

13th World Congress for Neurorehabilitation 2024

22.05.2024

11:00 –12:30

Workshop 1

**Tips, tricks and considerations for telerehabilitation
for lower extremity rehabilitation after stroke**

Meeting room 8

Vorsitz/Chair

Ada Tang (Hamilton)

11:00 -11:10

Opening remarks

Ada Tang (Hamilton)

11:10 -11:30

TRAIL: a progressive exercise and self-management virtual rehabilitation
program for lower extremity recovery following stroke

Brodie M. Sakakibara (Kelowna), Elise Wiley (Hamilton)

11:30 -12:15

Clinical considerations and live demonstration of TRAIL

Anne Harris (Vancouver)

11:00 –12:29

Workshop 2

**From repetitions to recovery with the graded
repetitive arm supplementary program (GRASP)**

Meeting room 2

Vorsitz/Chair

Janice J. Eng (Vancouver)

Vorsitz/Chair

Chieh-Ling Yang (Taoyuan)

11:00 -11:45

tba

Janice J. Eng (Vancouver)

11:45 -12:30

tba

Chieh-Ling Yang (Taoyuan)

11:00 –12:30

Workshop 3
Advocacy elements in neurorehab

Meeting room 3

11:00 -11:30

tba
 Wolfgang Grisold (Vienna)

11:30 -12:00

tba
 Mayowa Owolabi (Ibadan)

12:00 -12:30

tba
 Tissa Wijeratne (St Albans)

11:00 –12:30

Workshop 4
Improving publication quality in Neuro-Rehab Research

Meeting room 18

11:00 -11:00

Data integrity in clinical trials – from design, operation, to analysis
 Wenle Zhao (Charleston, SC)

11:00 -11:00

Publication tips on journal choice, revision and final submission – a perspective from a research investigator
 Wayne Feng (Durham, NC)

11:00 -11:00

How to publish on Neural Rehabilitation and Repair Journal – a perspective from the editor
 Randolph Nudo (Kansas City, KS)

11:00 -11:00

Publishing high-quality clinical trial results– practical considerations and tips from Lancet Neurology editor
 Sherrie Kelly (Ottawa)

11:00 –12:30

Workshop 5
Vestibular rehabilitation

Meeting room 16

Vorsitz/Chair

Nirmal Surya (Mumbai)

11:00 -11:18	Spectrum of vestibular disorders Vishal Pawar (Dubai)
11:18 -11:36	Overview of vestibular rehabilitation Sandhya Vadakkepatt (Abu Dhabi)
11:36 -11:54	Role of vestibular rehabilitation in Visually induced dizziness and MDDS Viviana Mucci (Dubai)
11:54 -12:12	Vestibular rehabilitation in unilateral vestibulopathy Nour Salman (Abu Dhabi)
12:12 -12:30	BPPV and Vestibular rehabilitation Neha Shrivastava (Mumbai)
12:45 –14:15	Workshop 6 Assessment and management of dysautonomia in post-COVID syndrome and other related conditions
Meeting room 8	
Vorsitz/Chair	Manoj Sivan (Leeds)
12:45 -14:15	Assessment and management of dysuatonomia in post-COVID syndrome and associated conditions Joanna Corrado (Leeds), Manoj Sivan (Leeds)
12:45 –14:15	Workshop 7 Brain computer interfaces hands-on
Meeting room 2	
Vorsitz/Chair	Surjo R. Soekadar (Berlin)
12:45 -14:15	Brain computer interfaces hands-on Surjo R. Soekadar (Berlin)

12:45 –16:15

Workshop 8

Use of ultrasound in spasticity management: from assessment of muscle architectural changes, identification of nerves and to optimize botulinum toxin A (BoNT-A) treatment

Meeting room 3

Vorsitz/Chair

Rajiv Reebye (Vancouver)

12:45 –12:45

tba

Eve Boissonnault (Montreal)

12:45 –12:45

tba

Stefano Carda (Lausanne)

12:45 –12:45

tba

Omar Khan ()

12:45 –12:45

tba

Rajiv Reebye (Vancouver)

12:45 –12:45

tba

Fabienne Schillebeeckx (Leuven)

12:45 –14:15

Workshop 9

Compensatory scanning intervention for brain-based vision impairment – community rehabilitation: Guide Dogs NSW/ACT, Australia

Meeting room 18

Vorsitz/Chair

Cassandra Holmes (Coffs Harbour)

12:45 –14:15

Compensatory scanning intervention for brain-based vision impairment – community rehabilitation: Guide Dogs NSW/ACT, Australia
 Cassandra Holmes (Coffs Harbour)

12:45 –14:15

Workshop 10

The rehabilitation treatment specification system: unpacking the active ingredients of neurorehabilitation

Meeting room 16

Vorsitz/Chair

John Whyte (Philadelphia, PA)

12:45 -13:05

Introduction to the RTSS

Andrew Packel (Cheltenham, PA)

13:05 -13:25

Introduction to the RTSS (cont.)

John Whyte (Philadelphia, PA)

13:25 -13:40

Use of the RTSS to design and interpret cognitive rehabilitation research

McKay Sohlberg (Eugene, OR)

13:40 -13:50

Use of the RTSS to design and interpret aphasia therapy research

Peter A. Meulenbroek (Lexington, KY)

13:50 -13:57

Use of the RTSS to structure clinical education and training for Speech
Language Pathologists

Peter A. Meulenbroek (Lexington, KY)

13:57 -14:04

Use of the RTSS to structure clinical education and training for Physical
Therapists

Andrew Packel (Cheltenham, PA)

14:04 -14:15

Q&A discussion

12:45 –14:15

SIG 1

Community Based Neurorehabilitation

Meeting room 5

13:00 –16:00

Patient forum

New breakthroughs in neurorehabilitation - a free forum for people with lived experience

Meeting room 19 & 20

Vorsitz/Chair

Janice J. Eng (Vancouver)

13:00 -13:00

High impact clinical trials that could transform the health of people living with a neurological condition

Janice J. Eng (Vancouver)

13:00 -13:00

Neuromodulation – Stimulating brain and nerve pathways to improve neurorehabilitation outcomes

Naaz Desai (Toronto)

13:00 -13:00

Aging: Improving cognitive health with exercise

Teresa Liu-Ambrose (Vancouver)

13:00 -13:00

Research – People with Lived Experience and Research: Why you should participate and How to get engaged

Jennifer Monaghan (Kelowna)

13:00 -13:00

Strategies to promote physical and mental wellness when living with a neurological health condition

Jennifer Yao (Vancouver)

14:45 –16:15

Workshop 11

Extending foundations of brain mechanisms and clinical findings for music in neurorehabilitation

Meeting room 8

Vorsitz/Chair

Michael Thaut (Toronto)

Vorsitz/Chair

Dana Boering (Essen)

14:45 -15:15

Neural mechanisms and clinical translations: new findings for NMT in motor, speech/language, and cognitive rehabilitation

Michael Thaut (Toronto)

15:15 -15:45 Neural correlates underlying music based interventions in children with coordination disorder
 Marija Pranjić (Toronto)

15:45 -16:15 Music based NMT Interventions for language rehabilitation in children: research and clinical practice
 Jenny Diouf Lewis (Montpellier)

14:45 –16:15 **Workshop 12**
Bedside approach and management of autonomic dysfunction in movement disorders

Meeting room 2

Vorsitz/Chair Rajinder K. Dhamija (New Delhi)

Vorsitz/Chair Ellen Merete Hagen (Viborg)

14:45 -15:30 Neurogenic supine hypertension and cardiovascular autonomic dysfunction in patients with Parkinson's
 Rajinder K. Dhamija (New Delhi)

15:30 -16:15 Management of cardiovascular autonomic dysfunction in movement disorders
 Ellen Merete Hagen (Viborg)

14:45 –16:15 **Workshop 13**
Assessment and rehabilitation of visual perception and inattention difficulties

Meeting room 18

Vorsitz/Chair Stephanie Rossit (Norwich)

Vorsitz/Chair Kathleen Vancleef (Durham)

14:45 -15:30 Assessment of visual perception deficits
 Kathleen Vancleef (Durham)

15:30 -16:15 Assessment and rehabilitation of inattention
 Stephanie Rossit (Norwich)

14:45 –17:45

Workshop 14

Family based rehabilitation & community based rehabilitation in developing and underdeveloped countries

Meeting room 16

Vorsitz/Chair

Nirmal Surya (Mumbai)

14:45 –15:05

Family based rehabilitation - the need of the hour

Nirmal Surya (Mumbai)

15:05 –15:20

Role of multidisciplinary team in FBR

Abhishek Srivastava (Mumbai)

15:20 –15:45

Guidelines for implementing FBR - coping strategies for families

Nirmal Surya (Mumbai)

15:45 –16:00

Communication skills for family members

Hitav Someshwar (Mumbai)

16:00 –16:20

Introduction to community based rehabilitation

Alessandro Giustini (Rome)

16:20 –16:40

Rolling our CBR matrix

Mayowa Owolabi (Ibadan)

16:40 –17:00

Role of ICF in CBR and FBR

Matilde Leonardi (Milan)

17:00 –17:30

Hands of training for developing ICF based rehabilitation model for FBR

Nirmal Surya (Mumbai), Alessandro Giustini (Rome), Mayowa Owolabi (Ibadan), Matilde Leonardi (Milan)

17:30 –17:45

Discussion

Nirmal Surya (Mumbai), Abhishek Srivastava (Mumbai), Hitav Someshwar (Mumbai), Alessandro Giustini (Rome), Mayowa Owolabi (Ibadan), Matilde Leonardi (Milan)

14:45 –16:15

SIG 2
Botulinum Toxin

Meeting room 4

SIG Chair

Gerard Francisco (Houston, TX)

Jorge Hernandez Franco (Mexico City)

14:45 –16:15

SIG 3
Brain-Computer Interfaces

Meeting room 5

SIG Chair

Surjo R. Soekadar (Berlin)

16:30 –18:00

Workshop 15
New perspectives for health care professionals in neurorehabilitation

Meeting room 8

16:30 –18:00

New perspectives for health care professionals in neurorehabilitation
Corene Hurt Thaut (Totonto)

16:30 –18:00

Workshop 16
Neuropathic pain and spasticity management after SCI

Meeting room 2

16:30 –18:00

Neuropathic pain and spasticity management after SCI
Belgin Erhan (Istanbul)

16:30 –18:00

Workshop 17

Ultrasound guided pain interventions in persons with neurological disorders

Meeting room 3

Vorsitz/Chair

Navita Purohit Vyas (Mumbai)

Vorsitz/Chair

Abhishek Srivastava (Mumbai)

16:30 –16:52

Basics of ultrasound and knobology

Navita Purohit Vyas (Mumbai)

16:52 –17:14

Ultrasound guided musculoskeletal injections for joint, bursa, nerves and muscles

Amit Bhargava (Westminster, MD)

17:14 –17:36

Ultrasound guided chemodenervation with botulinum toxin or phenol

Abhishek Srivastava (Mumbai)

17:36 –17:58

Ultrasound guided spine interventions for cervical or lumbar spine facetar or root block

Navita Purohit Vyas (Mumbai)

16:30 –18:00

Workshop 18

Common autonomic complications in neurorehab: sexual dysfunction and transient loss of consciousness

Meeting room 18

Vorsitz/Chair

Max J. Hilz (Erlangen)

16:30 –18:00

Common autonomic complications in neurorehab: sexual dysfunction and transient loss of consciousness

Max J. Hilz (Erlangen)

16:30 –18:00

Workshop 19

The role of driving simulation technology in promoting community integration in individuals with neurological conditions

Meeting room 19 & 20

Vorsitz/Chair

Carol Hawley (Coventry)

16:30 -16:35

Welcome and introduction

Carol Hawley (Coventry)

16:35 -16:50

Driving simulation: screening and assessment

Shawn Marshall (Toronto)

16:50 -17:00

Driving Simulation for rehabilitation of driving-related skills

Abiodun Akinwuntan (Kansas City, KS)

17:00 -17:10

Q and A

17:10 -17:55

Driving Simulator interactive session

Laurie Steen (Kansas City, KS)

17:55 -18:00

Q and A and close

16:30 –18:00

SIG 4

Organisation for Psychological Research into Stroke

Meeting room 5

SIG Chair

Stephanie Rossit (Norwich)

23.05.2024

09:00 –10:30

Opening ceremony / Plenary session 1
Opening ceremony

Plenary hall

Vorsitz/Chair

Janice J. Eng (Vancouver)

Vorsitz/Chair

Noah D. Silverberg (Vancouver)

Vorsitz/Chair

Volker Hömberg ()

09:00 -09:10

Welcome by an indigenous elder

09:10 -09:20

Welcome by the conference chairs and the president of the WFNR
 Janice J. Eng (Vancouver), Noah D. Silverberg (Vancouver), Volker
 Hömberg ()

09:20 -09:30

Welcome by the Chief Accessibility Officer of Canada
 Stephanie Cadieux (Surrey)

09:30 -10:00

Opening Lecture
 Rick Hansen (Richmond)

10:00 -10:30

Barnes lecture
 Pam Enderby (Sheffield)

10:45 –12:15

Symposium 1
Advances in therapeutic strategies for neural
regeneration and neuroplasticity after CNS injury

Plenary hall

Vorsitz/Chair

Shuxin Li (Philadelphia, PA)

10:45 -11:15

Stimulating neural regeneration and functional recovery after CNS
 Injuries
 Michael Sofroniew (Los Angeles, CA)

11:15 -11:45

Neural rewiring regulation after injury in the CNS
 Toshihide Yamashita (Osaka)

11:45 -12:15

Developing novel strategies for promoting functional recovery after CNS
 injury
 Shuxin Li (Philadelphia, PA)

10:45 –12:15

Symposium 2

Implementation science approaches, pragmatic solutions and research priorities for improving stroke rehabilitation services across the globe

Meeting room 1

Vorsitz/Chair

Mayowa Owolabi (Ibadan)

Vorsitz/Chair

Jeyaraj Pandian (Ludhiana)

10:45 -11:03

Overview of the WSO-Lancet commission on stroke & the neurology revolution

Mayowa Owolabi (Ibadan)

11:03 -11:21

Implementation science approaches, barriers and facilitators for improving stroke rehabilitation services across the globe

Jeyaraj Pandian (Ludhiana)

11:21 -11:39

Innovations and research priorities for improving stroke rehabilitation

Wayne Feng (Durham, NC)

11:39 -11:57

Improving the global impact of clinical pathways and WHO programs for stroke rehabilitation

Thomas Platz (Greifswald)

10:45 –12:15

Symposium 3

Motivation in neurorehabilitation – a missing link to increase therapy intensity in neurorehabilitation

Meeting room 8

Vorsitz/Chair

Andreas Luft (Zürich)

10:45 -11:15

Motivation in neurorehabilitation- tentative of a transdisciplinary approach

Dana Boering (Essen)

11:15 -11:45

tba

Andreas Luft (Zürich)

11:45 -12:15

tba

Steven Zeiler (Baltimore, MD)

10:45 –12:15

Symposium 4

Evaluating and Implementing PBS+PLUS: an evidence-based intervention for challenging behaviours after brain injury. A WFNR NR SIG sponsored symposium

Meeting room 2

Vorsitz/Chair

Jennie Ponsford (Melbourne)

10:45 -11:15

An evidence-based intervention for challenging behaviours after brain injury

Tim Feeney (Albany, NY)

11:15 -11:45

Evaluating the efficacy of PBS+PLUS and participant experiences

Jennie Ponsford (Melbourne)

11:45 -12:15

Implementing PBS+PLUS into clinical practice

Kate Gould (Melbourne)

10:45 –12:15

Developing world forum 1

Tailoring clinical practice guidelines (CPGs) for stroke rehabilitation in low-and-middle-income-countries (LMIC)

Meeting room 19 & 20

Vorsitz/Chair

Julie Bernhardt (Melbourne)

Vorsitz/Chair

John M. Solomon (Manipal)

10:45 -11:30

Steps towards developing LMIC specific stroke rehabilitation CPGs: GCSR milestones and roadmap

Dorcas Gandhi (Ludhiana)

11:30 -12:15

Complimentary approaches to improving stroke rehab quality in LMICs

John M. Solomon (Manipal)

10:45 –12:15

Oral communications 1

Meeting room 3

Vorsitz/Chair

Iris Charlotte Brunner (Aarhus)

10:45 -10:54

Exploring neural correlates of motor function and fitness in people living with multiple sclerosis

Zahra Moslemi (Regina)

10:54 -11:03

The training effect of tinkering activities on cognitive flexibility in community-dwelling older adults: an event-related potential studies

Hei Tong Pang (Taipei)

11:03 -11:12

Sociodemographic, epidemiological, clinical and functional profile of individuals with parkinson's disease attended in a brazilian rehabilitation center: multicentric study

Filipe Lopes (Belo Horizonte)

11:12 -11:21

Exploring clinical progress in Guillain-Barré syndrome: a study of AMAN and AMSAN variants in an indian tertiary care hospital with emphasis on speech and swallowing

Tasneem Motiwala (Mumbai)

11:21 -11:30

Benefits of MS Ballroom Fitness(TM) on balance, walking capacity, and well-being in multiple sclerosis – a randomized controlled trial

Lars Hvid (Aarhus)

11:30 -11:39

The effects of a 12-week training program on cognition and sleep quality in individuals with PD: preliminary findings of an ongoing RCT

Jacopo Cristini (Montreal)

11:39 -11:48

A head-to-head comparison of the effects of aerobic vs. resistance training on the six-minute walk test in people with multiple sclerosis – preliminary results from the MSBOOST trial

Laurits Taul-Madsen (Aarhus)

11:48 -11:57

Exploring implementation preferences for building online mindfulness-based interventions for people with multiple sclerosis across Ontario

Ashvene Sureshkumar (Toronto), Robert Simpson (Toronto)

11:57 -12:06 High intensity group exercise incorporating behaviour change to target physical activity in people with Parkinson's disease: a randomised controlled trial
 Sandra Brauer (Brisbane)

10:45 –12:15

Symposium 5

Addressing educational needs in the use of technology in neurorehabilitation: Strategies and perspectives from three distinct programs

Meeting room 18

Vorsitz/Chair Andrew Packel (Cheltenham, PA)

10:45 -11:15 Meeting the educational needs to prepare clinicians as leaders in the use of rehabilitation technology and robotics
 Andrew Packel (Cheltenham, PA)

11:15 -11:45 The MiNT Academy; meeting the needs of a global landscape through a standardised education programme aligning evidence, research and clinical practice
 Laura Marriott (Winchester)

11:45 -12:15 Education: the capstone for a real uptake of technologies in clinical rehabilitation
 Alessandra Pedrocchi (Milan)

10:45 –12:15

Oral communications 2

Meeting room 16

Vorsitz/Chair Matilde Leonardi (Milan)

10:45 -10:54 Are we providing older persons after brain injury the same care as younger persons? A retrospective population-based study
 Narhari Timilshina (Toronto)

10:54 -11:03 Are older adults with SCI receiving the right care at the right time? A care quality evaluation study
 Narhari Timilshina (Toronto)

11:03 -11:12	Self-reported body function and daily life activities 18 months after COVID-19: a nationwide cohort study Hanna C. Persson (Gotheburg)
11:12 -11:21	Cost efficiency of specialist inpatient rehabilitation following major trauma: a cohort from analysis from the UK national clinical database comparing different levels of dependency Berkay Karahacioglu (London)
11:21 -11:30	Cost efficiency of specialist inpatient rehabilitation following major trauma: a comparison by different types of injury from the UK national clinical database Liew Hung Tze (Singapore)
11:30 -11:39	Overcoming medication-related barriers in specialised inpatient neurorehabilitation Francesca Broadbridge-Kirbitson (Newcastle upon Tyne)
11:39 -11:48	Long-term outcomes of community-based intensive care treatment following early neurological rehabilitation – results of a multicentric German study Danae Götze (Munich)
11:48 -11:57	Defining and conceptualising financial capability in adults with acquired cognitive impairment Sarah Swan (Brisbane)
11:57 -12:06	An implementation evaluation of the driving and dementia roadmap in alzheimer society organizations Carol Hawley (Coventry)
12:06 -12:15	Prevalence of hyponatremia in spinal cord injury patients Hui Min Knight (Oxford)

10:45 –19:45

Poster self-study

Exhibition hall A & B

10:45 –12:15

SIG 5
Dementia

Meeting room 4

SIG Chair

Valeria Manera ()

10:45 –12:15

SIG 6
Headache and Migraine

Meeting room 5

SIG Chair

Abhishek Srivastava (Mumbai)

Juerg Kesselring ()

12:30 –13:45

Industry sponsored symposium
Fight for your patients with post-stroke spasticity:
an expert debate

Meeting room 1

14:00 –15:30

Symposium 6
Young researchers symposium – the future of
neurorehabilitation

Plenary hall

Vorsitz/Chair

Maria Alejandra Spir Brunal (Medellin)

14:00 –14:22

Closed-loop serious video games for cognitive neurorehabilitation in stroke and MS

Arseny Sokolov (Lausanne)

14:22 –14:44

MOVE-IT Project – Exergaming to motivate physical activity in persons with intellectual disability

Elia Zanin (Motta di Livenza)

14:44 –15:06

Exploring the efficacy of family based virtual reality and game based rehabilitation in children with cerebral palsy

Hitav Someshwar (Mumbai)

15:06 -15:28 Factors influencing the provision of home-based rehabilitation services
 Maria Alejandra Spir Brunal (Medellin)

14:00 –15:30 **Symposium 7**
The role of neuroendocrine hormones and the gut microbiome in brain injury and neurorehabilitation

Meeting room 1

Vorsitz/Chair Tamara L. Wexler (New York, NY)

14:00 -14:30 The role of neuroendocrine hormones in long-term recovery from acquired brain injury
 Tamara L. Wexler (New York, NY)

14:30 -15:00 The fecal microbiome contributes to fatigue, altered cognition and abnormal growth hormone secretion in humans and germ-free mice colonized with selected human bacterial communities
 Richard Pyles (Galveston, TX)

15:00 -15:30 Outcome measurement research for the role of GH dynamics after traumatic brain injury: an unmet need
 Ramon Diaz-Arrastia (Philadelphia, PA)

14:00 –15:30 **Symposium 8**
Clinical application of virtual reality technology to enhance post-rehabilitation outcomes

Meeting room 8

Vorsitz/Chair Sandeep Subramanian (San Antonio, TX)

14:00 -14:45 Virtual Reality based interventions and neurocognitive and mood impairments
 Sandeep Subramanian (San Antonio, TX)

14:45 -15:30 Interdisciplinary team considerations in designing virtual reality environments for neurorehabilitation, including clinical application and education (LM and AW)
 Laura Marriott (Winchester)

14:00 –15:30 **Symposium 9**
Walk the talk: how should we measure and target walking recovery after stroke?

