



ECNR 2023
European Congress
of NeuroRehabilitation

Lyon

30 August–2 September 2023
France | hybrid

Programme

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Vancouver

13th WORLD CONGRESS FOR NEUROREHABILITATION

22–25 May 2024 | CANADA | hybrid

Transforming NeuroRehabilitation
Inspiration | Collaboration | Expertise

KEY TOPICS

- Clinical trial networks in neuro-rehabilitation
- Emerging neuromodulation methods
- Interdisciplinary innovations in community reintegration
- Long COVID treatment in rehabilitation
- Mentoring for successful careers in rehabilitation research
- Microbiome and neurological disease
- New cell-based therapies
- Novel trial methods
- Patient oriented research
- Rehabilitation intensity and outcomes
- Telehealth in neurorehabilitation
- Use of data science and AI in rehabilitation

ABSTRACT SUBMISSION
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abstract deadline



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Venue

Cité Internationale | Centre de Congrès de Lyon
50, quai Charles de Gaulle | 69463 Lyon, France

Congress website

www.efnr-congress.org

Digital congress platform

www.ecnr-digital.org

President EFNR

Dafin Mureşanu | "Iuliu Hatieganu" University of Medicine and Pharmacy Cluj-Napoca

Local congress president

Isabelle Bonan | French National Institute for Health and Medical Research of Rennes

Collaborating societies

EFNR – The European Federation of
NeuroRehabilitation Societies



SOFMER – Société Française de Médecine
Physique et de Réadaptation



EFNR Executive board | Core organising committee

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Volker Hömberg (Germany)

Karin Diserens (Switzerland)

Dana Boering (Germany)

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CME credits

The 7th European Congress of NeuroRehabilitation (ECNR 2023), Lyon, France, 30/08/2023–02/09/2023 has been accredited by the European Accreditation Council for Continuing Medical Education (EACCME®) with 21 European CME credits (ECMEC®s). Each medical specialist should claim only those hours of credit that he/she actually spent in the educational activity.

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ECNR session planner

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

ePoster

ePoster sessions are scheduled for Thursday 12:45 CEST and 18:00 CEST. All ePosters are available during the whole duration of the congress on the ePoster terminals as well as online on our digital congress platform.

Internet

A wireless network will be available throughout the whole building and will be free of charge.

SSID ECNR2023

Password ECNR2023

Salle Rhône 3A	Salle Rhône 3B	Salle Rhône 2	Salle Rhône 1	Salle Saint Clair 2
12:00–13:30 WS1: Neuropsychological rehabilitation tools p. 12	12:00–13:30 WS2: Guidelines for motor rehabilitation post stroke p. 12	12:00–13:30 WS3: VR – practical application update p. 12	12:00–13:30 WS4: Phenomenology of DOC p. 12	12:00–13:30 WS5: Autonomic testing hands-on p. 12
14:00–15:30 WS6: Music therapy update p. 13	14:00–15:30 WS7: Spasticity – There is more than botox alone p. 13	14:00–15:30 WS8: FES in rehabilitation practical aspects p. 13		14:00–15:30 WS10: Defining profiles for specific treatments p. 14
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Legend			
Oral presentations (OP)	Industry supported symposium	Plenary session (PS)	Workshop (WS)
Meet the professor	Poster session	Social programme	Symposium (S)



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Brain health is our greatest wealth

09:00–18:00 **Dysphagia course and workshop**

Chair B. Degen (Vienna/AT), M. Trapl-Grundschober (Tulln/AT)

09:00 Introduction – aim and structure of the course and the importance of Dysphagia

10:00 Normal swallowing

11:00 Break

11:15 Disordered swallowing

12:15 Break

13:15 Identifikation of swallowing disorders – screening

14:15 Identifikation of swallowing disorders – instrumental assessment (FEES | VFSS)

15:15 Break

15:30 From diagnosis to treatment

16:30 Hands-on implementation plan

17:30 Conclusions

12:00–13:30 **Workshop 1 | Neuropsychological rehabilitation tools**

Room Salle Rhône 3A

12:00 Outcome parameter, the CANTAB test
N. Von Steinbüchel (Göttingen/DE)

12:45 A comprehensive overview of digital cognitive training, goal
management and cognition assistive tools
J. Evans (Glasgow/GB)

12:00–13:30 **Workshop 2 | Guidelines for motor rehabilitation post stroke**

Room Salle Rhône 3B

12:00 Guidelines for motor rehabilitation post stroke
T. Platz (Greifswald/DE)

12:00–13:30 **Workshop 3 | VR – practical application update**

Room Salle Rhône 2

12:00 VR in neglect
P. Cipresso (Turin/IT)

12:20 Immersive multimodal virtual reality-based training for attentional
and executive function deficits
S. Crottaz-Herbette (Lausanne/CH)

13:00 A novel approach to study sound localisation: SPHERE
V. Gaveau (Lyon/FR)

12:00–13:30 **Workshop 4 | Phenomenology of DOC**

Room Salle Rhône 1

12:00 Phenomenology of DOC
K. Diserens (Lausanne/CH)

12:00–13:30 **Workshop 5 | Autonomic testing hands-on**

Room Salle Saint Clair 2

12:00 Autonomic testing hands-on
E. M. Hagen (Viborg/DK)

14:00–15:30 **Workshop 6 | Music therapy update**

Room Salle Rhône 3A

14:00 New advances and perspectives in The Clinical Neuroscience of Music II
M. Thaut (Toronto/CA)

14:00–15:30 **Workshop 7 | Spasticity – there is more than botox alone**

Room Salle Rhône 3B

14:00 Spastic movement disorder and robotics
J. Wissel (Berlin/DE)

14:20 Not botox alone GSC
J.-M. Gracies (Paris/FR)

14:40 Control to the patient – self-monitoring and exercises by the use of the spasticity app
F. Müller (Bad Aibling/DE)

15:00 Hands-on training
M. Steinböck (Bad Aibling/DE)

14:00–15:30 **Workshop 8 | FES in rehabilitation practical aspects**

Room Salle Rhône 2

14:00 Role of electrical parameters
W. Mayr (Vienna/AT)

14:30 Functional electrical stimulation in patients with disorders of the upper motor neurons
T. Schick (Innsbruck/AT)

15:00 Electrical stimulation in lower motoneuron lesion
I. Bersch-Porada (Nottwil/CH)

14:00–15:30 **Workshop 10 | Defining profiles for specific treatments**

Room Salle Saint Clair 2

14:00 Precision rehab for neglect
S. Crottaz-Herbette (Lausanne/CH)

14:45 Care of post-concussive symptoms after mTBI
M. Cogné (Rennes/FR)

16:00–17:30 **Workshop 11 | BCI hands-on**

Room Salle Rhône 3A

16:00 BCI hands-on
S. Soekadar (Berlin/DE)

16:00–17:30 **Workshop 12 | Artificial Intelligence using humanoid robot technology**

Room Salle Rhône 3B

16:00 We humans are social – Can a socially interactive humanoid robot be a solution for more specific restorative training therapy?
T. Platz (Greifswald/DE)

16:45 Which characteristics of digital health applications including humanoid robots are preferred by the general population and stroke survivors
A.-K. Fischer (Neubrandenburg/DE)

16:00–17:30 **Workshop 13 | AI value in predicting the prognosis of brain injury**

Room Salle Rhône 2

Chair M. Zampolini (Foligno/IT), C. Pistarini (Padova/IT)

16:00 Machine learning approach for prognostication of patients with prolonged disorders of consciousness
A. Estraneo (San Sebastiano al Vesuvio/IT)

16:30 Overview on Artificial Intelligence in neurorehabilitation
E. Molteni (London/GB)

17:00 Virtual reality on a treadmill in an incremental customised protocol for patient performance with Parkinson's disease – VIRTREAD-PD: a preliminary report
F. Cecchi (Florence/IT)

16:00–17:30 **Workshop 14 | Self training for spasticity patients**

Room Salle Rhône 1

16:00 Self training for spasticity patients
J.-M. Gracies (Paris/FR)

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erscheint vierteljährlich

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08:00–08:45 Joint EFNR & WHO brain health session

Room Auditorium Lumière

Chairs M. Leonardi (Milan/IT), D. Mureşanu (Cluj-Napoca/RO)

08:00 Implications of WHO Policies for neurorehabilitation at European and global levels

M. Leonardi (Milan/IT)

08:20 EFNR perspective

D. Mureşanu (Cluj-Napoca/RO)

08:45 Discussion

08:00–08:45 Meet the professor 1

Room Salle Rhône 3

08:00 Pharmacology & rehabilitation

V. Hömberg (Korschenbroich/DE)

08:00–08:45 Meet the professor 2

Room Salle Rhône 2

08:00–08:45 Meet the professor 3

Room Salle Rhône 1

09:00–10:45 Congress opening and plenary lecture 1 & 2

Room Auditorium Lumière

Chair D. Mureşanu (Cluj-Napoca/RO)

09:00 Congress opening

V. Hömberg (Korschenbroich/DE), D. Mureşanu (Cluj-Napoca/RO), I. Bonan H. Binder (Vienna/AT)

09:15 Stem cell and biomaterials transplantation in stroke and TBI

I. Loubinoux (Toulouse/FR)

10:00 The complex composition of post-stroke arm paresis and how we might reverse it

