ASNR2026 POSTER LISTING

Regency Ballroom West

Posters in red font indicate those selected by the review committee as Special Mention.

Underlined names indicate presenting author.

All posters will remain up in the Poster & Exhibit Hall for the duration of the conference. However, in the interest of making the space easily accessible to all during the poster receptions, poster presenters for odd-numbered posters will be present at their posters in the Poster & Exhibit Hall during Wednesday afternoon's poster reception, while presenters for even-numbered posters will be present at their posters during Thursday afternoon's poster reception.

P. 1 Understanding the interaction of gaze and error reduction during various movement phases in action execution following chronic stroke

Layla Abdullatif1, Maria Lindsey1, Veronica Rowe2, Lewis Wheaton1

1Georgia Institute of Technology, Atlanta, USA. 2Georgia State University, Atlanta, USA.

P. 2 Which Metrics Best Capture Spasticity's Impact During Gait to Inform Clinical Decision Making?

J. Sebastián Correa1,2, Natalia Sánchez3, Dana Lorenz1,2, Jake Stahl1,2, Kristine Hansen2, David Cunningham1,2, James Sulzer1,2

1Case Western Reserve University, Cleveland, USA. 2The MetroHealth System, Cleveland, USA. 3Chapman University, Irvine, USA.

P. 3 Does Presynaptic Inhibition Contribute to Spinal Reflex Excitability During Gait?

J. Sebastián Correa1,2, Ricardo Siu1, Dana Lorenz1,2, Kristine Hansen2, David Cunningham1,2, James Sulzer1,2

1Case Western Reserve University, Cleveland, USA. 2The MetroHealth System, Cleveland, USA.

P. 4 Distinct Sensorimotor Mechanisms Evoked by Before-Walk VS During-Walk Local Vibration

Tseng Wan Yan, Chou Li Wei

National Yang Ming Chiao Tung University, Taipei, Taiwan.

P. 5 Chatbot or Quackbot?: Therapists' Evaluation of an AI-Powered Chatbot Answering Stroke Rehabilitation Questions

Juan C. Perez-Ibarra, Luis Garcia-Fernandez, Andria Farrens, Vicky Chan, Guillem Cornella-Barba, Joshua Macopson-Jones, Jay J. Han, David Reinkensmeyer

University of California, Irvine, Irvine, USA.

P. 6 Predicting Upper Extremity Spasticity 90 Days After Stroke Using Decision Tree Models Integrating Motor Impairment And Corticospinal Integrity Measures

Ergi Spiro1,2, Xinrui Wang1, Jody A. Feld3,1, Ziping Huang1,2, Lei Zhu1, Salman Ikramuddin1, Charalambos C. Charalambous1, Wayne Feng1

1Department of Neurology, Duke University, Durham, USA. 2Department of Biomedical Engineering, Duke University, Durham, USA. 3Department of Orthopaedic Surgery, Duke University, Durham, USA.

P. 7 Lesion-Based Evidence That Top-Down Connections From the Language Network Support Posterior Visual Word Form Area Function

Sara Dyslin1, Andrew DeMarco1, Ryan Staples1, Peter Turkeltaub1,2
1Georgetown University Medical Center, Washington D.C., USA. 2MedStar National Rehabilitation Hospital, Washington D.C., USA.

P. 8 Correlates Of Corticospinal Wallerian Degeneration And Its Relation To Therapy Response

Abraham Madjidov1, Abigail Hay1, Wuwei Feng2, Anant Shinde1, Sirisha Nouduri3, Muhammed Enes Gunduz4, Christy Cassarly5, Veronica Rowe6, Stacy Fritz7, Steve Wolf8, Joseph Broderick9, Gottfried Schlaug1
1University of Massachusetts Chan Medical School-Baystate, Springfield, USA. 2Duke University School of Medicine, Durham, USA. 3University of Pittsburgh School of Medicine, Pittsburgh, USA. 4Yale School of Medicine, New Haven, USA. 5Medical University of South Carolina, Charleston, USA. 6Georgia State University, Atlanta, USA. 7University of South Carolina, Columbia, USA. 8Emory University, Atlanta, USA. 9University of Cincinnati Gardner Neuroscience Institute, Cincinnati, USA.

P. 9 Are Abnormal P300 Responses In Stroke Survivors With Aphasia Specific To Linguistic Stimulus Processing?

Andrew DeMarco, Zoe White, Sophie Steinberg, Elizabeth Anderson
Georgetown University, Washington DC, USA.

P. 10 Characterizing The Use Of A Suspension Walker By Pre-Walking Infants With Down Syndrome And Their Caregivers During Free Play: Infant Stepping and Walker Movement

Christina Hospodar1, Annie Dishchyan2, Marcus Partida1, Florencia Enriques1, Aylin Paez1, Heather Feldner3, Julia Looper4, Kari Kretch1
1University of Southern California, Los Angeles, USA. 2UCLA, Los Angeles, USA. 3University of Washington, Seattle, USA. 4University of Puget Sound, Tacoma, USA.

P. 11 Remote Therapeutic Monitoring in Outpatient Rehabilitation: A Pilot Study

Allison E Miller, Carey L Holleran, Marghuretta D Bland, Brandon J Jensen, Keith R Lohse, Ellen Fitzsimmons-Craft, Thomas M Maddox, Catherine E Lang
Washington University, St. Louis, USA.

P. 12 Source-Level Resting-State EEG Connectivity in Post-Stroke Adults Following a 10-Week Gait Rehabilitation Program

Fares Al-Shargie1, Michael Glassen1, Gregory R. Ames2, Christina M. Dandola2, Karen J. Nolan2, Soha Saleh1
1Department of Rehabilitation and Movement Sciences, School of Health Professions, Rutgers University, Newark, USA. 2Center for Mobility and Rehabilitation Engineering, Kessler Foundation, Newark, USA.

P. 13 A Graphical User Interface for Editing Keypoints from Human Pose Estimation Algorithms

Zechen Yang1, Jan Stenum2, Rini Varghese1,3, Ryan Roemmich1,2
1Center for Movement Studies, Kennedy Krieger Institute, Baltimore, MD, USA. 2Department of Physical Medicine and Rehabilitation, Johns Hopkins University School of Medicine, Baltimore, MD, USA. 3Department of Neuroscience, Johns Hopkins University School of Medicine, Baltimore, MD, USA.

ASNR2026 POSTER LISTING

Regency Ballroom West

Posters in red font indicate those selected by the review committee as Special Mention.

Underlined names indicate presenting author.

P. 14 sEMG-based High-Resolution Gesture Decoding using Optimized Swin-Transformer Architectures

Peiwen Fu1, Giovanni Oppizzi1, Li-Qun Zhang1,2

1University of Maryland, College Park, College Park, USA. 2University of Maryland, Baltimore, Baltimore, USA.

P. 15 Detecting Recovering Hand Extension Intention Poststroke and Interpreting Shifts in Model Decision Patterns

Peiwen Fu1, Giovanni Oppizzi1, Dali Xu2, Soh-Hyun Hur2, Michael Penafiel1, Li-Qun Zhang1,2

1University of Maryland, College Park, College Park, USA. 2University of Maryland, Baltimore, Baltimore, USA.

P. 16 Associations Between Flexor Synergy Severity and Short/Long-Latency Stretch Reflex Excitability in Chronic Stroke

Joohwan Sung1,2, Mahmood Darvish1,2, Beni Mulyana1,2, Xiaoxi Chen1,2, Huan-Ting Peng1,2, Yuan Yang1,2,3,4,5

1Department of Bioengineering, Grainger College of Engineering, University of Illinois Urbana-Champaign, Urbana, USA. 2Carle Foundation Hospital, Urbana, USA. 3Beckman Institute for Advanced Science and Technology, University of Illinois Urbana-Champaign, Urbana, USA. 4Neuroscience Program, University of Illinois Urbana-Champaign, Urbana, USA. 5Carle Illinois College of Medicine, University of Illinois Urbana-Champaign, Urbana, USA.