Meeting room 2

Vorsitz/Chair George Fulk (Atlanta, GA)

14:00 -14:30 Recommendations from the third ISRRA roundtable on walking measurement after stroke
 Geert Verheyden (Leuven)

14:30 -15:00 Current recommendations for targeting walking recovery after stroke
 Sarah A. Moore (Newcastle Upon Tyne)

15:00 -15:30 Emerging innovations for targeting walking recovery after stroke
 Natalie Fini (Parkville)

14:00 –15:30 **Developing world forum 2**
Blending modern scientific advances and ancient healthcare traditions to deliver neuropsychiatric rehabilitation

Meeting room 19 & 20

Vorsitz/Chair Nirmal Surya (Mumbai)

Vorsitz/Chair Ennapadam Krishnamoorthy (Chennai)

14:00 -14:30 tba
 Ennapadam Krishnamoorthy (Chennai)

14:30 -15:00 tba
 Rema Raghu (Chennai)

15:00 -15:30

tba

Vivek Misra (Chennai)

14:00 –15:30

Oral communications 3

Meeting room 3

Vorsitz/Chair

David Good (Hershey, PA)

14:00 -14:09

Clinical and health outcomes after severe acquired brain injury: a prospective cohort study

Natasha A. Lannin (Melbourne)

14:09 -14:18

Understanding the barriers and facilitators of brain injury healthcare services: a qualitative study

Jasleen Grewal (Vancouver)

14:18 -14:27

Digital participation in traumatic brain injury: the results of a scoping review about assessment tools for computer mediated communication

Julia Buettner-Kunert (Munich)

14:27 -14:36

Exercise-induced symptom exacerbation in moderate-to-extremely severe traumatic brain injury

Gavin Williams (Richmond)

14:36 -14:45

Long-term follow-up of older adults with traumatic brain injury: preliminary results from the uppsala long-term outcome in older adults with traumatic brain injury study (U-LOTS)

Charlotta von Seth (Uppsala)

14:45 -14:54

Evidence-based review of randomized controlled trials of interventions for the management of behavioural issues in individuals with moderate to severe traumatic brain injury

Robert Teasell (London, Ontario)

14:54 -15:03

Exploring social support dynamics after traumatic brain injury: a mixed methods approach

Janna Griffioen (Vancouver)

- 15:03 -15:12 Identifying appropriate patients in acute care for a brain injury rehabilitation unit using a referral toolkit
 Scott Brolin (Port Moody), Andrew Dawson (Port Moody)
- 15:12 -15:21 Post-concussive headache: a retrospective review of 50 consecutive patient headache histories and physical exams supporting specific post-traumatic headache subtypes
 Nathan Zasler (Richmond, VA)

14:00 –15:30 **Symposium 10**
Implementation and clinical considerations in aquatic therapy for neurological rehabilitation

Meeting room 18

- Vorsitz/Chair Nirmal Surya (Mumbai)
- 14:00 -14:30 A critical appraisal of recent systematic reviews with meta-analysis in aquatic therapy for stroke patients, based on the importance of increased blood flow during aquatic therapy
 John Lambeck (Nijmegen)
- 14:30 -15:00 Practical aspects of implementing aquatic therapy in neurorehabilitation guidelines – key considerations, challenges and opportunities
 Brinda Merchant (Mumbai)
- 15:00 -15:30 Aquatic therapy and mechanism of action to enhance motor recovery and functional outcomes – transational research perspective
 Eugenia Hernández (Washington, DC)

14:00 –15:30 **Oral communications 4**

Meeting room 16

- Vorsitz/Chair Caterina Pistarini (Pavia)
- 14:00 -14:09 A systematic review of exoskeleton use in human spinal cord injury (SCI) rehabilitation and their impact on non-motor complications
 Ka loi Argus Chiu (London)

- 14:09 -14:18 Quantifying unilateral central facial palsy
 Jesper Fabricius (Hammel)
- 14:18 -14:27 Outcomes from virtual and in-person interdisciplinary mTBI rehabilitation:
 a pilot study
 Laura Graham (London, Ontario)
- 14:27 -14:36 Long-lasting efficacy of radial extracorporeal shock wave intervention
 and conventional rehabilitation through tele-rehabilitation strategies for
 stroke survivors
 Emanuela Elena Mihai (Bucharest)
- 14:36 -14:45 Combining a multidimensional dance-based rehabilitation program with a
 digital experience-based motivational support: the Dancerex
 Rehabilitation Experience Digital Therapeutics (DT-x)
 Olivia Realdon (Milan), Francesca Baglio (Milan)
- 14:45 -14:54 newro LOGICS© – Probably world's first rehab management software - is
 a customized ERP application software with sets of productivity programs
 for enhancing & optimizing functional recovery based on learnings from
 Artificial Neural Networks (ANN) to treat damaged Biological Neural
 Networks (BNN)
 Srinivasan Sharan (Bengaluru)
- 14:54 -15:03 Eye tracking of older people with executive and visuospatial function
 problems during balance training using non-immersive virtual reality
 Marcos Maldonado (Santiago)
- 15:03 -15:12 Efficacy of a new virtual reality-based serious game for the rehabilitation
 of unilateral neglect in patients with acquired brain injury
 Favre-Bulle Berenice (Lausanne)
- 15:12 -15:21 Telerehabilitation after stroke: pyramid review findings
 Kirsten Stangenberg-Gliss (Hildesheim)

14:00 –15:30

Industry sponsored workshop
Sealing the gaps: keeping patients engaged throughout the spasticity treatment journey

Meeting room 15

14:00 –15:30

SIG 7
Autonomic Neurorehabilitation

Meeting room 4

SIG Chair

Ellen Merete Hagen (Viborg)

14:00 –15:30

SIG 8
Cognitive Neurorehabilitation

Meeting room 5

SIG Chair

Stephanie Clarke (Lausanne)

15:45 –16:45

Plenary session 2

Plenary hall

15:45 -16:15

Predicting Motor Outcomes after Stroke: How and Why
Cathy Stinear (Auckland)

16:15 -16:40

The gut brain axis- it's all about the microbiome
Brett Finlay (Vancouver)

24.05.2024

17:00 –18:00

Symposium

WFNR Project on emulation of rehab hospital digitally

Plenary hall

Vorsitz/Chair

Volker Hömberg ()

17:00 -17:00

State oft the project report

Michael Kaldasch ()

17:00 –18:00

Oral communications 5

Meeting room 1

Vorsitz/Chair

Wayne Feng (Durham, NC)

17:00 -17:09

Dynamic changes in corticospinal tract morphology and motor recovery following stroke: a longitudinal diffusion tensor tractography study
 Jihee Park (Seoul)

17:09 -17:18

Impact of blood flow restriction on neuromotor control and proprioception using a robotic technology: insights from healthy adults and implications for Parkinson's disease
 Marco Invernizzi (Novara)

17:18 -17:27

Effect of tDCS concurrent with VR-based robot on hemiplegic upper limb function after ischemic stroke: a randomized controlled study
 Chuan Guo (Nan Jing), Ying Shen (Nan Jing), Tong Wang (Nan Jing)

17:27 -17:36

Effects of tDCS on neural markers of hierarchical auditory prediction in individuals with moderate to severe traumatic brain injury
 Gonzalo Rivera (Santiago)

17:36 -17:45

Efficacy of two-sites sequential repetitive transcranial magnetic stimulation to reduce neuropsychiatric symptomatology after cerebral lesions, a case report
 Gianna Carla Riccitelli (Lugano)

17:45 -17:54 Cortical activation for conversational question responses in individuals with post-stroke aphasia: a functional near-infrared spectroscopy (fNIRS) study
 Erin Carpenter (Boston, MA)

17:00 –18:00 Oral communications 6

Meeting room 8

Vorsitz/Chair Janice J. Eng (Vancouver)

17:00 -17:09 Simulating therapy-induced recovery in bilingual aphasia via computational modeling and machine learning approaches
 Erin Carpenter (Boston, MA)

17:09 -17:18 Boot camp: upper limb recovery for people with chronic stroke
 Brenton Hordacre (Adelaide)

17:18 -17:27 Cardiovascular exercise does not change corticospinal excitability and BDNF levels in subacute stroke
 Bernat de las Heras (Montreal)

17:27 -17:36 Aerobic exercise interventions for promoting cardiovascular health and mobility after stroke: a systematic review & Bayesian network meta-analysis
 Kevin Moncion (Hamilton)

17:36 -17:45 The taxonomy of "digital health interventions" and their sub-groups in the synchronous digital therapeutic rehabilitation of stroke patients – a scoping review
 Kirsten Stangenberg-Gliss (Hildesheim)

17:45 -17:54 Effect of a virtually-delivered behaviour change program that includes grasp feedback from a wearable device on upper limb activity after stroke: an RCT
 Janice J. Eng (Vancouver)

17:00 –18:00

Developing world session
Assistive technology the global need and challenges

Meeting room 19 & 20

Vorsitz/Chair

Rakesh Kumar Srivastava (New Delhi)

Vorsitz/Chair

Nirmal Surya (Mumbai)

17:00 -17:20

Creating assistive technology ecosystem in India: a model for developing country

Ravinder Singh (Mumbai)

17:20 -17:40

Low cost wearable technology initiation in India

Dheeraj Khurana (Chandigarh)

17:40 -18:00

Low cost virtual reality based neurorehabilitation

Sunil Narayan ()

17:00 –18:00

SIG 20
Neuropharmacology

Meeting room 4

Vorsitz/Chair

Dafin Muresanu (Cluj-Napoca)

18:15 –19:45

Round table 1
Teleneurorehabilitation from east to west: exchange of best practices

Plenary hall

Vorsitz/Chair

Carl Froilan Leochico (Toronto)

18:15 -18:30

Delivering best practice in language and communication rehabilitation via Telerehabilitation

Annie Hill (Morningside)

18:30 -18:45

Motor telerehabilitation: implications for practice

Paolo Tonin (Crotone)

18:45 -19:00	The Toronto Rehab telerehab toolkit and the safety of telerehab Meiqi Guo (Toronto)
19:00 -19:15	Concepts and challenges of swallowing avaluation and management from a distance Reynaldo Rey-Matias (Quezon City)
19:15 -19:30	Teleneurorehabilitation in a resource-limited country: challenges and recommendations Nirmal Surya (Mumbai)
19:30 -19:45	Round table discussion Meiqi Guo (Toronto), Annie Hill (Morningside), Reynaldo Rey-Matias (Quezon City), Nirmal Surya (Mumbai), Paolo Tonin (Crotone)

18:15 –19:45 Symposium 11
Transcranial direct current stimulation (tDCS) – is
there potential for moving the field forward?

Meeting room 1

Vorsitz/Chair	Sangeetha Madhavan (Chicago, IL)
18:15 -18:45	Current state of tDCS and innovations for stroke walking recovery Sangeetha Madhavan (Chicago, IL)
18:45 -19:15	Dosage issue of transcranial direct current stimulation for stroke recovery Wayne Feng (Durham, NC)
19:15 -19:45	Advancing clinical applications of tDCS by basic neuroscience research Marcus Meinzer (Greifswald)

18:15 –19:45

Symposium 12

Management of invisible disability in Multiple Sclerosis (submitted by Multiple Sclerosis SIG WFNR – in association with autonomic rehabilitation and cognitive neurorehabilitation SIG, WFNR)

Meeting room 8

Vorsitz/Chair

Abhishek Srivastava (Mumbai)

Vorsitz/Chair

Stephanie Clarke (Lausanne)

18:15 -18:37

Autonomic Dysfunction

Ellen Merete Hagen (Viborg)

18:37 -18:59

Fatigue

Abhishek Srivastava (Mumbai)

18:59 -19:21

Cognition and behavior

Stephanie Clarke (Lausanne)

19:21 -19:43

Pain

Marta Imamura (Sao Paulo)

18:15 –19:45

Symposium 13

Groundbreaking advances in the management of the acute to the refractory hemiplegic shoulder

Meeting room 2

Vorsitz/Chair

Paul Winston (Victoria)

Vorsitz/Chair

Eve Boissonnault (Montreal)

18:15 -18:37

Cryoneurolysis for the hemiplegic upper extremity

Paul Winston (Victoria)

18:37 -18:59

Percutaneous needle tenotomy for the spastic upper extremity

Romain David (Poitiers)

18:59 -19:21

Acute management of the hemiplegic shoulder

Eve Boissonnault (Montreal)

19:21 -19:43 Results of cryoneurolysis for the refractory spasticity in the spastic upper extremity
 Mahdis Hashemi (Victoria)

18:15 –19:45 Developing world forum 3
Leveraging simple robotic technology for clinical adoption and advancing rehabilitation research

Meeting room 19 & 20

Vorsitz/Chair John M. Solomon (Manipal)

Vorsitz/Chair Sivakumar Balasubramanian (Vellore)

18:15 -18:45 Innovations in sensorimotor rehabilitation: Making technology simpler, but not simplistic
 Alejandro Melendez-Calderon (Brisbane)

18:45 -19:15 Doing complex things with a simple hand robot
 Aravind Nehrujee (Madras)

19:15 -19:45 Routine clinical use of a simple hand robot: lessons learned & future prospects
 Dorcas Gandhi (Ludhiana)

18:15 –19:45 Oral communications 7

Meeting room 3

Vorsitz/Chair Noah D. Silverberg (Vancouver)

18:15 -18:24 Cognitive deficits in stroke rehabilitation – insights from indian physiotherapists
 Jennifer Valentina Austin Dsouza (Bangalore)

18:24 -18:33 Life after a severe stroke – outcomes at hospital discharge and after 3 months
 Katharina Stibrant Sunnerhagen (Gothenburg)

18:33 -18:42 Stroke disrupts structural connectivity of oculomotor cortical network
 Cristina Rubino (Vancouver)

- 18:42 -18:51 Bridging the gap: an updated review of translational stroke rehabilitation research
 Marie-Louise Bird (Launceston)
- 18:51 -19:00 White matter hyperintensities modify relationships between corticospinal tract damage and motor outcomes after stroke
 Jennifer Ferris (Vancouver)
- 19:00 -19:09 Functional profiles of 103,969 persons admitted for in-patient rehabilitation after a stroke over 14 years in Canada
 Adriana Venturini (Montreal)
- 19:09 -19:18 Evaluating neural mechanisms of Prism-based visuomotor adaptation
 Olufisayo Aloba (Atlanta, GA)
- 19:18 -19:27 Stroke inpatient rehabilitation environments: aligning building construction and clinical practice guidelines through care process mapping
 Juan Pablo Saa (Melbourne)
- 19:27 -19:36 Enhancing stroke inpatient rehabilitation environments: exploring design options and their impact on the stroke care process
 Juan Pablo Saa (Melbourne)
- 19:36 -19:45 International recommendations for early mobility training after mild-moderate intracerebral haemorrhage – outcomes from the Protocols for Early Mobility Training team (PEMTeam)
 Emily Ramage (Melbourne)

18:15 –19:45 Symposium 14
Need for community-based rehabilitation services after traumatic brain injury

Meeting room 18

Vorsitz/Chair Nada Andelic (Oslo)

18:15 -18:37 Unmet rehabilitation needs after traumatic brain injury across Europe
 Nada Andelic (Oslo)

- 18:37 -18:59 Traumatic brain injury in the chronic phase: needs and treatment options
 - a randomized controlled community-based intervention
 Silje Fure (Oslo)
- 18:59 -19:21 TBI rehabilitation: user experiences and unmet needs
 Emilie Howe (Oslo)
- 19:21 -19:43 How do we evaluate effective rehabilitation interventions and implement
 them in clinical practice - integrating the users perspectives and meet
 the TBI populations needs?
 Cecilie Røe (Oslo)

18:15 –19:45

Oral communications 8

Meeting room 16

- Vorsitz/Chair Nam-Jong Paik (Seoul)
- 18:15 -18:24 Discrepancy between upper limb capacity and performance after stroke:
 what is the impact of cognition?
 Janne Veerbeek (Lucerne)
- 18:24 -18:33 Lateropulsion resolution and outcomes up to one year post-stroke: a
 prospective, longitudinal cohort study
 Jessica Nolan (Fremantle)
- 18:33 -18:42 Cost-effectiveness analysis of the use of wearable robotic exoskeletons
 for rehabilitation post-stroke and spinal cord injury in Singapore
 Effie Chew (Singapore)
- 18:42 -18:51 Early sleep after action observation and motor imagery improves gait
 and balance abilities in older adults
 Federico Temporiti (Milan)
- 18:51 -19:00 Constraint induced therapy: lessons learned from 35 years of research
 development and future implications
 David Morris (Birmingham, AL)
- 19:00 -19:09 Intermittent theta burst stimulation modulates mirror visual feedback for
 hemiplegic upper limb recovery after stroke
 Kenneth Fong (Hong Kong)

19:09 -19:18	Increasing lateral weight shift may not improve biomechanics of walking after complex brain injury Simon Mills (Adelaide)
19:18 -19:27	Rehabilitation needs in patients with neuroinvasive West Nile Virus infection: a retrospective evaluation Maria Chiara Maccarone (Padua)
19:27 -19:36	Enhancing stroke recovery through transcutaneous auricular vagus nerve stimulation: a novel approach to improving walking and balance Ashraf Gerges (Adelaide)
19:36 -19:45	Bilateral proximal arm transplantation: functional results at three years Laure Huchon (Saint Genis Laval)

18:15 –19:45 Symposium 15

Neurorehabilitation in China

Meeting room 15

Vorsitz/Chair	Wayne Feng (Durham, NC)
Vorsitz/Chair	Haiqing Zheng (Guanghzou City)
18:15 -18:33	Respiratory rehabilitation for stroke patients Shan Jiang (Beijing)
18:33 -18:51	Physical therapy research for Spinal Cord Injury Quan Wei (Sichuan)
18:51 -19:09	Cognitive effects and brain function modulation of aerobic exercise in Alzheimer's disease and mild cognitive impairment Yi Zhu (Nanjing City)
19:09 -19:27	Neuroprotection of non-invasive neuromodulation for acute stroke patients: from basic research to clinical trial Zixiao Li (Beijing)
19:27 -19:45	The current status of Neurorehabilitation in China Haiqing Zheng (Guanghzou City)

18:15 –19:45

SIG 9

MAC: Measurement, Assessment and Classification

Meeting room 4

SIG Chair

Matilde Leonardi (Milan)

18:15 –19:45

SIG 10

Neurologic Music Therapy

Meeting room 5

SIG Chair

Michael Thaut (Toronto)

19:45 –21:00

Poster walk 1 & welcome reception

Exhibition hall A & B

19:45 -19:45

Embedding sexual health practice across the continuum of stroke rehabilitation

Amanda McIntyre (London, Ontario)

19:45 -19:45

Autonomic dysfunction and its complete correction with use of intrathecal autologous BMC (bone marrow concentrate with about 10% stem cells) + movement therapy + neuromodulation in 9 patients with spinal cord injury (SCI), 1 patient with M. Parkinson (MP) and 2 with cerebellar atrophy typ C (CA)

Jakob Bodziony (Lucerne)

19:45 -19:45

Modulating vascular responses during urodynamic assessment using transcutaneous spinal cord stimulation

Tiev Miller (Vancouver)

19:45 -19:45

Comparing vascular function in people with spinal cord injury and their able-bodied counterparts: a systematic review and meta-analysis

Tiev Miller (Vancouver)

19:45 -19:45	Development of an integrated digital twin model for monitoring and predicting therapy progress in neurological patients using ICF-based documentation and therapy devices data Gernot Greimler (Vienna)
19:45 -19:45	Extracting prognostic features from electronic medical records using named entity recognition algorithms for stroke outcome prediction Kit Ying Lew (Taipei)
19:45 -19:45	TBI and long-term outcomes; prevalence of depression after 10 years Rajiv Singh (Sheffield)
19:45 -19:45	Qualitative and quantitative investigation of stroke survivors' experience with, and attitude towards brain-controlled exoskeletons for motor rehabilitation Annalisa Colucci (Berlin)
19:45 -19:45	Brain computer interface treatment for lower extremity rehabilitation in stroke patients Marc Sebastian-Romagosa (Schiedlberg), Micah Ching (Vancouver)
19:45 -19:45	Collaborative design approach for upper limb rehabilitation after stroke using virtual reality and brain-computer interfaces Miguel Russo (Vila Franca de Xira)
19:45 -19:45	Nonverbal cognitive function influence on aphasia recovery after stroke Cho Rong Bae (Seoul)
19:45 -19:45	A virtual motor speech group for patients with progressive ataxia: evaluation of a pilot Rebecca Kimber (London)
19:45 -19:45	Does rehabilitation improve patient outcomes following COVID-19? Emma Reilly (Liverpool), Hanan Osman (Liverpool)
19:45 -19:45	Evaluation of the quality of current COVID-19 resources developed for individuals with spinal cord injuries: a scoping review Pegah Derakhshan (Vancouver)

- 19:45 -19:45 Efficacy of functional electrical stimulation cycling vs cycling after critical COVID-19: preliminary results of a randomized controlled trial
 Sébastien Mateo (Lyon)
- 19:45 -19:45 Lessons learned from functional electrical stimulation during cycling for rehabilitation of patients with long COVID-19 symptoms
 Sébastien Mateo (Lyon)
- 19:45 -19:45 Effectiveness of telerehabilitation in persons with spinal cord injury during the COVID-19 pandemic (TELE-SCOPE): a single-center, double-blind, randomized controlled trial
 Shiv Lal Yadav (New Delhi)
- 19:45 -19:45 A systematic review of observational studies addressing harms of pacing, CBT, and exercise for patients with ME/CFS
 Sarah Kirsh (Hamilton)
- 19:45 -19:45 NX210c drug candidate peptide improves motor function and prolongs survival in the SOD1G93A mouse model of amyotrophic lateral sclerosis
 Sighild Lemarchant (Lyon)
- 19:45 -19:45 Case report: prospective clinical characterization and progression of a patient with laminopathy undergoing targeted physical therapy
 Gonzalo Pino (Santiago)
- 19:45 -19:45 Student-led mall-walking program in older adults with dementia: a pilot study
 Kanika Bansal (Alliance, OH)
- 19:45 -19:45 Could different types of exercise have different cognitive and physical effects on dementia?
 İlkem Güzel (Ankara)
- 19:45 -19:45 Tocotrienol-rich fraction (TRF), a vitamin E for therapeutic supplementation of insulin resistance of type 2 diabetes mellitus (T2DM) associated with neurodegenerative diseases using a transcriptomic profiling approach
 Najwa Razip (Selangor)

- 19:45 -19:45 Phytochemicals as potential mitigators of degenerative diseases: a comprehensive review
 Tolulope Gbayisomore (Benin)
- 19:45 -19:45 Intravenous lidocaine in the treatment of sepsis-associated encephalopathy, a retrospective cohort study
 Feng Xiao (Changsha)
- 19:45 -19:45 Spasticity in patients with prolonged disorder of consciousness, a large single-centre prospective cohort study
 Nathalie Draulans (Tilburg)
- 19:45 -19:45 Defining self-awareness: a concept analysis of online awareness for adults with neurological conditions
 Danielle Sansonetti (Melbourne)
- 19:45 -19:45 Adherence to standardized assessments by physical therapists in stroke patients using a complexity-based model for categorizing rehabilitation (CMCR) at the Clínica Alemana Temuco, Chile
 Rodrigo Rivas (Temuco)
- 19:45 -19:45 ICF focused goal setting for inpatients attending rehabilitation medicine settings-introducing SMARTI3EM
 S M Javaid (Bristol)
- 19:45 -19:45 Clinical outcome following early decannulation of severe acquired brain injury patients: a retrospective cohort study
 Robbert-Jan van Hooff (Glostrup)
- 19:45 -19:45 Caregiver burden in children with epilepsy in Maharashtra, India: determinants and impact
 Nirmal Surya (Mumbai)
- 19:45 -19:45 Road traffic accidents among drivers with stroke or epilepsy: a Swedish nationwide study
 Hanna C. Persson (Gotheburg)
- 19:45 -19:45 Relationship of health condition and personal factors with the participation of adults with physical disabilities: analysis with structural equation modeling
 Ana Amélia Moraes Antunes (Belo Horizonte)

