Young adults transition consultation – preliminary results from a Swiss pilot project  
K. Diserens (Lausanne/CH)

12:05  Tuberöse Hirnsklerose – Krankheitsmodifikation des klinischen Verlaufes unter m-ToR Inhibition  
C. Kätterer (Basel/CH)

10:30–12:00  Invited Symposium 3  I Brain stimulation and Brain-Computer-Interfaces (BCIs)

Room  Garden 1 A, B
Chairs  G. Curio (Berlin/DE), M. Levivier (Lausanne/CH)

BCI and promotion of recovery  
A. Rana, A. Tonin (Tübingen/DE)

Brain stem cell therapy after stroke  
J. Bloch (Lausanne/CH)

Are there applicable BCIs?  
G. Curio (Berlin/DE)

BCIs in neuroprosthetic applications  
J. d. R. Millán (Lausanne/CH)
10:30–12:00 Oral Communications 1  | Disease-specific rehabilitation

**Room**: Garden 5 C  
**Chair**: H. Binder (Vienna/AT)

10:30 Analysis of the effectiveness of acoustical parameters of vocal quality in patients with Parkinson’s disease after speech therapy  
**OP01**  

10:39 Comparative study of four neurorehabilitation complexes in patients with diabetic polyneuropathy and diabetic foot  
**OP02**  
I. Koleva, R. Yoshinov, B. Yoshinov (Sofia/BG), F. Milvoy (Saint Amand Montrond/FR), P. Atanassova (Plovdiv/BG), Z. Stoyneva (Sofia/BG)

10:48 Comparison of the effects of whole body vibration training and exercise training on treatment goals of cerebellar ataxia individuals  
**OP03**  
S. Aksu Yıldırım, E. Ayvat, Ö. Onursal, F. Ayvat, G. Sütcü, M. Kiliç (Ankara/TR)

10:57 Effects of an intensive, multidisciplinary inpatients rehabilitation programme in people with multiple sclerosis with different levels of disability – preliminary data  
**OP04**  
I. Zivi, V. Studer, K. Molatore, S. Maffia, G. Ercoli, L. Bettiga (Gravedona/IT), S. Rossi (Milan/IT), G. Frazzitta (Gravedona/IT)

11:06 Effects of rhythmical auditory stimulation on gait in patients with Parkinson’s disease measured through a wearable ad-hoc setup  
**OP05**  
L. Padua (Rome, Milan/IT), M. Germanotta (Milan/IT), I. Mileti (Rome/IT), I. Imbimbo (Milan/IT), C. Erra, M. Petracca (Rome/IT), E. Di Sipio (Milan/IT), S. Rossi (Viterbo/IT), A. Pacilli (Rome/IT), A. R. Bentivoglio (Rome, Milan/IT), E. Palermo (Rome/IT)

11:15 Efficacy of aquatic physiotherapy in the treatment of peripheral neuropathies – a randomised clinical trial  
**OP06**  
I. Zivi, S. Maffia, V. Ferrari, A. Zarucchi, R. Maestri (Montescano/IT), K. Molatore, G. Frazzitta (Gravedona/IT)
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<th>Time</th>
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<tr>
<td>11:24</td>
<td>Fatigue in patients with low-grade glioma – systematic evaluation of</td>
<td>assessment and prevalence E. van Coevorden-van Loon (Rotterdam/NL)</td>
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<td>OP07</td>
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<td>11:33</td>
<td>Investigation of the effects of postural control training on disease</td>
<td>severity and quality of life in ataxic individuals E. Ayvat, F. Ayvat,</td>
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<tr>
<td>OP08</td>
<td></td>
<td>Ö. Onursal, G. Sütcü, M. Kilinç, S. Aksu Yıldırım (Ankara/TR)</td>
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<td>11:42</td>
<td>Relationship between daily use and motor impairments of the paretic</td>
<td>upper limb in chronic stroke – a cross-sectional pilot study M. Marino</td>
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<tr>
<td>OP09</td>
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<td>(Heidelberg/DE)</td>
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<td>11:51</td>
<td>The effects of whole body vibration (WBV) on postural control in</td>
<td>patients with ataxia – cross-over study E. Ayvat, Ö. Onursal, F. Ayvat,</td>
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<td>OP10</td>
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<td>G. Sütcü, M. Kilinç, S. Aksu Yıldırım (Ankara/TR)</td>
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<td>12:15–13:15</td>
<td>Industrial Symposium (please see page 72)</td>
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<td>Room</td>
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<td>13:30–15:00</td>
<td>Invited Symposium 4</td>
<td>Important aspects in acute neurorehabilitation</td>
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<td>Chairs</td>
<td>G. Frazzitta (Gravedona/IT), P. Sandor (Baden/CH)</td>
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<td>Verticalisation in intensive care G. Frazzitta (Gravedona/IT)</td>
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<td>Prediction and prognosis of recovery of disorders of consciousness</td>
<td>K. Diserens (Lausanne/CH)</td>
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<td>Evaluation of cognitive disorders in acute care J.-M. Annoni (Fribourg/CH)</td>
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13:30–15:00  **Invited Symposium 5  |  Robotics – Stance/Posture**  
Room  Garden 5 A, B  
Chairs  L. Saltuari (Hochzirl/AT), W. Raffoul (Lausanne/CH)  

What are robots good for? – upper extremity  
J. Mehrholz (Gera/DE)  

What are robots good for? – lower extremity  
L. Saltuari (Hochzirl/AT)  

Recent insights in static and dynamic postural instability after stroke and their implications for rehabilitation  
A. C. H. Geurts (Nijmegen/NL)  

13:30–15:00  **Special Session  |  Young Researchers and Neurorehabilitation in Europe**  
Room  Garden 4 B, C  
Chairs  G. Sandrini (Pavia/IT), P. Ryvlin (Lausanne/CH)  

The role of interaction and feedback in automata networks: a compositional model for hierarchical, probabilistic, discrete dynamical systems  
N. Sabadini (Como/IT)  

The role of the new technologies in the educational programme of neurorehabilitation  
A. Picelli (Verona/IT)  

Involvement and plasticity of the cerebellum in social cognition  
A. Sokolov (Lausanne/CH)  

13:30–15:00  **Invited Symposium 6  |  Neuropediatrics**  
Room  Garden 1 A, B  
Chairs  M. Chevignard (Saint Mauric/FR), A. Meyer (Affoltern am Albis/CH)  

Executive functions deficits following childhood TBI  
M. Chevignard (Saint Mauric/FR)
Motor system reorganisation after early brain lesion
M. Dinomais (Angers/FR)

Action observation therapy in children
C. Newman (Lausanne/CH)

13:30–15:00 Oral Communications 2 | Motor rehabilitation 1
Room Garden 5 C
Chair V. Hömberg (Bad Wimpfen/DE)

13:30 A new tool to assess responsiveness in disorders of consciousness (DoC) – a preliminary study on the Brief Post-Coma Scale (B-PCS)
OP21 R. Formisano, M. Iosa, F. Rizza (Rome/IT), D. Sattin, M. Leonoardi (Milano/IT), M. Aloisi, M. Contrada, M. G. D'Ippolito (Rome/IT)

13:39 A robotic mirror therapy system for hand rehabilitation with monitoring mu and beta-band suppression

OP23 B. Langhammer, J. K. Stanghelle (Nesoddtangen, Oslo/NO)

13:57 Effectiveness of temporary deafferentation of the arm on somato-sensory and motor functions following stroke – a systematic review
OP24 E. Opsommer, C. Zwissig, N. Korogod (Lausanne/CH), T. Weiss (Jena/DE)

14:06 Effects of high-intensity robot-assisted training in upper limb function recovery and ADL independence in individuals with Multiple Sclerosis: a randomised controlled single-blinded trial
14:15 Effects of high-intensity robot-assisted training on upper limb function and spasticity – a randomised controlled single-blinded trial in 24 chronic stroke patients

N. Smania, N. Valè, E. Dimitrova, S. Mazzoleni, V. Zatezalo, E. Battistuzzi, M. Gravina, E. Battini, A. Santamato, C. Geroin, M. Gandolfi (Verona/IT)

14:24 Efficacy of Intrathecal Baclofen Therapy compared to the conventional oral treatment in post-stroke spasticity – an international multicentre randomised controlled trial (SISTERS)

M. Creamer (Orlando, FL/US), G. Cloud (London/GB; Melbourne/AU), P. Kossmehl (Beelitz-Heilstätten/DE), M. Yochelson (Washington, WA/US), G. Francisco (Houston, TX/US), A. B. Ward (Stoke on Trent/GB), J. Wissel (Berlin/DE), M. Zampolini (Perugia/IT), A. Calabrese, A. Abouihia, N. Berthuy (Tolochenaz/CH), M. Loven (Minneapolis, MN/US), L. Saltuari (Zirl/AT; Bolzano/IT)

14:33 Gait training with images in cards minimises the effects of freezing gravity in gait pattern of individuals with Parkinson’s disease


14:42 Improvements of motor functions of a stroke patient using a brain-computer interface (BCI) and functional electrical stimulation: a single-case study

R. Ortner, W. Cho, C. Guger (Schiedlberg/AT)

14:51 Progressive resistance training for treating people with idiopathic Parkinson’s disease – a practice guideline

J. M. Wallentin, A. Greisberger (Vienna/AT)
15:30–17:00  Invited Symposium 7  | Delirium – a coming up problem in neurorehabilitation

Room       Garden 2/3
Chairs     H. Binder (Vienna/AT), T. Ettlin (Rheinfelden/CH)

Definition and diagnosis of delirium
H. Binder (Vienna/AT)

Treatment – the intensivist’s view
S. Achtelstetter (Heidelberg/DE)

Treatment – the psychiatrist’s view
G. Koller (Munich/DE)

15:30–17:00  Invited Symposium 8  | Future concepts for neuropsychology – impact of cognitive models on rehabilitation

Room       Garden 5 A, B
Chairs     S. Clarke (Lausanne/CH), A. Schnider (Geneva/CH)

Impact of cognitive models on the rehabilitation of unilateral neglect
S. Clarke (Lausanne/CH)

Memory – how to “treat”
B. Wilson (Cambridge/GB)

Frontal lobe disorders – Can we measure what we observe?
A. Schnider (Geneva/CH)

Apraxia – An enigma or a target of treatment?
G. Goldenberg (Vienna/AT)

15:30–17:00  Invited Symposium 9  | Spinal Cord Injury (SCI)

Room       Garden 1 A, B
Chairs     K. R. H. von Wild (Münster/DE), A. Jenny (Nottwil/CH)

Spatiotemporal neuromodulation mechanism and therapies after spinal cord injury
G. Courtine (Geneva/CH)
What treatment options do we have in Spinal Cord Injury?  
M. Schubert (Zurich/CH)

Bladder problems after Spinal Cord Injury  
P. Denys (Paris/FR)

Autologous nerve graft induced central plasticity and neuroregeneration of lower thoracic cord in rat model  
K. R. H. von Wild (Münster/DE)

15:30–17:00 Invited Symposium 10 | Novel directions in neurorehabilitation in Multiple Sclerosis
Room Garden 4 B, C
Chairs J. Opara (Katowice/PL), J. Bansi (Valens/CH)

