



ECNR European Congress
of NeuroRehabilitation 2017

Lausanne

25–28 October 2017
SwissTech Convention
Center Lausanne (CH)

PROGRAMME

Endorsed by:



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10TH WORLD CONGRESS FOR **NEUROREHABILITATION**

7-10 February, 2018

Renaissance Mumbai Convention Centre Hotel,
Powai, Mumbai, India

www.wcnr2018.in

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LATE-BREAKING
ABSTRACT
SUBMISSION
WILL OPEN ON
OCTOBER 15, 2017

FROM **NEUROTECHNOLOGIES**
TO **COMMUNITY CARE**

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World Federation for NeuroRehabilitation



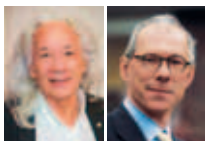
Indian Federation of NeuroRehabilitation

NeuroRehab
Subgroup of IAN



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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



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Leopold Saltuari
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Local Organising Committee Chair

Karin Diserens
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Neurology Service | Department of Clinical Neuroscience
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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



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D. Zutter (Zihlschlacht/CH)

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Editorial Deadline	11 October 2017

Garden 5 A, B	Garden 4 B, C	Garden 1 A, B	Garden 5 C	Offices G-M
12:00–14:00	12:00–14:00	12:00–14:00	12:00–14:00	
WS 1: Newest in motor rehab for upper extremity	WS 2: Clinical Research	WS 3: Multiple Resistant Bacteria regiments in early rehab	WS 4: Dysphagia	
p. 14	p. 14	p. 14	p. 14	p. 14
Coffee Break within the Industrial Exhibition				
14:15–16:15	14:15–16:15	14:15–16:15	14:15–16:15	
WS 5: Newest in motor rehab for lower extremity	WS 6: Neurologic music therapy	WS 7: Special neuromotor procedures on early neurorehab ward	WS 8: How to deal with tricky spasticity problems	
p. 14	p. 14	p. 14	p. 14	p. 14
Coffee Break within the Industrial Exhibition				
16:30–18:30	16:30–18:30	16:30–18:30	16:30–18:30	
WS 9: How to deal with the aphasic patient	WS 10: Neurorehabilitation pharmacology	WS 11: Transcranial magnetic stimulation for stroke rehab	WS 12: Pediatric neurorehabilitation	
p. 15	p. 15	p. 15	p. 15	p. 15
18:30–20:30				
Welcome Reception within the Industrial Exhibition				
				19:00–20:30
				ePoster Sessions 1–7
			p. 15	p. 43

Abbreviations:

WS

Workshop

IS

Invited Symposium

OC

Oral Communications

Garden 2/3	Garden 5 A, B	Garden 4 B, C	Garden 1 A, B	Garden 5 C
08:30–09:00 Opening Ceremony p. 16				
09:00–10:00 Plenary Lecture 1 p. 16				
Coffee Break within the Industrial Exhibition				
10:30–12:00 IS 1: Enigma of critical illness neuro/myopathy p. 16	10:30–12:00 IS 2: Impairment or function in post stroke rehab p. 17	10:30–12:00 Session of the SGNR p. 17	10:30–12:00 IS 3: Brain stimulation and BCIs p. 18	10:30–12:00 OC 1: Disease specific rehabilitation p. 19
12:15–13:15 Industrial Symposium P. 72	Lunch Break within the Industrial Exhibition			
13:30–15:00 IS 4: Acute neurorehabilitation p. 20	13:30–15:00 IS 5: Robotics – Stance/ Posture p. 21	13:30–15:00 Young Researchers p. 21	13:30–15:00 IS 6: Neuropediatrics p. 21	13:30–15:00 OC 2: Motor rehabilitation 1 p. 22
Coffee Break within the Industrial Exhibition				
15:30–17:00 IS 7: Delirium p. 23	15:30–17:00 IS 8: Neuropsychology p. 24	15:30–17:00 IS 9: Spinal Cord Injury p. 24	15:30–17:00 IS 10: Multiple Sclerosis p. 25	15:30–17:00 OC 3: Early neurorehabilitation p. 25
Coffee Break within the Industrial Exhibition				
17:30–18:30 Plenary Lecture 2 p. 27				

