

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

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 Schilberg (Eugene, OR)

13:40 -13:50 Use of the RTSS to design and interpret aphasia therapy research
Peter A. Moulouenbrook (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 (Toronto)

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 facet 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)

11:03 -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)

14:30 -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

Ennappadam 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 – translational 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 Ioi 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) |
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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) |

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|--------------|--|
| 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 evaluation 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
Dorcus 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)

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|--------------|---|
| 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 patients with M. Parkinson (MP) and 2 with cerebellar atrophy type 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)

19:45 -19:45 Functional results of obturator neurotomy 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 toxine injection: a randomized controlled trial
Giovanni Pegoraro (Brebba)

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)

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 sequalae 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 comparision 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)

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-KB 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)

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|--------------|---|
| 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)

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|--------------|--------------------------------|
| 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

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|---------------|--|
| 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-Odasso (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 the art in treatment of cerebral palsy

Iona Novak (Sydney)

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

12:06 -12:24 Neuro-rehabilitative challenges 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 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

WFNR mentor team meeting

Meeting room 4

13:15 –14:00

Industry sponsored workshop

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

Meeting room 2

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

Oral communications 9

Meeting room 3

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 (Guanghzou 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 amoing 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 amnestic 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
Urvashi 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 Characterizing the relationship between inter-neuronal activation in the primary motor cortex (M1) and clinical motor outcome measures after stroke
Anjana Rajendran (Vancouver)

13:15 -13:15 Exploring brain activity during a buttoning task in healthy young adults: a functional near infrared spectroscopy investigation
Niloufar Benam (Vancouver)

13:15 -13:15 Cog-First: a new tablet-based cognitive assessment tool for brain injured patients. A pilot study on Canadian population
Camille Heslot (Paris)

13:15 -13:15 Solution focused hypnotherapy and memory retrieval in post-traumatic retrograde amnesia: a case study
Jessika Sheppy (Sheffield)

13:15 -13:15 Signaling visual complaints following acquired brain injury: development and validation of a screening instrument
Vera Linde Dol (Groningen)

13:15 -13:15 The dynamic balance control of older adults with cognitive impairment under dual-task walking: a cross-sectional study
Qian Zhong (Nanjing City)

13:15 -13:15 EURECA study: evaluation of remediation programs for patients with CRCI (Cancer Related Cognitive Impairment) in the aftermath of breast cancer
Marianne Merceur (Rennes)

13:15 -13:15 Enhancing motor learning through cognitive training
Enzo Soto Espinoza (Santiago)

13:15 -13:15 The detection of mild cognitive impairment based on the natural language processing
Rumi Wang (Changsha)

13:15 -13:15 Latin American survey for therapists and neurologists who care for patients with multiple sclerosis
Marcos Maldonado (Santiago)

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)

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 Vaerenbegrh (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)

13:15 -13:15 Telerehabilitation of spinocerebellar ataxias in rural india: deterrents and facilitators
Jui Dave (Navi Mumbai)

13:15 -13:15 NeuroRehabilitation OnLine (NROL): description of a multidisciplinary group telerehabilitation innovation for stroke and neurological conditions using the TIDieR checklist
Louise A. Connell (Lancaster), Suzanne Ackerley (Preston)

13:15 -13:15 Acceptability of telerehabilitation among stroke survivors in Ibadan, Nigeria
Olubukola A. Olaleye (Ibadan)

13:15 -13:15 Benefits and challenges of a regional NeuroRehabilitation OnLine (NROL) innovation
Suzanne Ackerley (Preston)

13:15 -13:15 Ballistic resistance training improves mobility more than usual physiotherapy intervention following traumatic brain injury: a randomised controlled trial
Gavin Williams (Richmond)

13:15 -13:15 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?
Karen Saunders (Canterbury)

13:15 -13:15 How to evaluate traumatic brain and spinal cord injury care quality in a siloed healthcare system? Herding the key partners
Mark Bayley (Toronto)

13:15 -13:15 Combined pharmacologic and nonpharmacologic interventions for sexually disinhibited behaviors following traumatic brain injury: a case series
Christopher Falco (Houston, TX)

13:15 -13:15 Influence of off-hour hospital admission on short-term mortality after traumatic brain injury according to age group
HH Ryu (Dong-gu, Gwangju)

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 Vanbellingen (Bern)

13:15 -13:15 Neurological recovery and functional outcome of complete traumatic spinal cord injury patients: an observation from Bangladesh
Koly Kamrunnaher (-)

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| 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 (Yangsan) |
| 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

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)

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| 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

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|---------------|---|
| 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), Carlyne 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)

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| 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 Ioi 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 (Iahore)

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| 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)

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| 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 inhospital 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 *In Silico* 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
Hufang 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)
Dorcus 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 mitochondria 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-Basnert (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 Attentional blink post-concussion: association with fear-avoidance constructs and implications for intervention
Medha Amarnath Nair (Burnaby), Molly Cairncross (Burnaby)

09:00 -09:00 Upper limb pointing movement performance in individuals with concussions
Sandeep Subramanian (San Antonio, TX)

09:00 -09:00 Older drivers with cognitive impairment show slower take-over performance during automated driving
Hannes Devos (Kansas City, KS), Laurie Steen (Kansas City, KS)

09:00 -09:00 Identifying key stakeholder goals and priorities for cognitive neurorehabilitation using virtual reality to inform co-design of future applications
Hannah Gullo (Brisbane)

09:00 -09:00 Effects of immersive virtual reality to improve hand motor control by action observation training
Roberto Gatti (Pieve Emanuele, Milano)

09:00 -09:00 Virtual reality in cognitive rehabilitation: neural mechanisms from fMRI research
Lukas Lorentz (Aachen)

09:00 -09:00 Flow experience during immersive virtual reality training in patients with stroke with neglect or apraxia
Tim Vanbellingen (Bern)

09:00 -09:00 UTI in Sci
Saeed Alshahri (Riyadh)

09:00 -09:00 Enhancing Cognitive Inhibition in Older Adults Through Exergame
Qiu Yang (Singapore)

09:00 -09:00 Pediatric traumatic brain injury: the effects of anxiety and depressive disorders
Madaline Witort (Cleveland, OH)

09:00 -09:00 Effect of memantine in chronic post-stroke aphasia: a case report
Ameya Joshi (Cleveland, OH)

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|--------------|--|
| 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

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|-----------|-------------------------------|
| 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 (Kladuby) |

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)

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|--------------|--|
| 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)

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|---------------------|---|
| 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) |

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|--------------|---|
| 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 neurorehabiltation services for patients in the low resource settings
Rajinder K. Dhamija (New Delhi)

12:45 -13:15 Promoting acess to interdisciplinary care in neurorehabiltation
Matilde Leonardi (Milan)

13:15 -13:45 Global synergistic actions to improve brain health for human deveolpment
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 under develop 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 Neurerhabilitation

Meeting room 5

SIG Chair

Sangeetha Madhavan (Chicago, IL)

14:00 –15:00

Plenary lecture 5 & closing

Plenary hall

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| 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 () |