Neurorehabilitation in Multiple Sclerosis – applied neuroplasticity  
J. Bansi (Valens/CH)

A systematic review of systematic reviews in Multiple Sclerosis rehabilitation  
P. Feys (Diepenbeck/BE)

Burden and quality of life in caregivers of persons suffering from Multiple Sclerosis  
J. Opara (Katowice/PL)

15:30–17:00 Oral Communications 3 | Early neuromodulation
Room Garden 5 C
Chair D. Boering (Bad Wimpfen/DE)

15:30 Benefits of outdoor interdisciplinary neurosensory approach in patients with disorders of consciousness – ongoing research and preliminary results  
C. Attwell, J. Jöhr, L. Berney, N. Kauffmann, K. Bruyère, G. Casellini, V. De Goumoëns, P. Jean-Michel, K. Diserens (Lausanne/CH)
15:39   Cognitive ecological test of San Pellegrino Terme
   OP12   G. P. Salvi, M. Simonini (San Pellegrino Terme/IT),
          E. Ancona (San Pellegrino Terme, Chieti-Pescara/IT), L. Manzoni,
          L. Smirni, A. Quarenghi (San Pellegrino Terme/IT)

15:48   Early dose of upper limb motor rehabilitation using embodied
        virtual reality – a case series study
   OP13   G. Garipelli, C. Gilart de Keranflec’h, D. Perez-Marcos, T. Tadi,
          P. Michel, K. Diserens (Lausanne/CH)

15:57   Early neurorehabilitation in neurooncology – an observational study
   OP14   A. Pincherle, B. Moura, C. Pellet, L. Berney (Lausanne/CH),
          J. P. Robert (Gland/CH), M. Levivier, A. Hottinger,
          K. Diserens (Lausanne/CH)

16:06   Early rehabilitation reduces time to decannulation in patients with
        severe acquired brain injury
   OP15   I. Zivi, R. Valsecchi (Gravedona/IT), R. Maestri (Montescano/IT),
          S. Maffia, A. Zarucchi, K. Molatore, L. Saltuari (Zirl/AT), E. Vellati,
          G. Frazzitta (Gravedona/IT)

16:15   Economic impact of SwissDRG on acute neurorehabilitation
    OP16    L. Berney, J.-M. Pignat, J.-B. Wasserfallen, K. Diserens (Lausanne/CH)

16:24   Initial report from a retrospective study of 251 patients with severe,
        acquired brain injury (ABI) admitted to a combined multidisciplinary,
        highly specialised rehabilitation and intensive care unit
       OP17    S. S. Kjeldsen, S. Søndergaard, L. R. Mikkelsen (Silkeborg/DK),
               J. F. Nielsen (Hammel/DK)

16:33   Subtle motor behaviour assessment in the acute phase of disorders
        of consciousness improve the predictability of outcome
   OP18    J. Jöhr, J.-M. Pignat, K. Diserens (Lausanne/CH)

16:42   Systematic and adaptive cueing improve activities of daily living in
        patients with neglect – a double-blinded randomised controlled trial
   OP19    N. Turgut (Oldenburg, Bremen/DE), L. Möller (Lübeck/DE), K. Dengler,
           K. Steinberg (Bremen/DE), H. Hildebrandt (Oldenburg, Bremen/DE)
16:51 Transcranial repetitive magnetic stimulation vs. peripheral repetitive magnetic stimulation in superior limb rehabilitation of ischemic stroke patients
A. M. Bumbea, R. C. Dumitrascu, R. M. Traistarau, C. Albu, S. Patru, B. S. Bumbea (Craiova/RO)

17:30–18:30 Plenary Lecture 2
Room Garden 2/3
Chairs G. Sandrini (Pavia/IT), K. Diserens (Lausanne/CH)

Improving our care for disorders of consciousness
S. Laureys (Liège/BE)
07:30–08:30  Meet-the-Experts Session 1
Room  Garden 2/3

A step-wise approach to medical-technical interventions for gait impairments after stroke
A. C. H. Geurts (Nijmegen/NL)

07:30–08:30  Meet-the-Experts Session 2
Room  Garden 5 A, B

Pharmacology in neurorehabilitation
V. Hömberg (Bad Wimpfen/DE)

07:30–08:30  Meet-the-Experts Session 3
Room  Garden 4 B, C

How to read metaanalyses
J. Vester (Krailling/DE)

07:30–08:30  Meet-the-Experts Session 4
Room  Garden 1 A, B

What is important in early neurorehabilitation?
H. Binder (Vienna/AT)

07:30–08:30  Meet-the-Experts Session 5
Room  Garden 5 C

How to deal with dysphagia problems
D. Boering (Bad Wimpfen/DE)
09:00–10:00  Plenary Lecture 3
Room  Garden 2/3
Chairs  V. Hömberg (Bad Wimpfen/DE), K. Diserens (Lausanne/CH)

Greeting statement of the head of the Department of Health and Social Services in Switzerland
P.-Y. Maillard (Lausanne/CH)

The significance of network analysis in neurorehabilitation
F. C. Hummel (Geneva/CH)

10:30–12:00  Invited Symposium 11  Functional disorders in neurorehabilitation
Room  Garden 2/3
Chairs  K. Müller (Meerbusch/DE), T. Ettlin (Rheinfelden/CH)

Neurobiology of „functional“ disorders
S. Aybek (Bern/CH)

Functional neurological disorders in children – Can rehabilitation help?
K. Müller (Meerbusch/DE)

Neuroimaging in functional neurological disorder – conversion disorder
I. Sinanaj (Geneva/CH)

10:30–12:00  Invited Symposium 12  Dysphagia
Room  Garden 5 A, B
Chairs  Y. Inamoto (Aichi/JP), P. Vuadens (Sion/CH)

Swallowing disorders
E. Verin (Rouen/FR)

Feedback techniques in dysphagia
Y. Inamoto (Aichi/JP)

Dysphagia rehabilitation – botulinum toxin and beyond
C. Tassorelli (Pavia/IT)
10:30–12:00  Session of the Austrian Society of NeuroRehabilitation OeGNR
Room Garden 4 B, C
Chair N. N.

Re-Organisation von Gedächtnis und Sprache bei Epilepsie
S. Bonelli-Nauer (Vienna/AT)

Neuropsychological driving training – the Hochegg model NRD1
C. List, H. Bliem (Hochegg/AT)

Evidenzbasierte Neuro-Rehabilitation bei M. Parkinson
H. Moser (Gmunden/AT)

Cardiopulmonary arrest is the most frequent cause of the unresponsive wakefulness syndrome – a prospective population-based cohort study in Austria
G. Pichler (Graz/AT)

Möglichkeiten und Perspektiven der Rückenmarkstimulation in der Rehabilitation bei Querschnittsverletzten
U. Hofstötter (Vienna/AT)

10:30–12:00  Invited Symposium 13 | Spasticity treatment
Room Garden 1 A, B
Chairs J. Wissel (Berlin/DE), A. Kaelin (Lugano/CH)

Advanced stimulation techniques
U. Hofstötter (Vienna/AT)

State of the art in pharmacological and physical treatments
D. Boering (Bad Wimpfen/DE)

State of the art in Botulinom toxin treatment
J. Wissel (Berlin/DE)

State of the art in treatment with baclofen pumps
L. Saltuari (Hochzirl/AT)
10:30–12:00  Oral Communications 4  Motor rehabilitation 2

Room  Garden 5 C
Chair  C. Pistorini (Pavia/IT)

10:30  A versatile virtual reality system for motor rehabilitation: a case series study
OP31  S. Seeberg (Lausanne/CH), J. Kool (Valens/CH), G. Garipelli, K. Kerman (Lausanne/CH), S. Ortmann (Valens/CH)

10:41  Comparison of pain induced by ultrasound and electrical guidance during a first intramuscular injection of botulinum toxin in spastic adult patients – a prospective randomised study

10:52  Effects of combined neural stem cell therapy and treadmill training on the functional recovery after cervical spinal cord injury

11:03  Efficacy of robotic and action observation therapy for upper limb rehabilitation after stroke – preliminary results of a multicentre trial
OP34  J. Petioky (Kladrbury/CZ), L. Bissolotti (Brescia/IT), K. Hoidekrova (Kladrbury/CZ), B. Chioda (Brescia/IT)

11:14  A randomised blinded study of vagus nerve stimulation (VNS) during rehabilitation for improved upper limb motor function after stroke (MT-St-02) – follow-up through 90-days
OP35  G. Francisco, N. Yoxbatiran (Houston, TX/US), S. Cramer (Orange/UZ), S. Wolf (Atlanta, GA/US), N. Engineer, D. Pierce, B. Tarver (Austin, TX/US), P. Smith, J. Wigginton (Dallas, TX/US), T. Kimberley (Minneapolis, MN/US), J. Dawson (Glasgow/GB)

11:25  Introduction of a comprehensive robot-assisted gait training to improve gait and vital parameters in stationary neurological rehabilitation – a cohort study
OP36  S. Reichl (Bad Kissingen, Gera/DE), F. Weilbach (Bad Kissingen/DE), J. Mehrholz (Gera/DE)
11:36 Measuring physical activity with wearable sensors to assess functional recovery after stroke
OP37
R. Gonzenbach (Valens/CH), D. Wirth, K. Aminian, C. Moufawad El Achkar (Lausanne/CH)

11:47 Right caudate nucleus is crucial for consolidation of motor skills in patients with Parkinson’s disease
OP38
A. L. Manuel, V. Garibotto, P. Burkhard, A. Schnider, N. Nicastro (Geneva/CH)

12:15–13:15 Round Table 1  I  Rehab Technology – How to find a common discourse between clinicians and engineers?
Room Garden 5 A, B
Chair V. Hönberg (Bad Wimpfen/DE)

G. Colombo (Volketswil/CH), L. Saltuari (Hochzirl/AT), F. Müller (Bad Aibling/DE), D. Zutter (Zihlschlacht/CH), M. Hund-Georgiadis (Basel/CH)

12:15–13:15 Round Table 2  I  Education in neurorehabilitation
Room Garden 1 A, B
Chair H. Binder (Vienna/AT)

D. Mureșanu (Cluj Napoca/RO), H. Binder (Vienna/AT), G. Sandrini (Pavia/IT), N. Smania (Verona/IT), K. Diserens (Lausanne/CH)

13:30–15:00 Invited Symposium 14  I  Joint symposium with the Italian Society of NeuroRehabilitation  I  SIRN – Impact of pain in neurorehabilitation
Room Garden 2/3
Chairs G. Sandrini, C. Pistarini (Pavia/IT)

The personal and societal impact of pain in Europe
H. Breivik (Oslo/NO)

Pain in spinal injury
C. Pistarini (Pavia/IT)

Italian consensus conference on pain in neurorehabilitation
S. Tamburin (Verona/IT)
13:30–15:00  Invited Symposium 15  | Communication disorder
Room  Garden 5 A, B
Chairs  J. Jöhr (Lausanne/CH), J.-M. Annoni (Fribourg/CH)

Treatment in the chronic ahasic – still useful and if how?
B. Mohr-Pulvermüller (Berlin/DE)

Recovery after vascular aphasia
J.-F. Démonet (Lausanne/CH)

Recovery and rehabilitation in bilingual aphasics
J.-M. Annoni (Fribourg/CH)