Garden 2/3	Garden 5 A, B	Garden 4 B, C	Garden 1 A, B	Garden 5 C	Offices G-M
07:30–08:30					
Meet-the-Experts Sessions 1-5					
Coffee Break within the Industrial Exhibition					
p. 28					
09:00–10:00					
Plenary Lecture 3					
p. 29					
Coffee Break within the Industrial Exhibition					
10:30–12:00	10:30–12:00	10:30–12:00	10:30–12:00	10:30–12:00	
IS 11: Functional disorders	IS 12: Dysphagia	Session of the OeGNR	IS 13: Spasticity treatment	OC 4: Motor rehabilitation 2	
p. 29	p. 29	p. 30	p. 30	p. 31	
12:15–13:15					
Round Table 1: Rehab Technology					
p. 32					
Lunch Break within the Industrial Exhibition					
13:30–15:00	13:30–15:00	13:30–15:00	13:30–15:00	13:30–15:00	
IS 14: SIRM Joint Symposium	IS 15: Communication disorder	IS 16: EAN Joint Symposium	IS 17: DGNR Joint Symposium	OC 5: Neuromodulation	
p. 32	p. 33	p. 33	p. 33	p. 34	
Coffee Break within the Industrial Exhibition					
15:30–17:00	15:30–17:00	15:30–17:00	15:30–17:00	15:30–17:00	
IS 18: Advanced neuroimaging	IS 19: Virtual reality	SIG of the WFNR Meeting	IS 20: SSNN Joint Symposium	OC 6: Neuropsychology	
p. 35	p. 35	p. 36	p. 36	p. 37	
Coffee Break within the Industrial Exhibition					
17:30–18:30					
Plenary Lecture 4					
p. 38					
Snack within the Industrial Exhibition					
19:00–20:00					
EFNR General Assembly					
p. 38					
19:00–20:30					
ePoster Sessions 8–14					
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Garden 2/3	Garden 5 A, B	Garden 4 B, C	Garden 1 A, B	Garden 5 C
07:30–08:30				
Meet-the-Experts Sessions 6–10				
Coffee Break within the Industrial Exhibition				
09:00–10:30	09:00–10:30	09:00–10:30	09:00–10:30	09:00–10:30
IS 21: RoSNeRa Joint Symposium	IS 22: Prognosis of recovery: clinical evaluation/ biomarkers	IS 23: Special aspects of neuropsychology	IS 24: Sinking-Skin-Flap-Syndrome	OC 6: Young therapists
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Coffee Break within the Industrial Exhibition				
11:00–12:00				
Round Table 3: Future perspectives (e-learning)				
p. 42				
12:00–12:30				
Farewell				
p. 42				

12:00–14:00 Workshop 1 | Newest in motor rehabilitation for upper extremity

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 | 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 | State of the art in neurorehabilitation pharmacology**
Room Garden 4 B, C
T. Buclin (Lausanne/CH), D. Mureşanu (Cluj Napoca/RO)
- 16:30–18:30 Workshop 11 | 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 | 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 | 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 | SGNR

Room Garden 4 B, C

Chairs C. Kätterer (Basel/CH),
K. Diserens (Lausanne/CH)



to be held in German

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 Tubuläre Hirnsklerose – Krankheitsmodifikation des klinischen Verlaufes unter m-ToR Inhibition
C. Kätterer (Basel/CH)

10:30–12:00 Invited Symposium 3 | 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
OP01 in patients with Parkinson's disease after speech therapy

C. Lirani Silva, A. P. Machado, R. Guimarães,
A. C. Constantini (Campinas/BR), L. T. Bucken Gobbi (Rio Claro/BR),
L. Figueiredo Mourão (Campinas/BR)