P. 17 Subthreshold Vibration as a Noninvasive Sensory Intervention to Suppress Spasticity in Chronic Stroke

Joohwan Sung1,2, Mahmood Darvish1,2, Beni Mulyana1,2, Xiaoxi Chen1,2, Huan-Ting Peng1,2, Yuan Yang1,2,3,4,5

1Department of Bioengineering, Grainger College of Engineering, University of Illinois Urbana-Champaign, Urbana, USA. 2Carle Foundation Hospital, Urbana, USA. 3Beckman Institute for Advanced Science and Technology, University of Illinois Urbana- Champaign, Urbana, USA. 4Neuroscience Program, University of Illinois Urbana-Champaign, Urbana, USA. 5Carle Illinois College of Medicine, University of Illinois Urbana-Champaign, Urbana, USA.

P. 18 Wrist-Worn Accelerometry Reveals Capacity–Performance Gaps in Real-World Hand Use Post-Stroke: Implications for Neurorehabilitation Trial Outcomes

Estevan Nieto1, Crystal Mendoza1, Yazbel Arriaga1, Kenya Flores1, Mia Montelongo1, Alejandra Hernandez1, Peter Lum2, Shashwati Geed3

1Department of Rehabilitation Sciences, The University of Teaxs at El Paso, El Paso, TX, USA. 2Department of Biomedical Engineering, The Catholic University of America, Washington, DC, USA. 3Department of Physical Therapy and Movement Science, The University of Teaxs at El Paso, El Paso, TX, USA.

P. 19 Stroke Lesion Morphology Influences Transcranial Direct-Current (tDS) Electric-Field Estimates: A Lesion-Accurate Modeling Pipeline and Study

Jose Roberto Torres Andrade1, Syed Qadri2, Alvaro Gurovich3, Matthew Edwardson4, Shashwati Geed3

1Interdisciplinary Health Sciences PhD Program, The University of Texas at El Paso, El Paso, TX, USA. 2Jefferson Moss-Magee Rehabilitation, Elkins Park, PA, USA. 3Department of Physical Therapy and Movement Sciences, The University of Texas at El Paso, El Paso, TX, USA. 4Department of Neurology, Georgetown University Medical Centre, Washington, DC, USA.

P. 20 Predicting Musculoskeletal Adverse Events During Moderate- to High-Intensity Gait Training in Chronic Stroke Using Baseline Clinical Characteristics

Daria Pressler1, Sarah M. Schwab-Farrell1, Oluwole Awosika1, Darcy S. Reisman2, Sandra A. Billinger3, Michael A. Riley1, Pierce Boyne1, On behalf of HST2 Investigators

1University of Cincinnati, Cincinnati, USA. 2University of Delaware, Newark, USA. 3University of Kansas Medical Center, Kansas City, USA.

P. 22 Impact of Reaching Angle and Hand Dominance on Robotic Upper-Limb Performance Metrics

Anjana Ganesh, Daniel Salinas, Kelsey Baker

The University of Texas Rio Grande Valley, Edinburg, USA.

P. 23 High-dose inpatient neurorehabilitation using gamified technologies: A multi-site quality improvement program

Mandy Bodily-Bartrum, Darla Perdue, Sue Olson

Vibra Healthcare, Mechanicsburg, USA.

P. 24 Assessing Wrist Flexor and Extensor Co-activation Variability in Healthy Controls On 2 Separate Days

Laura A. Houle1, Aaron N. Huynh, MS1,2, Henry Roloff1, Paige Hepple, BS1, Ania C. Busza, MD PhD1,2,3,4

1University of Rochester Medical Center, Department of Neurology, Stroke Division, Rochester, USA. 2University of Rochester School of Medicine and Dentistry, Department of Neuroscience, Rochester, USA. 3University of Rochester Medical Center, Department of Neurosurgery, Rochester, USA. 4University of Rochester Medical Center, Department of Physical Medicine & Rehabilitation, Rochester, USA.

P. 25 Restoring Upper Extremity Movement Following Spinal Cord Injury Using an Intracortical Brain-Computer Interface and a Soft Wearable Robot

Kushaal Rao1, Henry Jenkins1, Jacob Gusman1, Maarten Ottenhoff1, Ruixiang Li1, Alexander Acosta2, Lucille Panagos2, Andrew Dempsey2, Shane Allcroft1,3, Emilia Mann4, James Arnold4, David Pont-Esteban4, Harrison Young4, Umut Civici4, Connor McCann4, Conor Walsh4, Daniel Rubin2,4, John Simeral3,1, Carlos Vargas-Irwin1,3, Leigh Hochberg3,1,2,4

1Brown University, Providence, USA. 2Massachusetts General Hospital, Boston, USA. 3VA Providence Healthcare System, Providence, USA. 4Harvard University, Cambridge, USA.

P. 26 Posture And Task Modulation of Vestibular Evoked Myogenic Reflexes While Standing.

Ignacio Novoa, Kruti Vyas, Cristian Cuadra

University at Buffalo, Buffalo, USA.

ASNR2026 POSTER LISTING

Regency Ballroom West

Posters in red font indicate those selected by the review committee as Special Mention.

Underlined names indicate presenting author.

P. 27 Investigating The Role Of The Cerebellum In Facilitating Motor Learning In Parkinson's Disease

Pooja C. Iyer, Carolee Winstein, Beth E. Fisher

University of Southern California, Los Angeles, USA.

P. 28 Cognitive-Motor Dual-Task Assessments in People with Multiple Sclerosis: A Scoping Review

Ehsan Sinaei, Meaghan Costello, Liraz Arie, Jami Snow, Prudence Plummer

MGH Institute of Health Professions, Boston, USA.

P. 29 Relationships Between Physical Therapy Delivery Schedule During Acute Hospitalization for Stroke, Mobility Outcomes, and Discharge Destination

Grace Bellinger1, Kelly Daley1, Bingqing Ye1, Preeti Raghavan1, Margaret French2,1, Ryan Roemmich3,1

1Johns Hopkins University School of Medicine, Baltimore, USA. 2University of Utah, Salt Lake City, USA. 3Kennedy Krieger Institute, Baltimore, USA.

P. 30 Aging And The Art Of Letting Go: Selective Slowing Of Grip-Force Release In A Go/No-Go Force-Matching Task

Syed Qadri1, Jose Roberto Torres Andrade2, Seraphina Culp3, Beatrice Lee2, Peter Lum3, Shashwati Geed2

1Jefferson Moss-Magee Rehabilitation, Elkins Park, PA, USA. 2University of Texas - El Paso, El Paso, TX, USA. 3The Catholic University of America, Washington, DC, USA.

P. 31 Limitations of Visual Compensation for Proprioceptive Impairments in Individuals with Stroke

Devin Austin, Jennifer Semrau

University of Delaware, Newark, USA.

P. 32 Disrupted Prefrontal-Motor Coupling During Voluntary Arm Selection In Stroke Survivors With Learned Non-Use: A Case Study EEG Coherence Analysis

Patience Yeboah, Michelle Johnson

University of Pennsylvania, Philadelphia, USA.

P. 33 Learning From Lived Experience: Preliminary Findings on How Home and Community Immersions Transform Student Understanding of Brain Injury

Netta Gurari1, Skylar Connelley2, Shellie Cook2, Alexis Garner2, Logan Vance2, Lindsey Sydnor1, Nicole Pitterson1, James Sulzer3, Kevin Parcetich2

1Virginia Tech, Blacksburg, USA. 2Radford University, Roanoke, USA. 3Metro Health, Cleveland, USA.