13:30–15:00  Invited Symposium 16  | Joint symposium with the European Academy of Neurology | EAN
Room  Garden 4 B, C
Chairs  K. Diserens (Lausanne/CH), D. Mureșanu (Cluj Napoca/RO)

Beyond evidence based epistemology
D. Mureșanu (Cluj Napoca/RO)

Guidelines in neurorehabilitation – a challenge and an opportunity
M. Leone (Novara/IT)

Multidimesional trial designs in neurorehabilitation
J. Vester (Krailling/DE)

13:30–15:00  Invited Symposium 17  | Guidelines in neurorehabilitation – the actual status from the “Deutsche Gesellschaft für Neurorehabilitation” S3 guideline group
Room  Garden 2/3
Chairs  K.-M. Stephan (Bad Wimpfen/DE), H. Binder (Vienna/AT)

Gait therapy
K.-M. Stephan (Bad Wimpfen/DE)

Treatment of spasticity
J. Wissel (Berlin/DE)
13:30–15:00  Oral Communications 5  I  Neuromodulation

Room  Garden 5 C
Chair  J. Opara (Katowice/PL)

13:30  A comparison of immersive and non-immersive virtual reality systems for proprioception in patients after stroke  
E. Stefas, N. Aslanidis, V. Gouglidis, D. Athanasiadis,  
K. Emmanoil (Thessaloniki/GR)

13:40  Effects of mechanical-assisted training in patients with upper limb paresis after injury of central nervous system – preliminary report  
W. Rusek, J. Leszczak (Tajęcina, Rzeszów/PL), T. Pop (Rzeszów/PL),  
J. Opara (Katowice/PL), J. Baran (Rzeszów, Tajęcina/PL),  
M. Adamczyk (Tajęcina/PL)

13:50  FEES analyses to determine the effect of various textures on penetration-aspiration in patients with neurogenic dysphagia  
C. Ledl, M. Mertl-Roetzer (Bad Aibling/DE)

14:00  Gait in multiple sclerosis – the impact of dalfampridine  
S. Estrela Rego, J. Rios, E. Afonso, J. L. Coelho, V. Pequito (Lisbon/PT)

14:10  Improvements of language processing induced by prefrontal non-invasive transcranial direct current stimulation in progressive supranuclear palsy  

14:20  Internal model of verticality – neuromodulation through body-weight support in a tilted virtual environment  
A. Odin, D. Faletto-Passy (Échirolles/FR), F. Assaban (Pérols/FR),  
D. Pérennou (Échirolles, Grenoble/FR)

14:30  Neurofeedback as a new tool to treat dysphagia  
S. E. Kober, G. Wood (Graz/AT)
14:40 Repetitive transcranial magnetic stimulation in treatment of leg spasticity and gait disorders in patients with chronic progressive multiple sclerosis
S. Rodić, S. Milanović, A. Jeremić, L. Konstantinović, S. Filipović (Belgrade/RS)

14:50 Sound object segregation in stroke patients
I. Tissières, S. Crottaz-Herbette (Lausanne/CH), L. Spierer (Fribourg/CH), S. Clarke (Lausanne/CH)

15:30–17:00 Invited Symposium 18 | Advanced neuroimaging
Room Garden 2/3
Chairs M. A. Schoenfeld (Heidelberg/DE), G. Schlaug (Boston, MA/US)

From fibre tracts to connectomes – What is useful for neurorehabilitation planning and monitoring?
G. Schlaug (Boston, MA/US)

Predicting outcome after severe post-stroke upper limb paresis based on structural imaging
J. Rondina (London/GB)

Can neuroimaging help to marshal treatment in neurorehabilitation?
M. A. Schoenfeld (Heidelberg/DE)

15:30–17:00 Invited Symposium 19 | Virtual reality
Room Garden 5 A, B
Chairs M. Levin (Montréal/CA), A. Serino (Lausanne/CH)

Is virtual reality a useful therapeutic tool? – yes
M. Levin (Montréal/CA)

Is virtual reality a useful therapeutic tool? – It depends on how you use it.
A. Serino (Lausanne/CH)

Body perception and virtual reality
O. Blanke (Geneva/CH)
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| 15:30–17:00 | SIG of the WFNR Meeting  
Early mobilisation                      | Garden 4 B, C | K. Diserens (Lausanne/CH), H. Binder (Vienna/AT) |
|            | What does an acute strokologist expect from neurorehabilitation?       |               | P. Michel (Lausanne/CH)              |
|            | TMS improves upper limb outcome by ameliorating spatial neglect        |               | T. Nyffeler (Luzern/CH)              |
|            | Does early mobilisation after vascular lesion reduce severe complications and is indicated – a controversy |               | A. Luft (Zurich/CH)                 |
|            | Early verticalisation after brain lesion – Dangerous or indicated?: a controversy |               | P. Vos (Doetinchem/NL)              |
|            | Sympathetic activity and early mobilization in patients in intensive and intermediate care with severe brain injuries – a preliminary prospective randomised study |               | K. Diserens (Lausanne/CH)           |
| 15:30–17:00 | Invited Symposium 20  
Joint Symposium with the Society for the Study of Neuroprotection and Neuroplasticity  
SSNN                      | Garden 1 A, B | D. Mureșanu (Cluj Napoca/RO), V. Hömberg (Bad Wimpfen/DE) |
|            | A need for reinventing neurorehabilitation                             |               | V. Hömberg (Bad Wimpfen/DE)          |
|            | Challenges and opportunities in motor neurorehabilitation after stroke |               | D. Mureșanu (Cluj Napoca/RO)          |
An intensive participation-focused outpatient program is effective in long-term neurorehabilitation of patients with acquired brain injury: a randomised controlled study
A. Bender (Munich/DE)

15:30–17:00 Oral Communications 6 | Neuropsychology
Room Garden 5 C
Chair S. Clarke (Lausanne/CH)

15:30 Comprehensive assessment of motor imagery ability after stroke with and without neglect – a pilot control case series study
OP48 J. Holé (Bron Cedex/FR), S. Mateo (Bron Cedex, Lyon/FR), G. Rode (Bron Cedex/FR)

15:39 Cortical functional connectivity in post-traumatic/haemorrhagic hydrocephalus (PTHH) before and after shunting procedure – a proof-of-concept study
OP49 T. Mastropasqua (Rovereto/IT), L. Sebastianelli, V. Versace, S. Campostrini (Sterzing/IT), R. Nardone (Salzburg/AT), M. Turatto (Rovereto/IT), L. Saltuari (Zirl/AT)

15:48 Motivation through competition – increasing self-directed training in stroke patients
OP50 B. Studer, H. Van Dijk, S. Knecht (Meerbusch, Düsseldorf/DE)

15:57 Neuroanatomical and functional changes in response to one month of intensive balance training
OP51 M. Dordevic, N. Müller (Magdeburg/DE)

16:06 Non-pharmacological treatment of chronic pain – a multimodal approach
OP52 F. Alemanno, E. Houdayer, D. Emedoli, M. Locatelli, S. Iannaccone (Milan/IT)

16:15 Postural and gait disorders in subacute stroke patients: lateropulsion is the key
16:24 Sleep over it – left parietal resting state connectivity predicts skill learning and offline consolidation
A. L. Manuel, A. G. Guggisberg, R. Thézé, F. Turri, A. Schnider (Geneva/CH)

16:33 Somatosensory cortex volume changes after spinal cord injury
Y. Höller, A. Tadzic, A. Thomeschewski, P. Höller, S. Leis, E. Trinka (Salzburg/AT)

16:42 The effect of the facilitation physiotherapy on the clinical and brain’s functions in Multiple Sclerosis

16:51 The effects of a ten-day cognitive training programme combined with transcranial Direct Current Stimulation (tDCS) in stroke rehabilitation
N. Szépfalusi, V. L. Németh, T. Vékony, N. Imre, R. Balogh, A. Holczer (Szeged/HU), G. Csifcsák (Tromsø/NO; Szeged/HU), E. Csábi, G. Drótos, K. Jakab, L. Vécsei, A. Must (Szeged/HU)

17:30–18:30 Plenary Lecture 4
Room Garden 2/3
Chair V. Hömberg (Bad Wimpfen/DE)

Will the marriage of informatics and medicine revolutionise the assessment of treatment?
R. Frackowiak (Lausanne/CH; Paris/FR)

19:00–20:00 EFNR General Assembly
Room Garden 2/3

19:00–20:30 ePoster Sessions 8–14 (please see page 58)
Room Offices G-M
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<tr>
<th>Time</th>
<th>Session</th>
<th>Room</th>
<th>Topic</th>
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<tr>
<td>07:30–08:30</td>
<td>Meet-the-Experts Session 6</td>
<td>Garden 2/3</td>
<td>What is virtual reality good for</td>
<td>M. Levin (Montréal/CA)</td>
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<td>07:30–08:30</td>
<td>Meet-the-Experts Session 7</td>
<td>Garden 5 A, B</td>
<td>When to start weaning?</td>
<td>J. Rollnik (Hessisch Oldendorf/DE)</td>
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<td>07:30–08:30</td>
<td>Meet-the-Experts Session 8</td>
<td>Garden 4 B, C</td>
<td>How to deal with a patient with “neuropsychological problems”</td>
<td>B. Wilson (Cambridge/GB)</td>
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<td>07:30–08:30</td>
<td>Meet-the-Experts Session 9</td>
<td>Garden 1 A, B</td>
<td>Mental status examination in neurorehabilitation</td>
<td>A. Schnider (Geneva/CH)</td>
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<tr>
<td>07:30–08:30</td>
<td>Meet-the-Experts Session 10</td>
<td>Garden 5 C</td>
<td>Low tech neurorehabilitation</td>
<td>K.-M. Stephan (Bad Wimpfen/DE)</td>
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<td>09:00–10:30</td>
<td>Invited Symposium 21 Joint Symposium with the Romanian Society for Neurorehabilitation</td>
<td>Garden 2/3</td>
<td>Advances in neuro fundamentals on stroke recovery</td>
<td>D. Mureșanu (Cluj Napoca/RO)</td>
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Chair: D. Mureșanu (Cluj Napoca/RO)
Ischemic volume as a predictor in neurorehabilitation after stroke  

A. Stan (Cluj Napoca/RO)

Compensatory neuroplasticity in Parkinson’s disease suggested by a rs-fMRI study  

M. Onu (Cluj Napoca/RO)

09:00–10:30 Invited Symposium 22  l  Prognosis of recovery – clinical evaluation and/or biomarkers

Room  Garden 5 A, B  
Chair  G. Kwakkel (Amsterdam/NL)

Understanding neurological recovery early post-stroke – What are the consequences for designing trials?  