10:39 Comparative study of four neurorehabilitation complexes in patients
OP02 with diabetic polyneuropathy and diabetic foot

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
OP03 exercise training on treatment goals of cerebellar ataxia individuals

S. Aksu Yıldırım, E. Ayvat, Ö. Onursal, F. Ayvat, G. Sütçü,
M. Kiliç (Ankara/TR)

10:57 Effects of an intensive, multidisciplinary inpatients rehabilitation
OP04 programme in people with multiple sclerosis with different levels of disability – preliminary data

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
OP05 Parkinson's disease measured through a wearable ad-hoc setup

L. Padua (Rome, Milan/IT), M. Germanotta (Milan/IT), I. Miletì (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
OP06 neuropathies – a randomised clinical trial

I. Zivi, S. Maffia, V. Ferrari, A. Zarucchi, R. Maestri (Montescano/IT),
K. Molatore, G. Frazzitta (Gravedona/IT)

11:24
OP07

11:33
OP08

11:42
OP09

11:51
OP10

12:15–13:15
Room

13:30–15:00

Room
Chairs

G. Frazzitta (Gravedona/IT), P. Sandor (Baden/CH)

Verticalisation in intensive care
G. Frazzitta (Gravedona/IT)

Prediction and prognosis of recovery of disorders of consciousness
K. Diserens (Lausanne/CH)

Evaluation of cognitive disorders in acute care
J.-M. Annoni (Fribourg/CH)

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
OP21 (DoC) – a preliminary study on the Brief Post-Coma Scale (B-PCS)

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
OP22 monitoring mu and beta-band suppression

G. Bayer, H. G. M. Zadeh, B. Cengiz, M. Zinnuroglu, Z. Gunendi,
A. E. Turgut, K. B. Arıkan (Ankara/TR)

13:48 Activities of daily living, life satisfaction and psychosocial post-stroke:
OP23 What influence and predict outcomes? – preliminary results from a
multicentre study at nine clinics in seven countries – Sunnaas
International Network (SIN) stroke study

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

13:57 Effectiveness of temporary deafferentation of the arm on somato-
OP24 sensory and motor functions following stroke – a systematic review

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
OP25 recovery and ADL independence in individuals with Multiple Sclerosis:
a randomised controlled single-blinded trial

N. Smania, N. Valè, E. Dimitrova, S. Mazzoleni, M. Filippetti, C. Depaoli,
J. Corradi, E. Battini, M. Camin, M. Camin, M. D. Bendetti, A. Gajofatto,
F. Ferraro, M. Gandolfi (Verona/IT)

- 14:15
OP26 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. Geroïn, M. Gandolfi (Verona/IT)
- 14:24
OP27 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
OP28 Gait training with images in cards minimises the effects of freezing gravity in gait pattern of individuals with Parkinson's disease
L. M. M. Santiago, D. A. Oliveira, L. G. L. M. Ferreira, H. Y. B. Pinto, L. C. Lucena, A. R. Lindquist (Natal/BR)
- 14:42
OP29 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
OP30 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
OP11 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
OP12 Cognitive ecological test of San Pellegrino Terme
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
OP13 Early dose of upper limb motor rehabilitation using embodied
virtual reality – a case series study
G. Garipelli, C. Gilart de Keranflec’h, D. Perez-Marcos, T. Tadi,
P. Michel, K. Diserens (Lausanne/CH)
- 15:57
OP14 Early neurorehabilitation in neurooncology – an observational study
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
OP15 Early rehabilitation reduces time to decannulation in patients with
severe acquired brain injury
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
OP16 Economic impact of SwissDRG on acute neurorehabilitation
L. Berney, J.-M. Pignat, J.-B. Wasserfallen, K. Diserens (Lausanne/CH)
- 16:24
OP17 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
S. S. Kjeldsen, S. Søndergaard, L. R. Mikkelsen (Silkeborg/DK),
J. F. Nielsen (Hammel/DK)
- 16:33
OP18 Subtle motor behaviour assessment in the acute phase of disorders
of consciousness improve the predictability of outcome
J. Jöhr, J.-M. Pignat, K. Diserens (Lausanne/CH)
- 16:42
OP19 Systematic and adaptive cueing improve activities of daily living in
patients with neglect – a double-blinded randomised controlled trial
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
OP20 magnetic stimulation in superior limb rehabilitation of ischemic stroke
patients
A. M. Bumbea, R. C. Dumitrascu, R. M. Traistaru, 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.