P. 34 Development and Preliminary Testing of a Compact Stimulator for Objective Tactile Assessment

Nahid Kalantaryardebily, Ardalan Kahak, Scott Mahaney, Suyi Li, Netta Gurari

Virginia Tech, Blacksburg, USA.

P. 35 Hand Recovery in Subacute Stroke – Preliminary Results of the Role of Tonic GABAergic Modulation
Ariana Espinosa, Drake Laughlin, Mihaela Carmen Cirstea
University of Missouri, Columbia, USA.

P. 36 Objective Kinematic Measures of Bradykinesia in Parkinson's Disease Using Video-Based Movement Analysis
Jan Stenum1, Jeff Yang2, Macie Hakim3, Ayah Syeed4, Brooke Hall1, Lauryn Currens1, Alex Pantelyat1, Ryan Roemmich1,2
1The Johns Hopkins University School of Medicine, Baltimore, USA. 2Kennedy Krieger Institute, Baltimore, USA. 3University of Pittsburg, Pittsburgh, USA. 4Ohio University, Cincinnati, USA.

P. 37 Combining Visual Biofeedback with Fast Walking in People with Chronic Stroke
Christina K. Holl, Nicolas Schweighofer, James M. Finley, Kristan A. Leech
University of Southern California, Los Angeles, USA.

P. 38 Learning Context Impacts the Generalization of Motor Memories in Walking
Adwoa Awuah, Gelsy Torres-Oviedo
University of Pittsburgh, Pittsburgh, USA.

P. 39 Considerations for the accurate assessment of motor unit firing properties in studies with force feedback.
Alex T. Benedetto1,2,3, Sophia T. Jenz1, Matthew T. Farley2, Bradley S. Heit1, James A. Beauchamp4, Charles J. Heckman1,2, Monica A. Perez1,2,3, Gregory E. P. Pearcey5
1Northwestern University, Chicago, IL, USA. 2Shirley Ryan Ability Lab, Chicago, IL, USA. 3United States Department of Veterans Affairs, Hines, IL, USA. 4Carnegie Mellon University, Pittsburgh, PA, USA. 5Memorial University of Newfoundland, St Johns, NL, Canada.

P. 40 Bilateral tDCS effects on corticospinal excitability vary with motor impairment severity after chronic stroke.
Jisung Yuk1,2, Rifeng Jin1,3,2, Justin McCurdy1,2, David Cunningham1,3,2
1The MetroHealth System, Case Wetsern Reserve University School of Medicine, Department of Physical Medicine and Rehabilitation, Cleveland, USA. 2Cleveland FES Center, Cleveland, USA. 3Case Western Reserve University, Department of Biomedical Engineering, Cleveland, USA.

P. 41 Intensity- and Frequency-Dependent Reduction of Spasticity by Continuous Transcutaneous Spinal Stimulation in Individuals with Chronic Spinal Cord Injury
Matthias Krenn1, Allegra Latimer1, Keith Tansey2, Dobrivoje Stokic3
1University of Mississippi Medical Center, Jackson, USA. 2Department of Veterans Affairs Medical Center, Jackson, USA. 3Methodist Rehabilitation Center, Jackson, USA.

P. 42 Predicting Online Motor Learning After Stroke - Using Machine Learning
Anjali Tiwari1, Stefan Delmas1, Hunter Paxtion2, Prasoon Diwakar2, Gaurav Misra1, Neha Lodha1
1Colorado State University, Fort Collins, USA. 2South Dakota School of Mines & Technology, Rapid City, USA.

ASNR2026 POSTER LISTING

Regency Ballroom West

Posters in red font indicate those selected by the review committee as Special Mention.

Underlined names indicate presenting author.

P. 43 Cross-sectional Relationship Between Perivascular Space Morphology and Post-Stroke Sensorimotor Outcomes: An ENIGMA Analysis

Stuti Chakraborty1, Giuseppe Barisano2, Jeiran Choupan3, Amisha Kumar4, Mahir H. Khan5, Octavio Marin-Pardo1, Ashley Catchpole1, Bethany P. Tavenner6, Aisha Abdullah A.7, Justin W. Andrushko8, Michael R. Borich9, Lara A. Boyd10, Amy Brodtmann11, Cathrin M. Buetefisch12, Jessica M. Cassidy13, Adriana B. Conforto14,15, Steven C. Cramer16,17, Martin Domin18, Adrienne Dula A.19, Jennifer K. Ferris20, Fatemeh Geranmayeh21, Brenton Hordacre22, Steven A. Kautz23,24, Martin Lotze18, Fabrizio Piras25, Kate P. Revill26, Andrew Robertson27, Emily Rosario28, Heidi Schambra29,30, Na Jin Seo24, Maria Mataro Serrat31, Surjo R. Soekadar32, Shraddha Srivastava33, Daniela Vecchio25, Emilio Werden34, Lars T. Westlye35,36, Carolee J. Winstein37,38, George F. Wittenberg39,40, Neda Jahanshad41, Sophia I. Thomopoulos41, Paul M. Thompson41, Sook-Lei Liew1,37,3,41,42

1Chan Division of Occupational Science and Occupational Therapy, University of Southern California, Los Angeles, USA. 2Department of Neurosurgery, Stanford University, Stanford, USA. 3Department of Neurology, University of Southern California, Los Angeles, USA. 4Dornsife College of Letters, Arts and Sciences, University of Southern California, Los Angeles, USA. 5Neuroscience Graduate Program, University of Southern California, Los Angeles, USA. 6Department of Psychology, University of California Riverside, Riverside, USA. 7Occupational Therapy Studios, Los Angeles, USA. 8School of Sport, Exercise and Rehabilitation, Faculty of Health and Wellbeing, Northumbria University, Newcastle upon Tyne, United Kingdom. 9Division of Physical Therapy, Department of Rehabilitation Medicine, Emory University School of Medicine, Atlanta, USA. 10Department of Physical Therapy, University of British Columbia, Vancouver, Canada. 11Department of Neuroscience, School of Translational Medicine, Monash University, Melbourne, Australia. 12Department of Neurology, Emory University School of Medicine, Atlanta, USA. 13Department of Physical Therapy, University of North Carolina at Chapel Hill, Chapel Hill, USA. 14Hospital das Clínicas, São Paulo University, São Paulo, Brazil. 15Hospital Israelita Albert Einstein, São Paulo, Brazil. 16Department of Neurology, David Geffen School of Medicine, University of California, Los Angeles, Los Angeles, USA. 17California Rehabilitation Institute, Los Angeles, USA. 18Functional Imaging Unit, Department for Radiology and Neuroradiology, University Medicine Greifswald, Greifswald, Germany. 19Department of Neurology, Dell Medical School, The University of Texas at Austin, Austin, Austin, USA. 20Gerontology Research Center, Simon Fraser University, Vancouver, Canada. 21Department of Brain Sciences, Imperial College London, London, United Kingdom. 22Innovation, Implementation and Clinical Translation (IIMPACT) in Health, Allied Health and Human Performance, University of South Australia, Adelaide, Australia. 23Ralph H Johnson VA Health Care System, Charleston, USA. 24Department of Health Sciences and Research, Medical University of South Carolina, Charleston, USA. 25Neuropsychiatry Laboratory, Department of Clinical Neuroscience and Neurorehabilitation, IRCCS Santa Lucia Foundation, Rome, Italy. 26Facility for Education and Research in Neuroscience, Emory University, Atlanta, USA. 27Department of Kinesiology, University of Waterloo, Waterloo, Canada. 28Casa Colina Research Institute, Pomona, USA. 29Department of Neurology, NYU Grossman School of Medicine, New York City, USA. 30Department of Rehabilitation Medicine, NYU Grossman School of Medicine, New York City, USA. 31Department of Psychology and Psychobiology, University of Barcelona, Barcelona, Spain. 32Clinical Neurotechnology Laboratory, Department of Psychiatry and Neurosciences (CCM), Charité - Universitätsmedizin Berlin, Berlin, Germany. 33Courage Kenny Rehabilitation Institute,