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| 19:45 -19:45 | Functional results of obturator neurectomy in 23 ambulatory and non-ambulatory adult subjects
Camille Cormier (Toulouse) |
| 19:45 -19:45 | Kinematic measures from mono-ocular camera-based pose estimation for the assessment of upper limb movement quality after stroke – a methods comparison study
Chris Easthope Awai (Vitznau) |
| 19:45 -19:45 | Efficacy of action observation therapy on gait and balance disorders: a systematic review and meta-analysis
Federico Temporiti (Milan) |
| 19:45 -19:45 | Effect of neuromuscular electric stimulation on gait speed and lower-extremity function of patients with stroke after botulin toxin injection: a randomized controlled trial
Giovanni Pegoraro (Brescia) |
| 19:45 -19:45 | Surface EMG clinical applications for neurorehabilitation
Javier Sánchez-Aguilar (Madrid), Daniel Jiménez Masa (Madrid) |
| 19:45 -19:45 | Measures used in physiotherapy assessment of people with neurological conditions in Australia: a national survey of clinical practice
Jill Garner (Adelaide) |
| 19:45 -19:45 | Co-creation of a danced version of the Graded Repetitive Arm Supplementary Program (GRASP) for stroke rehabilitation
Marika Demers (Montreal) |
| 19:45 -19:45 | Comparative study of transcranial direct current stimulation (tDCS) and Conventional Physiotherapy for motor recovery of upper extremity on ischemic stroke patients
Pintu Kumar (New Delhi) |
| 19:45 -19:45 | Effects of intensive impairment-oriented arm rehabilitation for chronic stroke survivors – an observational cohort study
Thomas Platz (Greifswald) |

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| 19:45 -19:45 | Steps to follow: developing a model for individualized self-training programs based on the Bobath concept towards personal goal achievement in people with chronic stroke
Gabriele Eckhardt (Haan) |
| 19:45 -19:45 | Investigating the impact of neurologic music therapy on motor performance and cascade effects in children with autism: a pilot study
Jessica Teich (Toronto) |
| 19:45 -19:45 | Dry Needling vs Botulinum Toxin Type A in the management of lower limb spasticity following stroke: a controlled proof-of-concept trial
Joy Khayat (Montreal) |
| 19:45 -19:45 | Upper limb kinematic measures of neurologic impairment using computer vision: a clinical feasibility case series
Justin Huber (Lexington, KY) |
| 19:45 -19:45 | Is protein supplement effective in promoting rehabilitative outcome in brain tumor patients?
Kye Hee Cho (Goyang) |
| 19:45 -19:45 | Observational assessment of movement quality in people with stroke – development and psychometric testing of a new scale
Margit Alt Murphy (Gothenburg) |
| 19:45 -19:45 | Identification of deficits in referent control variables during reaching movements in people with stroke
Marie-Reine El-Hage (Montreal) |
| 19:45 -19:45 | Enhancing upper extremity strength: blood flow restriction exercise for individuals with spinal cord injury
Mehdi Nouri Zadeh (Vancouver) |
| 19:45 -19:45 | A new hand rehabilitation robot: safety, accuracy and durability
Mitsuhiro Ochi (Kitakyushu) |
| 19:45 -19:45 | Intervention protocol to improve balance and gait in Miller Fisher syndrome – a case study
Rita Brandão (Cascais) |

- 19:45 -19:45 Empowering patients with chronic stroke using the MindMotion GO: a real-world high-dose home-training program to improve rehabilitation access
 Spencer Arbuckle (Lausanne)
- 19:45 -19:45 Evaluating the efficacy of pre and post epidural stimulation with the TYMO balance board on postural control and physiological function among chronic SCI patients: a case study
 Surbhi Kaura (Delhi), Shahiduz Zafar (Greater Noida)
- 19:45 -19:45 New ways of treatment for childhood autism: are we moving in correct direction?
 Taras Voloshyn (Lviv)
- 19:45 -19:45 Increased cortical activity during sensory reweighting of postural control in Parkinson's disease
 Hannes Devos (Kansas City, KS), Laurie Steen (Kansas City, KS)
- 19:45 -19:45 MSCanRehab: accelerating Multiple Sclerosis rehabilitation research and care through a multi-site multidisciplinary collaborative network
 Sarah J Donkers (Saskatoon)
- 19:45 -19:45 Building bridges between evidence and practice: establishing a Canadian Multiple Sclerosis (MS) rehabilitation knowledge mobilization strategy
 Sarah J Donkers (Saskatoon)
- 19:45 -19:45 Results from a 6-month extension study for individualized physiotherapy and physical activity behavioural coaching in multiple sclerosis (IPAC-MS)
 Kyra Ives (Vancouver)
- 19:45 -19:45 Tailored follow-up for persons with multiple sclerosis to optimize physical functions, health and employment: a prospective single-blinded randomized controlled trial. A protocol
 Britt Normann (Bodø)
- 19:45 -19:45 Female issues faced by women with multiple sclerosis
 Avni Khandelwal (Winnipeg)
- 19:45 -19:45 Effects of fatigue on motor skill acquisition in people with multiple sclerosis
 Eduardo A. Toledo-Aldana (Regina)

- 19:45 -19:45 Pulsed high-frequency stochastic color light stimulation improves visual acuity in patients with optic neuritis
 Peter Rieckmann (Bischofswiesen)
- 19:45 -19:45 Dynamics of visual-spatial search in patients with neglect syndrome after two types of group-based rehabilitation
 Georgiy Stepanov (Moscow), Daria Yurina (Moscow)
- 19:45 -19:45 Resting-state functional MRI and motion analysis characteristics in patients with isolated REM sleep behavior disorder
 Elisabetta Sarasso (Milan)
- 19:45 -19:45 Neuroimaging indicators of post-stroke spasticity
 Katharine A. Scarlat (Montreal)
- 19:45 -19:45 Triadic and dyadic taxonomy of body representation: an analysis of brain mapping studies
 Hugo Santos (Cascais)
- 19:45 -19:45 Correlation between cortical excitability and functional changes after combined bilateral neuromodulation therapies in stroke patients
 Francisco José Sánchez Cuesta (Pozuelo de Alarcón)
- 19:45 -19:45 Observational practice enhances learning of a novel bimanual action when compared with tDCS over primary motor cortex: new evidence from brain causal connectivity and behaviour
 Julianne McLeod (Vancouver), Naznin Virji-Babul (Vancouver)
- 19:45 -19:45 Neurorehabilitation with photobiomodulation, focusing on traumatic brain injury
 Lew Lim (Toronto)
- 19:45 -19:45 Moderate intensity exercise to increase neuroplasticity in chronic stroke
 Brenton Hordacre (Adelaide)
- 19:45 -19:45 Impact of electric field magnitude in the left DLPFC to changes in intrinsic functional connectivity by transcranial direct current stimulation
 Eunkyung Kim (Seoul)

19:45 -19:45	Variation of corticospinal excitability during kinesthetic illusion induced by musculotendinous vibration Lydiane Lauzier (Saguenay)
19:45 -19:45	The effect of sensory-based priming technique using repetitive peripheral magnetic stimulation on corticomotor excitability in neurologically healthy individuals Rehab Aljuhni (Riyadh)
19:45 -19:45	Additional effects of sequential cerebellar rTMS on inhibitory rTMS over M1 in stroke patients Sungwon Kim (Seoul)
19:45 -19:45	Microvascular decompression to ditch the twitch: a case report of hemifacial spasm in acute rehabilitation Alicia Roldan (New York, NY)
19:45 -19:45	Predicting rehabilitation outcomes in patients with Guillain-Barré syndrome (GBS) using the Early Rehabilitation Barthel Index (ERBI) – results from a German retrospective study Annette Schmidt (Witten)
19:45 -19:45	Objective assessment of muscle fatigue in the back and lower extremities in adult spinal deformity patients before and after spinal correction surgery Mikio Muraoka (Niigata)
19:45 -19:45	Relationship between laboratory findings and polyneuropathy in haemodialysis patients Pinar Doruk Analan (Çukurova)
19:45 -19:45	The use of alcohol neurolysis for management of upper limb spasticity in patient with amyotrophic lateral sclerosis Yee Ee Ooi (Singapore)
19:45 -19:45	Determining the corticospinal, intracortical and motor function responses to transcranial alternating current stimulation of the motor cortex in healthy adults: a systematic review and meta-analysis Mohamad Rostami (Melbourne)

19:45 -19:45	Acute arm cycling effects on response to lower limb spinal paired associative stimulation Amir Yahya Rajaei (Regina)
19:45 -19:45	Vestibular-evoked balance responses adapt with repeated exposure to height-related postural threat Solenne Villemer (Vancouver)
19:45 -19:45	Adding cognitive and psychological assessment for patients with Cerebral Amyloid Angiopathy Matilde Leonardi (Milan)
19:45 -19:45	Anxiety and depression predict the overall disability, independently from the Expanded Disability Status Scale, in patients with Multiple Sclerosis Matilde Leonardi (Milan)
19:45 -19:45	Take Charge After Stroke (TACAS): a process evaluation of implementation in a stroke support service Felicity Bright (Auckland)
19:45 -19:45	The screening visual complaints-acquired brain injury questionnaire (SVC-ABI): confirmatory factor analysis and clinical utility Vera Linde Dol (Groningen)
19:45 -19:45	Acuhypno: a new therapeutic approach in rehabilitation Jessika Sheppy (Sheffield)
19:45 -19:45	A systematic review of rehabilitation programs for cancer related cognitive impairment: different programs at different times? Marianne Merceur (Rennes)
19:45 -19:45	Interplay of motor learning and spatial memory: a cognitive perspective Enzo Soto Espinoza (Santiago)
19:45 -19:45	Experiences of cognitive behavioral therapy for functional cognitive disorder after concussion Rinni Mamman (Vancouver)
19:45 -19:45	The CAREPa-Re [®] framework for rebooting the brain [®] – clinical reasoning and management in functional neurosciences Srinivasan Sharan (Bengaluru)

19:45 -19:45	Introducing the REHABABILITY INDEX (RI) – the neurorehabilitation astrologer Srinivasan Sharan (Bengaluru)
19:45 -19:45	Adaptive gait stimulation algorithm for central neurological conditions. Steps towards a more ecological adoption Juan Pablo Appelgren Gonzalez (Santiago), Felipe Covarrubias Escudero (Santiago)
19:45 -19:45	Unveiling mobility hurdles: a comprehensive analysis of stroke survivors in india using the mobility disability scale Jennifer Valentina Austin Dsouza (Bangalore)
19:45 -19:45	Rhythm interactive special enablers (R.I.S.E) – a collaborative community engagement program Wen Fen Beh (Kuala Lumpur)
19:45 -19:45	Effect of functional electrical stimulation on neuromechanic variables during gait in persons with stroke Gonzalo Varas (Santiago)
19:45 -19:45	Stroke neurorehabilitation in Angola: a demand for a path Lourenço Jose (Luanda)
19:45 -19:45	Mathematical modeling and statistical analysis in neurorehabilitation: a path towards enhanced recovery Oluwafemi Lawson (Abule Egba)
19:45 -19:45	Practice of integrated treatment in the management of stroke Sakkariya K.N (Edappal)
19:45 -19:45	The outpatient rehabilitation setting in the multidisciplinary care of the patient with glioblastoma undergoing neurosurgery Federica Gottardello (Treviso)
19:45 -19:45	Changes in health-related quality of life among patients with stroke in the first months after discharge from hospital to home – a longitudinal cohort study Iris Charlotte Brunner (Aarhus)

- 19:45 -19:45 Clinical upper limb outcome measures and sensor-based arm use metrics: Concurrent validity and responsiveness across recovery phases after stroke
 Janne Veerbeek (Lucerne)
- 19:45 -19:45 Unlocking rehabilitation insights: designing a data dashboard for quantitative analysis of rehabilitation activity data
 Penny Trayner (Manchester)
- 19:45 -19:45 Recovery rates of Berg Balance Scale in stroke patients. A retrospective study
 Daniel Arturo Castillo Gallardo (Madrid)
- 19:45 -19:45 Inter and intra-rater reliability of the gross motor function classification system applied by physical therapy students
 Lucía Flores (Quito)
- 19:45 -19:45 Transcranial direct current stimulation (tDCS) in individuals with severe craniobrain injury in the subacute phase: feasibility study
 Yohana Rodrigues Antunes (Vitória)
- 19:45 -19:45 Testing sensorimotor processing with tendon vibration and transcranial magnetic stimulation in subacromial impingement syndrome
 Émilie Bouchard (Chicoutimi)
- 19:45 -19:45 Test-retest reliability of a new qualitative pain assessment model: preliminary results of the WORDSforPAIN project
 Mario De Marco (Florence)
- 19:45 -19:45 Practice approaches of physical therapists in managing psychosocial problems in people with Parkinson's disease
 Adetayo Babarinde (Henderson, NV)
- 19:45 -19:45 Temporal coordination of head, trunk, and feet during 360-degree turning in Parkinson's disease
 Pablo Burgos (Portland, OR)
- 19:45 -19:45 Domain-specific and global changes in King's Parkinson's Pain Scale (KPPS) after Transcranial Direct Current Stimulation (TDCS) over M1 in Parkinson's disease patients
 Yeray González Zamorano (Madrid)

19:45 -19:45	Prevalence of non-motor symptoms in Brazilians with Parkinson's disease Filipe Lopes (Belo Horizonte)
19:45 -19:45	The protective role of cardio-respiratory fitness in Parkinson's disease Jacopo Cristini (Montreal)
19:45 -19:45	Investigation of deviations in aging trajectories across difference brain regions in Parkinson's disease Jun-Ding Zhu (Taipei)
19:45 -19:45	Physiotherapy after Subthalamic Nucleus Deep Brain Stimulation in patients with Parkinson's disease: a Delphi consensus study on safety and efficacy Matteo Guidetti (Milan)
19:45 -19:45	Assessing patient recognition of symptoms and knowledge about Parkinson's disease at Hospital Canselor Tuanku Muhriz Siti Hajar Mat Desa (Bandar Tun Razak)
19:45 -19:45	Effect of action observation therapy on motor function in children with cerebral palsy: a systematic review of randomized controlled trials with meta-analysis Ahmed Hendawy (Giza)
19:45 -19:45	Journey of a five year old from hypoxic ischaemic encephalopathy sequelae to home Madhusree Sengupta (Kolkata)
19:45 -19:45	Effectiveness comparison of therapist-based and Kinect-based bimanual intensive training on upper limbs kinematics in children with unilateral cerebral palsy Ching-Wei Ye (Taipei)
19:45 -19:45	Neurocognitive functioning in paediatric cancer: a scoping review Harshal Dixit (Mumbai)
19:45 -19:45	Gluthatione's influence on gene expression in children with autism spectrum disorder Marina Indriasari (Bogor)

19:45 -19:45	Exploring hypoxic and ischemic brain injury: observational insights and treatment approaches in indian children with cerebral palsy Priya Kapoor (Pune)
19:45 -19:45	Effectiveness of the intensive and distributed bilateral intensive training for children with unilateral cerebral palsy Zhi-Chi Weng (Taipei)
19:45 -19:45	Does the intramuscular injection of Botulinum Neurotoxin-A induce muscular weakness in adult-onset neurological patients with focal spasticity? A systematic review Gavin Williams (Richmond)
19:45 -19:45	Network analysis of drawing behavior facilitates the detection of perceptual atypicalities in mothers of autistic children Pariya Parchini (Edmonton)
19:45 -19:45	Evaluation of an interactive educational workshop on knowledge and understanding of mental capacity, mental health and medico-legal aspects in relation to the legal system in Bangladesh and a comparison with UK statutory laws for disability Mohamed Sakel (Canterbury)
19:45 -19:45	Optimising self-efficacy and self-management during interactions within community rehabilitation and support services for people with progressive neurological conditions Katherine Jackson (Durham)
19:45 -19:45	Overview of randomized controlled trials of moderate to severe traumatic brain injury: a systematic review Robert Teasell (London, Ontario)
19:45 -19:45	Sex differences in individuals enrolled in randomized controlled trials of moderate to severe traumatic brain injury Robert Teasell (London, Ontario)
19:45 -19:45	Effects of transsectoral long-term neurorehabilitation for patients with acquired brain injury Christian Dohle (Berlin)

- 19:45 -19:45 Determinants of implementation of an overground powered exoskeleton locomotor training program for individuals with a spinal cord injury: perceptions of clinicians and managers
 Caroline Charette (Québec)
- 19:45 -19:45 Enhancing recovery in stroke patients through robotic-assisted therapy
 Fathima P.V (Edappal)
- 19:45 -19:45 Development of a soft/rigid hybrid exoskeletal upper-limb rehabilitation robot system for patients with stroke: a result of pilot usability test
 Ji Soo Choi (Seongnam-si)
- 19:45 -19:45 Effects of a technology-assisted and task-oriented arm-hand training (ReHab-TOAT) in chronic stroke: a randomized controlled clinical trial
 Jule Elmanowski (Hoensbroek), Richard Geers (Hoensbroek)
- 19:45 -19:45 Living with spasticity during the COVID-19 pandemic. A qualitative study of patient, carer and physician experiences
 Karen Saunders (Canterbury)
- 19:45 -19:45 Intervention based on FES and splinting for treating the non-neural hyper-resistance of the hand joints in a person with incomplete spinal cord injury
 Aitor Martín-Odriozola (Donostia-San Sebastián)
- 19:45 -19:45 Diagnostic nerve blocks. A retrospective analysis of 2020-2022
 Stefano Carda (Lausanne)
- 19:45 -19:45 A retrospective cohort analysis of cryoneurolysis for upper extremity spasticity in patients with cerebral palsy
 Fraser MacRae (London, Ontario), Paul Winston (Victoria)
- 19:45 -19:45 Repeated Botulinum toxin A injections for a period of two years in stroke patients - effect on muscle stiffness, goal attainment and functional outcome
 Jelena Simic (Bjørnemyr)
- 19:45 -19:45 Cryoneurolysis and quadriplegia: a case report on pain and spasticity management
 Laura Schatz (North Vancouver)

- 19:45 -19:45 An innovative approach to treating spastic and contractures shoulder: combining percutaneous cryoneurolysis and percutaneous needle tenotomy. A case series
 Paul Winston (Victoria)
- 19:45 -19:45 Reduction of lower limbs spasticity after suppression of intravesical noxious stimulus evidenced by gait analysis
 Shams Ribault (Lyon)
- 19:45 -19:45 The role of the corticospinal pathway in the recovery of voluntary movement with epidural spinal cord stimulation in individuals with chronic, severe spinal cord injury
 Jessica D'Amico (Edmonton)
- 19:45 -19:45 A case of spinal cord injury secondary to spontaneous intracranial hypotension
 Deepali Bang (Singapore)
- 19:45 -19:45 Experiences and perceptions of yoga from people with spinal cord injury, yoga therapists and clinicians
 Himani Prajapati (Vancouver)
- 19:45 -19:45 Autonomic dysreflexia exacerbates bone loss after spinal cord injury in rats
 Nan Liu (Beijing)
- 19:45 -19:45 Life-changing diagnosis: patients' perspective on the prognosis disclosure of SCI
 Elia Zanin (Motta di Livenza)
- 19:45 -19:45 Dysreflexic dilemma: do we need a revised definition for autonomic dysreflexia?
 Vera-Ellen Lucci (Burnaby)
- 19:45 -19:45 Peripheral mechanism of stroke rehabilitation
 Guomeng Wan (Nanjing City)
- 19:45 -19:45 Female enrollment in randomized controlled trials of post stroke lower extremity rehabilitation over 50 years
 Sarvenaz Mehrabi (London, Ontario), Mohamad Safaei Qomi (London, Ontario)

19:45 -19:45	Interventions to change movement behaviors after stroke: a systematic review and meta-analysis Ana Flávia Silveira (Sao Carlos)
19:45 -19:45	Adrift in space: gaps in assessing proprioception after stroke David Kennedy (Victoria)
19:45 -19:45	Assessing stroke rehabilitation guidelines in LMICs – a systematic review of quality and scope Dorcas Gandhi (Ludhiana)
19:45 -19:45	Characterization and understanding of the mechanisms of balance disorders in a seated position following a stroke Isabelle Bonan (Rennes)
19:45 -19:45	A study on genetic polymorphism affecting short-term functional outcomes in acute stroke patients Min Wook Kim (Seoul)
19:45 -19:45	Exploring the feasibility of speed as an intensity measure in post-stroke high-intensity treadmill training Aditi Doshi (Chicago, IL)
19:45 -19:45	SocialBit: A novel smartwatch sensor to detect social interaction frequency in stroke survivors Amar Dhand (Boston, MA)
19:45 -19:45	Measuring flow experience during therapy in neurorehabilitation – the flow state scale for rehabilitation tasks: a new flow experience questionnaire for stroke patients Beatrice Ottiger (Lucerne)
19:45 -19:45	The association of interlimb coordination and temporal symmetry with walking function and motor impairment after stroke Brice Cleland (Chicago, IL)
19:45 -19:45	Vagus nerve stimulation paired with upper limb rehabilitation using the Vivistim System® in a home environment: preliminary findings from a post-market study Cecilia Prudente (Minneapolis, MN)

- 19:45 -19:45 The effect of robot-assisted therapy combined with mirror therapy on motor and daily functions, and self-efficacy in stroke
 Ching-Yi Wu (Taoyuan City)
- 19:45 -19:45 Can 3DfUS reliably measure Tibialis Anterior Muscle Echo-intensity in stroke patients and healthy controls?
 Fabienne Schillebeeckx (Leuven)
- 19:45 -19:45 The setting of high intensity targets results in improved functional and locomotor outcomes for inpatient stroke rehabilitation
 Faye Bronstein (New York, NY)
- 19:45 -19:45 Effects of Robot-assistED rehabilitation vs occupational therapy on the Recovery of funCTion of the upper limb after a Stroke (REDIRECT): a randomized controlled study protocol and preliminary data
 Francesca Cecchi (Florence)
- 19:45 -19:45 The lifetime of a walk: survival curve analysis of walking patterns after stroke
 George Fulk (Atlanta, GA)
- 19:45 -19:45 Self-reported sleep disturbances more than one year after stroke and its determinants
 Hanna Nilsson (Lund)
- 19:45 -19:45 Exercising, Socialising and Thinking: Environmental Enrichment Model (ESTEEM) in a community setting after stroke – results from a pilot study
 Heidi Janssen (New Lambton Heights)
- 19:45 -19:45 Effect of chronic physical exercise prior a stroke on acquired morphological damage and functional impairments in an animal model
 Javier Silva-García (Santiago)
- 19:45 -19:45 Factors related to prognosis after rehabilitation for stroke following cardiac surgery
 Joon Hee Lee (Seoul-Si)
- 19:45 -19:45 Examining sex differences in relationships between subjective and objective measures of upper extremity motor impairment in a sample of stroke survivors
 Julia Dahlby (Vancouver)

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| 19:45 -19:45 | Effects of handrail use during treadmill walking on abnormal gait patterns and spatiotemporal parameters in patients with hemiparesis
Kei Ohtsuka (Aichi) |
| 19:45 -19:45 | Capacity of the paretic upper extremity in unimanual vs. bimanual tasks and its relationship with daily life use after stroke
Léandre Gagné-Pelletier (Québec) |
| 19:45 -19:45 | Self-reported physical activity and determinants in people after mild to moderate stroke
Maria Kähler (Lund) |
| 19:45 -19:45 | Motor and neurophysiological changes after ischemic conditioning in individuals with chronic stroke: a pilot trial
Mark Cummings (Chicago, IL) |
| 19:45 -19:45 | Intravenous cerebrolysin concentrate for post-stroke oral apraxia: case reports
Minsong Kim (Incheon) |
| 19:45 -19:45 | Standardized assessment tools in clinical practice guidelines for stroke rehabilitation worldwide: a scoping review
Nancy Salbach (Toronto) |
| 19:45 -19:45 | Testing the association between upper-limb motor impairment and motor imagery-related brain activation after stroke
Sara Klick (Kelowna) |
| 19:45 -19:45 | Value-based partnering with consumers and clinicians to co-design a cardiorespiratory exercise program for non-ambulatory stroke survivors: a qualitative study
Sharon Kramer (Melbourne) |
| 19:45 -19:45 | Exploring the link between post-stroke depression and walking speed in adults with chronic stroke
Shravni Deshmukh (Chicago, IL) |