G. Kwakkel (Amsterdam/NL)

Imaging biomarkers  
G. Schlaug (Boston, MA/US)

Electrophysiological biomarkers  
A. G. Guggisberg (Geneva/CH)

09:00–10:30 Invited Symposium 23  l  Special aspects of neuropsychology

Room  Garden 1 A, B  
Chair  G. Rode (Lyon/FR)

Perceptual problems in vision and hearing  
S. Clarke (Lausanne/CH)

Spatial neglect  
G. Rode (Lyon/FR)

Paradoxes of the brain – implications for neurorehabilitation  
N. Kapur (London/UK)
09:00–10:30 Invited Symposium 24  Sinking-Skin-Flap-Syndrome
Room Garden 4 B, C
Chairs M. Schorl (Bad Elster/DE), T. Kapapa (Ulm/DE)

Decompressive craniectomy – technique, complications, controversies
T. Kapapa (Ulm/DE)

Sinking-Skin-Flap-Syndrome – an underestimated problem in neurorehabilitation
M. Schorl (Bad Elster/DE)

Cranioplasty after decompressive craniectomy – technique, complications, controversies
S. Röhrer (Ulm/DE)

09:00–10:30 Oral Communications 7  Young therapists
Room Garden 5 C
Chair G. Diermayr (Heidelberg/DE)

09:00 Action observation training for the rehabilitation of gait after stroke: a systematic review
OP58 M. Wagner (Vienna/AT)

09:15 Acute effect of functional electrical stimulation (FES) and therapeutic exercise on skeletal muscle tone in patients with traumatic spinal cord injury – pilot study
OP59 M. Bergmann, A. Zahharova, T. Asser, D. Vahtrik, H. Gapeyeva (Tartu/EE)

09:30 Estimated balance performance of stroke survivors using measured two-directional asymmetry ratio between paretic and non-paretic ankle stiffness in a novel ankle movement trainer

09:45 Eye-tracking – a new chance to increase communication in physiotherapy for people with tetraparesis
OP61 L. Kitzmüller (St. Pölten/AT), A. Kiselka (St. Pölten, Vienna/AT)
<table>
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<th>Time</th>
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<tr>
<td>10:00</td>
<td>Russian validation study of Coma Recovery Scale-Revised</td>
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<td>OP65 M. Elisaveta, L. Legostaeva, D. Sergeev, M. Domashenko, A. Zimin,</td>
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<td>D. Yusupova, J. Ryabinkina, N. Suponeva, M. Piradov (Moscow/RU)</td>
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<td>10:15</td>
<td>Trephined syndrome in patients with large decompressive</td>
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<td>craniectomy and effects of cranioplasty</td>
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<td>OP67 L. Sveikata, A. Schnider, B. Leemann (Geneva/CH)</td>
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<td>11:00–12:00</td>
<td>Round Table 3</td>
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<td>Room Garden 2/3</td>
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<td>Chairs H. Binder (Vienna/AT), K. Diserens (Lausanne/CH)</td>
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<td>D. Mureșanu (Cluj Napoca/RO), H. Binder (Vienna/AT), V. Hömberg (Bad Wimpfen/DE), G. Sandrini (Pavia/IT)</td>
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<td>12:00–12:30</td>
<td>Farewell and Closing Remarks</td>
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<td>L. Saltuari (Hochzirl/AT), V. Hömberg (Bad Wimpfen/DE), K. Diserens (Lausanne/CH)</td>
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</table>
19:00–20:30  ePoster Session 1  Motor rehabilitation 1

Room  Office G
Chair  L. Saltuari (Hochzirl/AT)

P001  Comparison between sitting and standing positions on anterior reaching in children with cerebral palsy
R. Carvalho, L. M. Santos Soares, J. M. Savazzi Geraldini Rozane (Santos/BR)

P002  Day programme with constraint-induced movement therapy for lower limbs
Y. Angerova, Z. Drabova, J. Jenicek, O. Svestkova (Prague/CZ)

P003  Effectiveness of a multidisciplinary rehabilitation in advanced stages of Parkinson’s disease
D. Ferrazzoli, P. Ortelli (Gravedona ed Uniti/IT), R. Maestri (Montescano/IT), R. Bera, G. Frazzitta (Gravedona ed Uniti/IT)

P004  Importance of combination treatment of Torticollis spasmodicus with focus on the paraclinic therapeutic options
J. Wissel, M. Steinböck, P. Kossmehl (Potsdam/DE)

P005  Integrated robotic approach for upper limb functional rehabilitation
G. Sgherri, G. Lamola, M. Barsotti, D. Leonards, B. Rossi, A. Frisoli, C. Chisari (Pisa/IT)

P006  Interest of selective motor nerve block under ultrasound guidance for target muscle selection in the treatment of spasticity
S. Koçer (Porrentruy/CH)

P007  Lower-extremity motor coordination is affected on the ipsilesional side in stroke patients

P008  Motor rehabilitation of upper-limb paresis with use of accelerometer
P. Sladkova, O. Svestkova (Prague/CZ)
P009  Motor strategies after treatment of consequences of fibular nerve lesion – contribution of gait analysis
D. Coraci (Rome, Milan/IT), V. Santilli (Rome/IT), C. Iacovelli, C. Simbolotti (Milan/IT), L. Padua (Milan, Rome/IT)

P010  Prediction of community walking in patients with stroke
A. Gerodetti, L. Touchant, C. Zwissig (Lausanne/CH)

P011  The effect of neurorehabilitation on gait in patients with Multiple Sclerosis
S. Sidorenko, K. Luyckx, J. Kesselring (Valens/CH)

P012  The effectiveness of electrostimulation on hemiplegic shoulder pain and motor function after stroke – a literature review
M. Dubois, M. Santschi, E. Opsommer (Lausanne/CH)

P013  Concurrent transcranial direct current stimulation (tDCS) with Cycling exercise enhances knee joint position sense and muscle force after chronic stroke
F. Yadolahi, A. Rezasoltani, M. Mehrpour (Tehran/IR)

P014  Peripheral facial palsy and mimicry after rehabilitation
N. S. Diagne, M. S. Diop Sene, M. Fall, A. G. Diop (Dakar/SN)

P200  EEG paradigms as a supplemental tool to behavioral assessments of DOC
S. Perdikis (Geneva/CH), J. P. Noel (Nashville, TX/US), M. Silva (Lausanne/CH), C. Chatelle (Boston, MA/US; Liège/BE), J. Jöhr, A. Pincherle, J. M. Pignat (Lausanne/CH), J. d. R. Millán (Geneva/CH), A. Serino, K. Diserens (Lausanne/CH)

19:00–20:30  ePoster Session 2  |  Motor rehabilitation 2
Room  Office H
Chair  H. Binder (Vienna/AT)

P015  An ergonomic upper-limb support (HOLSTER) to improve comfort and enhance gait in patients with hemiparesis – a first insight into an ongoing cross-over trial
A. Mühl, C. Benaim, B. Leger, M. Eichenberger, F. Quellet, F. Reynard, P. Terrier, P. Vuadens (Sion/CH)
P017  Cognitive reserve index – a variable impacting rehabilitation outcome in Parkinson’s disease?
G. Piccinini (Rome/IT), I. Imbimbo (Milan/IT), D. Ricciardi (Rome/IT),
C. Santilli (Milan/IT), R. Lo Monaco (Rome/IT), C. Loreti (Milan/IT),
M. C. Vulpiani, M. C. Silveri (Rome/IT), L. Padua (Milan, Rome/IT)

P018  Decoding movement intentions from EEG activity in subcortical and
cortical stroke patients minimising the influence of artifacts
E. López-Larraz, T. da Cruz Figueiredo, C. Bibián, A. M. Ray (Tübingen/DE),
N. Birbaumer (Tübingen/DE; Geneva/CH),
A. Ramos-Murguialday (Tübingen/DE; San Sebastián/ES)

P019  Effects of isokinetic training in patients with stroke
I. M. Borda, L. Irsay, I. Onac, V. Ciortea, R. Ungur (Cluj-Napoca/RO)

P020  Effects of treadmill training with adding load on measurements of
functional mobility and postural balance in subjects with stroke:
a randomised controlled trial
E. M. Silva, T. S. Ribeiro, T. C. Silva, M. P. Costa, F. A. Cavalcanti,
A. R. Lindquist (Natal/BR)

P021  High-level mobility training to foster effective and efficient functional
recovery following an acute stroke – a case study
E. Gallo (New York, NY/US)

P022  Postural stability and lokomat therapy in patients with stroke and
severe gait disorder
S. Eicher, A. Dewor, R. Schweinfurther, T. Huster, J. C. Möller,
L. P. Paredes, D. Zutter (Zihlschlacht/CH)

P023  Rapid strength and eccentric muscle training in neurorehabilitation
S. Eicher, A. Dewor, R. Schweinfurther, D. Marks, J. C. Möller,
M. Urban, D. Zutter (Zihlschlacht/CH)

P024  Repeated split-belt treadmill walking improved gait ability in
individuals with chronic stroke – a pilot study
M. Betschart, S. Nadeau (Montréal/CA), B. J. McFadyen (Quebec/CA)
P026 Varus foot deformity after stroke and the role of tibialis posterior
S. Koçer, E. Grana (Porrentruy/CH), V. Aurore, L. Filgueira (Fribourg/CH)

P027 Refractory case of paroxysmal autonomic instability with dystonia syndrome following cardiac arrest managed using botulinum toxin type A injection
N. A. Jadoon, A. Salawu, A. Ijaz, S. Kaur (Hull/GB)

P028 Gripping stroke patients with shoulder pain
N. S. Diagne, M. Fall, M. S. Diop Sene, A. G. Diop (Dakar/SN)

P029 Stroke patients have selective muscle weakness in supine position
C. Renner (Bad Lausick/DE), B. Voigtländer, H. Hummelsheim (Bennewitz/DE)

P025 Training of balance and verticality control in subacute stroke patients: a pilot trial using the SpaceCurl
J. Bergmann (Bad Aibling, Munich/DE), C. Krewer, S. Tillmann (Bad Aibling/DE), F. Müller, K. Jahn (Munich, Bad Aibling/DE)

P016 Assessing upper limb function post-stroke – validation of the Stroke Upper Limb Capacity Scale using the Fugl-Meyer Assessment
M. Egger (Bad Aibling/DE), J. Bergmann, F. Müller (Bad Aibling, Munich/DE)

P184 Transcranial direct current stimulation as add-on to neuromotor rehabilitation of Pisa syndrome in Parkinson’s disease
R. De Icco, C. Tassorelli, M. Avenali, M. Fresia, M. Allena, E. Berra, G. Sandrini (Pavia/IT)
19:00–20:30  ePoster Session 3  I  Early neurorehabilitation 1

Room  Office I
Chair  K. Diserens (Lausanne/CH)

P030  Systemic lupus erythematosus first manifestation as a stroke: Is it common? – an alert case
M. Saavedra, A. Maia e Silva, O. Martins Cardoso, F. Pereira, B. Moreno, A. Alves (Guimarães/PT)

P032  Biomechanical study of the finger of the hand as a prognostic factor for the recovery of the paretic upper extremity in patients with acute stroke
N. Ticó-Falguera, E. Peña-Pitarch, M. Abenoza-Guardiola, G. Sirvent-Batalla, G. Romero-Culleres, L. Sucarrats-Cribilles (Manresa/ES)

P033  Early start of (neuro)rehabilitation is in favour of the patient with complex care
T. van Bezeij, J. van Velzen, J. Nagtegaal, R. Lijster de (Wijk aan Zee/NL)

P034  Family caregivers of adult patients with severe disorders of consciousness (unresponsive wakefulness syndrome and minimally conscious state) during early neurorehabilitation
I. Buesching (Bellikon/CH)