J. Krakauer (Baltimore, MD/US)

11:00–12:30 Symposium 1 | Neurorecovery

Room Auditorium Lumière

Chair D. Mureşanu (Cluj-Napoca/RO)

11:00 Screening procedures for dysphagia in acute stroke
M. Trapl-Grundschober (Tulln/AT)

11:20 Track to cure, basics and outcomes of the COLOSSEO post-stroke spasticity study
M. Marano (Rome/IT)

11:40 Combining speech therapy and pharmacological intervention to enhance neurorecovery in post stroke aphasia – result from the ESCAS trial
D. Mureşanu (Cluj-Napoca/RO)

12:00 Paresis and motor-control
A. Winkler (Vienna/AT)

11:00–12:30 Symposium 2 | Assessments DOC

Room Salle Rhône 3

Chair K. Diserens (Lausanne/CH)

11:00 What names for covert awareness?
K. Diserens (Lausanne/CH)

11:30 Simplified assessment of consciousness disorders SECONDS
C. Aubinet (Liège/BE)

12:00 The Comorbidities Coma Scale (CoCoS)
C. Pistarini (Padova/IT)

11:00–12:30 Symposium 3 | NIBS

Room Salle Rhône 2

Chair N.-J. Paik (Seoul/KR)

11:00 tDCS in dysphagia
S. Hamdy (Salford/GB)

11:30 tDCS in stroke
N.-J. Paik (Seoul/KR)

- 12:00 NIBS in chronic pain
W. Paulus (Göttingen/DE)
- 11:00–12:30 Symposium 4 | Multiple sclerosis**
Room Salle Rhône 1
Chair C. Dettmers (Konstanz/DE)
- 11:00 Non-invasive brain stimulation and neurorehabilitation in multiple sclerosis
R. Dubbioso (Naples/IT)
- 11:30 Cognitive rehabilitation in multiple sclerosis – Where to go next?
H. Hulst (Leiden/NL)
- 12:00 Fatigue and fatigability in multiple sclerosis
C. Dettmers (Konstanz/DE)
- 12:45–14:15 IISART symposium**
Room Auditorium Lumière
- 12:45 Clinical Application of rehabilitation technology: the importance of pairing artificial with human intelligence
M. Spiess (Winterthur/CH)
- 13:15 Elevating Rehabilitation: Integrating Industry, Academia, and Clinicians for RehabTech Excellence
S. Lim (Shah Alam/ MY)
- 13:45 Achieving Patient Goals through Technology Application: A Case Study Review and Exploration of Data-Based Outcomes
A. Watt (Bristol/ GB)
- 12:45–14:15 ePoster session 1 – ePoster presentations 1–4**
(please refer to page 44)
- 12:40–14:10 Industry supported workshop**
Room Salle Saint Clair 3
(please refer to page 67)

14:30–16:00 **Symposium 5 | Motivation**

Room Auditorium Lumière

Chair D. Boering (Essen/DE)

14:30 The concept of motivation – looking for a transdisciplinary approach

D. Boering (Essen/DE)

15:00 On what motivates us – a detailed review of IM versus EM

S. Zeiler (Baltimore, MD/US)

15:30 Reward improving impairment?

A. Luft (Zurich/CH)

14:30–16:00 **Symposium 6 | TBI**

Room Salle Rhône 3

Chair P. Vos (Doetinchem/NL)

14:30 Update on TBI biomarkers

P. Vos (Doetinchem/NL)

15:00 Chronic and evolving TBI consequences

K. Rauen (Zurich/CH)

15:30 Inflammation as a multisystem mechanism post stroke and TBI

M. Chopp (Detroit, MI/US)

14:30–16:00 **Symposium 7 | Metaverse**

Room Salle Rhône 2

Chair V. Hömberg (Korschenbroich/DE)

14:30 AR & Metaverse: new chances for teaching rehabilitation skills

V. Hömberg (Korschenbroich/DE)

15:00 The arrival of metaverse in neurorehab – Fact, fake or vision?

A. Cerasa (Messina/IT)

15:30 Emulation of a rehab hub in the metaverse

M. Kaldasch (Steyl/NL)

14:30–16:00 Oral presentations 1

Room

Salle Rhône 1

Chair

H. Binder (Vienna/AT)

14:30

Balance rehabilitation through robot-assisted gait training in post stroke patients – a systematic review and meta-analysis

O001

A. Loro (Novara/IT)

14:39

Benefits of robot-assisted upper limb rehabilitation according to severity in the stroke patients – a multicenter randomized controlled trial

O002

S. K. Bok (Daejeon/KR)

14:48

Activity patterns of patients six months after stroke – a subanalysis from the Phys-Stroke trial

O003

T. Rackoll (Berlin/DE)

14:57

Corticospinal tract asymmetry leads to poor motor recovery immediately after ischemic stroke

O004

M. Khan (Rochester, MN/US)

15:06

Bilateral proximal arm transplantation – functional results at two years

O005

L. Huchon (Lyon/FR)

15:15

Deep cerebellar electrical stimulation to enhance chronic, post stroke motor rehabilitation – phase I, 10-month follow-up data

O006

K. Baker (Cleveland, OH/US)

15:24

Enhancement of Stroke Rehabilitation with Levodopa (ESTREL-study): progress of the ongoing multicenter placebo-controlled randomized trial

O007

S. Engelter (Basel/CH)

15:33

The therapeutic effect of tACS in language impairment in people living with chronic post-stroke aphasia

O008

G. Nasios (Ioannina/GR)

15:42

T.E.D.R.A.S.-Trial (Transesophageal Echocardiography – Dysphagia Risk in the Acute phase after Stroke) – follow up

O009

S. Hamzic (Giessen/DE)

15:51 Comprehensive assessment of motor imagery ability after stroke:
0010 a control-case series study
 S. Mateo (Lyon/FR)

16:30–18:00 Symposium 8 | Motor recovery

Room Auditorium Lumière

Chair W. Feng (Durham, NC/US)

16:30 Brain networks and their relevance for stroke rehabilitation
 W. Feng (Durham, NC/US)

17:00 Use of biomarkers to guide clinical trials of stroke recovery
 S. Cramer (Los Angeles, CA/US)

17:30 Arguments for the biological and predictive relevance of the
 proportional recovery rule
 N. Ward (London/GB)

16:30–18:00 Symposium 9 | Data driven approaches to improve motor rehabilitation

Room Salle Rhône 3

Chair V. Hömberg (Korschenbroich/DE)

16:30 Big data and stroke neurorehab outcome
 U. Ziemann (Tübingen/DE)

17:00 Measuring brain response to rehabilitation
 P. Giroux (Saint-Étienne/ FR)

17:30 Big Data after stroke – Why and what is needed?
 G. Kwakkel (Amsterdam/NL)

- 16:30–18:00** **Symposium 10 | Oncorehabilitation**
Room Salle Rhône 2
Chair S. Jacquin-Courtois (Lyon/FR)
- 16:30 Neurological complications of conventional and novel anticancer treatments
P. Alberti (Milan/IT)
- 17:00 Cancer-related cognitive impairment – state of the art
F. Joly (Caen/FR)
- 17:30 Cancer-related cognitive impairment and rehabilitation programme:
Who, when and what?
S. Jacquin-Courtois (Lyon/FR)
- 16:30–18:00** **Oral presentations 2**
Room Salle Rhône 1
Chair D. Boering (Essen/DE)
- 16:30
O011 Results of an executive function-training programme coupled with
transcranial stimulation in chronic brain-injured patient
X. de Boissezon (Toulouse/FR)
- 16:39
O012 Cognitive, psychological and occupational aspects after aneurysmal
subarachnoid hemorrhage in a French university hospital:
a retrospective cohort study
C. Devignes (Lyon/FR)
- 16:48
O013 Tablet-based interventions for cognitive and language impairments
in neurorehabilitation – evidence for universal benefits
T. Bloder (Vienna/AT)
- 16:57
O014 Individual and coordinated finger movements decoding from high
density EEG and its implication in hand exoskeleton control
Q. Sun (Leuven/BE)
- 17:06
O015 How can innovative technologies optimize motor recovery in
neurorehabilitation? A practical model for the upper limb post
stroke rehabilitation
H. Bessaguet (Saint-Etienne/FR)

- 17:15
0016 Health care support for a fragile population with targeted remote telerehabilitation – an ongoing study
J. Petioky (Kladruby u Vlasimi/CZ)
- 17:24
0017 Grasping rehabilitation using motor imagery with and with no neurofeedback after tetraplegia – a study protocol and preliminary neurophysiological analysis
G. Charbonnier (Lyon/FR)
- 17:33
0018 A pilot study to explore the feasibility of a localised virtual reality cognitive rehabilitation programme for stroke survivors in Singapore
S. Wei (Singapore/SG)
- 17:42
0019 The experience of tele neurorehabilitation in COVID-19 pandemic, inputs from physiatrists of an Indian neurorehabilitation desk
M. Sengupta (Kolkata/IN)
- 18:00–19:30** **ePoster session 2 – ePoster presentations 5–8**
(please refer to page 55)
- 19:30–22:00** **Get together**
Room Exhibition area

Zum Nachlesen:

Die Fortbildungsreihe der Deutschen Gesellschaft für Neurorehabilitation in 10 Modulen und 27 Kapiteln

T. Mokrusch, A. Gorsler, C. Dohle,
J. Liepert, J. Rollnik (Hg.)



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08:00–08:45 Meet the professor 4