to be held in German

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

Neuropsychological driving training – the Hocheegg model NRD1
C. List, H. Bliem (Hocheegg/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. Pistarini (Pavia/IT)

10:30 A versatile virtual reality system for motor rehabilitation:
OP31 a case series study

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
OP32 during a first intramuscular injection of botulinum toxin in spastic
adult patients – a prospective randomised study

D. Gasq, X. de Boissezon, E. Castel-Lacanal, P. Marque, C. Terracol,
C. Dimgelio, M. Labrunee (Toulouse/FR)

10:52 Effects of combined neural stem cell therapy and treadmill training
OP33 on the functional recovery after cervical spinal cord injury
A. Younsi, L. Riemann, M. Scherer, G. Zheng, T. Skutella, A. Unterberg,
K. Zweckberger (Heidelberg/DE)

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

11:14 A randomised blinded study of vagus nerve stimulation (VNS) during
OP35 rehabilitation for improved upper limb motor function after stroke
(MT-St-02) – follow-up through 90-days
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
OP36 improve gait and vital parameters in stationary neurological
rehabilitation – a cohort study
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
OP37 recovery after stroke
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
OP38 patients with Parkinson's disease
A. L. Manuel, V. Garibotto, P. Burkhard, A. Schnider,
N. Nicastro (Geneva/CH)

12:15–13:15 Round Table 1 | Rehab Technology – How to find a common discourse between clinicians and engineers?

Room	Garden 5 A, B
Chair	V. Hömberg (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 | Education in neurorehabilitation

Room	Garden 1 A, B
Chair	H. Binder (Vienna/AT)

D. Mureşanu (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 | Joint symposium with the Italian Society of NeuroRehabilitation | SIRON – 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 aphasic – 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. Mureşanu (Cluj Napoca/RO)


Beyond evidence based epistemology

D. Mureşanu (Cluj Napoca/RO)

Guidelines in neurorehabilitation – a challenge and an opportunity

M. Leone (Novara/IT)

Multidimensional 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 | Neuromodulation

Room Garden 5 C

Chair J. Opara (Katowice/PL)

13:30 A comparison of immersive and non-immersive virtual reality
OP39 systems for proprioception in patients after stroke
E. Stefas, N. Aslanidis, V. Gougliadis, D. Athanasiadis,
K. Emmanoil (Thessaloniki/GR)

13:40 Effects of mechanical-assisted training in patients with upper limb
OP40 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
OP41 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
OP42 S. Estrela Rego, J. Rios, E. Afonso, J. L. Coelho, V. Pequito (Lisbon/PT)

14:10 Improvements of language processing induced by prefrontal non-
OP43 invasive transcranial direct current stimulation in progressive
supranuclear palsy
C. Sanches, A. Valero-Cabré, M. Teichmann (Paris/FR)

14:20 Internal model of verticality – neuromodulation through body-weight
OP44 support in a tilted virtual environment
A. Odin, D. Faletto-Passy (Échirolles/FR), F. Assaban (Pérors/FR),
D. Pérennou (Échirolles, Grenoble/FR)

14:30 Neurofeedback as a new tool to treat dysphagia
OP45 S. E. Kober, G. Wood (Graz/AT)

14:40 Repetitive transcranial magnetic stimulation in treatment of leg
OP46 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
OP47 I. Tissièrès, 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)

15:30–17:00 SIG of the WFNR Meeting | Early mobilisation

Room Garden 4 B, C

Chairs 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

Room Garden 1 A, B

Chairs D. Mureşanu (Cluj Napoca/RO),
V. Hömberg (Bad Wimpfen/DE)