P035  Helping stroke survivors recover walking abilities through augmented reality gait training during early rehabilitation – first insight into the Gait Adaptation for Stroke Patients with Augmented Reality (GASPAR) trial
C. Rossano, X. Jordan, P. Vuadens, P. Terrier (Sion/CH)

P036  Management of sialorrhea with botulinum toxin – service evaluation
T. Robinson, C. Shippen, G. Bavikatte (Liverpool/GB)
| P037 | Meaningfulness and acceptability from health professionals and caregivers providing nature-assisted therapies (NAT) to severe brain damaged people  
C. Gilart de Keranflec’h (Lausanne/CH; Paris/FR), C. Deletroz, F. Decaillet (Lausanne/CH) |
| P038 | Normal pressure hydrocephalus during intensive rehabilitation following severe acquired brain injury  
P. Salucci, L. Scuto, V. Colombo, G. P. Belloni (Imola/IT) |
| P039 | Rehabilitation outcome evaluation in the stroke unit rehabilitation department  
T. Gueye (Prague/CZ) |
| P040 | Relationship between balance and quality of life in patients with brain surgery  
Y. Şengül, O. Kalemci, E. Göz, M. Soysal Tomruk (Izmir/TR) |
| P041 | Relationship between functional mobility, trunk impairment and dependence in daily living activity in patients who underwent surgery for brain tumor  
M. Soysal Tomruk, E. Göz, Y. Şengül, O. Kalemci (Izmir/TR) |
| P043 | Benefits of functional proprioceptive stimulation in acute neurorehabilitation  
F. Albert (Marseille/FR) |
| P044 | Two cases of acute disseminated encephalomyelitis in early neurorehabilitation  
A. Braig, J. Herzog (Munich/DE) |
| P045 | The concentration of brain derived neurotrophic factor (BDNF) after early post-stroke rehabilitation and its association with functional and mental status  
E. Miller, M. Starosta, J. Saluk, N. Cichon (Lodz/PL) |
19:00–20:30  ePoster Session 4  |  Neuropsychology 1
Room  
Office J
Chair  
D. Mureșanu (Cluj Napoca/RO)

P046  
Abnormal electrophysiological correlates in patients with left medial temporal lesion
D. Tautvydaitė, A. L. Manuel, A. Schnider (Geneva/CH)

P047  
Analysis of subjective vertical perception in patients with unilateral spatial neglect

P048  
Behavioural adaptation and metacognitive assessment in Parkinson’s disease
C. Trenado, M. Boschheidgen, J. Rübenach (Düsseldorf/DE), K. N’Diaye, L. Mallet (Paris/FR), L. Wojtecki (Düsseldorf/DE)

P049  
Brain source activity during low-cadence running and cycling
S. Dehdar (Erlangen/DE)

P050  
Effectiveness of a holistic day treatment rehabilitation programme for patients with acquired brain injury in the chronic phase in Greece
E. Saleptsi, A. Varotsi (Athens/GR), G. Dellatolas (Villejuif/FR), O. Dimos, N. Karra, C.-S. Karatosidi, C. Kattami (Athens/GR)

P051  
Effects of prefrontal transcranial direct current stimulation on language production in post-stroke aphasia
M. Pestalozzi (Fribourg/CH), M. Di Pietro (Geneva/CH), C. Martins Gaytanidis (Geneva, Fribourg/CH), L. Chouiter, F. Colombo, L. Spierer (Fribourg/CH), A. Schnider (Geneva/CH), J.-M. Annoni, L. Jost (Fribourg/CH)

P052  
Evaluating functional outcomes of conventional rehabilitation combined with rTMS in recovering hemispatial neglect using Kessler Foundation Neglect Assessment Process (KF-NAP™)
S. Regazzi, R. Arangio, A. Flamigni, P. Rossi (Brissago/CH)
P053  Home-based neurofeedback training – evaluation of a cognitive tele-rehabilitation system
S. E. Kober, D. Pinter, M. Witte, C. Enzinger, G. Wood (Graz/AT)

P054  Investigation of mental states for motor stroke rehabilitation with virtual reality
C. Lugrin, R. Leeb, A. Serino, J. d. R. Millán, T. Tadi (Lausanne/CH)

P055  Task-oriented circuit training in Multiple Sclerosis patients – the predictive value of white matter damage
C. Tramonti, C. Fanciullacci, S. Di Martino (Pisa/IT), L. Cecchetti, G. Lettieri, G. Bernardi (Lucca/IT), B. Rossi (Pisa/IT), E. Ricciardi (Lucca/IT), C. Chisari (Pisa/IT)

P056  The art therapy methods in psychocorrective work with the ATO (Anti-Terrorist Operation) participants (in Eastern Ukraine)
I. Chernenko (Kharkiv/UA)

P057  The differentiation of ependymal cells in the postnatal neurogenic niche of the spinal cord
R. Jameson (Leeds/GB)

P060  Comparison effects of transcranial magnetic stimulation and physical activity training on Alzheimer’s disease
M. Budak, Z. Bayraktaroğlu, L. Hanoğlu (Istanbul/TR)

19:00–20:30  ePoster Session 5  | Public health issues
Room  Office K
Chair  J. Vester (Krailling/DE)

P066  Medicolegal assessments – the Just(us) way
M. Tolsma-Piegza (Eindhoven/NL)

P068  Problematic ankle pain in spastic diplegia in an adult with cerebral palsy – a case study
I. Baguley (Westmead, Sydney/AU), H. Barden (Westmead/AU), A. Alchin (Ballina/AU)
POSTER SESSIONS | WEDNESDAY, 25 OCTOBER

P061 Disease-specific rehabilitation in women with epilepsy
G. Odintsova, S. Kravtsova, N. Ivanova (St. Petersburg/RU)

P062 Efficient and intensive settings in neurorehabilitation
O. Stoller, D. Zutter, M. Wehrli (Zihlschlacht/CH)

P063 Epidemiological profile of individuals with Parkinson’s disease attended at reference centres in the city of Brazilian Northeast: a cross-sectional study
L. C. Lucena, I. C. R. Regalado (Natal/BR), F. Rodrigues-de-Paula (Belo Horizonte/BR), R. O. Guerra, C. O. Godeiro Jr., A. R. Lindquist (Natal/BR)

P064 Frequent surfing on social health networks is associated with increased knowledge and involvement in personal health
D. Grosberg, H. Grinvald (Ramat Gan/IL), H. Reuveni (Beer Sheva/IL), R. Magnezi (Ramat Gan/IL)

P065 Hospital-acquired infections in severe acquired brain injury during inpatients neurorehabilitation
H. Aabid, F. Digiacomo, N. Taiocchi, U. Bonassi, R. Casale, M. Bartolo (Zingonia di Ciserano/IT)

P067 Neurorehabilitation of ischemic stroke due to subarachnoid neurocysticercosis
H. Foyaca Sibat, L. d. F. Ibañez Valdés (Mthatha/ZA)

P069 Rehabilitation facilities after neurological admission – appropriate capacity for a good management
D. Coraci (Rome, Milan/IT), L. Padua (Milan, Rome/IT), P. E. Doneddu (Sassari/IT), F. Iodice, P. M. Rossini (Rome/IT)

P070 Relationship between sex and motor symptoms in Parkinson’s disease: a cross-sectional study
I. C. R. Regalado, L. C. Lucena, F. Rodrigues-de-Paula, Á. C. C. Maciel, A. R. Lindquist (Natal/BR)
P072 Role of physical activity in metabolic syndrome
I. Kazaz (Nicosia/TR), E. Angin (Famagusta/CY)

P073 The effectiveness of active training to reduce pain in cervicogenic headaches
S. Beck (Linz/AT)

P074 The effects of suspension exercises programme on static and dynamic balance in healthy individuals
P. Cavlan (Nicosia/CY), B. Kirmizigil (Famagusta/CY)

P075 Self-awareness of fall among community-dwelling older adults: a cross-sectional survey
T. Chantanachai, W. Rakkamon, S. Saengruenangrob, B. Apinunkul (Nakhon Pathom/TH)

P071 Responsive Engagement of the elderly promoting Activity and Customised Healthcare (REACH) – a user-centred requirement analysis for a European project
C. Krewer, B. Schäpers (Bad Aibling/DE), M. Yasuoka (Lyngby/DK), E. Koenig, F. Müller (Bad Aibling/DE)

19:00–20:30 ePoster Session 6  l Disease-specific rehabilitation 1
Room Office L
Chair G. Sandrini (Pavia/IT)

P076 Changes in oscillatory brain activity during one month of BMI training in chronic stroke patients

P077 Evaluation of changes in ventilation parameters and bioelectrical activity of accessory respiratory muscles depending on breathing stimulation in chronic stroke patients
L. Slupska (Opole/PL), K. Ptaszkowski (Wrocław/PL), T. Halski (Opole/PL), M. Paprocka-Borowicz (Wrocław/PL)
P078 Factors affecting the physical activity level in patients with idiopathic Parkinson’s disease – a preliminary report
B. Aktar, B. Balci, B. Dönmez Çolakoğlu (Izmir/TR)

P079 Functional outcome of patients who suffered from stroke who enrolled in the Early Supported Discharge Programme in Singapore
P. K. Tam, B. Chan, H. L. Teoh, Z. Z. Chen, S. H. Teo, L. Wong, Y. L. Chan, J. Q. Yong, Y. V. Tan (Singapore/SG)

P080 Identification of factors associated with physical activity levels in adult muscle diseases
F. Ayvat, E. Ayvat, Ö. Onursal, G. Sütçü, M. Kilinç, S. Aksu Yıldırım (Ankara/TR)

P081 Improving gait and balance in patients with Parkinson’s disease using transcranial direct current stimulation and spinal direct current stimulation – a triple cross-over study
M. Avenali, R. De Icco, M. Fresia, C. Pacchetti, C. Tassorelli, G. Sandrini (Pavia/IT)

P082 Relevance of the origin of chronic pain when using virtual reality in rehabilitation
M. Matamala-Gomez, A. M. Diaz-Gonzalez, M. Slater, M. V. Sanchez-Vives (Barcelona/ES)

P083 Segmental zoster paresis – a rare complication in an immune-compromised patient
J. Pires (Tocha/PT), L. Mirrado (Matosinhos/PT), I. Campos, F. Carvalho, J. Laíns (Tocha/PT)

P084 The effect of the Fascial Distortion Model on micrographia in Parkinsonism – a single system study
K. Andreas (Heerbrugg/CH)

P085 The investigation of the relationship between position sense and postural control in ataxic patients
Ö. Onursal, E. Ayvat, G. Sütçü, F. Ayvat, M. Kilinç, S. Aksu Yıldırım (Ankara/TR)
P086  The main milestones of motor recovery after stroke
M. Loi (Pavia/IT), M. Abbamonte (Cremona/IT),
R. Maestri (Montescano/IT), A. Zaliani, P. Balbi (Pavia/IT)

P088  Impact of functional electrical stimulations in the early neurosurgical rehabilitation of patients with cerebral tumors – a comparative study
I. Koleva, R. Yoshinov, B. Yoshinov (Sofia/BG)

P089  Next-generation interactive devices in neurorehabilitation of social skills in children with acquired brain injury
M. Saard, L. Pertens, K. Sepp, A. Kolk (Tartu/EE), T. Kallakas (Tallinn/EE)

P090  Creating a social cognition neurorehabilitation model for modern multitouch technology to treat communication and cooperation problems in children with acquired brain injury
M. Saard, L. Pertens, K. Sepp, A. Kolk (Tartu/EE), T. Kallakas (Tallinn/EE)

P091  Robotic assessment to quantify upper limb position sense in patients with stroke – preliminary results
A. Deblock-Bellamy, C. S. Batcho, C. Mercier (Quebec City/CA),
M.-H. Milot (Sherbrooke/CA), A. K. Blanchette (Quebec City/CA)
19:00–20:30  ePoster Session 7  I  Dysphagia

Room       Office M
Chair     C. Kätterer (Basel/CH)

P092  Arthrogryposis multiplex congenital – What are the limitations of activities of daily living (ADL) in adulthood?