Room Salle Rhône 3

08:00 Understanding the time course of behavioral restitution and compensation after stroke
G. Kwakkel (Amsterdam/NL)

08:00–08:45 Meet the professor 5

Room Salle Rhône 2

08:00–08:45 Meet the professor 6

Room Salle Rhône 1

09:00–10:30 Plenary lecture 3 & 4

Room Auditorium Lumière

09:00 Brain reserve – towards broadened understanding and concept operationalisation
D. Mureşanu (Cluj-Napoca/RO)

09:45 World wide perspective on neurorehabilitation until 2030
V. Hömberg (Korschenbroich/DE)

11:00–12:30	Round table – Towards a resilient future: a roundtable on health policy and economics in European neurorehabilitation
Room	Auditorium Lumière
Chair	S. Strilciuc (Cluj-Napoca/RO)
11:00	Health outcomes and policy research of neurorehabilitation S. Strilciuc (Cluj-Napoca/RO)
11:30	Discussion S. Strilciuc (Cluj-Napoca/RO), C. Vladescu (Cluj-Napoca/RO) V. Hömberg (Korschenbroich/DE), D. Mureşanu (Cluj-Napoca/RO) N.-J. Paik (Seoul/KR), W. Feng (Durham, NC/US) M. Owolabi (Ibadan/NG), N. Surya (Mumbai/IN), A. Sokolov (Bern/CH)

11:00–12:30	Symposium 12 Body spatial representation and sensorial manipulation
Room	Salle Rhône 3
Chair	I. Bonan (Rennes/FR)

11:00	Brain imaging correlates of embodiment F. Binkofski (Aachen/DE)
11:30	Recovery of spatial hemineglect through a series of self-portraits in a painter G. Rode (Lyon/FR)
12:00	Sensorial manipulation for improving postural imbalance due to spatial misperception I. Bonan (Rennes/FR)

11:00–12:30	Symposium 13 Circadian rhythms – sleep and brain injury
Room	Salle Rhône 2
Chair	C. Gronfier (Lyon/FR)

11:00	Why should we care about circadian rhythms after brain injury? C. Gronfier (Lyon/FR)
11:30	Is circadian rhythmicity a prerequisite to coma recovery F. Gobert (Lyon/FR)

- 12:00 Sleep and stroke – a bidirectional relationship
V. Brunetti (Rome/IT)
- 11:00–12:30 Symposium 14 | Regionally comprehensive continuum of care for people with complex neuro-disabilities**
- Room Salle Rhône 1
Chair A. Sokolov (Bern/CH)
- 11:00 People with neuro-disabilities in need for intensive care nursing post discharge – an evidence-based concept for a clinical pathway and qualitative research to support it
T. Platz (Greifswald/DE)
- 11:30 Real life experiences with continuum of care for people in need for intensive care nursing post discharge
D. Liedert (Burgau/DE)
- 12:00 SwissNeuroRehab – a small-world continuum of care model of neurorehabilitation
A. Sokolov (Bern/CH)
- 13:00–14:00 Industry supported symposium**
- Room Auditorium Lumière
(please refer to page 67)
- 14:30–16:00 Symposium 15 | Spinal cord injury and innovative challenges**
- Room Auditorium Lumière
Chair V. Bergeron (Lyon/FR)
- 14:30 New therapeutic challenges to improve function
B. Perrouin-Verbe (Nantes/FR)
- 15:00 Functional electric stimulation and grasp improvement
V. Bergeron (Lyon/FR)
- 15:30 Implanted devices to improve walking abilities
L. Asboth (Lausanne/CH)
- 14:30–16:00 Symposium 16 | Apraxia**
- Room Salle Rhône 3
Chair A. Bartolo (Lille/FR)

- 14:30 The role of movement direction in object-related actions: implications for apraxia
A. Bartolo (Lille/FR)
- 15:00 Concepts and cognition – implications for the clinical management of apraxia
P. Weiss-Blankenhorn (Jülich/DE)
- 15:30 Neuromodulation of actions – implications for the rehabilitation of apraxia
T. Vanbellinghen (Lucerne/CH)
- 14:30–16:00** **Symposium 17 | Psychiatric aspects in neurorehabilitation**
- Room Salle Rhône 2
- Chair K. Rauen (Bonn/DE)
- 14:30 Can we understand delusions? A neuroscientific perspective
P. Sterzer (Berlin/DE)
- 15:00 Functional neurological disorders – an update
S. Popkirov (Bochum/DE)
- 15:30 Neurobiological basis for psychotherapy?
K. Rauen (Bonn/DE)

14:30–16:00 Oral presentations 3

Room

Salle Rhône 1

Chair

K. Müller (Meerbusch/DE)

14:30
O020

The effectiveness of home-based exergame training on cognition and balance in older adults – a comparative quasi-randomised study of two exergame interventions
A. Begde (Loughborough/GB)

14:39
O021

Robotic training after upper limb paresis in stroke – motor severity changes and impact of rehabilitation modalities after a 5-weeks training
O. Pila (Boissise-le-Roi/FR)

14:48
O022

A sensitive immersive virtual reality method to assess far space in unilateral spatial neglect post stroke
D. Perez-Marcos (Lausanne/CH)

14:57
O023

Functional reorganisation of attentional networks in childhood after virtual reality
N. Farron (Lausanne/CH)

15:06
O024

Power of humanoids – a new level in pediatric neurorehabilitation
A. Kolk (Tartu/EE)

15:15
O025

Remote cognitive testing in paediatric traumatic brain injury: evaluation of a digital cognitive tool in relation to gold-standard neuropsychology
C. Demarchi (London/GB)

15:24
O026

Brain reorganisation in neglect patients after virtual reality-based rehabilitation
N. Farron (Lausanne/CH)

15:33
O027

The application of explainable artificial intelligence (XAI) in studying cognition – a scoping review
S. Mahmood (Singapore/SG)

15:42
O028

Biofeedback gait training in patients in the early recovery period of cerebral stroke by target parameters – stance and single support phase
D. Skvortsov (Moscow/RU)

- 16:30–18:00** **Symposium 18 | Neural basis of cognitive sequelae in COVID-19**
Room Auditorium Lumière
Chair S. Clarke (Lausanne/CH)
- 16:30 The use of reversing primis exposure to remediate optic ataxia in a single case of Balint-Holmes syndrome due to stroke following COVID-19 infection
F. Panico (Caserta/IT)
- 17:00 Re-organisation of brain networks in the aftermath of severe COVID-19
S. Clarke (Lausanne/CH)
- 17:30 Psycho cancel culture in the Long COVID-19 aetiology
F. Erbguth (Berlin/DE)
- 16:30–18:00** **Symposium 19 | Joint symposium with AMN**
Room Salle Rhône 3
Chairs B. Popescu (Bucharest/RO), D. Mureşanu (Cluj-Napoca/RO)
- 16:30 TBI Road from randomised controlled trials to non-interventional trials
J. Vester (Berlin/DE)
- 16:50 CAPTAIN's Tale
C. Matula (Vienna/AT)
- 17:10 Recent developments for better perspectives in traumatic brain injury treatment
B. Popescu (Bucharest/RO)
- 17:30 Endothelial cell derived exosomes, nanoparticles with massive therapeutic potential
M. Chopp (Detroit, MI/US)

16:30–18:00 Symposium 20 | Pediatric neurorehabilitation

Room

Salle Rhône 2

Chair

C. Vuillerot (Lyon/FR)

16:30 Rehabilitation of functional neurological disorder in children and adolescents
K. Müller (Meerbusch/DE)

17:00 Rehabilitation of neuromuscular diseases in children
C. Vuillerot (Lyon/FR)

17:30 VR applications in pediatric neurorehabilitation
L. Staals (Rotterdam/NL)

16:30–18:00 Oral presentations 4

Room

Salle Rhône 1

Chair

K. Rauen (Bonn/DE)

16:30 Functional recovery of subjects with severe acquired brain injury
0029 after Vitamin D supplementation – pilot controlled randomised study
A. M. Centra (San Giovanni Rotondo/IT)

16:39 The Back-To-Drive protocol – the development of an evidence-based
0030 scenarios database for driving rehabilitation of elders and ABI
patients
C. Díaz Piedra (Granada/ES)

16:48 Implicit and explicit MI ability after spinal cord injury – a control-case
0031 series study
S. Mateo (Lyon/FR)

16:57 Metacognitive impairment and its association with self-awareness in
0032 patients with traumatic brain injury
K. Yoshida (Sapporo/JP)

17:06 Psychosocial predictors of compliance with neuro-uological follow
0033 up in adult spina bifida and spinal cord injury patients – a prospective,
comparative, multicenter parallel group study
J. Kerdraon (Ploemeur/FR)

- 17:15
O034 Clinical and electroencephalographic best predictors of recovery of consciousness in the subacute phase – preliminary data of a multicentric study
B. Hakiki (Florence/IT)
- 17:24
O035 Learning from the experts – patient-to-patient observation protocol enhances exoskeleton-assisted gait training
E. Leemhuis (Rome/IT)
- 17:33
O036 Neuroskin – an AI-powered neuroprosthesis for gait rehabilitation after stroke
A. Metani (Lyon/FR)
- 17:42
O037 Early intervention on postpartum femoral neuropathy: a multidisciplinary case report and literature review
E. Moita Gonçalves (Vila Nova de Gaia/PT)
- 17:51
O038 Development of an acute management of disorders of consciousness pathway for therapies
D. Brown, M. Balmir (London/GB)