- 19:45 -19:45 Case study to demonstrate that significant progress can be achieved in movement rehabilitation in brain injury patients in the chronic phase of recovery and up to 12 years post injury
 Steve Cairns (Bristol)
- 19:45 -19:45 A novel threshold matrix framework to quantify post-stroke neurophysiological recovery
 Winston Byblow (Auckland)
- 19:45 -19:45 One year evaluation of functional results of intensive day rehabilitation programme using CIMT
 Yvona Angerová (Prague)
- 19:45 -19:45 Effect of physical exercise on falls in people with stroke: a systematic review and meta-analysis
 Marco Pang (Hong Kong)
- 19:45 -19:45 Understanding the prevalence of and factors influencing fatigue in stroke survivors in Singapore
 Pei Ling Choo (Singapore)
- 19:45 -19:45 Exercise preconditioning protects autophagy-lysosomal pathway via lung-derived FNIP1 in acute ischemic stroke
 Xiaofeng Yang (Guangzhou City)
- 19:45 -19:45 Development and validation of FEES tutorial for students of speech-language pathology in India
 Tanvi Sanghavi (Mumbai)
- 19:45 -19:45 Use of rTMS and tDCS improves swallowing in a brainstem stroke patient with cricopharyngeal spasm: a case study
 Tanvi Sanghavi (Mumbai)
- 19:45 -19:45 Understanding the Implications of Single-use Rhinolaryngoscopes for FEES Procedures on SLP Workflow
 Ian Haislip (Columbia, MD)
- 19:45 -19:45 Validity of the swallowing disturbance questionnaire for assessing dysphagia severity in Parkinson's disease
 Urey Lee (Seoul)

- 19:45 -19:45 Integrating artificial intelligence for enhanced data management in neurological patient care
 Hitav Someshwar (Mumbai)
- 19:45 -19:45 Teleneurorehabilitation program (virtual reality) for patients with balance disorders: descriptive study
 Marcos Maldonado (Santiago)
- 19:45 -19:45 Speech analysis in people with apraxia: using neural networks in speech therapy to create Appraxi®
 Marta Lira-Batista (Teresina), Rogério da Silva Batista (Teresina)
- 19:45 -19:45 Artificial Intelligence and personalized speech rehabilitation after stroke: Appraxi® is born
 Marta Lira-Batista (Teresina)
- 19:45 -19:45 Balance telerehabilitation for people with Parkinson's disease: the TelePD trial
 Carla Silva-Batista (Portland, OR)
- 19:45 -19:45 A qualitative study of individuals with acquired brain injury and program facilitators experiences in virtual ABI community support programs
 Jasleen Grewal (Vancouver)
- 19:45 -19:45 Clinical efficacy of cognitive stimulation in aged subjects with mild and moderate cognitive impairment
 Loris Pignolo (Crotone)
- 19:45 -19:45 Understanding physical therapists' perspectives and attitudes towards artificial intelligence in healthcare and rehabilitation: qualitative study
 Mashael Alsobhi (Jeddah)
- 19:45 -19:45 Improving neuro telerehabilitation accessibility and features: OpenTera, an open-source software platform
 Simon Briere (Sherbrooke)
- 19:45 -19:45 An automated assessment based on deep learning pose estimation technology for upper extremity motor function following stroke
 Yung-Hsu Chang (Taoyuan)

- 19:45 -19:45 Are you doing the best to care for people after they have sustained a traumatic brain injury (TBI)? How Living Clinical Practice Guidelines ensure best practice care and resources are at your fingertips
 Mark Bayley (Toronto)
- 19:45 -19:45 Development of the first clinical practice guideline for intimacy and sexuality following moderate to severe traumatic brain injury (INTIMASY-TBI)
 Mark Bayley (Toronto)
- 19:45 -19:45 Demonstrating that inpatient rehabilitation following acquired brain injury provides value for money. Adaptation of the UK cost-efficiency model for Australia
 Natasha A. Lannin (Melbourne)
- 19:45 -19:45 Post-traumatic brain injury psychosis and the role of an interdisciplinary brain medicine clinic: a case report
 Carl Froilan Leochico (Toronto)
- 19:45 -19:45 Early neuro-rehabilitation in traumatic brain injury: the need for an African perspective
 Franklin Chu Buh (Buea)
- 19:45 -19:45 Predictor of long-term functional outcome after severe traumatic brain injury
 Marcela Barçante (Vila Velha)
- 19:45 -19:45 Hemispheric hyperfunction syndromes post traumatic brain injury
 Michael Hoffmann (Orlando, FL)
- 19:45 -19:45 Fingolimod protects against inflammation by inhibiting NF- κ B signaling pathway after traumatic brain injury in mice
 Song Seok Young (Seoul)
- 19:45 -19:45 Bilateral parietal cortex activation in stroke patients with unilateral spatial neglect during virtual prism adaptation
 Won-Seok Kim (Seongnam-si)
- 19:45 -19:45 Development of a behavioural biomarker for cognitive impairment through navigation experiments
 Afsoon Gharib Mombeini (Vancouver)

19:45 -19:45	Effects of virtual reality game-based exercise on functional fitness in community-dwelling elderly adults Chueh-Ho Lin (Yunlin)
19:45 -19:45	Virtual reality navigation serious game for spatial orientation training of people living with Alzheimer's Rashmita Chatterjee (Winnipeg)
19:45 -19:45	A case report of a stroke patient with moderate hemiplegia who underwent upper extremity functional training using an immersive virtual reality device Yuki Uchiyama (Nishinomiya)
19:45 -19:45	Development and content validation of the Pediatric Dizziness Index (PDI) Devashish Tiwari (Boston)
19:45 -19:45	Recognising syndrome of the trephined in neurorehabilitation: a case series Siew Kwaon Joyce Lui (Singapore)
19:45 -19:45	ADL+: A novel ai-driven approach to prevent cognitive decline in older adults Qiu Yang (Singapore)
19:45 -19:45	Development of a prehabilitation approach for surgeries in pediatric patients with cerebral palsy Samantha Horne (Halifax)
19:45 -19:45	Repetitive peripheral magnetic stimulation in a traumatic spinal cord injury patient with cervical radiculopathy – a case report H. Y. Hsu (Hualien)
19:45 -19:45	Artificial intelligence powered functional electrical stimulation walking for gait rehabilitation after stroke Ehsan Jafari (Lyon)
19:45 -19:45	Advancing stroke rehabilitation: adding home exercises with functional electrical stimulation on off-clinical days to boost functional gains Rudri Purohit (Chicago, IL)

08:30 –10:00

Round table 2

Mentoring matters: importance of female mentorship in neurorehabilitation

Plenary hall

Vorsitz/Chair

Sangeetha Madhavan (Chicago, IL)

08:30 -08:55

Mentor-mentee relationships: how to maximize both roles

Sangeetha Madhavan (Chicago, IL)

08:55 -09:20

Setting priorities - getting the most out of mentoring sessions

Jyutika Mehta (Dallas, TX)

09:20 -09:45

Is there a gender approach in rehabilitation of neurological disabilities?

Caterina Pistarini (Pavia)

09:45 -10:00

Round table discussion

Sangeetha Madhavan (Chicago, IL), Caterina Pistarini (Pavia), Jyutika Mehta (Dallas, TX)

08:30 –10:00

Symposium 16

Connectome based neuromodulation coupled with intensive training to induce prehabilitation before neurosurgery: one step further in oncological neurorehabilitation

Meeting room 1

Vorsitz/Chair

Josep María Tormos Muñoz (Valencia)

Vorsitz/Chair

Gloria Villalba Martínez (Barcelona)

08:30 -09:00

Feasibility and efficacy of neuromodulation-induced cortical prehabilitation to leverage neuroplastic changes before neurosurgery for brain tumours

Leonardo Boccuni (Barcelona)

09:00 -09:30

Plasticity of the language system prior brain surgery: neuroimaging insights from the Prehabilita project

Kilian Abellaneda-Perez (Barcelona)

09:30 -10:00 Meta-networks and emotions: One step further in awake cognitive mapping
 Jesús Martín-Fernández (Montpellier)

08:30 –10:00 Symposium 17
Neurogenic supine hypertension and cardiovascular autonomic dysfunction in patients with Parkinson's disease

Meeting room 8

Vorsitz/Chair Rajinder K. Dhamija (New Delhi)

Vorsitz/Chair Ellen Merete Hagen (Viborg)

08:30 -09:00 Neurogenic supine hypertension and cardiovascular autonomic dysfunction in patients with Parkinson's
 Rajinder K. Dhamija (New Delhi)

09:00 -09:30 Management of cardiovascular autonomic dysfunction in movement disorders
 Andrei Krassioukov (Vancouver)

09:30 -10:00 Management of orthostatic hypotension and supine hypertension in movement disorders
 Ellen Merete Hagen (Viborg)

08:30 –10:00 Symposium 18
Behavioral stroke biomarkers: a window into recovery variability

Meeting room 2

Vorsitz/Chair Mindy Levin (Montreal)

08:30 -08:52 Tonic stretch reflex threshold as a biomarker of stroke recovery and tailor for interventions
 Mindy Levin (Montreal)

- 08:52 -09:14 Do neuroimaging biomarkers predict effects of transcranial direct current stimulation on upper limb reaching performance?
 Joyce L Chen (Toronto)
- 09:14 -09:36 Sensorimotor biomarkers to distinguish between motor compensation and recovery
 Daniele Piscitelli (Storrs, CT)
- 09:36 -09:58 Motion impairment assessment using stochastic models
 Sigal Berman (Be'er Scheva)

08:30 –10:00 **Symposium 19**
Spatial neglect care from neuroscience to occupational therapy practice using prism adaptation treatment

Meeting room 19 & 20

- Vorsitz/Chair Peii Chen (West Orange, NJ)
- 08:30 -08:40 Introduction of Spatial Neglect
 Peii Chen (West Orange, NJ)
- 08:40 -09:05 Mechanisms of prism adaptation
 Jasmine Aziz (Halifax)
- 09:05 -09:35 Clinical implementation of prism adaptation treatment
 Kimberly Hreha (Durham, NC)
- 09:35 -10:00 Beneficial impacts of prism adaptation treatment in patients with left-sided and right-sided spatial neglect
 Timothy Rich (West Orange, NJ)

08:30 –10:00 **Joint symposium 1**
ISPRM joint symposium

Meeting room 3

- Vorsitz/Chair Gerard Francisco (Houston, TX)
- Vorsitz/Chair Rajiv Reebye (Vancouver)

08:30 -08:52	tba Rajiv Reebye (Vancouver)
08:52 -09:14	tba Jörg Wissel (Berlin)
09:14 -09:36	tba Franco Molteni (Costa Masnaga)
09:36 -09:58	tba Gerard Francisco (Houston, TX)

08:30 –10:00

Best of orals 1

Meeting room 18

Vorsitz/Chair	Volker Hömberg ()
08:30 -08:39	Development of a multi-sensor approach to examine heart rate response to free-living walking: a launch point to clinical application F. Elizabeth Godkin (Waterloo)
08:39 -08:48	Investigating the user experiences of stroke survivors and physiotherapists with an omnidirectional treadmill-based virtual reality rehabilitation game: protocol for a mixed-methods feasibility study Adria Quigley (Halifax)
08:48 -08:57	iAssessments: a user-friendly digital ecosystem of clinical assessments for neurorehabilitation Chris Easthope Awai (Vitznau)
08:57 -09:06	Telehealth self-management support in early stroke rehabilitation: a feasibility randomized controlled trial Danbi Lee (Seattle, WA)
09:06 -09:15	The use of markerless motion capture (MMC) system and machine learning for kinematic assessment in patients with stroke Wing Tung Lam (Hong Kong)

09:15 -09:24	Adaptation of emotional state and standing balance measures after repeated exposure to a virtual postural threat during quiet standing Xiangwei Zhang (Vancouver)
09:24 -09:33	Examining the validity of wrist-based heart rate monitor across different skin tones Stanley Hung (Vancouver)
09:33 -09:42	Therapists and stroke patients' perspectives on videoconferencing and computer devices for delivery of virtual rehabilitation Isabelle Rash (Vancouver)
09:42 -09:51	Factors influencing stroke survivor experiences and adherence to telehealth delivery of constraint induced movement therapy programs: the ReCITE study Lauren Christie (Darlinghurst)
09:51 -10:00	TATheN – Remote physiotherapy, occupational, and speech and language therapy in acute stroke patients Kirsten Stangenberg-Gliss (Hildesheim)

08:30 –10:00 Symposium 20

Neuromodulation and neural plasticity

Meeting room 16

Vorsitz/Chair	Toshiyuki Fujiwara (Tokyo)
08:30 -09:00	Non-invasive brain stimulation for Parkinson's disease Robert Chen (Toronto)
09:00 -09:30	Transcutaneous spinal stimulation for stroke rehabilitation Toshiyuki Fujiwara (Tokyo)
09:30 -10:00	Title Brain computer interface for neurorehabilitation Surjo R. Soekadar (Berlin)

08:30 –10:00

SIG 11
Clinical Pathways

Meeting room 4

SIG Chair

Thomas Platz (Greifswald)

08:30 –10:00

SIG 12
Developing World Forum

Meeting room 5

SIG Chair

Nirmal Surya (Mumbai)

10:15 –11:15

Plenary session 3

Plenary hall

10:15 -10:45

Redesigning rehabilitation research for impactful and transformative outcomes: examples from stroke research
 Pamela W. Duncan (Seven Lakes, NC)

10:45 -11:15

Individual resilience in acute ischemic stroke: operationalizing brain reserve
 Dafin Muresanu (Cluj-Napoca)

10:15 –13:15

Poster self-study

Exhibition hall A & B

11:30 –13:00

Round table 3
Ethical considerations for the use of artificial intelligence in healthcare, who will be responsible?

Plenary hall

Vorsitz/Chair

Hitav Someshwar (Mumbai)

11:30 -13:00

Round table discussion

Sabahat Asim Wasti (Abu-Dhabi), Nirmal Surya (Mumbai), Won-Seok Kim (Seongnam-si), Tamsin Reed (London)

11:30 –13:00

Symposium 21

Multimodal interventions for cognitive neurorehabilitation in older adults at risk of dementia

Meeting room 1

Vorsitz/Chair

Sylvie Belleville (Montreal)

Vorsitz/Chair

Arseny Sokolov (Lausanne)

11:30 -12:00

Non-invasive brain stimulation for enhancing cognitive functioning in older adults

Benjamin Hampstead (Ann Arbor, MI)

12:00 -12:30

Immersive virtual reality is a promising tool for cognitive training in older adults and to improve transfer to real life

Sylvie Belleville (Montreal)

12:30 -13:00

When the whole is greater than the sum of its parts: results from the Synergic trial

Manuel Montero-Odesso (London (Ontario))

11:30 –13:00

Symposium 22

Recent Cochrane systematic reviews - lessons to be learnt for stroke rehabilitation

Meeting room 8

Vorsitz/Chair

Thomas Platz (Greifswald)

11:30 -12:00

Occupational therapy for cognitive impairment in stroke patients

Thomas Platz (Greifswald)

12:00 -12:30

Interventions for perceptual disorders following stroke

Julia Patrick Engkasan (Kuala Lumpur)

12:30 -13:00 Trunk training following stroke
 Geert Verheyden (Leuven)

11:30 –13:00 **Symposium 23**
New challenges in pediatric neurorehabilitation

Meeting room 2

Vorsitz/Chair Andrea Martinuzzi (Conegliano)

Vorsitz/Chair Edward Dabrowski (Royal Oak, MI)

11:30 -11:48 State of te art in treatment of cerebral palsy
 Iona Novak (Sydney)

11:48 -12:06 Technologies for pediatric neurorehabilitation: from virtual reality to robots
 Emilia Biffi (Bosisio Parini)

12:06 -12:24 Neuro-rehabilitative challanges of the new phenotypes in treated children with neuromuscular diseases
 Edward Dabrowski (Royal Oak, MI)

12:24 -12:42 Community based rehabilitation for children with neurologic conditions in the digital era
 Ahmed Amine el Oumri (Oujda)

12:42 -13:00 Transitioning to adulthood: new approaches to an old problem
 Andrea Martinuzzi (Conegliano)

11:30 –13:00 **Symposium 24**
Changing rehab needs of persons with multiple sclerosis

Meeting room 19 & 20

Vorsitz/Chair Abhishek Srivastava (Mumbai)

Vorsitz/Chair Giampaolo Brichetto (Genoa)

11:30 -11:52 Disease modifying agents as curative therapy
 Giampaolo Brichetto (Genoa)

11:52 -12:14	Spectrum, staging and rehab planning Sivaraman Nair (Sheffield)
12:14 -12:36	Management of secondary complications and comorbidities Navita Purohit Vyas (Mumbai)
12:36 -12:58	Long term and palliative care Sivaraman Nair (Sheffield)

11:30 –13:00 **Joint symposium 2** **WFN joint symposium**

Meeting room 3

Vorsitz/Chair	Volker Hömberg ()
Vorsitz/Chair	Wolfgang Grisold (Vienna)
11:30 -11:52	Introduction: What have we learned from history Volker Hömberg (), Wolfgang Grisold (Vienna)
11:52 -12:14	Psychiatric aspects Danuta Wassermann (Stockholm)
12:14 -12:36	Treatment of nerve injuries Robert Schmidhammer (Vienna)
12:36 -12:58	Rehabilitation in a war situation Volodymyr Golyk (Dnipro)

11:30 –13:00 **Symposium 25** **Neuromodulation for the treatment of acquired and developmental brain injury across the lifespan**

Meeting room 18

Vorsitz/Chair	Chantel Debert (Calgary)
Vorsitz/Chair	Alexander Thiel (Montreal)

11:30 -11:52	Brain stimulation beyond neuromodulation: enhancing recovery of the adult brain after stroke Alexander Thiel (Montreal)
11:52 -12:14	Neuromodulation of the developing brain to enable youth with disability Adam Kirton (Calgary)
12:14 -12:36	Neuromodulation: a novel treatment for somatic and mental health symptoms in patients with post-concussive symptoms Chantel Debert (Calgary)
12:36 -12:58	An investigation into the use of brain simulation for treatment-resistant reading impairment C. Nikki Arrington (Atlanta, GA)
11:30 –14:00	Industry sponsored workshop Hands-on training in ultrasound-guided injection of botulinum neurotoxin type A for neurorehabilitation of the upper limb and neck muscles
Meeting room 16	
11:30 –13:00	SIG 13 Spinal Cord Injury
Meeting room 4	
SIG Chair	Humberto Cerrel Bazo (Motta di Livenza)
11:30 –13:00	SIG 14 Rehabilitation for Movement Disorders
Meeting room 5	
SIG Chair	Rajinder K. Dhamija (New Delhi)

13:00 –14:00

Meeting room 4

WFNR mentor team meeting

13:15 –14:00

Meeting room 2

Industry sponsored workshop

Neuroskin: an AI-powered neuroprosthesis for gait rehabilitation after stroke

Vorsitz/Chair

Rudi Gombauld ()

13:15 –13:15

Neuroskin: an AI-powered neuroprosthesis for gait rehabilitation after stroke

Lana Popović-Maneski ()

13:15 –14:15

Meeting room 3

Oral communications 9

Vorsitz/Chair

Nam-Jong Paik (Seoul)

13:15 –13:24

Optimal resistance exercise training parameters for stroke recovery: a systematic review and meta-analysis

Kenneth S Noguchi (Hamilton)

13:24 –13:33

Unlocking the restraint – development of a behaviour change intervention to increase the provision of modified constraint-induced movement therapy in stroke rehabilitation

Ashan Weerakkody (Perth)

13:33 –13:42

Aerobic exercise recommendations to optimize best practices in care after stroke: AEROBICS 2024 update

Ada Tang (Hamilton)

13:42 –13:51

Predictors of treatment gains in a phase 3 stroke recovery trial of vagus nerve stimulation

Anne Schwarz (Los Angeles, CA)

13:51 -14:00 A randomized controlled trial comparing HIIT vs. MICT on corticospinal excitability in chronic stroke: does intensity matter?
 Lynden Rodrigues (Montreal)

14:00 -14:09 Aerobic minutes and step number remain low in inpatient stroke rehabilitation
 Sue Peters (London, Ontario)

13:15 –14:15 Oral communications 10

Meeting room 18

Vorsitz/Chair Matilde Leonardi (Milan)

13:15 -13:24 Telehealth assessments for individuals with aphasia: a systematic review
 Selina Teti (London, Ontario)

13:24 -13:33 Association between global outcomes and presence of depression in the first 6 months after a traumatic brain injury
 Sandeep Subramanian (San Antonio, TX)

13:33 -13:42 Availability of dysphagia assessment procedures and/or protocols for 2-6-year-old children with paediatric traumatic brain injury in the acute care setting
 Bahale Mehale (Pretoria)

13:42 -13:51 Should I Stay or Should I Go? A pilot feasibility study on music-based cognitive training for adults with MDD
 Melissa Tan (Toronto)

13:51 -14:00 The development of a multisensory group for the treatment of people in a prolonged disorder of consciousness: a case series
 Annabelle Forde (Sheffield), Rebekah Keenan (Sheffield)

14:00 -14:09 Understanding the population with severe disorders of consciousness related to work accidents: insights from a neurorehabilitation center in a developing country
 Carolina Castillo (Santiago)

14:09 -14:18 Dissociation between proximal and distal body part mental representation before and after bilateral arm transplantation
 Sébastien Mateo (Lyon)

13:15 –14:15 **Poster walk 2**

Exhibition hall A & B

13:15 -13:15 Urodynamic study in patients with urinary incontinence following stroke
 Anupam Gupta (Bengaluru)

13:15 -13:15 Prevalence of orthostatic intolerance in Long COVID: a multicentre observational study
 Manoj Sivan (Leeds)

13:15 -13:15 Increased risk of fracture after amputation: a Korean nationwide study
 Hyeonjin Cho (Seoul)

13:15 -13:15 Hierarchical logistic regression in validating stroke outcome prediction models constructed by named entity recognition algorithms-extracted prognostic features from electronic medical records
 Kit Ying Lew (Taipei)

13:15 -13:15 Revolutionizing neurorehabilitation: integrating SMART technologies with POISE for precision and patient-centric care
 Srinivasan Sharan (Bengaluru)

13:15 -13:15 SMART neurorehab – objectifying subjective data with C2C[®] SEFA[®] and FIL[®] – a web-based tool. C2C = Coma 2 Community in brain injury & Cot 2 Community in SCI. SEFA – Self Evaluation of Functional Abilities in neuro patients. FIL = Functional Independence Level
 Srinivasan Sharan (Bengaluru)

13:15 -13:15 The effect of meditation techniques on the training with Brain-Computer-Interfaces
 Ines Hochreiter (Aggsbach Dorf)

- 13:15 -13:15 Merging sensorimotor brain-computer interfaces with transcranial alternating current stimulation – perspectives towards non-invasive bidirectional BCIs
 Mareike Vermehren (Berlin)
- 13:15 -13:15 Feasibility of a home-based EEG neurofeedback intervention to reduce chronic neuropathic pain, a cohort clinical trial
 Mohamed Sakel (Canterbury)
- 13:15 -13:15 Speech rate and pause characteristics of primary progressive aphasia
 Hyang Hee Kim (Seoul)
- 13:15 -13:15 How can healthcare providers tailor their communication to improve health outcomes in communicatively vulnerable patients? Results from the Health Outcomes and Language (HOLa) scoping review of knowledge syntheses for patients with neurological disorders
 Tami Howe (Vancouver)
- 13:15 -13:15 Feasibility, acceptability, and potential impact of a hybrid cardiopulmonary telerehabilitation program for people with long-term COVID-19: a pilot study
 Livia Pinheiro Carvalho (Sherbrooke)
- 13:15 -13:15 Has the COVID-19 pandemic increased the prevalence of the language disorder in children?
 Sangwon Hwang (Daejeon)
- 13:15 -13:15 Neuropsychological follow-up in long COVID: is cognitive rehabilitation relevant?
 Lucia Braga (Brasilia)
- 13:15 -13:15 Influenza vaccination mediated SARS-CoV-2 peptides – induced inflammatory response
 Zejie Zuo (Guangzhou City)
- 13:15 -13:15 Disruptions of gut microbiota are associated with cognitive deficits of preclinical Alzheimer's disease: a cross-sectional study
 Guomeng Wan (Nanjing City)