FOUNDATION OF THE
SOCIETY FOR THE STUDY OF
NEUROPROTECTION AND
NEUROPLASTICITY

A need for reinventing neurorehabilitation

V. Hömberg (Bad Wimpfen/DE)

Challenges and opportunities in motor neurorehabilitation after stroke

D. Mureşanu (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 assesement of motor imagery ability after stroke
OP48 with and without neglect – a pilot control case series study
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
OP49 hydrocephalus (PTHH) before and after shunting procedure – a proof-of-concept study
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
OP50 in stroke patients
B. Studer, H. Van Dijk, S. Knecht (Meerbusch, Düsseldorf/DE)

15:57 Neuroanatomical and functional changes in response to one month of
OP51 intensive balance training
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:
OP53 lateropulsion is the key
S. Dai, E. Clarac, N. Leroux, A. Odin, B. Moineau, C. Piscicelli,
M. Jaeger, P. Davoine, D. Pérennou (Échirolles/FR)

16:24 Sleep over it – left parietal resting state connectivity predicts
OP54 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
OP55 Y. Höller, A. Tadzic, A. Thomschewski, P. Höller, S. Leis,
E. Trinka (Salzburg/AT)

16:42 The effect of the facilitation physiotherapy on the clinical and brain's
OP56 functions in Multiple Sclerosis
K. Rasova, M. Grunerova-Lippertova, J. Tintera, S. Spanhelova,
T. Prokopiusova, G. Angelova, N. Hruskova, J. Rydlo, I. Stetkarova,
M. Prochazkova (Prague/CZ)

16:51 The effects of a ten-day cognitive training programme combined with
OP57 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

07:30–08:30 Meet-the-Experts Session 6

Room Garden 2/3

What is virtual reality good for
M. Levin (Montréal/CA)

07:30–08:30 Meet-the-Experts Session 7

Room Garden 5 A, B

When to start weaning?
J. Rollnik (Hessisch Oldendorf/DE)

07:30–08:30 Meet-the-Experts Session 8

Room Garden 4 B, C

How to deal with a patient with “neuropsychological problems”
B. Wilson (Cambridge/GB)

07:30–08:30 Meet-the-Experts Session 9

Room Garden 1 A, B

Mental status examination in neurorehabilitation
A. Schnider (Geneva/CH)

07:30–08:30 Meet-the-Experts Session 10

Room Garden 5 C

Low tech neurorehabilitation
K.-M. Stephan (Bad Wimpfen/DE)

09:00–10:30 Invited Symposium 21 | Joint Symposium with the Romanian Society for Neurorehabilitation

Room Garden 2/3

Chair D. Mureşanu (Cluj Napoca/RO)

Advances in neuro fundamentals on stroke recovery
D. Mureşanu (Cluj Napoca/RO)



ROMANIAN SOCIETY
for NEUROREHABILITATION

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 | 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 | 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, compli-
cations, 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:
OP58 a systematic review

M. Wagner (Vienna/AT)

09:15 Acute effect of functional electrical stimulation (FES) and therapeutic
OP59 exercise on skeletal muscle tone in patients with traumatic spinal cord
injury – pilot study

M. Bergmann, A. Zahharova, T. Asser, D. Vahtrik,

H. Gapeyeva (Tartu/EE)

09:30 Estimated balance performance of stroke survivors using measured
OP60 two-directional asymmetry ratio between paretic and non-paretic
ankle stiffness in a novel ankle movement trainer

S. Cho, H. Lee, J. Cho, D. Koo, J.-H. Shin, H. Kim (Seoul/KR)

09:45 Eye-tracking – a new chance to increase communication in physio-
OP61 therapy for people with tetraparesis

L. Kitzmüller (St. Pölten/AT), A. Kiselka (St. Pölten, Vienna/AT)

10:00 Russian validation study of Coma Recovery Scale-Revised
OP65 M. Elisaveta, L. Legostaeva, D. Sergeev, M. Domashenko, A. Zimin,
D. Yusupova, J. Ryabinkina, N. Suponeva, M. Piradov (Moscow/RU)