18:15–19:45 Symposium 21 | Joint symposium with SSNN

Room Auditorium Lumière

Chairs D. Mureşanu (Cluj-Napoca/RO), V. Hömberg/Korschenbroich/DE)

18:15 An evolutionary re-interpretation of the brain's circulation – clinical implications

V. Hachinski (London, Ontario/CA)

18:45 Targeting microcirculation to enhance post-stroke neurorecovery

D. Mureşanu (Cluj-Napoca/RO)

19:15 Neuroprotective effects of cerebrolysin in neuropathic pain exacerbated by metal nanoparticles exposure

S. Filipovic (Belgrade/RS)

18:15–19:45 Symposium 22 | Round table – community based rehabilitation

Room Salle Rhône 3

Chair T. Platz (Greifswald/DE)

18:15 Round table discussion

T. Platz (Greifswald/DE), Y. Angerova (Prague/CZ)

M. Sgantzos (Volos/GR), V. Golyk (Kyiv/UA), G. Bricchetto (Rome/IT)

M. Owolabi (Ibadan/NG), N. Surya (Mumbai/IN)

18:15–19:45 Symposium 23 | Manuscript publication

Room Salle Rhône 2

Chair W. Feng (Durham, NC/US)

18:15 Things to do and things not-to-do when conducting clinical research and publishing study results in neurorehabilitation – perspectives from an investigator

W. Feng (Durham, NC/US)


18:40 Publishing high-quality clinical trial results – practical considerations and tips from an editor

E. Becker-Barroso (London/GB)

19:05 Data integrity in clinical trials – from design, operation, to analysis

W. Zhao (Charleston, SC/US)

- 19:30 How to publish in NNR? – an editors point of view
G. Kwakkel (Amsterdam/NL)
- 18:15–19:45 Oral presentations 5**
Room Salle Rhône 1
Chair B. Popescu (Bucharest/RO)
- 18:15 Does the tibial nerve block improve knee recurvatum in spastic
0039 hemiplegic adults? A kinematic study
B. Eklü (Lyon/FR)
- 18:24 rTMS using an accelerated stimulation programme over the cerebellum
0040 improves motor function in Parkinson's disease
O. Kaut (Bad Wimpfen/DE)



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- 18:33
0041 Improving Mobility Via Exoskeletons (IMOVE) – implementing wearable robotic exoskeleton use across the continuum of rehabilitation care, from hospital to community
E. Chew (Singapore/SG)
- 18:42
0042 Comparison of evoked sensations in patients with spinal cord injury undergoing two types of robotic gait rehabilitation (Lokomat vs Ekso GT) – the patient’s point of view for helping clinical choice
M. Olivieri (Lucca/IT)
- 18:51
0043 Physical activity based on daily step-count in inpatient setting in stroke and traumatic brain injury patients in subacute stage: a cross-sectional observational study
B. Mischler (Basel/CH)
- 19:00
0044 Gaze-contingent modification can help to reduce ipsilesional attention bias
A. Sprenger (Luebeck/DE)
- 19:09
0045 Efficacy of a multi-disciplinary and patient partner-faceted rehabilitation programme on genetic and degenerative ataxia
L. Pignon (Lyon/FR)
- 19:18
0046 Pilot study to observe the change in independence in everyday life through intensified wheelchair mobility training in wheelchair dependent children
L. van der Stam (Berlin/DE)
- 19:27
0047 Efficacy of functional electrical stimulation after critical COVID-19: preliminary results
S. Mateo (Lyon/FR)
- 19:36
0048 Longitudinal analysis of motor function recovery using gait kinematic data in rehabilitation of post-stroke hemiplegic patients
M.-T. Choi (Jangan-Gu, Suwon-Si/KR)

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An Interdisciplinary Journal

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09:00–10:30 Plenary lecture 5 & 6

Room Auditorium Lumière

Chair V. Hömberg (Korschenbroich/DE)

09:00 Approaches to community based rehabilitation

M. Owolabi (Ibadan/NG)

09:45 Precision rehabilitation – special aspects concerning neglect

S. Clarke (Lausanne/CH)

11:00–12:30 Symposium 24 | Joint Middle East EFNR

Room Auditorium Lumière

Chair S. Wasti (Abu Dhabi/AE)

11:00 Development of virtual reality techniques for neurorehabilitation:

clinical perspective

S. Wasti (Abu Dhabi/AE)

11:30 Development of virtual reality techniques for neurorehabilitation:

engineering perspective

M. Eid (Abu Dhabi/AE)

12:00 The experience of developing a VR-based Nine-Hole Peg test

W. Park (Abu Dhabi/AE)

11:00–12:30 Symposium 25 | Dementia rehabilitation

Room Salle Rhône 3

Chair A. Sokolov (Bern/CH)

11:00 The effects of physical exercise on frailty, balance, fall risk, cognitive

function and quality of life in people with dementia

F. Can (Ankara/TR)

11:30 Exergames as an interventional approach to address cognitive

decline

E. De Bruin (Zurich/CH)

12:00 Closed-loop adaptive video games for cognitive evaluation and

neurorehabilitation in dementia

A. Sokolov (Bern/CH)

11:00–12:30 Symposium 26 | WFNR – Cochrane Rehabilitation symposium

Room

Salle Rhône 2

Chair

T. Platz (Greifswald/DE), C. Cordani (Milan/IT)

11:00

Screening for dysphagia after stroke

S. Hamzic (Giessen/DE)

11:30

Action observation in arm rehabilitation post stroke

C. Cordani (Milan/IT)

12:00

Occupational therapy for cognitive impairment after stroke

T. Platz (Greifswald/DE)

11:00–12:30 Oral presentations 6

Room

Salle Rhône 1

Chair

G. Rode (Lyon/FR)

11:00

Implementation of SMN restoring therapies in symptomatic patients with spinal muscular atrophy – a description of new phenotypes in children and adults

O049

S. Ribault (Lyon/FR)

11:09

Child-Robot Interaction (CRI) patterns – diverse practical approach

O050

M. Saard (Tartu/EE)

11:18

Longitudinal changes of white matter engagement in resting-state functional MRI in healthy older adults

O051

H. Zhang (Hong Kong/HK)

11:27

Experiences made during the RCT “OptiNIV” and the potential to improve healthcare for those in need for long-term intensive care nursing at home

O052

D. Liedert, T. Olander (Burgau/DE)

11:36

Quality of life and participation of adults with spinal muscular atrophy – QOLSMA

O053

S. Ribault (Lyon/FR)

11:45

Grip strenght and carpal tunnel – What interest in management?

O054

N. S. Diagne (Dakar/SN)

- 11:54
O055 Equine-assisted Therapy (EAT) in Parkinson's disease – a pilot study
S. Georg (Wachtendonk/DE)
- 12:03
O056 Urinary tract infections in patients with acquired brain injury, an
experience from a long-term acute-care neurorehabilitation center
in Spain
J. Basualdo (Las Palmas de Gran Canaria/ES)
- 12:12
O057 An Innovative patient-centered physical and social programme within
the care pathway to promote function and participation after stroke
J. Di Marco (Bron/FR)
- 12:21
O058 Patient satisfaction and long-term outcomes after bionic
reconstruction of the upper extremity
A. Bösendorfer (Vienna/AT)
- 13:30–15:00** **Symposium 27 | State of the art in robotic gait training**
Room Auditorium Lumière
Chair F. Müller (Bad Aibling/DE)
- 13:30 The development of therapeutic robotics – from the Lokomat to self
balancing mobile devices
F. Müller (Bad Aibling/DE)
- 13:52 New insights into the use of robotic gait training
F. Molteni (Como/IT)
- 14:14 Robotics and spasticity
J. Wissel (Berlin/DE)
- 14:36 From robotics to self-training
J.-M. Gracies (Paris/FR)

13:30–15:00 Symposium 28 | Contribution of eye movements in assessment of deficits and neurorehabilitation after stroke

Room Salle Rhône 3

Chair Z. Kapoula (Providence, RI/US)

13:30 Functional exploration and training of binocular eye movements in close, peri personal and extra personal space following a stroke
Z. Kapoula (Providence, RI/US)

14:00 Treatment of neglect – contribution of eye movements
A. Sprenger (Luebeck/DE)

14:30 Deficits in visual exploration and search in patients with visual field defects after stroke and their course after neurorehabilitation
D. Cazzoli (Lucerne/CH)

13:30–15:00 Symposium 29 | Joint ESO East

Room Salle Rhône 2

Chairs N. Bornstein (Tel-Aviv/IL), D. Mureşanu (Cluj-Napoca/RO)

13:30 Early rehabilitation in the acute stroke Unit Setting – from the real world to the action plan for stroke in Europe
F. Pezzella (Rome/IT)

14:00 Post stroke cognitive decline
N. Bornstein (Tel-Aviv/IL)

14:30 A roadmap for achieving the SAP-E objectives in post-stroke rehabilitation – facilitation of implementation programmes
A. Kohlmetz (Attersee/AT)

13:30–15:00 Symposium 30 | The illusion in virtual reality and in the real world: from philosophy to medicine

Room Salle Rhône 1

Chair H. Binder (Vienna/AT), G. Sandrini (Pavia/IT)