Allina Health, Minneapolis, USA. 34Florey Department of Neuroscience and Mental Health, University of Melbourne, Melbourne, Australia. 35Department of Psychology, University of Oslo, Oslo, Norway. 36Center for Precision Psychiatry, Division of Mental Health and Addiction, Oslo University Hospital, Oslo, Norway. 37Division of Biokinesiology and Physical Therapy, University of Southern California, Los Angeles, USA. 38Department of Neurology, Keck School of Medicine, University of Southern California, Los Angeles, USA. 39Department of Neurology, University of Pittsburgh, Pittsburgh, USA. 40Department of Veterans Affairs Geriatrics Research Educational & Clinical Center, Veterans Affairs Pittsburgh Healthcare System (VAPHS), Pittsburgh, USA. 41Imaging Genetics Center, Mark and Mary Stevens Neuroimaging and Informatics Institute, Keck School of Medicine, University of Southern California, Los Angeles, USA. 42Department of Biomedical Engineering, Viterbi School of Engineering, University of Southern California, Los Angeles, USA.

P. 44 Estimating Musculotendinous properties of the Arm Post-Stroke via Bayesian Hill-type models

Yi Yu1, Yannick Darmon2,3, Russell Johnson4,2, Carolee Winstein2, Victor Barradas5, Emily Rosario3, Gerald Loeb6, James Finley2, Nicolas Schweighofer2
1Division of Biokinesiology and Physical Therapy, University of Southern California, Los Angeles, USA. 2Division of Biokinesiology and Physical Therapy, University of Southern California, Los Angeles, USA. 3Casa Colina Research Institute, Los Angeles, USA. 4Department of Physical Medicine and Rehabilitation, Northwestern University, Chicago, USA. 5Institute of Systems and Information Engineering, University of Tsukuba, Tsukuba City, Japan. 6Alfred E. Mann Dept. of Biomedical Engineering, University of Southern California, Los Angeles, USA.

P. 45 Impaired Proprioception of Individual Digits Post Stroke

Soh-Hyun Hur1, Giovanni Oppizzi2, Dali Xu1, Joshua Mathew2, Sahith Mada2, Xiaoyan Li2, Derek Kamper3, Li-Qun Zhang1
1University of Maryland, Baltimore, USA. 2University of Maryland, College Park, USA. 3North Carolina State University, Raleigh, USA.

P. 46 Targeted Remediation of the Ipsilesional Arm in Chronic Stroke: A Randomized Clinical Trial

Candice Maenza1,2, Carolee Winstein3, Terrence E. Murphy1, Nick M. Kitchen1,2, Jennifer Tanaka3, Jisung Yuk4, Rini Varghese5, Robert L. Sainburg2,1
1Penn State College of Medicine, Hershey, USA. 2Pennsylvania State University, University Park, USA. 3University of Southern California, Los Angeles, USA. 4Case Western Reserve University School of Medicine, Cleveland, USA. 5Johns Hopkins School of Medicine, Baltimore, USA.

P. 47 Effects of an Adaptive Exercise Program on Inflammation after Spinal Cord Injury.

Amanda Herrmann, Ella Chrenka, Lap Pui Chung, Steven Jackson, Samantha Sherman, Samuel Swanson, Ricky Lopez, Andrew Rapacz, Aleta Svitak, Marny Farrell, Ingrid Bentley, Srishti Seth, Leah Hanson
HealthPartners Institute, St. Paul, USA.

P. 48 Improved Gait Function is Associated with Changes in Primary Motor (M1) and Cerebellar Seed-based Functional Connectivity in Response to Gait Therapy Paired with tDCS for Chronic Deficits after Stroke

Svetlana Pundik1,2, Margaret Skelly1, Jessica McCabe1, Ahlam Salameh1,3, Lisa Leonhardt1, Terri Hisel1, Sarah Carr4
1VA Northeast Ohio Healthcare System, Cleveland, USA. 2Case Western Reserve University School of Medicine, Cleveland, USA. 3Kent State University College of Podiatric Medicine, Cleveland, USA. 4King's College London, London, United Kingdom.

ASNR2026 POSTER LISTING

Regency Ballroom West

Posters in red font indicate those selected by the review committee as Special Mention.

Underlined names indicate presenting author.

P. 49 Seed-based Functional Connectivity Biomarkers of Response to Gait Therapy with and without Bihemispheric Transcranial Direct Current Stimulation (tDCS) for Chronic Deficits after Stroke: Findings from a Randomized Controlled Trial

Jessica McCabe1, Sarah Carr2, Margaret Skelly1, Ahlam Salameh1,3, Lisa Leonhardt1, Terri Hisel1, Svetlana Pundik1,4

1VA Northeast Ohio Helathcare System, Cleveland, USA. 2King's College London, London, United Kingdom. 3Kent State University College of Podiatric Medicine, Cleveland, USA. 4Case Western Reserve University School of Medicine, Cleveland, USA.

P. 50 Optimization and Personalization of Cerebellar Transcranial Direct Current Stimulation (tDCS) to Achieve Consistent and Precise Electrical Field (E-Field) in the Intended Targeted Regions for Pairing with Rehabilitation Therapy Post Stroke.

Margaret Skelly1, Jessica McCabe1, Marom Bikson2, Ahlam Salameh3, Lisa Leonhardt1, Terri Hisel1, Svetlana Pundik1,4

1VA Northest Ohio Healthcare System, Cleveland, USA. 2The City College of New York, New York, USA. 3Kent State University College of Podiatric Medicine, Cleveland, USA. 4Case Western Reserve Univeristy school of Medicine, Cleveland, USA.

P. 51 The Effects of Motor Module-Guided Exercise on Spinal Motoneuronal Activation in Stroke: A Pilot Study

Sean Chakraborty1, Supraja Vaidhyanathan1, Manuel Portilla-Jiménez1, Gang Seo2, Michael Houston3, Yoon No Gregory Hong1, Sheng Li4, Hyung-Soon Park5, Yingchun Zhang3, Martina Coscia6, Jinsook Roh1

1University of Houston, Houston, USA. 2Stanford University, Stanford, USA. 3University of Miami, Coral Gables, USA. 4University of Texas Health, Houston, USA. 5KAIST, Daejeon, Korea, Republic of. 6University of Applied Science and Art Western Switzerland, Geneva, Switzerland.

P. 53 Neural Substrates of Arm Nonuse Post-stroke

Rachana Gangwani1, Alex DeAngelis1, Shauna Zodrow1, Apoorva Kelkar2, John Medaglia2, Branch Coslett3, Shailesh Kantak4, Laurel Buxbaum1

1Jefferson Moss Rehabilitation Research Instit, Elkins Park, USA. 2Drexel University, Philadelphia, USA. 3University of Pennsyl, Philadelphia, USA. 4Rancho Research Institute, USA.

P. 54 Clinical Predictors of Distal Motor Evoked Potential Status in Chronic Stroke

Sean Li1, Xin Li2, Yanjun Wu3, Morgan Widina3, Kyle O'Laughlin3, Jia Liu3, Ela Plow3

1Case Western Reserve University School of Medicine, Cleveland, USA. 2Patient-Centered Outcomes Research Institute, Washington, USA. 3Cleveland Clinic Research, Cleveland, USA.