- 13:15 -13:15 Evolution of physical abilities and performance in ADLs in adults with muscular dystrophy
 Gonzalo Pino (Santiago)
- 13:15 -13:15 Dual-task walking speed in older people with cognitive decline
 Iva Hereitova (Pilsen)
- 13:15 -13:15 Comprehensive dementia neurorehabilitation in rural areas: integrating digital app-based therapies and structuring daily routines with stage-based recommendations
 Pushkraj Marne (Pune)
- 13:15 -13:15 Evaluation of cognitive impairment in patients with cerebral small vessel disease by eye tracking technique
 Ying Cai (Changsha)
- 13:15 -13:15 Electrophysiological screening to assess critical illness polyneuropathy (CIP) and myopathy (CIM) in patients with severe acquired brain injury: a prospective observational study in intensive rehabilitation unit
 Francesco Piccione (Padova)
- 13:15 -13:15 Emerging consciousness pathway in New Zealand: reflecting on the past, present, and planning for the future
 Tony Young (Auckland)
- 13:15 -13:15 Rehabilitation for impaired self-awareness: the contribution of feedback mechanisms in the early phase post-brain injury
 Danielle Sansonetti (Melbourne)
- 13:15 -13:15 A case of femoral arter pseudoaneurysm during rehabilitation for ischemic stroke
 Arzu Dinc Yavas (Istanbul)
- 13:15 -13:15 Do transdermal opioids work on the maladaptive plasticity of shoulder pathologies in patients with moderate-severe acquired brain injury (ABI) and traumatic brain injury (TBI)?
 S M Javaid (Bristol)
- 13:15 -13:15 Functional recovery in acute stroke patients with or without post-stroke fatigue
 Juwon Lee (Chuncheon-si), Sora Baek (Chuncheon-si)

- 13:15 -13:15 Clinical outcomes correlation of postoperative eeg and physiotherapy in hemispherotomy (epileptic surgery)
 Pintu Kumar (New Delhi)
- 13:15 -13:15 Effect of tele-yoga on refractory epilepsy patients: a randomized controlled trial utilizing WHOQOL-BREF
 Nirmal Surya (Mumbai)
- 13:15 -13:15 Enhancing clinical decision making via the use of the International Classification of Functioning, Disability and Health (ICF) model
 Emma Reilly (Liverpool), Hanan Osman (Liverpool)
- 13:15 -13:15 The communication needs of people with primary progressive aphasia linked to the World Health Organization's International Classification of Functioning, Disability, and Health
 Katharine Davies (Vancouver)
- 13:15 -13:15 Development of a new tool for the systematic description of lower limb clearance during the swing phase of gait after stroke: the ToulGaitViz
 Camille Cormier (Toulouse)
- 13:15 -13:15 Developing personalized augmented feedback for gait rehabilitation: a co-design process
 Chris Easthope Awai (Vitznau)
- 13:15 -13:15 Intensive rehabilitation in a rapid-onset dystonia-parkinsonism. a single-case study design
 Javier Sánchez-Aguilar (Madrid)
- 13:15 -13:15 Neuro muscular electrostimulation of the hand in post-COVID syndrome
 Giovanni Pegoraro (Brescia)
- 13:15 -13:15 What is taught to physiotherapy students about assessment of people with neurological conditions? Curricula survey of Australian programs
 Jill Garner (Adelaide)
- 13:15 -13:15 Dancing their way
 Madhusree Sengupta (Kolkata)
- 13:15 -13:15 Claw toe deformity: unique case and implications for management
 Min Wook Kim (Seoul)

- 13:15 -13:15 Impact of transdisciplinary rehabilitation in patients with icu-acquired weakness at Clínica Alemana Temuco
 Rodrigo Rivas (Temuco)
- 13:15 -13:15 Gait and balance improvement with dual-task treadmill training, in an atypical parkinsonism - multisystem atrophy type: case study
 Isabel Baleia Batista (Cascais)
- 13:15 -13:15 Effects of robot-assisted gait consisted of high-intensity interval exercises on cardiopulmonary function and walking ability among individual with chronic stroke
 Jiae Kim (Seoul)
- 13:15 -13:15 Motor adaptation of walking in response to split-belt training post-stroke: a comparative case study exploring the impact of fear of falling
 Kaya Yoshida (Vancouver)
- 13:15 -13:15 Implementation of cognitive-motor dual-task training in Day Centre Program in patient after acquired brain injury: pilot study
 Mária Krivošíková (Prague)
- 13:15 -13:15 Impact of an INTensive motor rehabilitation programme integrating advanced technology for adults with chronic central neurological disease (INTeRACT): protocol of a randomized controlled phase III trial
 Marjan Coremans (Leuven)
- 13:15 -13:15 Acute effect of ankle proprioceptive training on motor cortex excitability: a pilot study
 Michaël Bertrand-Charette (Chicoutimi)
- 13:15 -13:15 Speed training improves motor performance of the paretic arm in chronic stroke survivors: the FAST randomized clinical trial
 Nicolas Schweighofer (Los Angeles, CA)
- 13:15 -13:15 A neuroplasticity based approach: updating traditional neurorehabilitation models to include evidence based neuroplasticity principles
 Sarah Dos Anjos (Birmingham, AL)

- 13:15 -13:15 Altered basal ganglia network topology associated with auditory-motor synchronization in parkinson's disease
 Stéphanie Lavigne (Toronto)
- 13:15 -13:15 Boostering motor imagery to improve gait in patients with Parkinson disease and freezing of gait
 Susanna Mezzarobba (Genoa)
- 13:15 -13:15 Comparing the efficacy of digital upper-limb mirror therapy with unimanual versus bimanual training post-stroke: a preliminary study
 Yu-Wei Hsieh (Taoyuan City)
- 13:15 -13:15 From plaster to pixels: digitizing jules froment's medical masterpieces, 3D scanning and printing of medical statuettes for education on neurological disorders
 Hugo Ardaillon (Lyon)
- 13:15 -13:15 IPAC-MS: individualized access to physiotherapists for behavioural coaching to support increased physical activity (PA) levels in previously inactive individuals living with multiple sclerosis (MS)
 Sarah J Donkers (Saskatoon)
- 13:15 -13:15 Participants perspectives of the individualized physiotherapy and physical activity behaviour coaching in multiple sclerosis (IPAC-MS) intervention
 Kyra Ives (Vancouver)
- 13:15 -13:15 The six spot step test is superior in detecting walking capacity impairments compared to short- and long-distance walk tests in persons with multiple sclerosis
 Anders Guldhammer Skjerbæk (Skanderborg)
- 13:15 -13:15 Optimizing ambulation in multiple sclerosis patients with hip flexor weakness: an interdisciplinary approach involving orthotics, physiatry, and biomedical engineering
 Christopher Bhatla (Vancouver)

- 13:15 -13:15 Self-management skills following 2 weeks of multidisciplinary rehabilitation in persons with multiple sclerosis – preliminary findings from The Danish MS Hospitals Rehabilitation Study II
 Lars Hvid (Aarhus)
- 13:15 -13:15 Effects of trunk rehabilitation on balance, gait, fall, and community mobility in patients with multiple sclerosis: a randomised control trial
 Shatha Mukhtar (Dschidda)
- 13:15 -13:15 The colours of neglect
 Gilles Rode (Lyon cedex 08)
- 13:15 -13:15 Neural correlates of bradykinesia in Parkinson's disease: a kinematic and FMRI study
 Elisabetta Sarasso (Milan)
- 13:15 -13:15 Menstrual cycle phase modulates causal connectivity in the resting-state brain: implications for clinicians and researchers
 Julianne McLeod (Vancouver)
- 13:15 -13:15 Effects of musical mnemonics on the behavioural mechanisms and associated neural synchronization of memory performance in persons with amnesic mild cognitive impairment
 Lauren Cole (Toronto)
- 13:15 -13:15 Transcutaneous spinal cord stimulation (ARC^{EX} therapy) is safe and effective at improving upper extremity function following spinal cord injury – presented on behalf of the Up-LIFT and LIFT Home Principal Investigators
 Jessica D'Amico (Edmonton)
- 13:15 -13:15 Phobiomodulation therapy on Alzheimer's: multifaceted impact beyond beta-amyloid mitigation
 Lew Lim (Toronto)
- 13:15 -13:15 TDCS neuromodulation to enhance cognitive and lower limb rehabilitation in corticobasal degeneration: a case report
 Alfonso Hurtado Martínez (Pozuelo de Alarcón)

- 13:15 -13:15 Effect of transcranial direct current stimulation and pharyngeal electrical stimulation on postacute dysphagia: the randomized controlled, double blinded pes-norest trial
 Christian Ledl (Bad Aibling)
- 13:15 -13:15 Neuromodulation treatment on target sites improves social cognition in mild cognitive impairment patients: a randomized clinical trial
 Gianna Carla Riccitelli (Lugano)
- 13:15 -13:15 Effects of low intensity focused ultrasound stimulation combined with functional electrical stimulation on upper extremity motor symptoms in Parkinson disease
 Naaz Desai (Toronto)
- 13:15 -13:15 Transcranial direct current stimulation for post-stroke upper extremity motor recovery: an updated meta-analysis
 Salman Ikramuddin (Minneapolis, MN)
- 13:15 -13:15 Preliminary impact of activity-based therapy and transcutaneous cervical spinal cord stimulation on tactile touch sensations in cervical spinal cord injury: three case reports
 Urvashy Gopaul (Toronto)
- 13:15 -13:15 Growing into adulthood with Duchenne Muscular Dystrophy: the process of transition
 Matilde Leonardi (Milan)
- 13:15 -13:15 Effect of proprioceptive neuromuscular facilitation (PNF) on muscle function: a systematic review
 Gabriel Campos Santana (Serra)
- 13:15 -13:15 Neurophysiological dysfunctions in polio patients with post-polio syndrome: a descriptive study
 Natallia Suhak (Copenhagen)
- 13:15 -13:15 Innovation to communicate using low cost technology for ALS patients
 Satvinder Kaur (New Delhi)

13:15 -13:15	<p>Characterizing the relationship between inter-neuronal activation in the primary motor cortex (M1) and clinical motor outcome measures after stroke</p> <p>Anjana Rajendran (Vancouver)</p>
13:15 -13:15	<p>Exploring brain activity during a buttoning task in healthy young adults: a functional near infrared spectroscopy investigation</p> <p>Niloufar Benam (Vancouver)</p>
13:15 -13:15	<p>Cog-First: a new tablet-based cognitive assessment tool for brain injured patients. A pilot study on Canadian population</p> <p>Camille Heslot (Paris)</p>
13:15 -13:15	<p>Solution focused hypnotherapy and memory retrieval in post-traumatic retrograde amnesia: a case study</p> <p>Jessika Sheppy (Sheffield)</p>
13:15 -13:15	<p>Signaling visual complaints following acquired brain injury: development and validation of a screening instrument</p> <p>Vera Linde Dol (Groningen)</p>
13:15 -13:15	<p>The dynamic balance control of older adults with cognitive impairment under dual-task walking: a cross-sectional study</p> <p>Qian Zhong (Nanjing City)</p>
13:15 -13:15	<p>EURECA study: evaluation of remediation programs for patients with CRCI (Cancer Related Cognitive Impairment) in the aftermath of breast cancer</p> <p>Marianne Merceur (Rennes)</p>
13:15 -13:15	<p>Enhancing motor learning through cognitive training</p> <p>Enzo Soto Espinoza (Santiago)</p>
13:15 -13:15	<p>The detection of mild cognitive impairment based on the natural language processing</p> <p>Rumi Wang (Changsha)</p>
13:15 -13:15	<p>Latin American survey for therapists and neurologists who care for patients with multiple sclerosis</p> <p>Marcos Maldonado (Santiago)</p>

- 13:15 -13:15 From knowledge to practice: a nationwide study on spinal cord injury rehabilitation views among Indian physiotherapists
 Jennifer Valentina Austin Dsouza (Bangalore)
- 13:15 -13:15 The effect of music therapy on cognition in neurorehabilitation – a pilot randomized controlled trial
 Wen Fen Beh (Kuala Lumpur)
- 13:15 -13:15 Living with neurological injury in Mauritius: sociocultural barriers and enablers
 Britney Soll (Derby)
- 13:15 -13:15 Perineal hygiene practices among women stroke survivors in India
 John M. Solomon (Manipal)
- 13:15 -13:15 The early stroke rehabilitation systems gaps
 Mahdi Yazdani (Isfahan)
- 13:15 -13:15 Hand Rehabilitation Syrebo-patients with hand dysfunction caused by stroke, brain injury, cerebral palsy, hand trauma, orthopedic surgery, etc.
 Pilar Zumbado (New Westminster)
- 13:15 -13:15 To explore the application of in-home telerehabilitation based on Consanas Cloud platform in stroke patients
 Tong Zhang (Beijing)
- 13:15 -13:15 Morphologic Evaluation of the Fascicular Architecture of the C7 Nerve Root
 Florian Jaklin (Vienna)
- 13:15 -13:15 External validation of a dynamic prediction model for upper limb function after stroke
 Iris Charlotte Brunner (Aarhus)
- 13:15 -13:15 Profiling daily life performance recovery in the early subacute phase after stroke using a graphical modeling approach
 Janne Veerbeek (Lucerne)
- 13:15 -13:15 Using ultrafast and conventional Doppler imaging for the assessment of intramuscular vascularity
 Tiev Miller (Vancouver)

- 13:15 -13:15 Using ultrasound elastography to assess exercise-induced changes in musculoskeletal tissue biomechanical properties: a systematic review and meta-analysis
 Tiev Miller (Vancouver)
- 13:15 -13:15 Making systematic change: implementing a digital solution to measure outcomes
 Penny Trayner (Manchester)
- 13:15 -13:15 The difference between people with and without chronic nonspecific low back pain in postural balance tasks
 Fangyan Liu (Hohhot), Haiou Nan (Hohhot)
- 13:15 -13:15 Innovative balance assessment in real-world clinical settings: a protocol development study using markerless motion capture
 Mahtab Azhdar (Edmonton)
- 13:15 -13:15 Don't trust everything you see. Even salt looks like sugar
 Neha Singh (Houston, TX)
- 13:15 -13:15 Canadian physicians use of corticosteroids for complex regional pain syndrome: a cross-sectional survey of physician practice patterns
 Farris Kassam (Vancouver), Saroop Dhatt (Vancouver)
- 13:15 -13:15 Comparison of the effects of botulinum toxin doses on nerve regeneration in rats with experimentally induced sciatic nerve injury
 SeokJoon Hwang (Goyang-si)
- 13:15 -13:15 Physical therapists' understanding of psychosocial problems in people with Parkinson's disease
 Adetayo Babarinde (Henderson, NV)
- 13:15 -13:15 Use of Metronome as auditory cue to promote chewing in oral dysphagia in Parkinson's disease: a case study
 Tanvi Sanghavi (Mumbai)
- 13:15 -13:15 Effects of transcranial direct current stimulation (tDCS) on pain modulation in individuals with parkinson's disease (PD) in "Off" state: a crossover pilot study
 Yeray González Zamorano (Madrid)

- 13:15 -13:15 Metric properties of inertial sensor-derived measures during the execution of UPDRS motor items in subjects with Parkinson disease: a systematic review
 Giulio Cherubini (Florence)
- 13:15 -13:15 Exploring the influence of reaction time on postural stability among patients with Parkinson's disease: a cross-sectional study
 Jagadeesh Anbalagan (Kasaragod)
- 13:15 -13:15 Monitoring patients with Parkinson's disease: translational validation of an approach based on smartwatches
 Karina Lebel (Sherbrooke)
- 13:15 -13:15 Neural correlates of balance in Parkinson's disease: a systematic review
 Patrick Tait (Newcastle upon Tyne)
- 13:15 -13:15 Effects of an incremental gait training on a treadmill and a customized virtual reality rehabilitation protocol, first results from the VIRTREAD-PD study: a randomized controlled trial in persons with PD
 Stefano Doronzio (Florence)
- 13:15 -13:15 The Physical and mental health issues of caregivers of children with cerebral palsy
 Shiv Lal Yadav (New Delhi)
- 13:15 -13:15 Discovering the untold story: the experiences and support needs of parents caring for children with cerebral palsy in Saudi Arabia: work in progress
 Ashwaq Alqahtani (Kingston)
- 13:15 -13:15 Rhythm and dance can improve motor and cognitive skills in children with cerebellar dysfunctions
 Delphine Dellacherie (Villeneuve d'Ascq Cedex)
- 13:15 -13:15 Effectiveness of individualized multicomponent intervention for sensory food aversion feeding disorder (SFAFD) in children: case series
 Kowsalya Mohandass (Kasaragod)
- 13:15 -13:15 Efficacy of low level laser therapy for treating autism spectrum disorder
 Nandini Sarwade (Vadodara, Gujarat)

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| 13:15 -13:15 | Motor planning of upper extremity in children with unilateral cerebral palsy
Tong-Yu Chen (Taipei) |
| 13:15 -13:15 | The impact of central-peripheral combined magnetic stimulation on fine motor function in children with spastic hemiplegia
Wu Ye (Xuzhou) |
| 13:15 -13:15 | NX210c peptide: a promising drug candidate for the treatment of Parkinson's disease
Sighild Lemarchant (Lyon) |
| 13:15 -13:15 | NX210c drug candidate peptide promotes functional recovery and repair in a rat cervical clip-compression model of spinal cord injury
Sighild Lemarchant (Lyon) |
| 13:15 -13:15 | Survey of canadian physiatrists' view on therapeutic value of medical cannabis
Karen Ethans (Winnipeg) |
| 13:15 -13:15 | A novel technique for evaluating vestibular perception of rotation while standing
Joshua Donald (Vancouver) |
| 13:15 -13:15 | A trans-sectorial clinical pathway for persons with severe neuro-disabilities – qualitative research to assess its appropriateness and practicality
Thomas Platz (Greifswald) |
| 13:15 -13:15 | Prevalence of depression and anxiety among adults in Diu – a cross-sectional study
Kavita Kumari (Gandhinagar) |
| 13:15 -13:15 | Assistive technology intervention for dementia care: a six-month experience
Shih-Ching Chen (Taipei) |
| 13:15 -13:15 | Overview of randomized controlled trials of post stroke upper extremity rehabilitation conducted in in low and middle-income and high-income countries
Robert Teasell (London, Ontario), Sarvenaz Mehrabi (London, Ontario) |

- 13:15 -13:15 AMBER: a device for hand motor and cognitive rehabilitation.
 Development and proof of concept
 Francisco José Sánchez Cuesta (Pozuelo de Alarcón)
- 13:15 -13:15 Observing physiotherapy practice with stroke patients to inform the
 development of lower-limb soft wearable exoskeletons for rehabilitation
 of mobility
 Leah Morris (Bristol)
- 13:15 -13:15 Emg-based control of a low-cost robotic feeding device for quadriplegic
 individuals: a preliminary study
 Isaac Malette Cayer (Sherbrooke)
- 13:15 -13:15 A deep learning model for predicting joint torque from mechanomyogram
 Jongsang Son (Newark, NJ)
- 13:15 -13:15 Robot-assisted gait training plus conventional rehabilitation after cerebral
 toxoplasmosis infection: a case report
 Niña Ricci Reyes (Quezon City)
- 13:15 -13:15 Reliability of the robotic brace for dynamic trunk support system for
 trunk control function assessment in patients with spinal cord injury
 Rongli Wang (Beijing)
- 13:15 -13:15 A 5-year retrospective cohort of individuals receiving botulinum toxin
 type a for post stroke spasticity
 Amanda McIntyre (London, Ontario)
- 13:15 -13:15 Predictors of spasticity 3-6 months post stroke: a 5-year retrospective
 cohort study
 Amanda McIntyre (London, Ontario)
- 13:15 -13:15 To pump or not to pump? An evaluation using temporary intrathecal
 device coupled with goal attainment scaling to assess the indication and
 predict outcome of intrathecal baclofen therapy
 Stefano Carda (Lausanne)
- 13:15 -13:15 Effectiveness of abobotulinumtoxinA in adults with lower limb spasticity:
 top line results from the AboLiSh observational study
 Alberto Esquenazi (Elkins Park, PA)

- 13:15 -13:15 Evaluation of the safety and effectiveness of intramuscular motor blocks in physical and rehabilitation medicine
 Hattenberger Robin (Nice)
- 13:15 -13:15 Reduction of pain in spasticity patients naïve and non-naïve to OnabotulinumtoxinA treatment: results from the aspire study
 Jörg Wissel (Berlin), Tiziana Musacchio (Roma)
- 13:15 -13:15 Madglove: creating an accessible home-rehabilitation glove to increase independence in people with spasticity
 Madalina Antonia Maria Riurean (Amsterdam)
- 13:15 -13:15 Spasticity interventions in cerebral palsy for people with and without intellectual disabilities – a comparative analysis
 Ramanand Palanichamy (Brecon)
- 13:15 -13:15 Ultrasound image guided injection of botulinum toxin for the management of spasticity: a Delphi study to develop a international scope of practice, competency, and a governance framework
 Stephen Ashford (London)
- 13:15 -13:15 Success is a journey: pilot implementation of the Ideal Care Pathway for traumatic spinal cord injury
 Mark Bayley (Toronto)
- 13:15 -13:15 Adaptive outdoor physical activities for adults with mobility disability: a scoping review
 Pegah Derakhshan (Vancouver)
- 13:15 -13:15 Comparison of the energetic and physiologic impact of seated vs standing active arm passive leg exercise for people with spinal cord injuries
 Johanne Mattie (Burnaby)
- 13:15 -13:15 Using heart rate variability to predict autonomic dysreflexia triggered by bladder distention
 Martín Calderón-Juárez (Vancouver)
- 13:15 -13:15 Impact of autonomic severity of spinal cord injury on the hypoxic ventilatory response
 Rebekah H.Y. Lee (Burnaby)

- 13:15 -13:15 Risk of fracture among patients with spinal cord injury: a nationwide cohort study in South Korea
 Seonghye Kim (Seoul)
- 13:15 -13:15 Activation of the pelvic floor muscles during Lokomat- and Ekso-assisted walking in controls and people with motor-complete spinal cord injury
 Xueqing Zhou (Vancouver)
- 13:15 -13:15 Comparative analysis of Prism adaptation and mirror therapy in unilateral neglect management following stroke: an experimental study
 Hitav Someshwar (Mumbai)
- 13:15 -13:15 Exploring the significance of family-based rehabilitation: a qualitative study among caregivers of stroke survivors
 Hitav Someshwar (Mumbai)
- 13:15 -13:15 Action observation therapy plus focal vibration to improve upper limb dexterity in a patient with chronic stroke: a single-subject design study
 Roberto Gatti (Pieve Emanuele, Milano)
- 13:15 -13:15 The effectiveness of the contralaterally controlled functional electrical stimulation in post-stroke patients: a systematic review
 Ahmed Hendawy (Giza)
- 13:15 -13:15 Upper limb rehabilitation in (sub)acute stroke in West African low-income countries: an observational prospective study focusing on dose and content
 Annemie Spooren (Hasselt)
- 13:15 -13:15 Revealing the unseen: clinician perceptions on improving spatial neglect assessment for stroke survivors
 David Kennedy (Victoria)
- 13:15 -13:15 Motor rehabilitation after stroke: European Stroke Organisation (ESO) consensus-based definition
 Geert Verheyden (Leuven)