13:30 A dialogue between Artificial Intelligence and brain – Which perspective?
S. Soekadar (Berlin/DE)

- 14:00 Consciousness and virtual reality
M. Sanchez-Vives (Barcelona/ES)
- 14:30 Observing a real and a virtual world to recover brain functions
G. Buccino (Milan/IT)
- 15:05–15:35 New societies session – briefing on neurorehabilitation current state of affairs**
- 15:05 Clinical practice and research in neurorehabilitation in Serbia
L. Konstantinovic (Belgrade/RS)
- 15:10 Neurorehabilitation current state of affairs in the Republic of Moldova
D. Glavan (Chisinau/MD)
- 15:15 Current status of neurorehabilitation in Poland
I. Dlugosz (Warsaw/PL)
- 15:20 Neurorehabilitation in stroke patients – Bulgarian experience
D. Maslarov (Sofia/BG)

15:35–16:35 Closing lecture & invitation to WCNR 2024 & ECNR 2025

Room Auditorium Lumière
Chair V. Hömberg (Korschenbroich/DE)

15:15 Introduction
V. Hömberg (Korschenbroich/DE)

15:30 Closing lecture
V. Hachinski (London, Ontario/CA)

16:15 Invitation to WCNR 2024 & ECNR 2025
V. Hömberg (Korschenbroich/DE)

Restorative Neurology and Neuroscience

Learn More



ePoster session 1 – ePoster presentations 1

Terminal	ePoster station 1
P001	ICF framework for assessing the upper limb motor function in ALS people – a case report A. R. Lindquist (Natal/BR)
P002	Wavelet-based analysis of surface electromyography at different levels of ALS clinical staging A. R. Lindquist (Natal/BR)
P003	Improvement in gait pattern after BoNT-A injection in hemiparetic patients studied by gait analysis Y. Teuschl (Krems/AT)
P004	Lokomat training gait rehabilitation after Selective Dorsal Rhizotomy in children with cerebral palsy V. Ceccatelli (Rome/IT)
P005	Adherence and effects of a mindfulness programme conducted in a cohort of individuals living with dystonia – preliminary results from a pilot study, using a mixed-method approach G. Le Sant (Nantes/FR)
P006	Balance improvement in Primary Progressive Multiple Sclerosis (PPMS): a case study I. Baleia (Cascais/PT)
P007	Parkinson's disease and COVID-19 – What functional repercussions? About a case R. Hebhouh (Algiers/DZ)
P008	Cognitive dual-task training to improve balance and functional mobility in Parkinson's disease – a case study R. Brandão (Cascais/PT)
P009	Intensive physiotherapy training for functional mobility in Parkinson's disease – a case study R. Brandão (Cascais/PT)

- P010** Dual task training and functional mobility improvement in Parkinson's disease – case study
I. Baleia (Cascais/PT)
- P011** Efficacy of transcranial direct current stimulation alone or combined with additional therapies on gait and balance in individuals with Parkinson's disease – a systematic review and meta-analysis
T. X. D. Nguyen (Taoyuan City/TW)
- P012** (Unexpected) clinical and functional recovery in patients with chronic traumatic spinal cord injury – a case series
S. Ganvir (Ahmednagar/IN)
- P013** The importance of wheelchair skills in performing daily activities in patients with spinal cord injury
Z. Osipova (Jurmala/LV)
- P014** Sitting posture and pressure mapping, while using smart devices, for persons with cervical spinal cord injury in the chronic stage. Pilot study
Z. Osipova (Jurmala/LV)
- P015** Association between low skeletal muscle mass and functional outcome among stroke patients
J. Kim (Seoul/KR)
- P016** Repetitive transcranial magnetic stimulation related choreic movement as an adverse effect in stroke – a case report
H. J. Hwang (Yongsan/KR)
- P017** Home hospitalisation – role of rehabilitation telemedicine
P. Ferraz-Gameiro (Elvas/PT)
- P018** Efficacy and usability of an intervention combining conventional and gamified rehabilitation exercises in highly ecological virtual reality environments – two case reports
R. Llorens (Valencia/ES)
- P019** The use of diagnostic nerve block to predict the effect of tibial neurotomy on genu recurvatum
E. Chesne (Lyon/FR)

- P020** Rehabilitation of a patient with critical illness polyneuropathy and complicated hospital course – a case report
A. Saric (Halifax/CA)
- P021** The essential tremor of the upper limbs – Which management in PRM?
R. Hebhou (Algiers/DZ)
- P022** Conditions that mechanically block shoulder movement and can be evaluated using ultrasound – considerations for dry needling under ultrasound guidance
R. Bubnov (Kyiv-UA)
- P023** A unique case of a neurological disorder – stiff person syndrome
S. Singhvi, P. Singh (Ahmedabad/IN)
- P024** Functional ability in Brachial Plexus Birth Palsy (BPBP)
N. S. Diagne (Dakar/SN)
- P025** Relations between static stability and curve sites in adolescent idiopathic scoliosis by empirical mode decomposition
P.-T. Liu (Changhua/TW)
- P026** Increasing lateral weight shift may not improve biomechanics of walking after complex brain injury
S. Mills (Daw Park/AU)
- P027** Riding waves to improve functioning – a quantitative evaluation of a surf week in individuals with chronic phase brain injury with six months follow-up
R. Denneman (Utrecht/NL), T. van Bezeij (Petten/NL)
- P028** A scoping review of combined relaxation or meditation with biofeedback techniques in motor rehabilitation
H. Santos (Alcabideche/PT)
- P029** Excitability of denervated muscles and FES cycling speed increase in the course of regular training – observations in a preliminary case study
J. Laczko (Budapest/HU)

ePoster session 1 – ePoster presentations 2

Terminal ePoster station 2

- P030** Pain management in a severe case of two years and a half of continuous and disabling algohallucinosi
S. Lemai (Constantine/DZ)
- P031** Cognitive impairment is associated with gait variability and fall risk in amyotrophic lateral sclerosis
M. Spisto (Caserta/IT)
- P032** Working-memory training in patients with aphasia
J. Horynova (Prague/CZ)
- P033** Physiotherapy for freezing improvement and fall prevention in a case of progressive supranuclear palsy – a case study
H. Santos (Alcabideche/PT)
- P034** Impact of biofeedback therapy on the psychophysical status in brain tumor patients during radiotherapy
K. Hojan (Poznan/PL)
- P035** Effects of cardiac rehabilitation according to body mass index in low ejection fraction patients
J. H. Lee (Busan/KR)
- P036** Effects of diabetic polyneuropathy on functional outcome in diabetic transtibial amputees
J. Kim (Singapore/SG)
- P037** Rehabilitation outcomes in patients with post-COVID-19 vaccine-associated Guillain-Barre syndrome
A. Gupta (Bengaluru/IN)
- P038** The multifaceted challenges of rehabilitation in limbic encephalitis: a case series
J. M. Yen (Singapore/SG)

- P039** Experience with the use of L-carnitine in the comprehensive outpatient rehabilitation programme for patients with Long COVID
K. Ivantsov (Moscow/RU)
- P040** The need to share – creating a tailored support group for patients with Post COVID-19 condition in physical medicine and rehabilitation unit (the Epsilon programme)
H. Ardaillon (Lyon/FR)
- P041** Does isokinetic lower limb muscle strengthening combined with focal spasticity treatment enhance fatigue, strength, and quality of life in multiple sclerosis patients?
H. Aboura (Sidi Bel Abbès/DZ)
- P042** Multiple sclerosis therapies rather than medications
A. Alsawareah (Zarqa/JO)
- P043** Association of respiratory muscle strength with trunk muscle strength and endurance in people with multiple sclerosis
M. S. Özen (Balıkesir/TR)
- P044** Influence of vestibular rehabilitation on balance and dual-task cost of walking in patients with multiple sclerosis – a randomised controlled trial
B. El-Nassag (Giza/EG)
- P045** Combination of intrathecal autologous bone marrow concentrate, neuromodulation and walking training stop disease and caused partial motor and systemic recovery in patient with multisystem atrophy (MSA-C)
J. Bodziony (Lucerne/CH)
- P046** Rehabilitation of a patient with neuomyelitis optica spectrum disorder: a case report
W. L. Lui (Singapore/SG)
- P047** Fall and predictors of fall self-efficacy in patients with neurologic diseases in Kano Metropolis, Nigeria
J. Usman (Kano/NG)

- P048** Exploring the relationship between constipation, pain, and physical inactivity in Parkinson's disease – implications for clinical management
M. Al-Wardat (Irbid/JO)
- P049** Does hand deformity affect manual and finger dexterity in patients with parkinson's disease?
M. S. Özen (Balıkesir/TR)
- P049** PWR! Moves integrated in a physiotherapy protocol for functional mobility in a patient with vascular parkinsonism – a case study
H. Santos (Alcabideche/PT)
- P051** Rehabilitation with slow movement training in patient with post hypoxic myoclonus – a case report
H. S. Jo (Gwangju/KR)
- P052** Retroperitoneal compartment syndromes with neurological deficits
S. Adiga (Auckland/NZ)
- P053** Imaging evaluation for shoulder soft tissue sarcoma – the significance of ultrasound in diagnosis and management
R. Bubnov (Kyiv/UA)
- P054** Effect of robot-assisted gait training frequency on independency and lower extremity function in adults with chronic spinal cord injury
A. Mänd (Haapsalu/EE)