P. 55 Similarities Between Abnormal Resting Arm Posture After Stroke and Resting Arm Posture in Healthy Individuals

Alkis Hadjiosif1,2,3, Jennifer Hebert1,2, Kelly Rishe1,2, Wanyi Qing1,4, David Lin1,2
1Center for Neurotechnology and Neurorecovery, Massachusetts General Hospital, Boston, MA, USA. 2Center for Neurorestoration and Neurotechnology, Department of Veterans Affairs, Rehabilitation Research and Development Service, Providence, RI, USA. 3Harvard John A. Paulson School of Engineering and Applied Sciences, Boston, MA, USA. 4Department of Biomedical Engineering, The Hong Kong Polytechnic University, Hong Kong, China.

P. 56 Specificity of Agonist-Antagonist Muscle Activation During Reactive Balance Recovery Declines with Aging

Crystal Gettman1, Aiden Payne2, Jacqueline Palmer1
1University of Minnesota, Minneapolis, MN, USA. 2Ohio University, Athens, OH, USA.

P. 57 Speed-Dependent Modulation of Soleus H-reflexes During Gait in Older Adults and Stroke Survivors

Bridgette Damewood, Alexandra Slusarenko, Trisha Kesar, Mark Lyle
Emory University, Atlanta, USA.

P. 58 Building an Autonomous AI Workflow to Design a Database of Rehabilitation Science Variables

Octavio Marin-Pardo, Mahir H. Khan, Katherine Loomis, Stuti Chakraborty, Sri Vaishnavi Arza, Sook-Lei Liew
University of Southern California, Los Angeles, USA.

P. 59 Modeling Individual Motor Recovery From Daily Digital Assessments During Early Stroke Rehabilitation

Anica Tillu1, Lorie Brinkman2,3, Marc Feldman2,3, Natalie Olivares2,3, Andrea Stehman2,3, Isabel Cardoso Ferreira2,3, Christina Holl2,3, Megan Atkinson2,3, Anne Schwarz2,3, Genevieve Kras2,3, Nina Soleimani2,3, Vu Le2,4, Michael Su2,3, Steven Cramer2,3
1University of California, Los Angeles, Dept. Bioengineering, Los Angeles, USA. 2University of California, Los Angeles, Dept. Neurology, Los Angeles, USA. 3California Rehabilitation Institute, Los Angeles, USA. 4University of California, Irvine, Institute for Clinical & Translational Science, Irvine, USA.

P. 60 Acute Intermittent Hypoxia Augments Ankle Strength in People with Multiple Sclerosis

Aravind Nehrujee1,2, Rachel Kalvakota1, Kailynn Mannella1,2, Leah O'Shea1, Alexander Barry1, William Zev Rymer1,2, Alexander Nemeth2, Bruce Cohen2, Molly Bright2, Milap Sandhu1,2
1Shirley Ryan AbilityLab, Chicago, USA. 2Northwestern University, Chicago, USA.

P. 61 Lateralization matters in early Parkinson's Disease: early left- vs. right-side motor symptoms coincide with distinct bimanual functional motor deficits

Caroline Selb1, Jessica Manning1, Matthew J. Barrett2, Brian D. Berman2, Peter Pidcoe3, Dean Krusienski4, Brooke Dexheimer1
1Department of Occupational Therapy, Virginia Commonwealth University, Richmond, USA. 2Department of Neurology, Virginia Commonwealth University, Richmond, USA. 3Department of Physical Therapy, Virginia Commonwealth University, Richmond, USA. 4Department of Biomedical Engineering, Virginia Commonwealth University, Richmond, USA.

ASNR2026 POSTER LISTING

Regency Ballroom West

Posters in red font indicate those selected by the review committee as Special Mention.

Underlined names indicate presenting author.

P. 62 Intensifying Subacute Tetraplegia Rehabilitation: Participant Experience with Activity-Based Therapy and Transcutaneous Spinal Cord Stimulation

Caroline Perron1,2, Julie Restout1,2, Lucie Chesné2, Héloïse Bourgeois2, Julie Comtois2, Nancy Dubé2, Diana Zidarov1,2, Dorothy Barthélemy1,2, Marika Demers1,2

1School of Rehabilitation, Faculty of Medicine, University of Montreal, Montreal, Canada. 2Institut Universitaire sur la readaptation en déficicence physique de Montreal, Center for Interdisciplinary Research in Rehabilitation of Greater Montreal (CRIR), CIUSSS Centre-Sud-de-l'Ile-de-Montréal, Montreal, Canada.

P. 63 Cortical Correlates Of Attention Allocation In People With Parkinson's Disease

Melissa Pool, Sarah J Conklin, Yi-Fang Chiu, Jason K Longhurst

Saint Louis University, St. Louis, USA.

P. 64 The REAP Algorithm for Real-World Arm Use Prediction after Stroke

Thomas E. Augenstein1, Janmesh Ukey2, Chandramouli Krishnan1, Amit Sethi2

1NeuRRo Lab, Department of Physical Medicine and Rehabilitation, University of Michigan, Ann Arbor, USA. 2NeRD Lab, Department of Occupational & Recreational Therapies, University of Utah, Salt Lake City, USA.

P. 65 Neurophysiological Signatures of Reduced Persistent Post-Traumatic Headaches in Response to Repetitive Transcranial Magnetic Stimulation in Mild Traumatic Brain Injury

Julia X. Ivanick1,2, Yi-Ling Kuo1

1SUNY Upstate, Syracuse, USA. 2University of Southern California, Los Angeles, USA.

P. 66 Feasibility And Preliminary Efficacy Of Dynamic Treadmill Walking For Improving Propulsion Symmetry In Post-Stroke Gait

Brooke Hall1,2, Caitlin Banks1,2, Ryan Roemmich1,2

1Johns Hopkins University School of Medicine, Baltimore, USA. 2Kennedy Krieger Institute, Baltimore, USA.

P. 67 Plasma Brain-Derived Tau as a Prognostic Biomarker in Ischemic Stroke Recovery

Pashtun Shahim1,2,3, Shashwati Geed4, Leighton Chan2, Matthew Edwardson3

1National Institutes of Neurological Disorders and Stroke, National Institutes of Health,, Bethesda, USA. 2Rehabilitation Medicine Department, National Institutes of Health NIH Clinical Center, Bethesda, USA. 3Department of Neurology, Georgetown University, Washington DC, USA. 4Department of Physical Therapy and Movement Sciences, The University of Texas at El Paso, El Paso, USA.

P. 68 Impaired Proprioception After Stroke Affects The Ability To Perform Complex, Sequenced Movements

Amelia Decarie1, Joanna E. Hoh1, Tarkeshwar Singh2, Jennifer A. Semrau1

1University of Delaware, Newark, USA. 2The Pennsylvania State University, State College, USA.

P. 69 Structural and functional connectivity after stroke and in association with behavior
Anne Schwarz1,2, Keith Jamison3, Lorie Brinkman1,2, Isabel Cardoso Ferreira1,2, Nina Soleimani1,2, Andrea Stehman1,2, Marc Feldman2, Natalie Olivares1,2, Michael Su1,2, Amy Kuceyeski3, Steven Cramer1,2
1Department of Neurology, David Geffen School of Medicine at UCLA, Los Angeles, USA. 2California Rehabilitation Institute, Los Angeles, USA. 3Department of Computational Biology, Cornell University, Ithaca, USA.