- 13:15 -13:15 Contribution of Hemineglect, lateropulsion and motor impairment on balance disturbance in a right stroke population with acquired standing: a cross-sectional study
 Isabelle Bonan (Rennes)
- 13:15 -13:15 Feedback-based mall-walking program for improving community ambulation post-stroke: a case series
 Kanika Bansal (Alliance, OH)
- 13:15 -13:15 Clinician perspectives on wearable sensor use to guide activity counselling during stroke rehabilitation at home
 Aishwarya Shenoy (Vancouver)
- 13:15 -13:15 Investigating the acceptability of modified constraint-induced movement therapy among stroke survivors and carers: a qualitative study
 Ashan Weerakkody (Perth)
- 13:15 -13:15 Characterizing arm recovery in people with severe stroke (CARPSS): a project update
 Beverley C. Larssen (Vancouver)
- 13:15 -13:15 Change leadership: fostering effective change in an existing community stroke program to better align with Canadian stroke best practice guidelines
 Candice Tremblay (Winnipeg)
- 13:15 -13:15 Development and evaluation of robot-assisted serious games for upper limb sensorimotor impairments after stroke
 Charlotte Heremans (Leuven)
- 13:15 -13:15 A case-series evaluation in the development of an exposure-based cognitive behavioral therapy based intervention for the rehabilitation of walking post-stroke
 Courtney L. Pollock (Vancouver)
- 13:15 -13:15 Experiences of family caregivers of stroke survivors in Burkina Faso: a qualitative study protocol
 Fatimata Ouédraogo (Montreal)

- 13:15 -13:15 Muscle activation in body weight transition during gait using functional electrostimulation in people with stroke
 Felipe Covarrubias Escudero (Santiago), Juan Pablo Appelgren Gonzalez (Santiago)
- 13:15 -13:15 Fitness training for non-ambulatory stroke survivors living at home: intervention development and feasibility testing
 Frederike van Wijck (Glasgow)
- 13:15 -13:15 Knowledge, attitude and practice (KAP) of neurologists towards stroke neuro-rehabilitation in India
 Guhan Ramamurthy (Tuticorin)
- 13:15 -13:15 Effects of a 6-week lateral treadmill oscillation walking (TOW) training on balance and gait functions in chronic stroke survivors
 Hao-Yuan Hsiao (Austin, TX)
- 13:15 -13:15 Safety and feasibility of high-intensity interval training in post-stroke individuals: a systematic review
 Hugo Blatgé (Glasgow)
- 13:15 -13:15 Exploring white matter tract involvement in alien hand syndrome following stroke: diffusion tensor imaging study
 Sekwang Lee (Seoul)
- 13:15 -13:15 A new reflex-based treatment of the claw hand in chronic stroke patients. A proposal for a new rehabilitation robot design
 Jozef Van Vaerenbegh (Crans Montana)
- 13:15 -13:15 Development and feasibility of first- and third-person motor imagery for people with stroke living in the community
 Karen P. Y. Liu (Hung Hom)
- 13:15 -13:15 Power training for Stroke Recovery (POWER): an interim analysis of a feasibility trial
 Kenneth S Noguchi (Hamilton)
- 13:15 -13:15 Arm-hand BOOST therapy to enhance upper limb recovery after stroke: clinical, health economic and process evaluation
 Liesel Cornelis (Leuven), Sarah Meyer (Herk-de-Stad)

- 13:15 -13:15 Myoelectric pattern recognition combined with virtual reality and serious gaming for upper limb rehabilitation in stroke: a qualitative study
 Maria Munoz-Novoa (Gothenburg)
- 13:15 -13:15 The role of the insula in emotional processing – data from patients following stroke
 Martin Lotze (Greifswald)
- 13:15 -13:15 Developing best practice statements for orthotic intervention supporting mobility recovery following stroke: the OTIS study
 Miriam Golding-Day (Nottingham)
- 13:15 -13:15 Effect of higher walking doses on post-stroke physical activity: a secondary analysis
 Paul Mackie (Vancouver)
- 13:15 -13:15 Personalizing brain stimulation for stroke recovery with individual brain dynamics
 Sarah Kraeutner (Kelowna)
- 13:15 -13:15 Examining longitudinal changes in spatiotemporal characteristics of preferred- and fast-paced walking in chronic stroke up to 24 months
 Sherri Thomson (Waterloo)
- 13:15 -13:15 Exploratory investigation into cognitive fatigue following a stroke: a study on patients' experiences
 Sorayya Askari (Halifax)
- 13:15 -13:15 The long-term retention and transfer effects of single session of overground perturbation training on functional domains among patients with chronic stroke
 Tanvi Bhatt (Chicago, IL)
- 13:15 -13:15 Occupational engagement, arm use, environmental features and its relationship amongst stroke survivors in an acute stroke unit
 Xiao Yuan Wu (Singapore)
- 13:15 -13:15 REMOBI & AIDEAL innovations for improving eye movements, functional visual field, reading and quality of life following a stroke
 Zoi Kapoula (Paris)

- 13:15 -13:15 EEG connectivity as a marker of motor recovery after stroke
 Pablo Burgos (Portland, OR)
- 13:15 -13:15 Use of bilateral upper limb outcome measures in stroke survivors: a systematic review
 Pei Ling Choo (Singapore)
- 13:15 -13:15 Profiling speech, language, and feeding impairments in a young child with Phelan Mcdermid Syndrome – a case study
 Tasneem Motiwala (Mumbai)
- 13:15 -13:15 Systematic review of behavioral swallowing interventions in persons with ataxic etiologies
 Asefeh Memarian (Ottawa)
- 13:15 -13:15 Delayed cough reflex and cough effectiveness in patients with significant dysphagia: an observational study
 Ju Kang Lee (Incheon)
- 13:15 -13:15 The relationship between swallowing oral hesitation and cognition in frontal lobe stroke
 Yeo Joon Yun (Seoul)
- 13:15 -13:15 How to increase the dosage and quality of exercise at home? Retrospective real world analysis of a neurorehabilitation digital-based protocol for people with stroke
 Juan Pablo Appelgren Gonzalez (Santiago), Felipe Covarrubias Escudero (Santiago)
- 13:15 -13:15 What do therapists think about data from wearable technology for stroke rehabilitation?
 Marika Demers (Montreal)
- 13:15 -13:15 Remote assessment and interventions of bilingual and multilingual people with primary progressive aphasia (PPA): a mini review of literature
 Mohamed Taiebine (Fez)
- 13:15 -13:15 Added value of telerehabilitation to provide intensive upper limb training during the chronic phase of stroke recovery: the stroke survivor's perspective
 Dahlia Kairy (Montreal)

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|--------------|---|
| 13:15 -13:15 | <p>Telerehabilitation of spinocerebellar ataxias in rural india: deterrents and facilitators</p> <p>Jui Dave (Navi Mumbai)</p> |
| 13:15 -13:15 | <p>NeuroRehabilitation OnLine (NROL): description of a multidisciplinary group telerehabilitation innovation for stroke and neurological conditions using the TIDieR checklist</p> <p>Louise A. Connell (Lancaster), Suzanne Ackerley (Preston)</p> |
| 13:15 -13:15 | <p>Acceptability of telerehabilitation among stroke survivors in Ibadan, Nigeria</p> <p>Olubukola A. Olaleye (Ibadan)</p> |
| 13:15 -13:15 | <p>Benefits and challenges of a regional NeuroRehabilitation OnLine (NROL) innovation</p> <p>Suzanne Ackerley (Preston)</p> |
| 13:15 -13:15 | <p>Ballistic resistance training improves mobility more than usual physiotherapy intervention following traumatic brain injury: a randomised controlled trial</p> <p>Gavin Williams (Richmond)</p> |
| 13:15 -13:15 | <p>What is the impact of living with a traumatic brain injury and how can co-production of a resource with traumatic brain injury survivors be achieved?</p> <p>Karen Saunders (Canterbury)</p> |
| 13:15 -13:15 | <p>How to evaluate traumatic brain and spinal cord injury care quality in a siloed healthcare system? Herding the key partners</p> <p>Mark Bayley (Toronto)</p> |
| 13:15 -13:15 | <p>Combined pharmacologic and nonpharmacologic interventions for sexually disinhibited behaviors following traumatic brain injury: a case series</p> <p>Christopher Falco (Houston, TX)</p> |
| 13:15 -13:15 | <p>Influence of off-hour hospital admission on short-term mortality after traumatic brain injury according to age group</p> <p>HH Ryu (Dong-gu, Gwangju)</p> |

- 13:15 -13:15 Success is a journey: pilot implementation of the Ideal Care Pathway for traumatic brain injuries
 Matheus Wiest (Toronto), Mark Bayley (Toronto)
- 13:15 -13:15 Rapid, Accurate, and Cost-Effective (RACE) analysis of blood biomarkers for concussion diagnosis and prognosis: prior traumatic life events correlate to initial symptom severity
 Samantha McIntosh (Calgary)
- 13:15 -13:15 Extended reality-based exposure and cognitive behavioral therapy (CBT) for job interview skill and anxiety management of autistic adults: a pilot and feasibility study protocol
 Pariya Parchini (Edmonton)
- 13:15 -13:15 Exploring perspectives of occupational therapists and people with traumatic brain injury on the potential use of virtual reality in practice for occupation-based cognitive intervention
 Hannah Gullo (Brisbane)
- 13:15 -13:15 Improvement of active elbow extension with short-term error augmentation training in stroke survivors
 Caroline Rajda (Montreal)
- 13:15 -13:15 Clinical potential of virtual reality based task for post-stroke neuro-rehabilitation of distal upper extremities: a pilot study
 Debasish Nath (New Delhi)
- 13:15 -13:15 Investigating the effects of a novel virtual reality intervention using music-based mirror therapy on upper limb motor function in chronic stroke - a protocol paper
 Thomas Beltrame (Tonsley)
- 13:15 -13:15 A novel virtual reality glove system with integrated vibro-tactile feedback for Parkinson's disease: a usability study
 Tim Vanbellinggen (Bern)
- 13:15 -13:15 Neurological recovery and functional outcome of complete traumatic spinal cord injury patients: an observation from Bangladesh
 Koly Kamrunnaher (-)

- 13:15 -13:15 Meeting the Unmet Need: A vision for equitable access to sexual and reproductive health for persons with Spinal Cord Injury/Disorder (SCI/D)
 Kate McBride (Vancouver)
- 13:15 -13:15 Automated clock drawing test for early dementia risk assessment
 Qiu Yang (Singapore)
- 13:15 -13:15 The importance of nutritional supply in the acute phase of stroke: the cohort study
 Jinhee Choi (Yongsan)
- 13:15 -13:15 Effects of 8 weeks of FES-Cycling on post-stroke patients: preliminary results
 Mael Descollonges (Dijon)
- 13:15 -13:15 Using Radionuclide Ventriculoperitoneal shunt scintigraphy for patient with suspicious shunt malfunction
 C. S. Tseng (Hualien)
- 13:15 -13:15 Structure of the gastrocnemius fascia in idiopathic toe-walking in children with sensory integration disorder: sonographic findings
 Lorena Berna (Viña del Mar), José Luis Bacco (Viña del Mar)

13:15 –14:15

SIG 20

Paediatric Neurorehabilitation

Meeting room 5

Vorsitz/Chair

Andrea Martinuzzi (Conegliano)

14:15 –18:30

Poster self-study

Exhibition hall A & B

14:30 –15:30

Plenary session 4

Plenary hall

14:30 -15:00

A critique on present and future of Robotic in Neurorehabilitation in LMIC
 Rakesh Kumar Srivastava (New Delhi)

15:00 –15:30 The toronto rehab tbi recovery study: from bench to bedside
 Robin Green (Toronto)

15:45 –17:15 **WFNR presidential symposium**
WHOiGAP implementation and brain health

Plenary hall

Vorsitz/Chair Volker Hömberg ()

15:45 –16:07 WHO news on WHOiGAP dissemination and implementation in the world
 Tarun Dua (Geneva)

16:07 –16:29 WHOiGAP implementation and brain health and the WFN - World
 Federation of Neurology
 Wolfgang Grisold (Vienna)

16:29 –16:51 WHOiGAP implementation and brain health and the WPA-World
 Psychiatric Associations
 Danuta Wassermann (Stockholm)

16:51 –17:13 WHOiGAP implementation and brain health and the WFNR- World
 Federation for Neurorehabilitation
 Matilde Leonardi (Milan)

15:45 –17:15 **Symposium 26**
Novel methods of rehabilitation in multiple sclerosis

Meeting room 1

Vorsitz/Chair Fary Khan (Melbourne)

Vorsitz/Chair Józef Opara (Chorzów)

15:45 –16:15 Current evidence on the effects of physical exercise on neuroprotection
 on multiple sclerosis
 Lars Hvid (Aarhus)

16:15 –16:45 Is transcranial magnetic stimulation effective in multiple sclerosis?
 Józef Opara (Chorzów)

16:45 -17:15 Does memory rehabilitation improve health outcomes in people with multiple sclerosis?
 Fary Khan (Melbourne)

15:45 –17:15 Symposium 27
From the bedside to home, robotics and technology for rehabilitation

Meeting room 8

Vorsitz/Chair Dylan Edwards (Elkins Park, PA)

15:45 -16:07 A framework for bedside to home robotic; science and practicalities
 Dylan Edwards (Elkins Park, PA)

16:07 -16:29 The MossRehab experience in pioneering rehabilitation robotics and technology, the way forward
 Alberto Esquenazi (Elkins Park, PA)

16:29 -16:51 The intersection of industry, practice, and science: global implementation experiences
 Taya Hamilton (Perth)

16:51 -17:13 Rehab robots in the home, breakthrough technology updates
 Hermano Igo Krebs (Boston, MA)

15:45 –17:15 Symposium 29
Global disease burden and recent advances in management of Spinal Muscular Atrophy

Meeting room 19 & 20

Vorsitz/Chair Alpana Kondekar (Mumbai)

15:45 -16:03 Psychosocial, economic, and health-related quality of life burden of spinal muscular atrophy: a global impact
 Laurent Servais (Oxford)

16:03 -16:21	Recent advances and future prospects in disease modifying therapy in spinal muscular atrophy: dawn of a new therapeutic era Maina Kava (Perth)
16:21 -16:39	Multidisciplinary approach in the management of spinal muscular atrophy in resource poor settings in developing countries: Indian model Alpana Kondekar (Mumbai)
16:39 -16:57	The ethical issues in Prevention and Treatment of Spinal Muscular Atrophy in developing countries Surbhi Rathi (Mumbai)
16:57 -17:15	Spinal Muscular Atrophy: A physiotherapy perspective of a changing clinical landscape Niamh Cushen (Vancouver)

15:45 –17:45

Career development session

Meeting room 3

Vorsitz/Chair	Maria Alejandra Spir Brunal (Medellin)
Vorsitz/Chair	Volker Hömberg ()
Vorsitz/Chair	Wayne Feng (Durham, NC)
Vorsitz/Chair	Dafin Muresanu (Cluj-Napoca)
Vorsitz/Chair	Nirmal Surya (Mumbai)
Vorsitz/Chair	Stephanie Clarke (Lausanne)
Vorsitz/Chair	Thomas Platz (Greifswald)
15:45 -15:45	Leadership skills that a new rehabilitation professional should have to be established as an independent researcher
15:45 -15:45	Importance of networking in career advancement
15:45 -15:45	How can we improve research and publication opportunities in the area of neurorehabilitation?
15:45 -15:45	How important is mentorship and preceptorship programs in career development in neurorehabilitation?

15:45 –17:15

Best of orals 2

Meeting room 18

Vorsitz/Chair

Caterina Pistarini (Pavia)

15:45 -15:54

Effect of oral neuromuscular training on decannulation and swallowing in patients with acquired brain injury: a randomized controlled pilot study
 Jesper Fabricius (Hammel)

15:54 -16:03

Feasibility of a randomized controlled trial of cognitive behavioural therapy for functional cognitive disorder after concussion
 Mathilde Rioux (Vancouver)

16:03 -16:12

Employment outcomes and predictors following spinal cord injury in Australia: a population-based cross-sectional study
 Timothy Geraghty (Brisbane)

16:12 -16:21

Long term effect of the Possover laparoscopic implantation of neuroprosthesis (the Possover LION procedure) in individuals with spinal cord injury
 Krystian Figlewski (Viborg), Victor Hvingelby (Aarhus)

16:21 -16:30

Telerehabilitation of post stroke upper limb dysfunction with a brain-computer interface controlled FES system: a proof of concept and feasibility study
 Krishnan Nair (Sheffield)

16:30 -16:39

Treatments of fatigue after spinal cord injury: a systematic review and meta-analysis
 Carlos Leonardo Cano-Herrera (Vancouver)

16:39 -16:48

The temporal evolution from "bad-news" to "life-changing" communication to SCI persons
 Sara Salizzato (Motta di Livenza)

16:48 -16:57

Effectiveness of robot-assisted training in adults with Parkinson's disease: a systematic review and meta-analysis
 Chiara Arienti (Milan)

16:57 –17:06

Gaze stabilization in persistent postural-perceptual dizziness measured with a novel VR assessment tool

Yunyi Liu (Montreal), Joyce Fung (Montreal)

15:45 –17:15

Developing world forum 4

Alternate medicine in neurorehabilitation

Meeting room 16

Vorsitz/Chair

Nirmal Surya (Mumbai)

Vorsitz/Chair

Haiqing Zheng (Guanghzou City)

15:45 –16:00

Chinese alternate medicine and neurorehabilitation

Tiebin Yan (Guangzhou)

16:00 –16:15

Universally applicable music as a tool for rehabilitation in dementia

Vidya Shenoy (Mumbai)

16:15 –16:30

Yoga as an adjunct for rehabilitation in neurological disorders

Pazhani Ranganathan (Chennai)

16:30 –16:45

Pranic healing in neurorehabilitation

16:45 –17:15

Panel discussion

Tiebin Yan (Guangzhou), Vidya Shenoy (Mumbai), Pazhani Ranganathan (Chennai), Nirmal Surya (Mumbai), Haiqing Zheng (Guanghzou City)

15:45 –17:15

SIG 15

Neuropathic Pain

Meeting room 4

SIG Chair

Marta Imamura (Sao Paulo)

15:45 –17:15

SIG 16

Neurological Conditions and Driving

Meeting room 5

SIG Chair

Carol Hawley (Coventry)

25.05.2024

17:30 –18:30

**Presidential symposium roundtable
Where do we go next?**

Plenary hall

17:30 –18:30

Round table discussion

Paul Boon (Ghent), Augustina Charway-Felli (Accra), Carlayne E. Jackson (San Antonio), Dafin Muresanu (Cluj-Napoca), Nirmal Surya (Mumbai), Volker Hömberg ()

17:30 –18:30

**Short symposium 1
Heads up on concussion! Mechanisms, symptom profiles, assessments, treatments and person-centered rehabilitation of persistent symptoms**

Meeting room 1

Vorsitz/Chair

Jan Lexell (Lund)

17:30 –18:00

The concussed brain – understanding the mechanisms and improving treatment and rehabilitation of persistent symptoms
Hana Malá Rytter (Copenhagen)

18:00 –18:30

The concussed brain – a modern approach to treatment and rehabilitation of persistent symptoms
Jan Lexell (Lund)

17:30 –18:30

**Short symposium 2
Challenges in conducting clinical trials for people with aphasia: sharing experience through research stories**

Meeting room 8

Vorsitz/Chair

Apoorva Pauranik (Indore)

17:30 -18:30 Describe the challenges faced during single-case experimental design (SCED) in aphasia
 Lyndsey Nickels (Sydney)

17:30 –18:30 **Short symposium 3**
Tele-neurorehabilitation for people in the chronic stages of neurological disorders: addressing the gap in research and treatment

Meeting room 2

Vorsitz/Chair Jennie Ponsford (Melbourne)

Vorsitz/Chair Huw Williams (Exeter)

17:30 -18:00 Mechanism-based treatments for patients in the chronic stages of neurological disorders
 Robin Green (Toronto)

18:00 -18:30 Chronic and deteriorative neural, cognitive, and mental health status in brain injury: patterns, prevalence and modifiable risk factors
 Chung Yan Isis So (London (Ontario))

17:30 –18:30 **Short symposium 4**
Dysphagia in obstructive sleep apnea and associated neurological conditions and implications for neurorehabilitation

Meeting room 19 & 20

Vorsitz/Chair Abhishek Srivastava (Mumbai)

17:30 -18:30 Dysphagia in obstructive sleep apnea and associated neurological conditions and implications for neurorehabilitation
 Ankita Bhutada (Medford, OR)

17:30 –18:30

Short symposium 5

Patient-oriented approaches for research and clinical practice in brain injury rehabilitation

Meeting room 18

Vorsitz/Chair

Jennifer Fleming (Brisbane)

17:30 –18:00

Conceptualization of self-awareness after brain injury with a patient-oriented and qualitative approach

Danielle Sansonetti (Melbourne)

18:00 –18:30

Patients as partners in brain injury rehabilitation research

Julia Schmidt (Vancouver)

17:30 –18:30

Oral communications 11

Meeting room 16

Vorsitz/Chair

Wayne Feng (Durham, NC)

17:30 –17:39

Innovative online stroke rehabilitation algorithm: conceptualization, design, implementation, and initial pilot study findings

Zohaib Shahid (Lahore)

17:39 –17:48

Stroke rehabilitation in India: assessment based on WHO STARS guidelines

Gita Handa Thukral (New Delhi)

17:48 –17:57

Temporal changes in corticospinal tract integrity and motor recovery after stroke

Sekwang Lee (Seoul)

17:57 –18:06

The effect of motor rehabilitation on brain perfusion in Parkinson's disease

Valeria Blasi (Milan)

18:06 –18:15

Enhancing stroke lesion detection and segmentation through nnU-net and multi-modal MRI Analysis

Stéphanie Leplaideur (Rennes)

17:30 –18:30

SIG 17
Telerehabilitation

Meeting room 4

SIG Chair

Annie Hill (Morningside)

Carl Froilan Leochico (Toronto)

17:30 –18:30

SIG 20
NeuroPalliative Care

Meeting room 5

SIG Chair

Navita Purohit Vyas (Mumbai)

18:45 –19:45

General assembly

Plenary hall

09:00 –10:00

Joint symposium 3
IISART joint symposium

Plenary hall

09:00 -09:20

Empowering therapists: a holistic approach to personalized neurological rehabilitation using data

Dennis Veit (Vienna)

09:20 -09:40

A clinically driven innovative solution for neurotech data collection – a meaningful tool that reflects functional outcomes

Helen Hobbs (Bristol)

09:40 -10:00

Neurotechnology's prospects for bringing about meaningful reductions in neurological impairment: lessons learned from Krakauer and Putrino into clinical daily practice

Jose Lopez Sanchez (Madrid)

09:00 –10:00

Short symposium 6

Delivering intensive rehabilitation: lessons from diverse contexts

Meeting room 1

Vorsitz/Chair

Louise A. Connell (Lancaster)

09:00 -09:20

Enhancing rehabilitation intensity: insights from Canadian experiences

Lisa Sheehy (Saskatoon)

09:20 -09:40

Using NeuroRehabilitation OnLine (NROL) to increase intensity: lessons from the UK

Suzanne Ackerley (Preston)

09:40 -10:00

Exploring whole-day activity behaviours to optimize rehabilitation intensity and outcomes

Victor Ezeugwu (Edmonton)

09:00 –10:00

Short symposium 7

Advancing patient-centred, evidence-informed, system-level improvement and innovation in neurorehabilitation: learnings from a provincial network

Meeting room 8

Vorsitz/Chair

Kiran Manhas (Calgary)

09:00 -09:30

tba

Chester Ho (Edmonton)

09:30 -10:00

tba

Kiran Manhas (Calgary)

09:00 –10:00

Joint symposium 4
INDO AFRICAN joint symposium

Meeting room 19 & 20

Vorsitz/Chair

Nirmal Surya (Mumbai)