12:45–14:15 ePoster session 1 – ePoster presentations 3

Terminal ePoster station 3

- P055** What improvement after toxin and constraint induced therapy in the spastic hemiplegic upper limb?
S. Ammor (Sidi Bel Abbès/DZ)
- P056** Albertov day therapy center programme of intensive cognitive rehabilitation in acquired brain injury survivors
S. Klimosova (Prague/CZ)
- P057** Neurorehabilitation in patients with stroke – first-ever time versus recurrent
D. Maslarov (Sofia/BG)
- P058** Effect of modified shoe with motor relearning programme on timed up and go test values and gait parameters in chronic stroke patients: comparative study
S. Sundar (Dindigul/IN)
- P059** Gloreha and Action Observation Therapy (AOT) – new approaches in neurorehabilitation
E. Morcillo de Mercado, G. Gonzalez Jimenez (Madrid/ES)
- P060** The electric simulation and proper positioning for mri-based transcranial direct current stimulation in stroke
H. Oh (Gyeonggi-do/KR)
- P061** Current status and successful home discharge rate in inpatient rehabilitation facilities for subjects with stroke in Korea
H.-Y. Jung (Incheon/KR)
- P062** Feasibility and outcomes of early supported discharge for acute stroke patients in Korea – preliminary results from a multi-center randomised controlled trial
H.-M. Cho (Bundang-Si/KR)
- P063** A single case of rehabilitation for an aphasia patient in the acute stroke phase by using alternative tools to go to the toilet alone
G. Koyama (Tokyo/JP)

- P064** The content of rehabilitation goals expressed in patients with stroke during subacute inpatient rehabilitation – a prospective observational study
J. Evensen (Gjøvik/NO)
- P065** Local vibrations and spasticity treatment in subacute stroke: a controlled single-blinded randomised trial
S. Julliand (Dijon/FR)
- P066** Feasibility and effectiveness of FES-Cycling on post-stroke patients: preliminary results
M. Descollonges (Dijon/FR)
- P067** Relationships of motor function, balance, activities of daily living and quality of life with cognitive function in stroke patients with hemiplegia
R. N. Demirtas (Eskisehir/TR)
- P068** The early stroke rehabilitation systems gaps
M. Yazdani (Isfahan/IR)
- P069** The influence of trunk control on activities of daily living, gait independence, balance and falls, quality of life and community mobility in patients with stroke – a cohort study
S. Al Qahtani (Jeddah/SA)
- P070** Clinical trial – effect of percutaneous electrical nerve stimulation (PENS) on wrist flexor spasticity and motor function in stroke survivors
S. Kamble (Pune/IN)
- P071** Effect of dry needling in post stroke individuals on spasticity by using H Reflex – clinical trail
S. Kamble (Pune/IN)
- P072** Reimagining post-stroke hand function recovery through an examination of the barriers and facilitators of hand telerehabilitation
J. Banihani (Winnipeg/CA)

- P073** Clinical and neurophysiologic effects of upper limb robot-assisted rehabilitation on motor recovery in patients with subacute stroke: preliminary results
S. Pournajaf (Rome/IT)
- P074** Introduction of intraregional stroke rehabilitation networking programme
I. S. Choi (Gwangju City/KR)
- P075** How an innovative day-care structure can improve patient's recovery after a stroke or brain injury – a qualitative study
J. Haesebaert (Lyon/FR)

12:45–14:15 ePoster session 1 – ePoster presentations 4

Terminal

ePoster station 4

- P076** Interrater reliability of the Gugging Swallowing Screen between different healthcare professional representatives in non-stroke etiology
H. Kang (Gongju-si/KR)
- P077** The brain as a key element in the anti-aging system
A. Lurye (Almaty/KZ)
- P078** Effect of augmented reality based neuromuscular training on upper extremity in sarcopenia risk group
J. Yu (Asan/KR)
- P079** Effect of time from post-stroke onset to receiving swallowing rehabilitation programme on the successful dysphagia recovery – a retrospective study
P. Khanittanuphong (Hat Yai, Songkhla/TH)
- P080** Delay in supra-hyoid muscle activation in the patients with post stroke dysphagia
S. J. Lee (Cheonan/KR)
- P081** Differences in videofluoroscopic swallowing study findings and etiology regarding to age in patients with dysphagia
H.-E. Yang (Seoul/KR)

- P082** Predictors of aspiration pneumonia in alzheimer's dementia: videofluoroscopic swallowing study
J. H. Lee (Busan/KR)
- P083** Relationship between peak cough flow and immediate effect of one-way speaking valve placement on dysphagia
J. H. Lee (Busan/KR)
- P084** Effect of oral neuromuscular training on tracheostomy tube decannulation in patients with acquired brain injury – a pilot randomised controlled trial
J. Fabricius (Hammel/DK)
- P085** Review of PEG tube placement practice in Hyper-acute Neurological Rehabilitation Unit (HARU) in comparison to national guidelines
M. Negm (Manchester/GB)
- P086** Successful decannulation due to pharyngeal electrical stimulation in a patient with severe dysphagia after subarachnoid hemorrhage
C. Weichert (Duesseldorf/DE)
- P087** Applying 3D printing to anatomy education for laryngeal electromyography and botulinum toxin injection procedures
M. W. Kim (Incheon/KR)
- P088** Assessment of swallowing in progressive supranuclear palsy – an Indian cross-sectional study
M. Sengupta (Kolkata/IN)
- P089** Swallowing in patients with SMA – new findings in DYS-SMA trial
S. Hamzic (Giessen/DE)
- P090** Compensatory mechanisms in the management of dysphagia in Amyotrophic Lateral Sclerosis (ALS)
A. S Y (Bengaluru/IN)
- P091** Early onset of neurological heterotopic ossification – a case report
H. Ardaillon (Lyon/FR)
- P092** Odontoid peg fracture in older adult
P. Deshpande (York/GB)

- P093** Is the use of FES-Cycling in patients with complete spinal cord injury in the acute phase recommended? Two cost-utility analyse comparing the rehabilitation through passive mobilisation versus FES
M. Olivieri (Lucca/IT)
- P094** Effects of robotic verticalisation on intracranial pressure in early neurorehabilitation
G. Albani (Gravedona/IT)
- P095** Challenge or opportunity – rehabilitation outcomes in patients with metastatic spinal cordcompression – a UK single center experience
F. Magni (Aylesbury/GB)
- P096** Eye tracking technology use in early rehabilitation patients and patients with minimally conscious state
M. Klaehn (Meerbusch/DE)
- P097** Detecting the unique contribution and impact of fibreoptic endoscopic evaluation of swallowing (FEES) for patients with neuro specific conditions in a tertiary hospital setting
D. Brown, Z. Garstang (London/GB)
- P098** What proportion of patients in a tertiary specialist rehabilitation unit have capacity to make decisions relating to their nursing care interventions? An analysis of prospectively collected data
C. Dungca, H. Williams (London/GB)
- P099** Effects of home-based cueing training on motor performance on people with Parkinson's disease implemented by a sensory interactive system
E. Villamil-Cabello (Madrid/ES)
- P100** Evidence-based recommendations for physical therapy in idiopathic Parkinson's disease. A systematic review of evidence-based guidelines
A. Bremer (Senftenberg/DE)
- P101** Sialorrhoea Clinic – a quality improvement project to expand patient services and reduce subsequent costs to the NHS
O. Khan, E. Mason (Southampton/GB)

18:00–19:30

ePoster session 2 – ePoster presentations 5

Terminal

ePoster station 1

- P102** Ultrasound-guided dry needling for wrist tenosynovitis and carpal tunnel syndrome – efficacy and outcomes
R. Bubnov (Kyiv/UA)
- P103** Potential concussion events – incidence and return-to-play procedures in a soccer team from the Spanish professional soccer league (2019–2020)
E. Noé (Valencia/ES)
- P104** Psychological effects of robot-assisted gait training according to degree of paralysis in spinal cord injury
B.-S. Lee (Incheon/KR)
- P105** The effects of hand function and trunk balance on the self-care of patients with incomplete spinal cord injury
J.-E. Lim (Seoul/KR)
- P106** Urinary tract infection antibiogram in patients with spinal cord injury in Riyadh
S. Alshahri (Riyadh/SA)
- P107** AMAR – mobile health strategy to promote collaborative practice between families and healthcare professionals in monitoring the growth and development of Brazilian children
A. R. Lindquist (Natal/BR)
- P108** Eagle syndrome with internal carotid dissection in a C5 tetraplegic man – a case report
H. Ardaillon (Lyon/FR)
- P109** Impact of strain counter strain on treatment of acute nonspecific low back pain – a single blind randomised controlled trial
B. El-Nassag (Giza/EG)
- P110** The neurorehabilitation challenges of post-traumatic C5-C6 monoparesis of the left upper limb
D.-A. Rindasu, S. Askin (Bucharest/RO)