P. 70 Stroke- and Age-related Effects on Robotic Guidance-based Motor Skill Learning
Thomas E. Augenstein1, Shreeya Buddaraju1, Aryan Bhagat1, Heidi Kraemer1, Edward S. Claflin2, C. David Remy3, Chandramouli Krishnan1
1NeuRRo Lab, Department of Physical Medicine and Rehabilitation, University of Michigan, Ann Arbor, USA. 2University of Michigan, Ann Arbor, USA. 3University of Stuttgart, Stuttgart, Germany.

P. 71 Neural and Behavioral Effects of Prism Adaptation in Individuals with Post-stroke Spatial Neglect
Fisayo Aloba1, Alexandra Slusarenko2, Maithri Muthukumar3, Sanjana Ghosh3, Jay Patel4, Michael Borich2, Trisha Kesar2
1Emory University, Neuroscience Graduate Program, Atlanta, GA, USA. 2Emory University School of Medicine, Atlanta, USA. 3Emory University, Neuroscience undergraduate program, Atlanta, USA. 4Neuroscience undergraduate program, Georgia Institute of Technology, Atlanta, USA.

P. 72 Chronic Upper Extremity Co-Activation Is Associated With Functional Outcomes For Stroke Survivors
Aaron Huynh1,2, Laura Houle1, Kobina Asafu-Adjaye1, Ceri Williams1, Paige Hepple1, Ania Busza1,2,3,4
1University of Rochester Medical Center, Department of Neurology, Stroke Division, Rochester, USA. 2University of Rochester School of Medicine and Dentistry, Department of Neuroscience, Rochester, USA. 3University of Rochester Medical Center, Department of Neurosurgery, Rochester, USA. 4University of Rochester Medical Center, Department of Physical Medicine & Rehabilitation, Rochester, USA.

P. 73 Descending Cortical Modulation of Spinal Sensorimotor Circuitry in Individuals Post-Stroke
Vyoma Parikh, Camille Guzman, Alejandro Lopez, Michael Borich, Trisha Kesar
Emory University, Atlanta, USA.

P. 74 A TMS-Based Responsiveness Classification to Differentiate Corticospinal Integrity in Individuals with Chronic Moderate-to-Severe Stroke
Ghaleb Almalki1,2,3, Emily Grattan1, Lauren Terhorst1, Elizabeth R. Skidmore1, Amit Sethi4
1Department of Occupational Therapy, University of Pittsburgh, Pittsburgh, USA. 2Department of Occupational Therapy, King Saud Bin Abdulaziz University for Health Sciences, Jeddah, Saudi Arabia. 3King Abdullah International Medical Research Center, Jeddah, Saudi Arabia. 4Department of Occupational and Recreational Therapies, University of Utah, Salt Lake, USA.

P. 75 Thalamocortical Pathway Injury Independently Affects Motor Function: Implications for Rehabilitation
Michelle Corkrum, Tong Wen, Jason Carmel
Columbia University, New York, USA.

ASNR2026 POSTER LISTING

Regency Ballroom West

Posters in red font indicate those selected by the review committee as Special Mention.

Underlined names indicate presenting author.

P. 76 Deficits in Executive Function Selectively Contribute to Upper Extremity Motor Impairment After Stroke

Julie DiCarlo1,2, Daniel Barch1,2, Nathan Ward2, David Lin1

1Massachusetts General Hospital, Boston, USA. 2Tufts University, Medford, USA.

P. 77 Reactive Stepping Strategies During Lateral Slip Perturbations in People With Multiple Sclerosis

Jiyun Ahn, Daniel Peterson

Arizona State University, Pheonix, USA.

P. 78 Effect of Different Polarities of Cerebellar Transcranial Direct Current Stimulation on Motor Adaptation During Split-Belt Treadmill Training in Individuals with Chronic Stroke

Jiaxin JIANG, Yawen CHEN, Meizhen HUANG

Department of Rehabilitation Sciences, The Hong Kong Polytechnic University, Hong Kong.

P. 79 Wearable Devices for Upper Extremity Rehabilitation After Stroke: A Systematic Review and Meta-Analysis of Randomized Clinical Trials

Marianna Leite1, Rafael Eduardo Streit2, Pedro Reginato2, Elizabet Weba3, Maria Theresa Leal Galvão4, Vivian Gagliardi5, Michel F. Machado6

1School of Medicine, Santa Marcelina College, São Paulo, Brazil. 2Federal University of Paraná, Curitiba, Brazil. 3State University of Tocantins, Imperatriz, Brazil. 4Federal University of Piauí, Teresina, Brazil. 5Department of Neurology, Santa Casa de Misericórdia de São Paulo Hospital, São Paulo, Brazil. 6Department of Neurology, Santa Marcelina Hospital, São Paulo, Brazil.

P. 80 Closing the Gap in Stroke Recovery: Data Science and Analytics for Precision Rehabilitation (DAPR)

Keith Lohse1, James Finley2, Octavio Marin-Pardo2, Sook-Lei Liew2

1Washington University School of Medicine, St. Louis, USA. 2University of Southern California, Los Angeles, USA.

P. 81 Brain-Behavioral Relationships Post-Stroke: Preliminary Results From A Backward Walking Training Program

Dorian Rose1,2,3, Abigail Water1,2, Kelly Hawkins1,2, John Williamson1,2, Ronald Cohen1,2

1University of Florida, Gainesville, USA. 2Malcom Randall VAMC, Gainesville, USA. 3Brooks Rehabilitation, Jacksonville, USA.

P. 82 "Where would you stimulate?" Beliefs about anatomical relevance for enhancing motor performance with non-invasive electrical stimulation

Bernardo Villa-Sánchez1, Andrew Hooyman2, Seth Hays3, Sydney Schaefer1

1School of Biological and Health Systems Engineering, Arizona State University, Tempe, USA. 2Department of Physical Therapy, Chapman University, Irvine, USA. 3Department of Bioengineering, The University of Texas at Dallas, Richarson, USA.

P. 83 Expectancy Effects of Transcranial Direct Current Stimulation on Motor Skill Learning
Bernardo Villa-Sánchez1, Andrew Hooyman2, Heidi Schambra3, Benedict Alter4, Sydney Schaefer1
1School of Biological and Health Systems Engineering, Arizona State University, Tempe, USA. 2Department of Physical Therapy, Chapman University, Irvine, USA. 3Department of Neurology and Department of Physical Medicine and Rehabilitation, Grossman School of Medicine, New York University, New York, USA. 4Department of Anesthesiology and Perioperative Medicine, University of Pittsburg, Pittsburgh, USA.

P. 84 Where did you go? Factors Associated with Deviations in Recommended versus Actual Post-Acute Discharge Location
Kiersten M. McCartney1,2, Ruiqi Yan1,2, Rujula Upasani 3, Stephen Hampton1, Robert E. Burke1,2, M. Kit Delgado1,2, Kimberly J. Waddell1,2,4
1University of Pennsylvania, Philadelphia, USA. 2Leonard Davis Institute of Health Economics, University of Pennsylvania, Philadelphia, USA. 3Drexel University, Philadelphia, USA. 4Corporal Michael J. Crescenz VA Medical Center, Philadelphia, USA

P. 85 Use of computer vision to augment post-stroke upper limb assessment of bilateral tasks.
Desmond Asante, Shelby Ziccardi, Stephen Guy, Rachel Hawe
University of Minnesota, Minneapolis, USA.