Vorsitz/Chair

Mayowa Owolabi (Ibadan)

09:00 –09:20

Non communicable disorders in Indo African region and their
 rehabilitation measures

Talhatu K. Hamzat (Ibadan)

09:20 –09:40

Nutrition deficiency disorders in Indo African region and their
 rehabilitation measures

Nirmal Surya (Mumbai)

09:40 –10:00

Infective disorders of the nervous systems in Indo-African region and
 their rehabilitation measures

Mayowa Owolabi (Ibadan)

09:00 –10:00

Short symposium 9
**Update on cannabis treatment for neurological
 conditions**

Meeting room 3

Vorsitz/Chair

Mike Barnes (Newcastle Upon Tyne)

09:00 –10:00

tba

Mike Barnes (Newcastle Upon Tyne)

09:00 –10:00

Oral communications 12

Meeting room 18

Vorsitz/Chair

Kristina Müller (Meerbuch)

09:00 –09:09

Trunk importance in the assessment of spontaneous movements
 development using wearable technology

María Alejandra Marin Palma (Santiago)

- 09:09 -09:18 A systematic review of exoskeleton use in human spinal cord injury (SCI) rehabilitation and their impact on functional mobility outcomes
 Ka loi Argus Chiu (London)
- 09:18 -09:27 Therapeutic interaction provided by a humanoid robot acting as therapeutic assistant for arm rehabilitation after stroke
 Thomas Platz (Greifswald)
- 09:27 -09:36 Understanding digital technology usability for neurorehabilitation at home: a realistic review with expert consultation
 Nay El Hajj (Montréal)
- 09:36 -09:45 Balancing act: integrating new technologies and philosophical principles in neurorehabilitation
 Hugo Ardaillon (Lyon)

09:00 –10:00

Oral communications 13

Meeting room 16

Vorsitz/Chair

Abhishek Srivastava (Mumbai)

- 09:00 -09:09 Quality of life and its correlates among parents of children diagnosed with cerebral palsy: an observational cross-sectional study
 Mohammad Al-Wardat (Irbid)
- 09:09 -09:18 Spasticity management model for low and middle income countries based on current world health organization initiatives
 Roger De la Cerna-Luna (Lima)
- 09:18 -09:27 Delphi analysis: anatomy and BoNT-A injection training for spasticity and dystonia
 Rajiv Reebye (Vancouver)
- 09:27 -09:36 Rehabilitation approaches for children with spinal muscular atrophy: a scoping review
 Patricia Mortenson (Vancouver)
- 09:36 -09:45 Correlation of communication function with gross motor function in children with cerebral palsy
 Gulnaz Yamin (lahore)

09:45 -09:54 Pain in patients with spasticity: patient characteristics from the adult spasticity international registry (ASPIRE) study
 Esther Duarte (Barcelona), Tiziana Musacchio (Roma)

09:00 –10:00 **Poster walk 3**

Exhibition hall A & B

09:00 -09:00 Anthropometric factors affecting cardiovascular responses to postural sway and other discrete counterpressure maneuvers
 Erin Williams (Burnaby)

09:00 -09:00 Feasibility, acceptability, and potential impact of a hybrid telerehabilitation program on cardiovascular dysautonomia in Parkinson's disease
 Léo Crépin (Sherbrooke)

09:00 -09:00 Autonomic dysreflexia, dysfunction and the relation to level of neurological injury – a case series and comprehensive review of the literature
 Victor Hvingelby (Aarhus)

09:00 -09:00 Long-term Outcomes following brain TumorS (LOTUS): nationwide register-based research on social and health adversities in Danish individuals with primary brain tumors and their spouses
 Jesper Fabricius (Hammel)

09:00 -09:00 Identifying biological sex using raw, resting state EEG data combined with deep learning networks
 Naznin Virji-Babul (Vancouver)

09:00 -09:00 Open stroke rehabilitation: motor imagery-based BCI system for upper limb neurorehabilitation using EEG
 Karo Doro (Calgary), Davis Juell (Lethbridge)

09:00 -09:00 Multiple sclerosis gait rehabilitation with brain computer interface treatment
 Micah Ching (Vancouver)

09:00 -09:00	BeamBCI: the Berlin adaptable modular brain-computer interface (BCI) software Niels Peekhaus (Berlin)
09:00 -09:00	Using fNIRS to examine the impact of skill and goal-based training on resting state functional connectivity in adults with dyslexia Madilyn Orchard (Edmonton)
09:00 -09:00	Testing the hypotheses of lexical retrieval for sentence production Tanvi Sanghavi (Mumbai)
09:00 -09:00	Rehabilitation of chronic alexia with agraphia: a single-case study Tanvi Sanghavi (Mumbai)
09:00 -09:00	A new way of life, trying to figure out life after severe COVID-19 Alexandra Larsson (Gothenburg)
09:00 -09:00	Effectiveness of biopsychosocial interdisciplinary rehabilitation treatment of post-COVID condition Carolina Wiertz (Hoensbroek)
09:00 -09:00	The Impact of COVID-19 on patient outcomes during in-patient rehabilitation Jessy Sabu (Liverpool)
09:00 -09:00	A living systematic review & network meta-analysis of interventions for post COVID-19 condition Michael Ling (Hamilton)
09:00 -09:00	NX210c peptide: a promising drug candidate for blood-brain barrier repair in amyotrophic lateral sclerosis Sighild Lemarchant (Lyon)
09:00 -09:00	A comprehensive analysis of factors influencing family meeting participation in cognitive rehabilitation in dementia Da Yeong Kim (Seoul)
09:00 -09:00	Acute effects of balance and combined balance exercise are superior to aerobic exercise on cognitive functions in patients with dementia Filiz Can (Ankara)

09:00 -09:00	Auditory neuropathy spectrum disorder in Brown-Vialetto-Van Laere Syndrome Hossein Talebi (Isfahan)
09:00 -09:00	Kinematic analysis of Chinese handwriting among patients with mild cognitive impairment, Alzheimer's disease, and healthy controls Mong-Jen Kuo (Taipei)
09:00 -09:00	Participant and caregiver experiences of an activities of daily living-focused cognitive stimulation program (CS-ADL) for individuals with mild-to-moderate dementia Simone Ryan (Galway)
09:00 -09:00	An innovative view to consciousness, awareness and hope following Coma-SSIMS program Aarsi Shah (Keshod)
09:00 -09:00	Survival and clinical characteristics of patients with disorders of consciousness in a developing country Gonzalo Rivera (Santiago)
09:00 -09:00	An important factor affecting early rehabilitation of patients with severe consciousness disorders – hydrocephalus Zhen Chen (Shanghai)
09:00 -09:00	Supporting family of patients suffering from acute stroke: a feasibility study for the SAFIR-E interdisciplinary intervention Dionys Rutz (Lausanne)
09:00 -09:00	Advancing neurorehabilitation strategies for head and neck nerve damage: a review, evaluation, and proposal of innovative approaches Hannah Fleming (Omaha, NE)
09:00 -09:00	Early in-hospital rehabilitation for trunk control and functionality in the stroke unit María Presa Fernández (Madrid), Daniel Arturo Castillo Gallardo (Madrid)
09:00 -09:00	Review of mobility outcomes for transfemoral amputees at West Midlands Rehabilitation Centre Umer Saeed (Birmingham)

09:00 -09:00	The efficacy of neurofeedback therapy in patients with epilepsy: a systematic review Gargi Sunil Kuravinakoppa (Bengaluru)
09:00 -09:00	Exploring the quality of life in prisoners with epilepsy: an observational study Nirmal Surya (Mumbai), Hitav Someshwar (Mumbai)
09:00 -09:00	An observational, cross-sectional and monocentric study assessing psychological and cognitive features as main predictors of psychological well-being in stroke survivors Matilde Leonardi (Milan)
09:00 -09:00	Characterizing stroke survivorship: interactions between the WHO-ICF impairment, activity and participation domains and their impact on perceived stroke recovery Yee Sien Ng (Singapore)
09:00 -09:00	Kinematic biomarkers of limb shortening and compensations in hemiparetic subjects: a systematic review Camille Cormier (Toulouse)
09:00 -09:00	Understanding stimulation parameters for transcutaneous spinal cord stimulation in research involving persons living with spinal cord injuries: a scoping review Amanda McIntyre (London, Ontario)
09:00 -09:00	Effect of different types of electrical stimulation on postural control in stroke patients: a systematic review Ahmed Elsayed (Sohag)
09:00 -09:00	Early therapeutic exercise in post-cardiac arrest brain injury: 8-week intervention Arantxa Castrillo Calvillo (Madrid), Daniel Arturo Castillo Gallardo (Madrid)
09:00 -09:00	Brain power hour: experiences in a physical activity and recreational walking program for adults with acquired brain injury Cameron S. Mang (Regina)

09:00 -09:00	Paired neurologic music therapy and transcranial direct current stimulation for upper extremities following stroke Chantelle C. Caputo (Toronto)
09:00 -09:00	The strength of associations between ultrasound measures of upper limb muscle morphology and isometric muscle strength Christina Whang (Vancouver)
09:00 -09:00	Development and feasibility of a new tool - Rehabilitation Oculomotor Screening Evaluation (ROSE) - in acquired brain injuries Elizabeth Dannenbaum (Laval), Joyce Fung (Montreal)
09:00 -09:00	Predicting daily life accelerometry measures: are clinical or robotic assessments effective predictors? Isabelle Poitras (Québec)
09:00 -09:00	Effect of proprioceptive neuromuscular facilitation (PNF) on body balance: a systematic review protocol with meta-analysis Juliana Cristina Souza Alves (Serra)
09:00 -09:00	Association between lower limb dexterity and functional performance in older adults Kirtika Lakshminarayan (Bengaluru)
09:00 -09:00	Activity but not quality of life is improved after an intensive multidisciplinary rehabilitation in 42 patients with genetic degenerative ataxia: a retrospective study Sébastien Mateo (Lyon)
09:00 -09:00	Opening the black box of self-directed exercise after stroke: a realist review Madeleine Kenny (Bradford)
09:00 -09:00	Vibration-induced postural reactions: scoping review on parameters and populations studied Marie-Pier Perron (Chicoutimi)
09:00 -09:00	Designing post-stroke upper limb motor interventions to optimize recovery: an international qualitative study Matt Wingfield (Carlton)

09:00 -09:00	The impact of hand function training with a novel device in a sample of chronic stroke patients Mikayla Marshall (Cambridge)
09:00 -09:00	Measurement and rehabilitation of finger motor control after stroke Påvel Lindberg (Paris)
09:00 -09:00	Which treatment choice for severe spasticity of the upper limb in adults? Strategy adopted in two patients Sarrah Ait Ziane (Douéra)
09:00 -09:00	Combined therapeutic effects of repetitive botulinum toxin a injections, tendon transfer surgery, and occupational therapy for severe upper limb spasticity Takatoshi Hara (Kodairashi)
09:00 -09:00	Online GRASP (graded repetitive arm supplementary program) - a service evaluation Eva-Belinda Lewis (Pontypool)
09:00 -09:00	Application of respiratory rehabilitation in respiratory peripheral system diseases Tingting Yu (Nanjing City)
09:00 -09:00	"NeuroSask: Active and Connected" - virtual programming for people with a neurological condition Sarah J Donkers (Saskatoon)
09:00 -09:00	Mediterranean-like diets as a neurorehabilitation method in multiple sclerosis: a systematic review Amirreza Naseri (Tabriz)
09:00 -09:00	Multiple sclerosis therapies rather than medications Ashraf Alsawareah (Madaba)
09:00 -09:00	Understanding health challenges and rehabilitation practices in multiple sclerosis in a resource limited setting: cross-sectional study for development of a mobile health application for rehabilitation of relapsing multiple sclerosis Dheeraj Khurana (Chandigarh)

09:00 -09:00	Fatigue moderates the relationship between fear of falling and physical functioning among persons with multiple sclerosis Libak Abou (Ann Arbor, MI)
09:00 -09:00	Procyanidin B2 protects astrocytes from H2O2-induced oxidative damage through Nrf2/HO-1 and Akt/Stat3 signaling pathways Shuwen Yuan (Jinzhong)
09:00 -09:00	Development of an online visual scanning treatment for visuo-spatial neglect post-stroke: a single-case study series Nicholas Murphy (Halifax)
09:00 -09:00	Non-invasive novel spinal cord functional evaluation using fNIRS: insights from complete traumatic injuries Juan Pablo Appelgren Gonzalez (Santiago)
09:00 -09:00	Enhancing our understanding of neural mechanisms underlying tool use performance: a comparative analysis of apraxia patients and healthy older adults Clara Seifert (Munich)
09:00 -09:00	Towards the future of neuroimaging: development of an ultra-low field MRI with a pump-probe-type optically pumped magnetometer Tetsuo Kobayashi (Kyoto)
09:00 -09:00	Effects of non-invasive neuromodulation on food cravings, chewing patterns and executive functions Marta Lira-Batista (Teresina)
09:00 -09:00	A systematic review of vestibular stimulation in post-stroke visual neglect Mohamed Sakel (Canterbury)
09:00 -09:00	Repetitive transcranial magnetic stimulation improves cognitive outcomes in patients with persistent post-concussion symptoms Alison Wilson (Calgary)
09:00 -09:00	Translation of transcranial magnetic stimulation into speech-language pathology practice: a survey Ellen Williams (Adelaide)

09:00 -09:00	Effects of posterior parietal cortex and cerebellum anodal transcranial direct current stimulation on ankle tracking visuomotor adaptation in healthy young adults I-Fei Cho (Taipei)
09:00 -09:00	Intermittent theta-burst stimulation of left superior parietal cortex enhances motor retention of new skills in healthy subjects Pierre Nicolo (Carouge)
09:00 -09:00	Electric field simulation and appropriate electrode positioning for optimized transcranial direct current stimulation of stroke patients: an <i>In Silico</i> model Seonghoon Lim (Seoul)
09:00 -09:00	Effects of sequential cerebral and cerebellar rTMS in stroke patients Won Hyuk Chang (Seoul)
09:00 -09:00	The role of intensive neurorehabilitation in Friedreich Ataxia Andrea Martinuzzi (Conegliano)
09:00 -09:00	Psychosocial interventions for people with amyotrophic lateral sclerosis and motor neuron disease and their caregivers: a scoping review Juyeon Oh (Cheonan-si)
09:00 -09:00	Functional outcome improvements in spinal muscle atrophy (SMA) after onasemnogene abeparvovec: a 1 year follow-up trend Sneha BS (Bengaluru)
09:00 -09:00	Neuroscience at the crossroads of pathogenesis and salutogenesis: unveiling epistemic opportunities in sleep medicine research Ludmila Litvin (Berlin)
09:00 -09:00	The night time movement index measured by the under-mattress sensor can be a useful index that reflects the effectiveness of inpatient rehabilitation Kikuo Ota (Toyoake)
09:00 -09:00	Characteristics of limb position senses with different measurement methods in healthy adults Seo Jung Yun (Seoul)

09:00 -09:00	English translation and cultural adaptation of Cog-First: validation of a French tablet-based tool into the English clinical setting Camille Heslot (Paris)
09:00 -09:00	Exploring music as mnemonics and brain plasticity in individuals at risk of developing Alzheimer's disease Annie Chu (Toronto)
09:00 -09:00	Cognitive function and fatigue before and after transsphenoidal surgery in pituitary adenoma patients: a prospective longitudinal study David Krabbe (Gothenburg)
09:00 -09:00	A good "old" paper puzzle – an important part of cognitive rehabilitation therapy Dimitar Maslarov (Sofia)
09:00 -09:00	'Talk and Chalk': initial efficacy of a virtually administered emotion regulation intervention for anger after brain injury Jade Witten (Vancouver)
09:00 -09:00	Taking control of your functional cognitive disorders workbook: novel neuro-behavioral therapy treatment introduction & pilot data presentation Erica Cotton (Chicago, IL)
09:00 -09:00	The effect of dance on brain structure and function in elderly patients with mild cognitive impairment: a systematic review Huifang Tian (Suzhou), Tong Wang (Nan Jing)
09:00 -09:00	Prior exposure to environmental enrichment protects against learning and memory deficits caused by sepsis-associated encephalopathy Shan Jiang (Beijing)
09:00 -09:00	Follow-up of 4 years of rehabilitation in multiple sclerosis: clinical case report Marcos Maldonado (Santiago)
09:00 -09:00	The relationship between playing mahjong and the execution function of switching: a pilot study Zita C. K. Tse (Hong Kong)

09:00 -09:00	Impact of WFNR mentorship programme in developing countries – a case scenario Arun Shivaraman M M (Coimbatore)
09:00 -09:00	Changes in functional independence after inpatient rehabilitation in patients with spinal cord injury: a simultaneous evaluation of prognostic factors Elham Loni (Tehran)
09:00 -09:00	Navigating the landscape of neurorehabilitation devices: a comprehensive analysis of market dynamics, trends, and opportunities in India Kavita Kachroo (Visakhapatnam)
09:00 -09:00	Effectiveness of custom made rehabilitation programs across spectrum of deficits in chronic stroke: a case series Neha Karandikar (Pune)
09:00 -09:00	Analysis of the burden of the caregiver of vascular hemiplegic in the rehabilitation phase at the bogodogo university hospital center (CHU-B) Yirozounlomian Tiaho (Ouaga)
09:00 -09:00	Randomised evaluation of early v late cranioplasty: a pilot study Harry Mee (Cambridge)
09:00 -09:00	Brain function tests: empowering rehab clinicians, patients & caregivers in brain injury rehab: novel evaluation tools for assessing the functional abilities in brain injured patients Srinivasan Sharan (Bengaluru)
09:00 -09:00	Spinal cord function tests – empowering the rehab clinician, patient & caregivers in SCI rehabilitation: novel evaluation tools for assessing the functional abilities in SCI Srinivasan Sharan (Bengaluru)
09:00 -09:00	Supporting equity in symptom score reporting: development of a picture based version of the SP-36 limitations of activity domain for rehabilitation medicine Bennett Stothers (Vancouver)

09:00 -09:00	Does vitami D 25 (OH) influence early knee osteoarthritis? Bushra Kaffoura (Rak)
09:00 -09:00	EXALT ergometer: bridging clinical needs and technological innovation for lower extremity rehabilitation Camille Martin (Sherbrooke)
09:00 -09:00	Investigating the impact of patient-reported outcome measures in audiology outside the clinical environment Kathleen Vilamitjana (Edmonton)
09:00 -09:00	GoPro-based mobility assessment: bridging the gap between technology and clinical practice for functional mobility evaluation Sara Houde (Sherbrooke)
09:00 -09:00	A new approach to the management of neuropathies and pain from neurorehabilitation Daniel Jiménez Masa (Madrid)
09:00 -09:00	Caudal epidural injection in adolescent patient with linezolid-induced peripheral polyneuropathy Hye Chan Ahn (Daegu)
09:00 -09:00	Transcranial magnetic stimulation in central post-stroke pain: a systematic review Tze Chao Wee (Singapore)
09:00 -09:00	Effect of an intensive, structured, and progressive physiotherapy intervention on PD patients – a pilot study Archana Ranade (Pune)
09:00 -09:00	Cognitive flexibility training can improve postural function in people with Parkinson's disease Arun Singh (Vermillion, SD)
09:00 -09:00	Comparison of cognitive orientation to daily occupational performance and conventional occupational therapy in Parkinson's disease: a randomized clinical trial Atefeh Taheri (Tehran)

- 09:00 -09:00 Motor effects of combining bilateral repetitive transcranial magnetic stimulation and EEG-guided neurofeedback in Parkinson's disease: a pilot randomized, four-arm controlled trial
 Juan Pablo Romero Muñoz (Pozuelo de Alarcón), Marcos Moreno Verdú (Brussels)
- 09:00 -09:00 Digital measurement of ocular microtremor in Parkinson's disease: reliability and clinical validation evidence
 Lisa Graham (Newcastle upon Tyne)
- 09:00 -09:00 The role of life-long exposure to stimulating activities in explaining the gap between brain changes and telerehabilitation response in Parkinson's disease
 Sara Isernia (Milano)
- 09:00 -09:00 Dysphagia: the experience of people with Parkinson's disease
 Waad Alolayan (Edmonton)
- 09:00 -09:00 Relationship between tactile perception and quality of upper limb movement in children with hemiplegic cerebral palsy
 Ai-Rung Tsai (Taipei)
- 09:00 -09:00 Theory-driven exergame-based rehabilitation program to improve reaching movements of children with cerebral palsy: a design consideration
 Bruna de Souza da Silva (Atlanta, GA)
- 09:00 -09:00 Management of spinal deformity and oblique pelvis in unilateral cerebral palsy
 Hanène Belabbassi (Alger)
- 09:00 -09:00 Animal-assisted intervention for walking and balance training partnered with a rehabilitation dog for children living with cerebral palsy: a mixed methods case series
 Sarah J Donkers (Saskatoon)
- 09:00 -09:00 The efficacy of kinect-based bimanual intensive training program: daily motor functions in children with unilateral cerebral palsy
 Yu-An Tsai (Taipei)

09:00 -09:00	Donepezil and memantine combined in the treatment of Alzheimer's disease Carolina Tomicki (Pato Branco)
09:00 -09:00	Awareness of the vestibular system in neurorehabilitation: a scoping review Tiev Miller (Vancouver)
09:00 -09:00	Effects of cognitive task complexity and type on dual-task interference during obstacle negotiation in people with chronic stroke Tiev Miller (Vancouver)
09:00 -09:00	Baseline scores and diagnostic accuracy of the Oxford Visual Perception Screen Kathleen Vancleef (Durham)
09:00 -09:00	Vocational rehabilitation for coloradans living with traumatic brain injury Cristina Parsons (Centennial, CO)
09:00 -09:00	Educating competent health care professionals through hybrid education: a case illustration on student outcome comparison Keli Mu (Omaha, NE)
09:00 -09:00	Prognostic indicators, impact of medical and vocational rehab and workplace related factors on Return to Work (RTW) Wilfried Schupp (Fuerth)
09:00 -09:00	What do you do when there are gaps in peer-reviewed evidence? Insights from the Canadian guideline for rehabilitation of adults with moderate to severe traumatic brain injury Mark Bayley (Toronto)
09:00 -09:00	Facial expressions of older adults during interactions with a tabletop robot Adina M. Panchea (Sherbrooke)
09:00 -09:00	Test-retest reliability and concurrent validity of IMU sensor-based kinematic metrics during upper limb exercises in stroke patients Anthonia Janne Langerak (Rotterdam)

09:00 -09:00	Family goals related to robotic walking and feasibility of use in the community for children with impaired mobility Christa Diot (Calgary)
09:00 -09:00	Impact of overground robot-assisted gait training on quality of life, depression and anxiety in chronic complete spinal cord injury (SCI): a case report Nur Shafawati Kamsani (Singapore)
09:00 -09:00	Neuromuscular electrical stimulation as a spasticity reduction tool before functional hand and gait training in two persons with stroke Aitor Martín-Odriozola (Donostia-San Sebastián)
09:00 -09:00	Effects of muscle shortening maneuver on a child with cerebral palsy: a case report Diego Longo (Florence)
09:00 -09:00	Moving casting into clinical practice: a knowledge translation proposal Jeanne Yiu (Vancouver)
09:00 -09:00	Initial validation of structured patient self-reports on three treatment-relevant symptoms of upper limb spastic movement disorders (UL-SMD) after stroke Klemens Fheodoroff (Hermagor)
09:00 -09:00	Long-term effect of the selective tibial neurotomy for the treatment of the spastic foot evaluated by a patient goal-centered approach Patrick Mertens (Lyon)
09:00 -09:00	Multisite treatment in upper and lower limb with percutaneous cryoneurolysis for hemiplegia in long standing refractory post stroke spasticity Romain David (Poitiers)
09:00 -09:00	Exercise therapy for the improvement of muscle strength and function of upper extremity in adults with cervical spinal cord injury: a systematic review with network meta-analysis Chiara Arienti (Milan)