P093  Communication function in cerebral palsy – modified Communicative Effectiveness Index (CETI) assessment
M. D. Romero-Torres, B. Romero Romero, J. A. Conejero Casares, P. Díaz Borrego (Seville/ES)

P094  Evaluation of the effectiveness of robotic kinesiotherapy in complex rehabilitation in children with cerebral palsy
M. Balgayeva, S. Bulekbayeva, Z. Daribayev (Astana/KZ), A. Prasauskiene (Kaunas/LT), A. Takeneyeva (Astana/KZ)

P095  Feasibility and sensibility trial of a non-invasive device to analyse the swallowing process and its disorders
A. Vuistiner, V. Schweizer, K. Diserens (Lausanne/CH)

P096  Growth profile of children with developmental disabilities
D. Jung, H. R. Jeon, S. W. Kim (Goyang/KR)

P097  Intelligence profile in children with cerebral palsy
D. Jung, S. W. Kim, H. R. Jeon (Goyang/KR)

P098  Intramedullary spinal cavernoma with hematomyelia in a 10-year old girl – a case report
D. Lekaditi, A. Leiber, C. Kuenzle, O. Maier (St. Gallen/CH)

P099  Mechanisms of activity-oriented manual dysphagia therapy for Parkinson’s disease
A. Dassel (Ingelheim am Rhein/DE)
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<td>P100</td>
<td>Myotonic dystrophy type 1 – motor function and swallowing dysfunction</td>
<td>P. Díaz Borrego, M. D. Romero-Torres, R. Figueroba Murillo, M. Rodriguez-Piñero Durán</td>
<td>Seville/ES</td>
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<td>P101</td>
<td>Structural brain abnormalities and type of onset in patients in amyotrophic lateral sclerosis patients</td>
<td>L. Mourao, R. Guimarães (Campinas/BR), K. Luchesi (Florianópolis/BR), M. Fieri, M. Franca Jr. (Campinas/BR)</td>
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<td>P102</td>
<td>Swallowing disorders and early complications after ischemic stroke: Predisposing factors?</td>
<td>A. Beharry, V. Schweizer, K. Diserens</td>
<td>Lausanne/CH</td>
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ePOSTER SESSIONS  | FRIDAY, 27 OCTOBER

19:00–20:30  ePoster Session 8  | Motor rehabilitation 3

Room  Office G
Chair  G. Kwakkel (Amsterdam/NL)

P105  Continuous decoding of different reaching directions from EEG
C. Bibián, E. López-Larraz (Tübingen/DE),
N. Birbaumer (Tübingen/DE; Geneva/CH),
A. Ramos-Murguialday (Tübingen/DE; San Sebastián/ES)

P106  Differences in quality of life domains according to disease duration in patients presenting for post-stroke upper limb spasticity treatment with abobotulinumtoxinA – findings from an international observational study
J. Wissel (Berlin/DE), M. Hoonhorst (Zwolle/NL),
J. Hamacher (Essen/DE), K. Theodoroff (Hermagor/AT),
E. Albessard (Ettingen/DE), P. Maisonobe (Les Ulis/FR),
H. Hefter (Düsseldorf/DE)

P107  Effect of dual-tDCS combined with physical therapy on lower limbs performances in sub-acute stroke patients
W. Klomjai, B. Aree-uea, A. Pheungpharattanatrai,
T. Chantanachai (Nakhon Pathom/TH),
P. Auervitchayapat (Khon Kaen/TH), Y. Nilanon (Bangkok/TH),
V. Hiengkaew (Nakhon Pathom/TH)

P108  Effect of virtual reality on upper limb function early after stroke
J. Opara, J. Szczygieł (Katowice, Tarnowskie Góry/PL)

P109  Effects of non-invasive brain stimulation on white-matter tracts in subacute stroke
P. Nicolo, C. Magnin, E. Pedrazzini, A. Schnider,
A. G. Guggisberg (Geneva/CH)

P110  Effects of Pilates training on pain and postural control in patients with chronic neck pain – a randomised controlled study
M. Soysal Tomruk, B. Kara, N. Arda (Izmir/TR)
P111 Learning neuromotor rehabilitation through serious games – a physiotherapist students’ perspective  
F. Savazzi, S. Isernia, J. Jonsdottir, F. Baglio (Milan/IT)

P112 Lockomat training for motor fitness in a case series of cerebral palsy children  
F. Digiacomo, S. Tebaldi, A. Castelli, D. Terranova, V. Romeo, R. Casale, M. Bartolo (Zingonia/IT)

P113 Patients with early post-stroke upper limb spasticity have different goals to those with medium and long-standing spasticity – findings from an international observational study of abobotulinumtoxinA for upper limb spasticity  
J. Wissel (Berlin/DE), H. Hefter (Düsseldorf/DE), K. Theodoroff (Hermagor/AT), J. Hamacher (Essen/DE), E. Albessard (Ettingen/DE), P. Maisonobe (Les Ulis/FR), M. Hoonhorst (Zwolle/NL)

P114 Searching for standardised measurements of strength in patients with Multiple Sclerosis – a literature review  
S. Slama, A. Greisberger (Vienna/AT)

P115 The effect of seat width on sitting and balance in T1-T6 paraplegic patients  
R. Levy (Ramat Gan, Tel Aviv/IL), G. Zeilig (Ramat Gan/IL), T. Prushanshki (Tel Aviv/IL)

P116 Which effect does endurance training have on fatigue in persons with Multiple Sclerosis? – a literature review  
G. Schnellnberger, A. Greisberger (Vienna/AT)

P117 Work-oriented therapy in neurorehabilitation – a specialised link between medical and work rehabilitation  
I. Buesching, U. Huerlimann, P. Keller, G. Kuenig, J. Laubscher, B. Rogiest, B. Trueb (Bellikon/CH)
P118 Baseline characteristics in patients from an international prospective, non-interventional study to assess long-term effectiveness of AbobotulinumtoxinA (ABO) in post-stroke arm spasticity (PSAS) with respect to time of ABO treatment-initiation post-stroke J. Wissel, M. Müngersdorf (Berlin/DE), M. Hoonhorst (Zwolle/NL), J. Hamacher (Essen/DE), K. Fheodoroff (Hermagor/AT), E. Albessard (Ettlingen/DE), P. Maisonobe (Les Ulis/FR), H. Hefter (Dusseldorf/DE)

P120 Robot-assisted stair climbing training for improving mobility and participation in daily activities in persons affected by stroke – a pilot randomised clinical trial C. Geroin, M. Gandolfi, E. Dimitrova, N. Valè, N. Smania (Verona/IT)

P121 Effects of dalfampridine in persons with Multiple Sclerosis on mobility in daily life and on activities of daily living – a pilot study T. Rothschedl (Vienna/AT), G. Diermayr (Vienna/AT, Heidelberg/DE), F. Leutmezer (Vienna/AT)

19:00–20:30 ePoster Session 9 | Motor rehabilitation 4
Room Office H
Chair K.-M. Stephan (Bad Wimpfen/DE)

P122 Cause and effect – calibration, application and comparison of Granger causality, Kernel-Granger causality and dynamic causal modelling between cortical activation (ECoG) and muscle activity (EMG) in patients with hemiparesis after stroke F. Helmhold, T. da Cruz Figueiredo, M. Spüler, N. Birbaumer, A. Ramos-Murguialday (Tübingen/DE)

P123 Cross-cultural translation and validation of the German version of the Balance Evaluation Systems Test G. Diermayr, M. Haselwander (Heidelberg/DE)

P124 Development of a pegboard for automated time measurement of individual’s peg and hand motion H. Kinoshita, Y. Nakanishi (Minoh/JP), R. Okuno (Neyagawa/JP), T. Hlgashi (Nagasaki/JP)
P125  Effect of kinesthetic illusion induced by visual stimulation on ankle dorsiflexion dysfunction in a stroke patient – ABAB single-case design

P126  Effects of hippotherapy in upper limb function of children and adolescents with spastic cerebral palsy
R. Carvalho, D. Santos Batista, N. Trasmonte da Silva (Santos/BR)

P127  Effects of modified constraint-induced movement therapy in the recovery of upper extremity function affected by a stroke – a single blind randomised parallel trial – comparing group versus individual intervention
A. Doussoulin, J. Saiz, C. Rivas, R. Rivas (Temuco/CL)

P128  Effects of Pilates exercises on limits of stability and upper extremity functions in patients with Multiple Sclerosis
M. Soysal Tomruk, M. Uz, B. Kara, E. İdiman (Izmir/TR)

P129  Feasibility of two novel interactive software modules for the rehabilitation of patients with neuromuscular upper limb impairments using the YouGrabber training system – the KAYO study protocol
F. Behrendt (Rheinfelden, Basel/CH), C. Schuster-Amft (Rheinfelden, Burgdorf/CH)

P130  Navigated brain stimulation for upper limb recovery after stroke: quality of life outcomes from a randomised sham-controlled clinical trial of low-frequency rTMS to non-injured hemisphere combined with upper limb rehabilitation

P131  Neurorehabilitation of haemorrhagic stroke in patients presenting racemoce neurocysticercosis in rural Eastern Cape, South Africa L. d. F. Ibañez Valdés, H. Foyaca Sibat (Mthatha/ZA)
P132 Simultaneous intervention involving action observation and actual exercise to improve walking ability of chronic stroke patients
M. Morishita (Takahashi/JP), K. Yamauchi, M. Kobayashi (Niimi/JP)

P133 Toilet training in a group setting – patient’s opinion and success
H. Pickenbrock (Meerbusch/DE)

P135 Defining optimal robot assisted gait training protocol for locomotor rehabilitation in stroke patients
J. Glavic (Dubrovnik/HR), S. Rutović, I. Popovic (Zagreb/HR), N. Kristic Cvitanovic (Dubrovnik/HR)

19:00–20:30 ePoster Session 10 I Neuropsychology 2

Room Office I
Chair B. Wilson (Cambridge/GB)

P136 Auditory speller system for communication with patients in completely locked-in state
A. Tonin, A. Malekshahi, A. Rana, A. Luna (Tübingen/DE), N. Birbaumer, U. Chaudhary (Tübingen/DE; Geneva/CH)

P137 Comparing MEG and EEG for monitoring the modulation of the 20-Hz motor-cortex rhythm to tactile and proprioceptive stimuli
M. Illman (Espoo/FI), K. Laaksonen (Espoo, Helsinki/FI), M. Liljeström, V. Jousmäki, H. Piitulainen (Espoo/FI), N. Forss (Espoo, Helsinki/FI)