10:15 Trephined syndrome in patients with large decompressive
OP67 craniectomy and effects of cranioplasty
L. Sveikata, A. Schnider, B. Leemann (Geneva/CH)

**11:00–12:00 Round Table 3 | Future perspectives of neurorehabilitation
(e-learning)**

Room Garden 2/3

Chairs H. Binder (Vienna/AT), K. Diserens (Lausanne/CH)

D. Mureşanu (Cluj Napoca/RO), H. Binder (Vienna/AT),
V. Hömberg (Bad Wimpfen/DE), G. Sandrini (Pavia/IT)

12:00–12:30 Farewell and Closing Remarks

Room Garden 2/3

L. Saltuari (Hochzirl/AT), V. Hömberg (Bad Wimpfen/DE),
K. Diserens (Lausanne/CH)

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. Leonardis, 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
T. S. Ribeiro, M. P. Costa, O. F. C. Brito, A. R. Lindquist (Natal/BR)
- 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. Yadollahi, 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 | 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. Tico-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 conscious-
ness (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. Mureşanu (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
K. Fukata (Hidaka, Arakawa/JP), K. Amimoto (Arakawa/JP), Y. Fujino (Hidaka/JP), M. Inoue (Arakawa, Hidaka/JP), M. Inoue, Y. Takahashi (Hidaka/JP), S. Makita, H. Takahashi (Hidakashi/JP)
- 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. Saleptsis, 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)

- 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. Saengrueangrob,
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 | 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
T. da Cruz Figueiredo, A. M. Ray, E. López-Larraz (Tübingen/DE),
N. Birbaumer (Geneva/CH), A. Ramos-Murguialday (Tübingen/DE)
- 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. Kiliç, 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. Kiliç, 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 | 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?
S. Dai, M. Jaeger, E. Clarac, S. Schtrock, F. Leite (Échirolles/FR),
 B. Gipsy, E. Dupraz, P.-S. Jouk, K. Dieterich (Grenoble/FR),
 D. Pérennou (Échirolles/FR)
- 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)

- P100 Myotonic dystrophy type 1 – motor function and swallowing dysfunction
P. Díaz Borrego, M. D. Romero-Torres, R. Figueroba Murillo,
M. Rodríguez-Piñero Durán (Seville/ES)
- P101 Structural brain abnormalities and type of onset in patients in amyotrophic lateral sclerosis patients
L. Mourao, R. Guimarães (Campinas/BR), K. Luchesi (Florianópolis/BR),
M. Fieri, M. Franca Jr. (Campinas/BR)
- P102 Swallowing disorders and early complications after ischemic stroke: Predisposing factors?
A. Beharry, V. Schweizer, K. Diserens (Lausanne/CH)
- P104 Single-stage hydroxyapatite cranioplasty under image merge guidance for autologous flap resorption in a child – technical note
R. Maduri, E. Viaroli, M. Levivier, R. T. Daniel,
M. Messerer (Lausanne/CH)

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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. Fheodoroff (Hermagor/AT),
E. Albessard (Ettlingen/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. Pheungphrarattanatrai,
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 physio-therapist 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. Hefer (Düsseldorf/DE), K. Fheodoroff (Hermagor/AT), J. Hamacher (Essen/DE), E. Albessard (Ettlingen/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. Schnellinberger, 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. Higashi (Nagasaki/JP)