- P111** Spinal myoclonus post spinal instrumentation
N. T. Shan (Wolverhampton/GB)
- P112** Enhanced spinal trauma rehabilitation (ESTRE) programme design and outcomes
O. Khan (Southampton/GB)
- P113** Prospective analysis of pre-treatment quality of life, presenteeism and emotional health due to chronic neck pain in homemakers – an Indian tertiary care hospital perspective
M. Sengupta (Kolkata/IN)
- P114** The effect of body weight assisted treadmill training on bone mineral density in chronic spinal cord
S. Kamble (Pune/IN)
- P115** Unique case of nutritional peripheral neuropathy with psychiatric manifestations in a young lady following sleeve gastrectomy underscoring the role of nutrition as an interface between physical rehabilitation and public health
M. A. Rana (Wolverhampton/GB)
- P116** Cheshire and Mersey Rehabilitation Network (CMRN) UKROC analysis 2013–2022
G. Bavikatte (Liverpool/GB)
- P117** Care pathways for individuals with anoxic disorders of consciousness: an intersociety consensus Y
A. Estraneo (San Sebastiano al Vesuvio/IT)
- P118** Introducing an eye-tracker in intensive care to assess gaze social stimuli during disorders of consciousness
A. Clerc (Lyon/FR)
- P119** The effect of virtual reality (VR) drum beating contents according to digit memory game on the cognitive function and depressive mood
Y. G. Nam (Asan-si/KR)

- P120** Children and adolescents with rare eye diseases need tailored rehabilitation and care pathways – the See My Life project
M. Leonardi (Milan/IT)
- P121** Children who survived posterior fossa tumors – eye movement parameters during reading
M. Shurupova (Moscow/RU)
- 18:00–19:30** ePoster session 2 – ePoster presentations 6
Terminal ePoster station 2
- P122** Neuropsychological monitoring of cognitive function and international classification of functioning, disability and health – mental components in patients with brain tumours
K. Hojan (Poznan/PL)
- P123** “I see the words, but i can’t get them out” – language complaint analysis in women with breast cancer
A. Richard (Lyon/FR)
- P124** Median nerve to ulnar artery cross-sectional area ratio for diagnosing carpal tunnel syndrome
J. S. Yoon (Seoul/KR)
- P125** Recovering cerebral perfusion and neural activity in the motor related areas after CEA is associated with improvement of the gait function in patients with ICA stenosis
S. Sato (Yahaba/JP)
- P126** Feasibility study of digital neurorehabilitation for language and cognitive impairment in patients with brain damage
T. Bloder (Vienna/AT)
- P127** Feasibility and clinical effectiveness of the computer-based cognitive training programme RehaCom in illiterate and low-educated individuals with mild cognitive impairment
G. Nasios (Ioannina/GR)

- P128** Electroneuromyography in the early stages of diabetic polyneuropathy in patients with COVID-19
B. Muminov (Tashkent/UZ)
- P129** Beyond the wheelchair – how exoskeleton training redefines mobility and somatic sensation for incomplete spinal cord injury patients
M. L. De Martino (Paola/IT)
- P130** Differential aspects of the development of non-motor disorders in Parkinson's disease and Vascular Parkinsonism
R. Matmurodov (Tashkent/UZ)
- P131** Embodiment of assistive tools in spinal cord injury – evidence from mental rotation tasks of wheelchairs and exoskeletons
A. Scuderi (Rome/IT)
- P132** Alteration in brain functional connectivity in patients with post stroke cognitive impairment during memory task – a fNIRS study
Y. Fan (Changsha/CN)
- P133** Integrity of the corticospinal and cortico-ponto-cerebellar tracts reflects gait improvement in stroke patients, and there is a correlation between integrity of spinothalamic and spinoreticular tracts and ambulatory function in the presence of significant damage to corticospinal tract after stroke
Y. Ju (Seoul/KR)
- P134** Development of rehabilitation robot algorithm by using brainwave feedback system
H. W. Ryoo (Daejeon/KR)
- P135** Neuroempowerment protocols for the prevention of cognitive decline and stress management in applied contexts
M. Balconi (Milan/IT)
- P136** Predicting coma recovery by neurophysiological transitions during eyes-opening behaviour
F. Gobert (Lyon/FR)

- P137** Correlation between autonomic dysfunction and functional outcomes in acute stroke patients
H. J. Hwang (Yongsan/KR)
- P138** Neurophysiological basis of chronic ankle instability – involvement of supraspinal and spinal mechanisms in impairments and improvements
A. Yağcıoğlu (Istanbul/TR)
- P139** Comparison of the EEG correlates of visual and vibratory feedback therapy during motor imagery in rehabilitation
A. Ahmed (St-Etienne/FR)
- P140** Neural basis of lower-limb visual-feedback therapy in rehabilitation: an EEG study
A. Ahmed (St-Etienne/FR)
- P141** Effects of heart rate variability biofeedback training on anxiety reduction and its brain activity – an EEG study
R. Saito (Sapporo/JP)
- P142** Optimising muscle selection for needle electromyography in isolated C6 root lesion – a prospective chart review study
S. M. Rayegani (Tehran/IR)
- P143** Exceptional selective regression of anosognosia for sensorimotor deficits after a right brain damage – a case report
H. Ardaillon (Lyon/FR)
- P144** Recovery of visuospatial neglect in a painter through self-portraits
C. Devignes (Lyon/FR)
- P145** A new ICT system for the assessment of patients with disorder of consciousness – a case report
M. Leonardi (Milan/IT)
- P146** Integrating cognitive and psychological assessment for patients with Cerebral Amyloid Angiopathy
M. Leonardi (Milan/IT)

P147 Eye movement indicators for unilateral spatial neglect – different research paradigms
M. Shurupova (Moscow/RU)

P148 Spanish validation of the Simplified Evaluation of Consciousness Disorders (SECONDS)
E. Noé (Valencia/ES)

P149 A machine learning analysis of the predictive value of the information gathered by the Coma Recovery Scale-Revised in determining the clinical diagnosis of individuals with disorders of consciousness
R. Llorens (Valencia/ES)

P150 Quantitative assessment of motor neglect
S. Silvestri (Saint Maurice/FR)

18:00–19:30 ePoster session 2 – ePoster presentations 7
Terminal ePoster station 3

P151 Botulinum toxin use for spasticity – a population-based study from France
J. Lévy (Garches/FR)

P152 Goal attainment with integrated upper-limb spasticity management including botulinum toxin A (BoNT-A) – sub-analysis of Australian data from the ULIS-III study
D. Marinkovich (South Yarra/AU)

P153 Development of a tool in Hindi language to assess communicative skills in individuals with right hemisphere damage
S. Palrecha (Mumbai/IN)

P154 Feasibility of the intensive cognitive rehabilitation programme in patients with acquired brain injury – pilot study
M. Krivosikova (Prague/CZ)

P155 Eye tracking in virtual reality as a measure of attentional deficits in brain damaged patients
H. Perrin (Lausanne/CH), L. Catinari (Bologna/IT)

- P156** Investigating the feasibility of closed-loop transcranial Alternating Current Stimulation (cl-tACS) to probe the role of cortical mu-rhythm oscillations on motor control and motor recovery
A. Colucci (Berlin/DE)
- P157** Amount of daily time spent in rehabilitation in stroke in/outpatients: a French rehabilitation center study
A.-G. Grosmaire (Boissise-le-Roi/FR)
- P158** Increased rate of chest CT-angiography diagnostics during pulmonary hypertension among acute ischemic stroke patients and its association with previous COVID-19 infections
T. Janelidze (Kutaisi/GE)
- P159** International classification of functioning, disability, and health (ICF) based factors influencing post stroke social participation – the Korean stroke cohort for functioning and rehabilitation (KOSCO) study
J. Choi (Yangsan/KR)
- P160** Correlation between skeletal muscle index and pulmonary function in stroke patients
H. I. Moon (Seoungnam-si/KR)
- P161** Impact of patient input on the study execution of a prospective, epidemiological study assessing the proportion of stroke survivors who develop problematic post-stroke spasticity
S. Pröschel (Grünwald/DE)
- P162** Impact of the psychosocial background on the outcome of rehabilitation after stroke
C. N. Nguyen, M.-D. Gazagnes (Brussels/BE)
- P163** The Berlin Bimanual Test for Stroke (BeBiTS) – a new measure of bimanual function for stroke survivors compatible with assistive hand exoskeletons
M. Vermehren (Berlin/DE)
- P164** Reducing length of stay of post-stroke patients in the rehabilitation ward of Alexandra Hospital
L. Lua (Singapore/SG)

- P165** Exploring the potential of transcranial direct current stimulation for relieving central post-stroke pain – a randomised controlled pilot study
J. Baik (Yongsan/KR)
- P166** The effect of cerebrolysin therapy combined with ringoal ai augmented muscle strengthening training on the recovery of affected upper limb function in subacute stroke patients
H.-Y. Chen (Tainan/TW)
- P167** Effects of SensibleTAB robot-assisted therapy on upper limb function in subacute stroke
W. Kitisomprayoonkul (Bangkok/TH)
- P168** Secondary prevention as inevitable part of stroke rehabilitation
A. Lukmann (Tartu/EE)
- P169** Mapping the care pathway in post-stroke spasticity – insights from England
M. Ippolito (Slough/GB)
- P170** Post-stroke care pathway in England – barriers and plausible solutions
M. Ippolito (Slough/GB)
- P171** Retrospective pre-post stroke awareness about physiotherapy and stroke among stroke survivors
S. Ganvir (Ahmednagar/IN)
- P172** Effects of reverse gait training in stroke rehabilitation
M. P. Kumar (Madurai/IN)
- P173** Relationship between stroke-related sarcopenia and physical activity in chronic stroke
M. L. Sánchez-Sánchez (Valencia/ES)
- P174** Prevalence of frailty status in community dwelling chronic stroke survivors and differences between women and men
M. L. Sánchez-Sánchez (Valencia/ES)