P138 Correction of sleep during brain-computer interface based communication in completely locked-in state patients
A. Malekshahi, A. Tonin, A. Rana, A. Luna (Tübingen/DE), N. Birbaumer, U. Chaudhary (Tübingen/DE; Geneva/CH)

P139 Event-related potential-based cognitive assessment of patients in completely locked-in state
A. Luna, A. Tonin, A. Malekshahi, A. Rana (Tübingen/DE), N. Birbaumer, U. Chaudhary (Tübingen/DE; Geneva/CH)
P140  Impact and effect of neurological rehabilitation on cognitive fatigue in Multiple Sclerosis  
C. Sander (Wilhelmshaven, Oldenburg/DE), R. Reichert (Oldenburg/DE), H.-P. Schlake (Wilhelmshaven/DE), H. Hildebrandt (Oldenburg, Bremen/DE)

P141  Impedance analysis of body composition and bioelectric activity of rectus abdominis and external oblique muscles – prospective observational study  
K. Ptaszkowski (Wrocław/PL), L. Slupska (Opole/PL), P. Włodarczyk, R. Dymarek, M. Paprocka-Borowicz (Wrocław/PL)

P142  Implementation and feasibility of a screening tool for neuropsychological assessment  
V. L. Vogt, S. Knecht, L. Biermann, C. Helmstaedter (Meerbusch/DE)

P143  Low- vs. high-density EEG configurations for brain computer interfaces based on movement imagination in patients after spinal cord injury  
Y. Höller, A. Thomschewski, S. Leis (Salzburg/AT), R. Nardone (Salzburg/AT; Merano/IT), E. Trinka, P. Höller (Salzburg/AT)

P144  Neurovascular reactions to animal-assisted therapy in patients with severe disorders of consciousness – a randomised controlled pilot study  
W. Arnskötter (Basel/CH), V. Marcar (Zurich, Basel/CH), M. Hund-Georgiadis, K. Hediger (Basel/CH)

P145  Physical exercise, neuroplasticity and cognition following mild traumatic brain injury  
T. Morris (Boston, MA/US; Barcelona/ES), A. Stillman, P. Fried (Boston, MA/US), J. Gomes-Osman (Miami, FL, Boston, MA/US), J. M. Tormos Muñoz, D. Costa-Miserachs (Barcelona/ES), A. Pascual-Leone (Boston, MA/US; Badalona, Barcelona/ES), E. Santarnecchi (Boston, MA/US)

P146  Quality of life in amyotrophic lateral sclerosis patients in completely locked-in state  
A. Rana, A. Malekshahi, A. Tonin, A. Luna (Tübingen/DE), N. Birbaumer, U. Chaudhary (Tübingen/DE; Geneva/CH)
P147  The Cognitive Assessment scale for Stroke Patients (CASP) – validity and reliability  
C. Benaim (Lausanne, Sion/CH), G. Wauquiez (Dijon/FR),  
C. Piscicelli (Grenoble/FR), B. Lucas-Pineau (Dijon/FR),  
P. Vuadens (Sion/CH), H.-Y. Bonnin-Kuang (Nîmes/FR), C. Binquet,  
H. Devilliers (Dijon/FR)

P148  Imagine there is no plegia – mental motor imagery difficulties in patients with spinal cord injury  
A. Thomschewski, A. Ströhlein, P. Langthaler, E. Schmid, J. Potthoff,  
P. Höller, S. Leis, E. Trinka, Y. Höller (Salzburg/AT)

P149  Development of an auto-adapted rehabilitation serious game for hemineglect  
V. Montedoro (Louvain-la-Neuve/BE), S. Dehem (Bruxelles/BE),  
S. Heins (Louvain-la-Neuve/BE), P.-H. De Dekken, F. Rocca (Mons/BE),  
T. Lejeune (Bruxelles/BE), B. Dehez (Louvain-la-Neuve/BE),  
M. Mancas (Mons/BE), M. Edwards (Louvain-la-Neuve/BE)

P150  Contra-lesional evaluations of resting-state functional connectivity after stroke – a pilot study  
M. Oh, J. Park, W.-S. Kim, N.-J. Paik (Seongnam-si/KR)

P058  The role of functional MRI in the diagnosis and prognosis of patients with severe chronic disorders of consciousness  
S. M. Golaszewski, B. Wutzl (Vienna, Salzburg/AT),  
C. Florea (Salzburg/AT), A. B. Kunz, M. Seidl,  
K. Schwenker (Vienna, Salzburg/AT), F. Rattay (Vienna/AT),  
R. Nardone (Salzburg, Vienna/AT), E. Trinka (Salzburg/AT)

P059  Cortical afferent inhibition reflects cognitive impairment in obstructive sleep apnea syndrome – a Transcranial Magnetic Stimulation (TMS) study  
S. M. Golaszewski, A. B. Kunz, K. Schwenker, B. Wutzl,  
M. Seidl (Vienna, Salzburg/AT), F. Brigo (Merano, Verona/IT),  
Y. Höller (Salzburg/AT), C. Florea (Vienna, Salzburg/AT),  
E. Trinka (Salzburg/AT), R. Nardone (Salzburg, Vienna/AT; Merano/IT)
19:00–20:30  ePoster Session 11  | Disease-specific rehabilitation 2

Room  
Office J

Chair  
N. Smania (Verona/IT)

P151 Application of botulinum toxin for spasticity after subarachnoid hemorrhage – a case report
S. Estrela Rego (Lisbon/PT)

P152 Facial synkinesis after Bell’s palsy are caused by neuroplastic changes in patient’s dominant mimetic patterns, not by aberrant regeneration of the facial nerve
O. Pashov, O. Pashova (Rotterdam/NL)

P153 Novel multi-pad functional electrical stimulation in stroke patients
L. Konstantinović, S. Dedijer, J. Malesević (Belgrade/RS),
N. Malesevic (Lund/SE), A. Vidakovic (Belgrade/RS), G. Bijelic,
T. Keller (San Sebastián/ES)

P154 Physical therapy for freezing of gait in Parkinson’s disease: a systematic review
D. G. Rutz, D. H. Benninger (Lausanne/CH)

P155 Rehabilitation of Lance-Adams Syndrome – a multidisciplinary approach
J. Pires (Tocha/PT), L. Mirrado (Matosinhos/PT), F. Rocha
J. Constantino, I. Campos, A. Pereira, J. Lai̇ns (Tocha/PT)

P156 The effects of semantic auditory cueing on lexical retrieval in chronic Broca’s aphasics
K. Grechuta, B. Rubio Ballester (Barcelona/ES), R. Espin Munne,
T. Usabiaga Bernal, R. San Segundo (Tarragona/ES),
P. Verschure (Barcelona/ES)

P157 The relationship of cortical activity and recovery of upper limb sensorimotor impairments after stroke – a systematic review
L. Tedesco Triccas (Leuven/BE; Msida/MT), S. Meyer,
D. Mantini (Leuven/BE), K. Camilleri, O. Falzon,
T. Camilleri (Msida/MT), G. Verheyden (Leuven/BE)
P158  Traumatic brain injury – a 5-year Portuguese rehabilitation centre experience
J. Pires (Tocha/PT), L. Mirrado (Matosinhos/PT), J. Lains, A. Pereira (Tocha/PT)

P159  Virtual reality activities and multimedia content into rehabilitation programme in Parkinson’s disease – application of the Human Empowerment Aging and Disability (HEAD) protocol
C. Pagliari, S. Isernia, J. Jonsdottir, G. Perini (Milan/IT), P. Gindri, C. Castiglioni (Turin/IT), C. Gramigna, F. Molteni (Costa Masnaga/IT), F. Baglio (Milan/IT)

P103  Secondary cervical spinal cord compression – long-term follow-ups of a rehabilitation patient with implant in the cervical spine after incomplete spinal cord injury and heterotopic ossification

19:00–20:30  ePoster Session 12 I Disease-specific rehabilitation 3
Room  Office K
Chair  C. Attwell (Lausanne/CH)

P160  Evaluation of the plantar fascia thickness along its length in equivalent locations in both feet
S. Malek Mohammadi (Tehran/IR)

P161  Improving outcome after spinal neurinoma surgery with neurorehabilitation
F. Fezeu (Bad Elster/DE), C. Jacob (Jena/DE), M. Schorl (Bad Elster/DE)

P162  Increased psychological distress among individuals with spinal cord injury is associated with central neuropathic pain rather than the injury itself
G. Zeilig (Ramat Gan, Tel Aviv/IL), H. Gruener (Tel Aviv/IL), Y. Laufer (Haifa/IL), N. Blumen (Ramat Gan/IL), R. Defrin (Tel Aviv/IL)

P163  Influence of visual biofeedback treatment in syllable frequency
N. Lieber, M. Kneer, S. Hölschen, P. Schubert, C. Haas, S. Kersten (Idstein/DE), M. Liebherr (Duisburg/DE)
P164  Pareidolias and creativity in Parkinson’s disease
N. Hollenstein (Zihlschlacht/CH), D. de Jong (Bern/CH), J. Ide, A. Binder, M. Oechsner, J. C. Möller (Zihlschlacht/CH), R. Müri (Bern/CH)

P165  PD-manager European project – mHealth platform and wearable devices for Parkinson’s disease monitoring – preliminary results and pilot study planning
A. Marcante (Venice/IT), G. Gentile, D. Gatsios (Ioannina/GR), G. Rigas (Venice/IT; Ioannina/GR), C. Pellicano (Rome/IT), R. Vilzmann (Munich/DE), A. Antonini (Venice/IT)

P166  Physical and occupational therapy in Parkinson’s disease
L. Teszler (Novara/IT)

P167  Physical fitness training programme for stroke survivors
L. Mirrado, R. Vilela (Matosinhos/PT)

P168  Predictors of outcome in patients with Guillain-Barré syndrome after early neurorehabilitation
A. Schmidt (Krefeld/DE), A. Hartmann (Cologne/DE), M. Alfuth, M. Weyermann (Krefeld/DE)

P169  Rehabilitation of Guillain-Barré syndrome – a rehabilitation centre experience
L. Mirrado, J. Pires, A. Pereira, J. Lains (Matosinhos/PT)

P170  Strength training after stroke – Which impact does it have on gait?
E. Hupfer (Wels/AT)

P171  tDCS plus Cognitive Training (CT) – a pilot study for the treatment of morbid obesity
M. Castellano, A. Cuenca-Royo, L. Forcano, A. Soria-Frisch, G. Ruffini, R. de la Torre (Barcelona/ES)
P172 The pain in Parkinson’s disease questionnaire – first data from a multi-centre validation study  
V. Mylius (Valens, St. Gallen/CH; Marburg/DE), N. Hollenstein (Valens, Zihlschlacht/CH), M. Kaufmann, R. Gonzenbach, J. Kesselring (Valens/CH), S. Hägele-Link (St. Gallen/CH), M. Oechsner (Zihlschlacht/CH), S. Beer (Valens/CH), G. Kägi (St. Gallen/CH), J. C. Möller (Marburg/CH; Zihlschlacht/CH)

P173 Urinary incontinence after stroke – How to assess and how to treat?  
L. Mirrado, J. Pires, R. Vilela (Matosinhos/PT)