- P125 Effect of kinesthetic illusion induced by visual stimulation on ankle dorsiflexion dysfunction in a stroke patient – ABAB single-case design
K. Sakai (Arakawa, Shibuya/JP), Y. Ikeda (Arakawa/JP), S. Yamanaka, R. Noguchi, T. Noma, Y. Nakagawa (Shibuya/JP)
- 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. İdman (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
R. Harvey (Chicago, IL/US), C. Liu (Los Angeles, CA/US),
D. Edwards (New York, NY/US), K. Dunning (Cincinnati, OH/US),
F. Fregni (Boston, MA/US), J. Stein (New York, NY/US),
J. Laine (Helsinki/FI)
- P131 Neurorehabilitation of haemorrhagic stroke in patients presenting racemose 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 | 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. Arnsköttler (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. Trinkla, 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 Deken, 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. Wutzi (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. Trinkla (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. Wutzi,
 M. Seidl (Vienna, Salzburg/AT), F. Brigo (Merano, Verona/IT),
 Y. Höller (Salzburg/AT), C. Florea (Vienna, Salzburg/AT),
 E. Trinkla (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. Malesevic (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. Láins (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. Laíns,
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
K. Schwenker, A. Eckert, M. Krombholz, A. Kunz, M. Seidl,
W. Piotrowski, R. Nardone, E. Trinka, S. M. Golaszewski (Salzburg/AT)

19:00–20:30 ePoster Session 12 | 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 neuro-rehabilitation
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. Láins (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/DE; 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 botulinum 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
T. Numao, K. Amimoto, T. Shimada (Tokyo/JP), K. Ichikawa (Niiza/JP)
- 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. Lugin, 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. Kuznietsov, N. Skachkova, S. Kuznietsova (Kiev/UA)

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
L. Becker, A. Flechsenhaar, L. Freund, P. Schubert, C. Haas (Idstein/DE), M. Liebherr (Duisburg/DE), S. Kersten (Idstein/DE)
- P193 Influence of visual EMG biofeedback on gait parameters in people with Multiple Sclerosis
L. Bösing, P. Mielisch, L. Schmitz, S. Hölschen, C. Haas (Idstein/DE), M. Liebherr (Duisburg/DE), S. Kersten, P. Schubert (Idstein/DE)
- P194 Neuropsychology in Argentina – intervention strategies with limited resources
A. Astolfo (Rosario/AR)
- P195 Progressive full recovery from complete quadriplegia following a C3-C4 spinal cord injury – a case report
F. Salton, M. Confalonieri (Trieste/IT), E. Fava, L. Saltuari (Hochzirl/AT)
- P198 Exploring prevention and treatment strategy for critical illness associated neuromuscular weakness
D. Pandey, H. Singh (New Delhi/IN), S. Agrawal (Ghaziabad/IN)