- P175** Cross-sectional study of bone mineral density in chronic stroke survivors with limited versus non-limited community ambulation
M. L. Sánchez-Sánchez (Valencia/ES)
- P176** Kinematic gait variability and its clinical correlates in chronic stroke
M. Tschopp (Sion/CH), P. Nicolo (Genève/CH)
- P177** Enhancing cognitive neurorehabilitation of attention by using gamified exercises in immersive virtual reality – a preliminary study
C. A. Pestiaux (Lausanne/CH)
- P178** Sequential percutaneous needle Achilles tenotomy is safe and effective for Achilles tendon contracture management
J. Y. S. Lau (Singapore/SG)
- P179** Optimised trans-cranial direct current treatment for a patient with titanium mesh – a case report
G.-Y. Park (Bucheon-si/KR)
- P180** Rehabilitation outcomes in right-hemispheric and left-hemispheric TIA patients
D. Maslarov (Sofia/BG)

18:00–19:30 ePoster session 2 – ePoster presentations 8

Terminal ePoster station 4

- P181** Effects of combined Botulinum toxin A and controlled dynamic stretching orthotics on gait in children
L. van der Stam (Berlin/DE)
- P182** Neuro-orthopedic and functional consequences of confinement due to COVID-19 in children with cerebral palsy and followed at the PRM service of the UH of Constantine, Algeria
S. Lemai (Constantine/DZ)
- P183** Effectiveness of medical rehabilitation in children with spastic type of cerebral palsy, stratified by age and sex
M. Sopromadze, E. Tataradze (Tbilisi/GE)

- P184** Occupational therapy management of upper limb dystonia in cerebral palsy
H. Zerouga, K. Layadi (Oran/DZ)
- P185** Guillain-Barré Syndrome in infancy, psychomotricity management
H. Zerouga (Oran/DZ)
- P186** Transverse myelitis to cauda equine syndrome in a patient with meningoencephalitis caused by pyogenes streptococcus
M. Corpas (Malaga/ES)
- P187** Correlation between mobility and arm function in patients with Duchenne Muscular Dystrophy
H. M. Ji (Seoul/KR)
- P188** The efficacy of short-term visual-motor training in pediatric posterior fossa tumor survivors – quasi randomised controlled experiment
M. Shurupova (Moscow/RU)
- P189** Enhancement of botulinum toxin type a effect by postsynaptic inhibitors of muscle contraction
M. Machicoane (Lausanne/CH)
- P190** Medium-term functional goals of Selective Dorsal Rhizotomy (RDS) combined with intensive rehabilitation treatment in children with Cerebral Palsy (CP)
F. Frascarelli (Rome/IT)
- P191** A 10-year service evaluation of major neuro trauma rehabilitation care at the Walton Centre, Liverpool, United Kingdom
G. Bavikatte (Liverpool/GB)
- P192** Chronotype affects physical and mental health status of migraineurs
D. Baksa (Budapest/HU)
- P193** Potential gait performance variation during test-retest using a triaxial acceleromometer
S. Fujiwara (Yahaba/JP)

- P194** Novel SPG11 mutation presenting with Parkinson like features in a patient of hereditary spastic paraplegia – rehabilitation challenges
S. Ghosh (Patna/IN)
- P195** Potential therapeutic effect of Lamotrigine in disorders of consciousness after a traumatic brain injury – a series of 4 cases
C. Hérault (Bernin/FR)
- P196** Upper limb motor rehabilitation after TBI – a case study of novel computerised device for visual motor stimulation intervention
A. Plavsic (Ramat Gan/IL)
- P197** Combination of active physiotherapy, neuroreactive stabilisation training and dynamic orthosis fitting to promote sports fitness in tetraparesis after traumatic brain injury
A. Dassel (Frankfurt a.M./DE)
- P198** Principles of rehabilitation of patients after combat traumatic brain injury on the territory of Ukraine
I. Chernenko (Харків/UA)
- P199** Challenges in delivering neurorehabilitation for a person with complex traumatic brain injury (TBI) in a community hospital setting
N. T. Shan (Wolverhampton/GB)
- P200** PNS (peripheral nervous system) interventions for expanding the sensate area in CNS lesions
S. Adiga (Auckland/NZ)
- P201** Nerve combing for trigeminal neuralgia – a comprehensive review of the current techniques, outcomes, and future directions
M. E. Machado Musri (Asunción/PY)

Wenn der Inhalt zählt ...



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Thursday, 31 August

12:40–14:10 Workshop
IPSEN



Room Salle Saint Clair 3

Chairs P. Sanderson (Preston/UK), C. Boulay (Marseille/FR)

12:45 Discussion of 2 complex cases of adult spasticity
P. Sanderson (Preston/UK), C. Boulay (Marseille/FR)

Friday, 1 September

13:00–14:00 Exclusive symposium
IPSEN



Room Auditorium Lumière

Chairs J. Jacinto (Alcabideche/PT), A. Picelli (Verona/IT)

13:00 Welcome and introduction
J. Jacinto (Alcabideche/PT)

13:10 Panel discussion
J. Jacinto (Alcabideche/PT), A. Picelli (Verona/IT), A. Pick (Oxford/UK)

13:40 Panel Q&A session
J. Jacinto (Alcabideche/PT), A. Picelli (Verona/IT), A. Pick (Oxford/UK)

13:55 Summary and closing
J. Jacinto (Alcabideche/PT)

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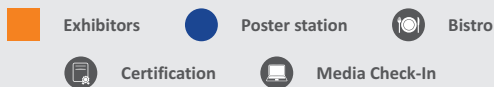
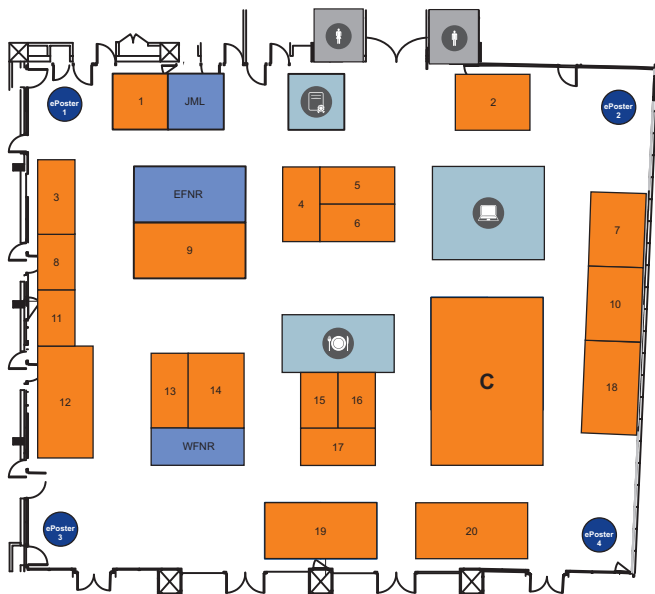


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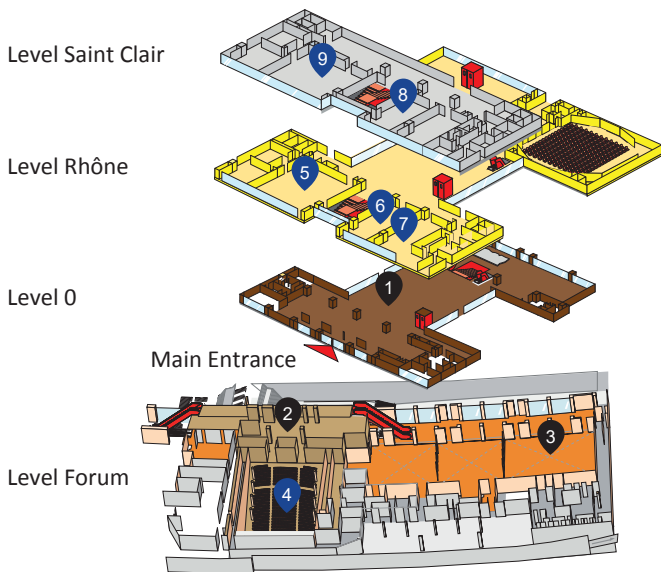
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- 2 Foyer Lumière
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Lecture halls

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A focus on a *patient-centered approach* to optimizing adherence and treatment outcomes in post-stroke spasticity

Friday

1 September 2023

13:00–14:00 CEST

Auditorium Lumière,
Plenary Hall, Level -1

Join us for an engaging interview-style session, moderated by Dr Jorge Jacinto. The expert panel will discuss the optimization of post-stroke spasticity treatment outcomes with a patient-centered view; exploring their needs, goals, and adherence.

Time	Topic	Session Lead(s)
13:00–13:10	Welcome and introduction	<i>Jorge Jacinto</i>
	Panel discussion:	<i>Jorge Jacinto</i> <i>(Moderator)</i>
	• Needs and goals of post-stroke spasticity patients	
13:10–13:40	• Challenges of botulinum neurotoxin treatment	<i>Alessandro Picelli</i>
	• How can we optimize post-stroke spasticity treatment outcomes	<i>Anton Pick</i>
13:40–13:55	Panel Q&A session	<i>All</i>
13:55–14:00	Summary and closing	<i>Jorge Jacinto</i>

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