P. 86 Effect Of EMG-Triggered Robot-Assisted Rehabilitation Targeting The Shoulder Joint On Muscle Synergies In Chronic Stroke Survivors With Moderate-To-Severe Upper-Limb Motor Dysfunction
Margaux Noémie Lafitte1, Hideki Kadone2, Masakazu Taketomi2, Yukiyo Shimizu3, Chun Kwang Tan1, Shigeki Kubota4, Yasushi Hada3, Kenji Suzuki5, Masashi Yamazaki4
1Institute of Systems and Information Engineering, University of Tsukuba, Tsukuba, Japan. 2Institute of Medicine, University of Tsukuba, Tsukuba, Japan. 3Department of Rehabilitation Medicine, University of Tsukuba Hospital, Tsukuba, Japan. 4Department of Orthopaedic Surgery, University of Tsukuba Hospital, Tsukuba, Japan. 5Center for Cybernics Research, University of Tsukuba, Tsukuba, Japan.

P. 87 Electroencephalogram Beta-Frequency Band Is Associated With Proprioceptive Processing And Recalibration Of Passive Finger Movements
Hunter Hayes1, Monica Torricella2,1, David Reinkensmeyer1, Disha Gupta3,4, Andria Farrens5,1
1University of California Irvine, Irvine, USA. 2Universitat Politècnica de Catalunya, Barcelona, Spain. 3NCAN Stratton VA Medical Center, Albany, USA. 4State University of New York, Albany, USA. 5University of New Mexico, Albuqerque, USA.

P. 88 Evolution Of Three Distinct Motor Learning Processes At Different Stages Of Stroke Recovery: A Feasibility Study
Rukshana Poudel1, Hinshing Mai2, Hannah Cone3, Niko Fullmer3, Emily Rosario3, Carolee Winstein1, Nicolas Schweighofer1
1University of Southern California, Division of Biokinesiology and Physical Therapy, Los Angeles, USA. 2University of Southern California, Computer Science, Los Angeles, USA. 3Casa Colina Research Institute, Pomona, USA.

P. 89 Multi-session Transcranial Alternating Current Stimulation to Improve Dual-task Standing in Older Adults with MCI
Devon Derrenbacher1, Brady Thomas1, Brad Manor2, Alvaro Pascual-Leone2, Melike Kahya1
1High Point University, High Point, USA. 2Marcus Institute for Aging Research, Hebrew SeniorLife, Boston, USA.

ASNR2026 POSTER LISTING

Regency Ballroom West

Posters in red font indicate those selected by the review committee as Special Mention.

Underlined names indicate presenting author.

P. 90 Longitudinal Validity of Upper Limb Wearable Movement Sensor Metrics Across Rehabilitation Populations in Preparation for Transitioning Sensors into Routine Clinical Use

Catherine Lang1, Marghuretta Bland1, Caitlin Newman2, Christine Gordon1, Carey Holleran1, Allison Miller1, Chelsea Macpherson1, Christopher Dy1, Lindsay Peterson1, Keith Lohse1

1WashU Medicine, St. Louis, USA. 2Shirley Ryan Ability Lab, Chicago, USA.

P. 91 Cognitive and Motor Impairment Patterns among HIV+ Adults with and without Stroke in Botswana

Michelle J. Johnson1,2, Rochelle Mendonca3, Frances Shofer1, Ngadzi Goitsemang2, Lefika Bothomilwe2, Ntsatsi Mogorosi2, Justus Mackenzie Nthitu4, Cassandra Ocampo-Ilagan5, Billy Tsima5, Lingani Mbakile-Mahlanza5, Maikutlo Kebaetse5

1University of Pennsylvania, Philadelphia, USA. 2Botswana Upenn Partnership, Gaborone, Botswana. 3Columbia University, New York, USA. 4Mahalapye District Hospital, Mahalapye, Botswana. 5University of Botswana, Gaborone, Botswana.

P. 92 Multiplayer Robotic Gaming: A New Direction for Community-Based Stroke Rehabilitation

Erica Waters1, Nova Meng1, Natalia Stroutinsky Sobotka2, Pamela Z. Cacchione1,3,4,5, Rochelle J. Mendonca6, Michelle J. Johnson1

1University of Pennsylvania, Philadelphia, USA. 2Penn Institute for Rehabilitation Medicine, Philadelphia, USA. 3Penn Presbyterian Medical Center, Philadelphia, USA. 4NewCourtland Center for Transitions in Health, Philadelphia, USA. 5LDI Center of Healthcare Economics, Philadelphia, USA. 6Columbia University, New York, USA.

P. 93 Neurotransmitter Imbalance from MRSI in Chronic Hemiparetic Stroke: A Pilot Study

Rita Huan-Ting Peng1,2, Yudu Li1, Yibo Zhao1, Zhi-Pei Liang1, Yuan Yang1,2

1University of Illinois Urbana-Champaign, Urbana, USA. 2Carle Foundation Hospital, Urbana, USA.

P. 94 Neural contributors to impaired interlimb coordination in people with chronic stroke

Brice Cleland, Natalya Brown, Sangeetha Madhavan

University of Illinois Chicago, Chicago, USA.

P. 95 Movement-Informed Closed-Loop Beta Frequency tACS in Chronic Stroke Survivors.

Demi Brizee1,2, Zeyu Xu1,2, Min Wu2, Nicholas Shackle1, Lara Biller1,2, Grace Kimber2, Nina Hilton2, Tessa Yates2, Gabriel Manrique Gutierrez2, Faye Tabone1,2, Andrew Sharott1, Anton Pick2,3, Melanie Flemming1,2, Catharina Zich1,2, Charlotte Stagg1,2

1MRC Centre of Research Excellence in Restorative Neural Dynamics, United Kingdom. 2Oxford Centre for Integrative Neuroimaging (OxCIN), Nuffield Department of Clinical Neurosciences, University of Oxford, Oxford OX3 9DU, United Kingdom. 3Oxford University Hospitals NHS Foundation Trust, Oxford, United Kingdom

P. 96 Adaptive Coping needs and strategies identified in studies of people living with the effects of stroke differ from interventions developed to address coping for people post stroke: An analysis of results from a scoping review using coping skill domains and ICF categories.
Julie Schwertfeger1, Rikhil Makwana2
1LSUHS, Shreveport, USA. 2Chicago Medical School, Rosalind Franklin University, North Chicago, USA.

P. 97 Bilateral Coordination Assessment: A Survey of Physical and Occupational Therapists
Bernard Sam, Rachel Hawe
University of Minnesota, Minneapolis, USA.

P. 98 Lateralization of emotional prosody processing in adults with and without stroke to the right cerebral hemisphere
Sarah F. Phillips1,2, Ena V. Sullivan1, Anna Seydell-Greenwald1
1Georgetown University Medical Center, Washington, DC, USA. 2University of Arizona, Tucson, AZ, USA.

P. 99 Motor-based assessments of cognition are less susceptible to demographic effects than traditional memory tests in older adults
Sydney Schaefer1,2, Alexandra Reed3,2, Andrew Hooyman4, Lee Ryan5,2, Megan Johnson6, Matthew De Both6, Saurabh Sharma6, Darian Chambers6, Matthew Calamia7, Matthew Huentelman6,2
1Arizona State University, Tempe, USA. 2Arizona Alzheimer's Consortium, Phoenix, USA. 3Arizona State University, Tempe. 4Chapman University, Irvine, USA. 5University of Arizona, Tucson, USA. 6Translational Genomics Research Institute, Phoenix, USA. 7Louisiana State University, Baton Rouge, USA.

P. 100 The unique impact of medication usage on processing speed versus verbal memory among a nation-wide cohort
Andrew Hooyman1, Megan Johnson2, Sydney Schaefer3, Lee Ryan4, Matt Huentelman2
1Chapman University, Irvine, USA. 2Translational Genomics Research Institute, Pheonix, USA. 3Arizona State University, Tempe, USA. 4University of Arizona, Tucson, USA.

P. 101 Balance confidence and walking activity have factor-specific relationships after stroke
Jeremy Crenshaw, Grace Kellaher, Ryan Pohlig, Tamara Wright, Darcy Reisman
University of Delaware, Newark, DE, USA.