- P199 The upper extremity after stroke during early mobilisation:
a comparison of guidelines
K. Rösner (Hamburg/DE)
- 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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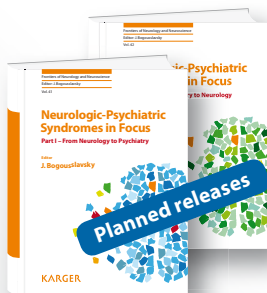
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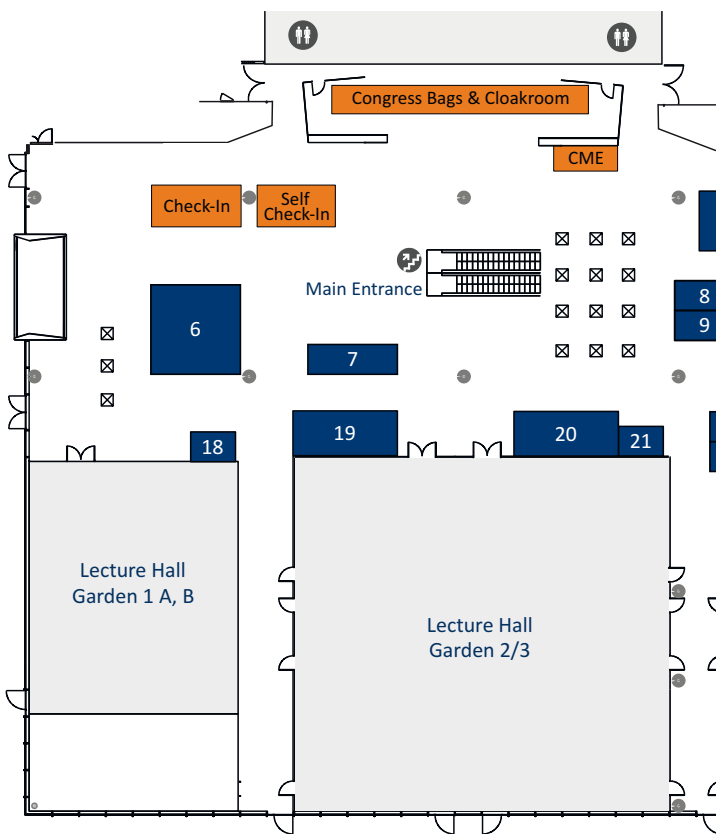
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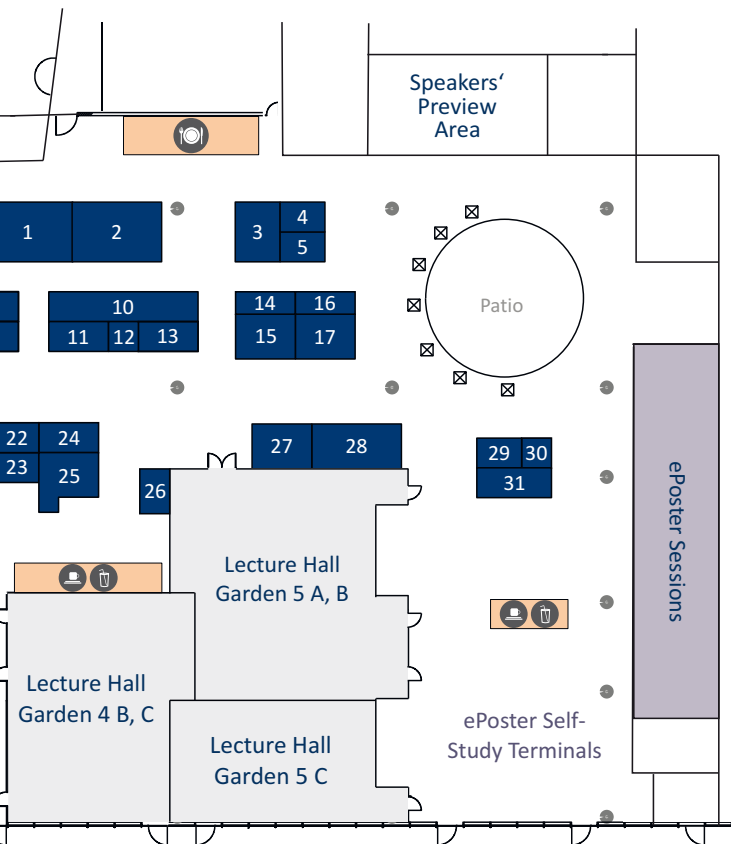
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B. Lepow, L. Latzko
- Kognitive Interventionen zur Therapie kognitiver Störungen bei Morbus Parkinson: ein praxisorientierter Überblick
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Language

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



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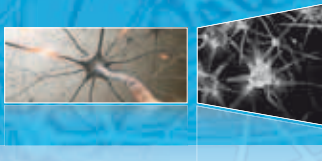


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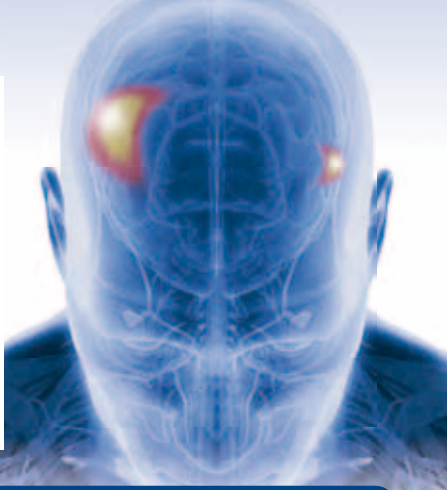
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