- 09:00 -09:00 Determinants of the practice of adapted sports and physical activity in individuals with spinal cord injury: a 20-year retrospective study
 Cynthia Maris Lemes ponzo Ribeiro (Belo Horizonte)
- 09:00 -09:00 Exploring the effect of functional electrical stimulation (FES) cycling paired with repetitive transcranial magnetic stimulation (rTMS) to improve lower extremity function following incomplete spinal cord injury (iSCI)
 Fereshteh Ghahremani (London, Ontario)
- 09:00 -09:00 Impact of cervical spine immobilization on clinical outcomes in traumatic brain injury patients according to prehospital mean arterial pressure: a multinational and multicenter observational study
 Jung Ho Lee (Dong-gu, Gwangju)
- 09:00 -09:00 Analysis of factors influencing heart rate recovery in spinal cord injury patients
 Min Cheol Joo (Iksan)
- 09:00 -09:00 Cure in the context of communicating progress in spinal cord injury research in traditional news and social media
 Salwa Malhas (Vancouver)
- 09:00 -09:00 Unmet healthcare needs in spinal cord injury: an Australian cross-sectional study
 Timothy Geraghty (Brisbane)
- 09:00 -09:00 Variability and potential mechanisms of altered spinal reflexes after incomplete spinal cord injury as assessed with the soleus H-reflex
 Yao Sun (Vancouver)
- 09:00 -09:00 A systematic review of randomized controlled trials of post-stroke upper extremity rehabilitation in low-middle-income and high-income countries and within different regions of high-income countries
 Sarvenaz Mehrabi (London, Ontario), Robert Teasell (London, Ontario)
- 09:00 -09:00 A systematic review of female participation in randomized controlled trials of post-stroke upper extremity rehabilitation in low to middle-income countries and high-income countries in different world regions
 Sarvenaz Mehrabi (London, Ontario), Robert Teasell (London, Ontario)

09:00 -09:00	Quantifying movement in moderate intensity multimodal circuit training for stroke individuals Ana Flávia Silveira (Sao Carlos)
09:00 -09:00	Implementation of goal setting in rehabilitation in people with stroke Annemie Spooren (Hasselt)
09:00 -09:00	Effect of a sensorimotor exercise regime for upper limb deficits in the in-hospital phase after a supratentorial stroke (SMULS) Dorcas Gandhi (Ludhiana)
09:00 -09:00	A 4-week Home GRASP program including sensor-based feedback enhances perceived and actual upper limb performance in the chronic phase after stroke Geert Verheyden (Leuven)
09:00 -09:00	Feasibility and benefit of early vocational rehabilitation for people with stroke: a randomized controlled trial Natasha A. Lannin (Melbourne)
09:00 -09:00	Transformation but not generation of motor images is disrupted following stimulation over the inferior parietal lobe: implications for motor imagery in stroke rehabilitation Alisha Davis (Lake Country)
09:00 -09:00	Exploring the views of people with stroke regarding aerobic exercise participation during inpatient and outpatient rehabilitation: a qualitative study Azadeh Barzideh (Toronto)
09:00 -09:00	Bilateral performance of a drinking task improves movement kinematics of the affected arm after stroke Bonnie Perry (Jackson, MS)
09:00 -09:00	Exercise beliefs, barriers and facilitators: a survey of community-dwelling people after stroke involved in the Falls After Stroke Trial Catherine Dean (Sydney)
09:00 -09:00	Effects of mirror therapy proceeding augmented reality in stroke rehabilitation: a study protocol Chia-jung Lin (Taipei)

09:00 -09:00	Virtual reality and cognitive rehabilitation: an experimental study Deepa Sundareswaran (Chennai)
09:00 -09:00	Trunk control and acute-phase multifactorial predictors of community mobility after stroke: a longitudinal observational study Fayaz Khan (Jeddah)
09:00 -09:00	Pre-exercise training upregulates irisin to promote the transmission of astrocyte mitochondrias to neurons to alleviate neurological dysfunction in mice with cerebral infarction Feng Yifeng (Guangzhou City)
09:00 -09:00	Effects of swing timing differences between a cane and a paretic lower limb on walking speed in hemiplegic patients Fumihiro Matsuda (Toyoake)
09:00 -09:00	Repeated Transcranial Magnetic Stimulation (rTMS) combined with human umbilical cord mesenchymal stem cell therapy improves neurological outcomes in ischemic rats by reducing the panoptosis of neurons in the subacute phase of cerebral infarction Haiqing Zheng (Guanghzou City)
09:00 -09:00	Examining the effects of dance on physical and psychosocial function in chronic stroke Hayley Ng (Markham)
09:00 -09:00	Exploring new ways of defining risk and determinants of post-stroke cognitive decline Juan Pablo Saa (Melbourne)
09:00 -09:00	Prevalence of people presenting with upper limb weakness within the first week post-stroke is shifting Kathryn Hayward (Melbourne)
09:00 -09:00	How does the therapeutic alliance relate to self-management in community stroke rehabilitation? Exploring the views of healthcare professionals Lauren Lucas (Manchester)

09:00 -09:00	Cardiac source of ischemic stroke may be associated with worse patient outcome upon discharge: a pilot study from southern Armenia Lilit Avetisyan (Yerevan)
09:00 -09:00	Stroke rehabilitation. A mixed method study evaluating a novel physiotherapy intervention and patients' experiences Marianne Sivertsen (Bodø)
09:00 -09:00	Vision rehabilitation: case reports on 2 subacute stroke patients presenting with diplopia Max Lim (Singapore)
09:00 -09:00	Stakeholder engagement in codesign of stroke interventions is perceived as valuable and worthwhile Natalie Fini (Parkville)
09:00 -09:00	Arm-hand boost therapy during inpatient stroke rehabilitation: results from a phase II randomized controlled trial Sarah Meyer (Herk-de-Stad)
09:00 -09:00	AI (Artificial Intelligence) determination of functional ambulatory category of stroke patients Shi-Uk Lee (Seoul)
09:00 -09:00	Feasibility of high intensity gait training in subacute stroke during inpatient rehabilitation: results from a pilot quality improvement project Soukaina Paquin (Montreal)
09:00 -09:00	Feasibility and effects of a novel game-based biofeedback interface for stroke gait retraining Trisha Kesar (Atlanta, GA)
09:00 -09:00	Enhancing occupational therapists' and interns' perceptions of GRASP for upper-extremity hemiparesis: an implementation science study using an educational module Yu-Wei Pan (Taoyuan)
09:00 -09:00	Examining the relationship between upper extremity motor recovery and unilateral changes in arterial and intramuscular blood flow among people with chronic stroke: a cross-sectional study Marco Pang (Hong Kong)

09:00 -09:00	Lunch date versus peg tube procedure Neha Singh (Houston, TX)
09:00 -09:00	Physical exercise recovers the FUNDC1-dependent MAMs after ischemic stroke Xiaofeng Yang (Guangzhou City)
09:00 -09:00	Assessment and intervention of speech and swallowing in a young adult with lateral medullary syndrome - a case study Tasneem Motiwala (Mumbai)
09:00 -09:00	Effect of neuromuscular electrical stimulation along with traditional swallowing therapy in a young patient with lateral medullary syndrome: a case study Tasneem Motiwala (Mumbai)
09:00 -09:00	Comparing the use of the Munich dysphagia test for Parkinson's disease (MDT-PD) in an inpatient neurorehabilitation and an outpatient neurologist setting Auguste Tautscher-Basnett (Hermagor)
09:00 -09:00	Application of swallowing disturbance questionnaire for screening dysphagia in patients with multiple system atrophy Juyoung Kang (Seoul)
09:00 -09:00	iSpeak: a digital companion for speech assessment Chris Easthope Awai (Vitznau)
09:00 -09:00	Effect of sociodemographic variables on functional recovery of the paretic arm after applying constraint induced movement therapy in remote versus face-to-face modality Mauro Obreque (Temuco)
09:00 -09:00	A review of tools for telerehabilitation of acquired neurogenic language disorders in Arabic Mohamed Taiebine (Fez)
09:00 -09:00	Preferred technology-based solutions for meeting the needs of young adults with stroke in australia: a cross-sectional study Marie-Louise Bird (Launceston)

09:00 -09:00	Tele-assessments for upper extremity motor function in stroke rehabilitation – a systematic review Lena Sauerzopf (Winterthur)
09:00 -09:00	Acceptability and readiness of tele-rehabilitation among stroke survivors – a cross-sectional study – data from GUTTS (GroUp TelerehabilitaTion for Stroke Survivors) study phase 1 Mandeep Mandeep (Chandigarh)
09:00 -09:00	Developing ROSIA (Remote Rehabilitation Services For Isolated Areas): the EU ROSIA pre-commercial procurement project, results of phase 1 and 2 Rajni Mamgain (Dublin)
09:00 -09:00	Digital therapeutics for knee joint recovery after total knee replacement surgery: a reliability and validity study Yeon Gyo Nam (Asan-si)
09:00 -09:00	Evidence-based review of randomized controlled trials of interventions for mental health management post moderate to severe traumatic brain injury Robert Teasell (London, Ontario)
09:00 -09:00	Recovery from paroxysmal sympathetic hyperactivity after severe traumatic brain injury following the administration of bromocriptine medication: a case report Sangwon Hwang (Daejeon)
09:00 -09:00	Naturalistic psychedelic use for TBI symptom management: findings from the global psychedelic survey Baeleigh VanderZwaag (Victoria)
09:00 -09:00	High-sensitivity C-reactive protein is a predictor of depression in patients with mild traumatic brain injury CM Park (Dong-gu, Gwangju)
09:00 -09:00	Predictors of return to work in the first year after severe traumatic brain injury: a prospective, observational cohort study Ian Manhoni Baiense (Vitória)

09:00 -09:00	<p>Attentional blink post-concussion: association with fear-avoidance constructs and implications for intervention</p> <p>Medha Amarnath Nair (Burnaby), Molly Cairncross (Burnaby)</p>
09:00 -09:00	<p>Upper limb pointing movement performance in individuals with concussions</p> <p>Sandeep Subramanian (San Antonio, TX)</p>
09:00 -09:00	<p>Older drivers with cognitive impairment show slower take-over performance during automated driving</p> <p>Hannes Devos (Kansas City, KS), Laurie Steen (Kansas City, KS)</p>
09:00 -09:00	<p>Identifying key stakeholder goals and priorities for cognitive neurorehabilitation using virtual reality to inform co-design of future applications</p> <p>Hannah Gullo (Brisbane)</p>
09:00 -09:00	<p>Effects of immersive virtual reality to improve hand motor control by action observation training</p> <p>Roberto Gatti (Pieve Emanuele, Milano)</p>
09:00 -09:00	<p>Virtual reality in cognitive rehabilitation: neural mechanisms from fMRI research</p> <p>Lukas Lorentz (Aachen)</p>
09:00 -09:00	<p>Flow experience during immersive virtual reality training in patients with stroke with neglect or apraxia</p> <p>Tim Vanbellinghen (Bern)</p>
09:00 -09:00	<p>UTI in Sci</p> <p>Saeed Alshahri (Riyadh)</p>
09:00 -09:00	<p>Enhancing Cognitive Inhibition in Older Adults Through Exergame</p> <p>Qiu Yang (Singapore)</p>
09:00 -09:00	<p>Pediatric traumatic brain injury: the effects of anxiety and depressive disorders</p> <p>Madaline Witort (Cleveland, OH)</p>
09:00 -09:00	<p>Effect of memantine in chronic post-stroke aphasia: a case report</p> <p>Ameya Joshi (Cleveland, OH)</p>

09:00 -09:00	Brain wellness, beyond all boundaries: from idea to implementation Silke Appel-Cresswell (Vancouver)
09:00 -09:00	Machine learning-based prediction of cognitive function in patients with cognitive impairment Ji Soo Baik (Yangsan)

10:00 –12:15 **Poster self-study**

Exhibition hall A & B

10:15 –11:45 **Symposium 30** **Early supported discharge in stroke: commonalities and differences between continents**

Plenary hall

Vorsitz/Chair	Nam-Jong Paik (Seoul)
Vorsitz/Chair	Lena Rafsten (Gothenburg)
10:15 -10:45	Early supported discharge in stroke: Korean scenario Nam-Jong Paik (Seoul)
10:45 -11:15	Early supported discharge in stroke: Scandinavian scenario Lena Rafsten (Gothenburg)
11:15 -11:45	Early supported discharge in stroke: Asia-Pacific scenario Kenneth Fong (Hong Kong)

10:15 –11:45 **Symposium 31** **INCOG 2.0 guidelines for cognitive rehabilitation following traumatic brain injury: state of the science and strategies to promote implementation**

Meeting room 1

Submitter	Diana Velikonja (Burlington)
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10:15 -10:30	tba Diana Velikonja (Burlington)
10:30 -10:45	tba Mark Bayley (Toronto)
10:45 -11:00	tba Jennie Ponsford (Melbourne)
11:00 -11:15	tba Eliyas Jeffay (Toronto)
11:15 -11:30	tba Mary Kennedy (Irvine, CA)

10:15 –11:45 Symposium 32

Robotics: innovation for neurological rehabilitation, serving people

Meeting room 8

Vorsitz/Chair	Caterina Pistarini (Pavia)
10:15 -10:37	tba Alessandro Giustini (Rome)
10:37 -10:59	tba Alberto Esquenazi (Elkins Park, PA)
10:59 -11:21	tba Hermano Igo Krebs (Boston, MA)
11:21 -11:43	Creating a multidisciplinary community for robotic rehabilitation Kristýna Hoidekrová (Kladruby)

10:15 –11:45

Symposium 33

Functional electrical cycling for spinal cord injury rehabilitation: development of an international evidence-based clinical practice guideline

Meeting room 2

Vorsitz/Chair

Tova Plashkes (Vancouver)

10:15 –10:40

Systematic reviews of functional electrical stimulation cycling for spinal cord injury rehabilitation to inform development of an international clinical practice guideline

Ashraf S. Gorgey (Richmond, VA)

10:40 –11:05

Development of international clinical practice guidelines for functional electrical stimulation cycling for spinal cord injury rehabilitation: an examination of the methods

Hope Jervis-Rademeyer (Edmonton)

11:05 –11:30

Overcoming challenges related to the development of an international clinical practice guideline for functional electrical stimulation cycling for SCI rehabilitation

Chester Ho (Edmonton)

11:30 –11:45

Discussion round

10:15 –11:45

Joint symposium 5

American Academy of Neurology (AAN) joint symposium

Meeting room 19 & 20

10:15 –10:33

Harnessing the microbiome to treat stroke and age-related cognitive decline

Louise D. McCullough (Houston, TX)

10:33 –10:51

A study to confirm safety and efficacy of lecanemab in participants with early Alzheimer's disease (Clarity AD)

Christopher van Dyck (New Haven, CT)

- 10:51 -11:09 Closing the loop in neuromodulation
 Costantino Iadecola (New York, NY)
- 11:09 -11:27 Brain Health
 Bradley Lega (Dallas, TX)
- 11:27 -11:45 Autoimmune encephalitis: diagnosis and management
 Divyanshu Dubey (Rochester, MN)

10:15 –11:45

Symposium 34

Dosage of upper extremity training in neurological disorders: evidence, recommendations and clinical messages

Meeting room 3

- Vorsitz/Chair Sean P. Dukelow (Calgary)
- 10:15 -10:45 Multidimensional dose articulation framework and implementation in clinical trials
 Kathryn Hayward (Melbourne)
- 10:45 -11:15 High-dosage therapy in the early phase post stroke with a focus on moderate to severe upper limb impairment
 Lisa Tedesco Triccas (Hasselt)
- 11:15 -11:45 Therapy dose in upper limb rehabilitation in cervical spinal cord injury: linking evidence to clinical practice
 Annemie Spooren (Hasselt)

10:15 –11:45

Symposium 35

What spasticity is... and is not: new insights

Meeting room 18

- Vorsitz/Chair Gerard Francisco (Houston, TX)
- Vorsitz/Chair Jorge Hernandez Franco (Mexico City)
- 10:15 -10:45 What spasticity is: new pathophysiologic insights
 Gerard Francisco (Houston, TX)

10:45 -11:15 What spasticity is not: paratonia and other forms of rigidity
 Jorge Hernandez Franco (Mexico City)

11:15 -11:45 Botulinumtoxin Type A for conditions other than spasticity: tremors,
 dystonias and paratonia
 Jörg Wissel (Berlin)

10:15 –11:45 Symposium 36
Wearable technology in neurorehabilitation: towards
improved measurement of performance for everyday
activities

Meeting room 16

Vorsitz/Chair Marika Demers (Montreal)

10:15 -10:45 The real-life activity of upper and lower limb in persons with stroke
 Margit Alt Murphy (Gothenburg)

10:45 -11:15 Do improvements in the clinic translate to improvements in real life
 activity
 Catherine Lang (Seattle, WA)

11:15 -11:45 Users' perspectives on wearable technology in stroke rehabilitation
 Marika Demers (Montreal)

12:00 –13:45 Round table 4
Communicating the prognosis following Spinal Cord
Injury (SCI)

Plenary hall

Vorsitz/Chair Humberto Cerrel Bazo (Motta di Livenza)

Vorsitz/Chair Gabriel Zeilig (Ramat Gan)

12:00 -12:15 Issues in communicating prognosis after injury
 Jennie Ponsford (Melbourne)

12:15 -12:30	The physiological approach of recovery as a tool for communicating prognosis and giving hope Humberto Cerrel Bazo (Motta di Livenza)
12:30 -12:45	The effect of prognostic communication on patient outcomes Colleen M O'Connell (Halifax)
12:45 -13:00	When, where and how to communicate prognosis in SCI Michele Spinelli (Milan)
13:00 -13:15	Prognosis communication and participation in research trials: tips and tricks Antonio Oliviero (Madrid)
13:15 -13:30	What are the implications of nondisclosure of a poor prognosis to patients Gabriel Zeilig (Ramat Gan)
13:30 -13:45	Discussion round

12:15 –13:45 Symposium 37

Learnings from stroke rehab and recovery: implementing national clinical trials networks

Meeting room 1

Vorsitz/Chair	John M. Solomon (Manipal)
12:15 -12:45	Learnings from a stroke clinical trial network: an Australian historical perspective Kathryn Hayward (Melbourne)
12:45 -13:15	Learnings from a stroke clinical trial network: an American historical perspective Steve Wolf (Atlanta, GA)
13:15 -13:45	Learnings from a stroke clinical trial network: a Canadian historical perspective Sean P. Dukelow (Calgary)

12:15 –13:45

Symposium 38

Implementing advances in neurorehabilitation across the globe: challenges and solutions

Meeting room 8

Vorsitz/Chair

Caterina Pistarini (Pavia)

Vorsitz/Chair

Matilde Leonardi (Milan)

12:15 -12:45

Creating equitable and inclusive access to neurorehabilitation services for patients in the low resource settings

Rajinder K. Dhamija (New Delhi)

12:45 -13:15

Promoting access to interdisciplinary care in neurorehabilitation

Matilde Leonardi (Milan)

13:15 -13:45

Global synergistic actions to improve brain health for human development

Mayowa Owolabi (Ibadan)

12:15 –13:45

Symposium 39

Precision Neurorehabilitation for better outcomes in patients with neurological disorders: The past, the present and the future

Meeting room 2

Vorsitz/Chair

Volker Hömberg ()

12:15 -12:33

Introduction

Volker Hömberg ()

12:33 -12:51

tba

Rajinder K. Dhamija (New Delhi)

12:51 -13:09

tba

Wayne Feng (Durham, NC)

13:09 -13:27

tba

Mayowa Owolabi (Ibadan)

13:27 -13:45 Evidence, technology, education and implementation activities to support better outcomes in neurorehabilitation today and even more so tomorrow
 Thomas Platz (Greifswald)

12:15 –13:45 **Joint symposium 6** **AOCNR joint symposium**

Meeting room 19 & 20

Vorsitz/Chair Nirmal Surya (Mumbai)

Vorsitz/Chair Teresita Joy Evangelista (Manila)

12:15 -12:30 Spasticity, muscle overactivities and BTX-A injection as well as chemoneurolysis
 Witsanu Kumthornthip (Nakhon Pathom)

12:30 -12:45 Botulinum toxin in cerebral palsy
 Teresita Joy Evangelista (Manila)

12:45 -13:00 Exploring alternative treatment in headache management
 Nirmal Surya (Mumbai)

13:00 -13:15 Rationale and decision-making in neurorehabilitation of the upper extremities
 Norhayati Hussein (Wilayah Persekutuan)

13:15 -13:30 Artificial intelligence in neurorehabilitation
 Nam-Jong Paik (Seoul)

13:30 -13:45 Discussion
 Witsanu Kumthornthip (Nakhon Pathom), Teresita Joy Evangelista (Manila), Nirmal Surya (Mumbai), Norhayati Hussein (Wilayah Persekutuan), Nam-Jong Paik (Seoul)

12:15 –13:45

Symposium 40

At-home technical-driven neurorehabilitation with equal access for all

Meeting room 3

Vorsitz/Chair

Hans Bussmann (Rotterdam)

12:15 -12:37

The Convergence Human Mobility Center; tailored technology to support minimally supervised rehabilitation

Gerard Ribbers (Rotterdam)

12:37 -12:59

Towards minimally supervised robotic neurorehabilitation

Laura Marchal-Crespo (Bern)

12:59 -13:21

Equal access for all

Sanne Kuipers (Rotterdam)

13:21 -13:43

The iterative development of a home-based upper extremity stroke rehabilitation device using wearable motion sensors

Anthonia Janne Langerak (Rotterdam)

12:15 –13:45

Symposium 41

Autonomic nervous system disorders of high relevance in neurorehabilitation

Meeting room 18

Vorsitz/Chair

Max J. Hilz (Erlangen)

12:15 -12:45

Cardiovascular autonomic complications after spinal cord injury

Victoria Claydon (Vancouver)

12:45 -13:15

Autonomics in unexpected places: pain, immunology and response to injury

Jessica Robinson-Papp (New York, NY)

13:15 -13:45

Cardiovascular autonomic complications after stroke - a high risk in neurorehabilitation

Max J. Hilz (Erlangen)

12:15 –13:45

Developing world forum 5
Stroke rehabilitation in developing and underdeveloped countries

Meeting room 16

Vorsitz/Chair

Nirmal Surya (Mumbai)

12:15 -12:30

Challenges and pitfalls to neurorehabilitation in developing and underdeveloped countries

Nirmal Surya (Mumbai)

12:30 -12:50

Situation in Philippines and solutions

Jerico S. Dela Cruz (Manila)

12:50 -13:10

Situation in Uzbekistan and solutions

Yokudhon N. Madjidova (Tashkent)

13:10 -13:30

Situation in Mongolia and solutions

Burentugs Mandakh (Ulaanbaatar)

13:30 -13:45

Discussion

Nirmal Surya (Mumbai), Jerico S. Dela Cruz (Manila), Yokudhon N. Madjidova (Tashkent), Burentugs Mandakh (Ulaanbaatar)

12:15 –13:45

SIG 18
Posture, Mobility, Falls

Meeting room 4

SIG Chair

Klaus Martin Stephan ()

12:15 –13:45

SIG 19
Women in Neurorehabilitation

Meeting room 5

SIG Chair

Sangeetha Madhavan (Chicago, IL)

14:00 –15:00

Plenary lecture 5 & closing

Plenary hall

14:00 –14:30

Stroke and dementia prevention: can neuro rehabilitation do more?

Vladimir Hachinski (London, Ontario)

14:30 –14:40

tba

Janice J. Eng (Vancouver)

14:40 –14:50

tba

Noah D. Silverberg (Vancouver)

14:50 –15:00

tba

Volker Hömberg ()