19:00–20:30 ePoster Session 13 | Neuromodulation
Room Office L
Chair A. Pincherle (Lausanne/CH)

P174 1-Hz repetitive transcranial magnetic stimulation over contralesional triceps area improves kinematic parameters of reaching movements in chronic stroke patients  
L. Sebastianelli, V. Versace, S. Martignago, S. Campostrini (Sterzing/IT), A. Melendez-Calderon (Chicago, IL/US), M. Falk (Bozen/IT), R. Nardone (Salzburg/AT), L. Saltuari (Sterzing/IT; Zirl/AT)

P175 Abnormal paired associative stimulation in patients with traumatic spinal cord injury and poor recovery  
V. Versace, L. Sebastianelli (Sterzing/IT), P. B. Langthaler, Y. Höller, S. M. Golaszewski (Salzburg/AT), L. Saltuari (Zirl/AT), R. Nardone (Salzburg/AT)

P176 Can the ptosis of the Horner’s syndrome be improved with botulinium toxin injection? – a case report  
S. Estrela Rego, E. Afonso, J. Rios, J. Moreira, V. Milet, A. L. Gomes, A. Reis, G. Leandro (Lisbon/PT)

P177 Evaluation of a music guided treadmill training for hemiparetic patients following stroke  
J. Wissel, S. Mainka (Potsdam/DE)
P178  Head-mounted display adaptation for reaching behaviour in unilateral neglect – a case study

P179  Influence of botulinum toxin injection on gait speed and endurance in adults with chronic stroke
C. Zwissig, C. Hennemann, E. Opsommer, D. Malatesta (Lausanne/CH)

P180  Predictive value of intraoperative bulbocavernosus reflex during untethering surgery for post-operative voluntary voiding
K. Kim, S. Cha (Seoul/KR)

P181  Predictor for positive response to a selective implanted drop foot stimulator (ActiGait®) – post-stroke
M. M. Pinter (Krems/AT)

P182  Study design of a phase 2a proof-of-concept clinical trial of HT-3951 in upper extremity motor function following ischemic stroke
B. English, B. Basobas, C. Charriez, J. Djan, D. Carpenter, P. Perera, S. Myhre (San Diego, CA/US)

P183  tDCS in memory training – a pilot study on verbal recognition performance
L. S. Balduin, S. Weiss, H. M. Müller (Bielefeld/DE)

P185  Using a dopamine abstract to treat hemispatial neglect during post stroke neurorehabilitation – a case series
O. Swayne, S. Daniels, L. Cambell Jackson, D. Playford (London/GB)

P186  VRGait – an immersive virtual reality system for gait-specific neurorehabilitation and therapy
M. E. Latoschik, S. Strraka, D. Gall, N. Hamzeheinejad, J.-L. Lugrin, F. Weilbach (Würzburg/DE)

P187  The effects of combined repetitive transcranial and peripheral magnetic stimulation on cortical excitability and motor function in stroke patients
V. Kuzniyetsov, N. Skachkova, S. Kuzniytsa (Kiev/UA)
**ePOSTER SESSIONS  | FRIDAY, 27 OCTOBER**

**19:00–20:30  ePoster Session 14  | Early neurorehabilitation 2**

**Room**  
Office M

**Chair**  
J. Jöhr (Lausanne/CH)

**P188**  
A European registry for neurorehabilitation practice using neurotechnologies – Léman registry  
G. Garipelli (Lausanne/CH), V. Caso (Perugia/IT), J. Dawson (Glasgow/GB), F. Müller (Bad Aibling/DE), M. Gehring, A. Serino, S. Ghoussayni, K. Kerman (Lausanne/CH)

**P190**  
Early neurorehabilitation in the intensive care unit  
M. From, U. P. Munday (Silkeborg/DK)

**P191**  
Feasibility pilot study using a virtual reality device in upper limb early rehabilitation  
V. Baun, V. Mouron, B. Schultz (Baden/CH), S. Frese (Bad Zurzach/CH), P. Sandor (Baden/CH)

**P192**  
Influence of Sudoku on attention and concentration parameters  

**P193**  
Influence of visual EMG biofeedback on gait parameters in people with Multiple Sclerosis  

**P194**  
Neuropsychology in Argentina – intervention strategies with limited resources  
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P201 Cisternostomy – A new border in treatment of refractory intracranial hypertension?
F. Borsotti, L. Giammattei, M. Messerer, R. T. Daniel (Lausanne/CH)
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The Nestlé Nutrition Institute will welcome you to their industrial symposium on Thursday, 26 October 2017:

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Room        Garden 2/3

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J. Schefold (Bern/CH)

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Aims and Scope
NeuroRehabilitation is an international journal that emphasizes publication of scientifically based, practical information relevant to all aspects of neurologic rehabilitation. Manuscripts cover the full life span and range of neurological disabilities including stroke, spinal cord injury, traumatic brain injury, neuromuscular disease, and other neurological disorders. Information is intended for an interdisciplinary audience. The journal celebrates its 25th anniversary in 2017 and you are invited to view the openly-available content of the celebratory issue via the link below. Get access to:

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EMH Schweizerischer Ärzteverlag AG (Muttenz/CH)
“Swiss Archives of Neurology, Psychiatry and Psychotherapy”

Foundation of Rehabilitation Information (Uppsala/SE)
“Journal of Rehabilitation Medicine”

Hippocampus Verlag KG (Bad Honnef/DE)
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“NeuroRehabilitation”

OMICS Publishing Group (Westlake, Los Angeles CA/US)
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S. Karger AG (Basel/CH)
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Access to all scientific sessions and to the exhibition is only possible with your personal name badge, which you will receive at the check in desk. All participants are requested to wear their badges throughout the congress.

Catering
Coffee, tea and biscuits will be served free of charge in the exhibition areas at several stations (see floor plan page 78) during official coffee break times (10:00–10:30 & 15:00–15:30). Furthermore a cash bar is available.

City Information
For event recommendations or excursions, please refer to Lausanne Tourisme at www.lausanne-tourisme.ch or +41 21 613 73 73.

Cloakroom
A cloakroom is available (see floor plan page 78).

Conference App
A conference app with all programme and exhibition details will be offered for Apple iOS as well as ANDROID smartphones and tablets.

CME Credits
The congress is accredited with 23 European CME Credits (ECMEC) by the European Accreditation Council for Continuing Medical Education (EAC-CME). To obtain your CME credits, please provide daily proof of presence by scanning your name badge at the provided counter. You will receive a certificate of attendance after the congress via e-mail. Furthermore, the congress is accredited by Logopädieaustria with 12 points.
Aktivierende Therapie bei Parkinson-Syndromen

- Grundlagen der Aktivierenden Therapie bei Morbus Parkinson
  G. Ebersbach

- Behandlung von Freezing und Gleichgewichtsstörungen
  K. Ziegler, A. O. Ceballos-Baumann, U. M. Fietzek

- Amplitudenorientierte Therapien beim idiopathischen Parkinson-Syndrom: LSVT LOUD und LSVT BIG
  G. Mallien, F. E. Schroeter, G. Ebersbach

- Psychologische Interventionen bei Verhaltensstörungen und zur Unterstützung der Krankheitsverarbeitung
  B. Leplow, L. Latzko

- Kognitive Interventionen zur Therapie kognitiver Störungen bei Morbus Parkinson: ein praxisorientierter Überblick
  A.-K. Folkerts, E. Kalbe

- Parkinson-assoziierte Schluckstörungen – Diagnostik und Therapie
  I. Claus, T. Warnecke

Gastherausgeber: G. Ebersbach

Originalarbeit:
Passive repetive sensible elektrische Stimulation zur Verbesserung motorischer Funktionen nach Schlaganfall
A. Sehle, I. Büsching, H. R. Dinse, J. Liepert

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The ePoster service desk is located in the Speakers’ Preview Area. Guided ePoster sessions are scheduled for Wednesday and Friday. Additionally all ePosters are available during the whole duration of the conference at special self-study terminals next to lecture hall Garden 5 C.

ECNR Session Planner
Navigate the scientific programme, view sessions by day and category and create your own itinerary to fully exploit your conference experience on www.ecnr-congress.org.

Exhibition
An industrial exhibition will take place during the congress. Companies from all over the world have been invited to display products related to neurorehabilitation as well as to promote services and technical innovations. Please refer to the list of exhibitors on page 74.

Internet
A wireless network will be available throughout the whole building and will be free of charge. The access code will be announced on-site.

Language
The conference language is English. The sessions of the ÖGNR and the SGNR will be in German. No simultaneous translation will be provided.

Opening Hours

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Parking
Please consider that public parking areas are extremely limited near the conference venue (parking lot at Quartier Nord de EPFL). From the centre of Lausanne, the M1 metro stops right in front of the building and takes only 15 minutes (stop at “EPFL”).
Die Nervenheilkunde ist eine der bekanntesten Fort- und Weiterbildungszeitschriften für Neurologen, Psychiater und Nervenärzte. Da bei psychischen Störungen Hausärzte fast immer die ersten Ansprechpartner sind und die Weichenstellung für eine kompetente fachärztliche Behandlung in ihren Händen liegt, wendet sich die Nervenheilkunde zugleich an Primärärzte.


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Ihre Zeit ist kostbar! Darum selektieren unsere erfahrenen Redakteure gemeinsam mit namhaften Autoren alle relevanten Informationen aus der internationalen Welt der Medizin und fassen sie in diesem Heft für Sie zusammen. Inklusive umfassender Kongress-Berichterstattung, vor Ort recherchiert.

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Neurophysiotherapie, Master of Science

Der postgraduale Universitätslehrgang „Neurophysiotherapie, Master of Science“ richtet sich an PhysiotherapeutInnen, die Interesse haben, sich für das rasch wachsende PatientInnensegment mit Störungen des Bewegungsverhaltens mit neurologisch-sensorischer Komponente in ihren Praxen mit fundiertem, evidenzbasiertem und klientenzentriertem Wissen zu rüsten.

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Abschluss: Master of Science (MSc)
Dauer: 5 Semester, berufsbegleitend
ECTS-Punkte: 120

Start: Vorbehaltlich des studienrechtlichen Genehmigungsverfahrens der Donau-Universität Krems mit Oktober 2018
Informationsveranstaltung: Samstag, 17.03.18, um 8 Uhr und um 18 Uhr
Um Anmeldung wird gebeten unter info@ulmkolleg.de

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Dysphagia on the ICU: results of the large-scale DyNAMICS trial
Joerg C. Schefold | Switzerland

Facilitated Glucose Control Through Nutrition
Juan Ochoa | USA

Technology Innovations in Dysphagia diagnosis and treatment
Richard Harvey | USA

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and
Richard Harvey | USA
Dysphagia on the ICU: results of the large-scale DyNAMICS trial

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Targeted Sensorimotor Action

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- 1994*
- Blepharospasm*
- 1994*
- Cervical Dystonia*
- 1997*
- Dynamic Equinus Foot Deformity in Paediatric (> 2 years) Cerebral Palsy*
- 1998*
- Focal Spasticity inclusive upper limb ass. with stroke*
- 1999*
- Primary Axillary Hyperhidrosis*
- 2003*
- Neurogenic Detrusor Overactivity*
- 2012*
- Overactive Bladder*
- 2013*

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