P. 102 Multi-Scale Learning Trajectories in BCI-FES Therapy for Chronic Stroke Survivors: Implications for Personalized Rehabilitation Dosing
Joshua Macopson-Jones, Ryan Baxter, Shravan Thaploo, Po Wang, An Do, Zoran Nenadic
UC Irvine, Irvine, USA.

P. 103 Implementing tDCS for aphasia rehabilitation after stroke
Melissa Howard, Daniel Humphrey, Niko Fullmer, David Patterson, Emily Rosario, Caroline Schnakers
Casa Colina Hospital and Centers for Healthcare, Pomona, USA.

P. 104 EEG signatures of non-invasive vagus nerve stimulation in acute stroke: Preliminary data
Dionne Barajas, Jeanette Gumarang, Sara Delgado, David Patterson, Justin Phillips, Neha Dhadwal, Emily Rosario, Caroline Schnakers
Casa Colina Hospital and Centers for Healthcare, Pomona, USA.

ASNR2026 POSTER LISTING

Regency Ballroom West

Posters in red font indicate those selected by the review committee as Special Mention.

Underlined names indicate presenting author.

P. 105 Differential Domain-Specific Rehabilitation Effects in Parkinson's Disease with Freezing of Gait: A Meta-Analysis of Postural Control, Cognitive, and Mood Outcomes

Jessica Bath, Valerie Block

University of California San Francisco, San Francisco, USA.

P. 106 Cortical Silent Period Duration Is Associated with Lower-Limb Motor Performance After Chronic Stroke

Jacob Spencer, Brice Cleland, Sangeetha Madhavan

University of Illinois Chicago, Chicago, USA.

P. 108 A Utility-Based Approach to Evaluate How Adults Weigh Effort and Risk During Walking

Jackeline Tafur-Oviedo, James Finley

University of Southern California, Los Angeles, USA.

P. 109 Vagus Nerve Stimulation Paired With Lower Limb Rehabilitation Improves Walking After Chronic Spinal Cord Injury: A Pilot Study

Spencer Dunbar1,2, Emmanuel Adehunoluwa1,3, Rhys Switzer1,2, Joseph Epperson1, Robert Rennaker1,3, Michael Kilgard1,3, Seth Hays1,2

1Texas Biomedical Device Center, Richardson, USA. 2Erik Jonsson School of Engineering and Computer Science, University of Texas at Dallas, Richardson, USA. 3School of Behavioural and Brain Sciences, University of Texas at Dallas, Richardson, USA.

P. 110 Closed-Loop Vagus Nerve Stimulation Enhances Typing Performance and Fine-Motor Function in Chronic Spinal Cord Injury

Saeid Kian1,2,3, Joseph Epperson1, Zachary Bynum1,2,3, Robert Rennaker1,3, Seth Hays1,4,3, Michael Kilgard1,3

1Texas Biomedical Device Center., Richardson, USA. 2School of Behavioral and Brain Sciences, Richardson, USA. 3The University of Texas at Dallas, Richardson, USA. 4Erik Jonsson School of Engineering and Computer Science, Richardson, USA.

P. 112 Characterizing FDA-Approved Home Movement Rehabilitation Devices And User Information Needs To Build A Stroke-Focused Neurotechnology Database

Luis Garcia-Fernandez1, Juan C. Perez-Ibarra1, Andria Farrens2,1, Vicky Chan1, Joshua Macopson1, David Reinkensmeyer1

1University of California, Irvine, Irvine, USA. 2University of New Mexico, Albuquerque, USA.

P. 113 Response Variability Of Gait Speed And Gait Quality Variables Following Post-Stroke Gait Training

Alexandra Slusarenko, Taniel Winner, Fisayo Aloba, Trisha Kesar

Emory University School of Medicine, Department of Rehabilitation Medicine, Division of Physical Therapy, Atlanta, USA.

P. 114 Sensorimotor mechanisms of perceptual fatigue in MS: a proof-of-principle pilot study
Liraz Arie, Ehsan Sinaei, Prudence Plummer
MGH Institute of Health Professions, Boston, USA.

P. 115 Motor-Cortical Beta Dynamics Differentiate Learners and Non-Learners During a Modified Serial Reaction Time Task: Preliminary Evidence Toward Personalized Neurorehabilitation
Oindrila Sinha1,2, Laura Grace1, William Pleasant1, Connor Pate1, Michael Borich2, Lewis Wheaton1
1Georgia Institute of Technology, Atlanta, USA. 2Emory University, Atlanta, USA.

P. 116 Early Appearance of Abnormal Arm Muscle Synergies after Stroke
Abed Khorasani1, Cynthia Gorski1, Richard Harvey2, Jinsook Roh3, Marc Slutzky1
1Northwestern University, Chicago, USA. 2Shirley Ryan Abilitylab, Chicago, USA. 3University of Houton, Houston, USA.

P. 117 Dosage and Intensity Patterns of Four Adjunctive Rehabilitation Technologies: Implications for Personalized Neurorehabilitation
Marika Demers1,2, Jeremy Nguyen1,2, Cyril Duclos1,2, Johanne Higgins1,2, Sylvie Nadeau1,2, Dahlia Kairy1,2
1Université de Montréal, Montreal, Canada. 2Center for Interdisciplinary Research in Rehabilitation of greater Montreal, Montreal, Canada.

P. 118 Atypical Dual Task Neural Recruitment In Young Adult Athletes With Repeat Sports-Related Concussion
Bennett Alterman, Austin Mohler, Jaclyn Stephens
Colorado State University, Fort Collins, USA.

P. 119 COMT Genotype Shapes Ipsilesional Functional Connectivity Underlying Post-Stroke Grip Strength
Célia Delcamp1,2, Zhibin Zhou3,4, Ramesh Srinivasan3,5, Steven Cramer1,2
1Department of Neurology, University of California Los Angeles, Los Angeles, USA. 2California Rehabilitation Institute, Los Angeles, USA. 3Department of Cognitive Sciences, University of California Irvine, Irvine, USA. 4Department of Anesthesiology and Pain Medicine, University of California Davis Health, Sacramento, USA. 5Department of Biomedical Engineering, University of California Irvine, Irvine, USA.

P. 120 Task-Specific vs. Motor Component Training for Upper Extremity Recovery after Stroke: A Comparison Using Home-Based Sensor Systems
Sofia Canul1, Andria Farrens2, Vicky Chan1, Ian Russell3, Daniel Zondervan3, An Do4, David Reinkensmeyer1
1University of California, Irvine, Irvine, USA. 2University of New Mexico, Albuquerque, USA. 3Flint Rehabilitation Devices, LLC, Irvine, USA. 4School of Medicine, Department of Neurology, University of California, Irvine, Irvine, USA.

P. 121 Relationship Between Muscle Tissue Quality and Activation Patterns Following Stroke: A Preliminary Study
Raziyeh Baghi, Robert Nickl, Kai Sheng Khor, Samantha Wu, Preeti Raghavan
Johns Hopkins University, Baltimore, USA.

ASNR2026 POSTER LISTING

Regency Ballroom West

Posters in red font indicate those selected by the review committee as Special Mention.

Underlined names indicate presenting author.

P. 122 A New Smartwatch App for Increasing Active and Diverse Exploratory Movement After Stroke: Feasibility and Added Value of Motivational Interviewing

Guillem Cornella-Barba, Natanya Gunn, Vicky Chan, David J. Reinkensmeyer

University of California Irvine, Irvine, USA.

P. 123 Examining the Role of Multiple Cognitive Factors and Explicit Locomotor Learning After Stroke

Sidra Manzoor1, Matthew Cohen2, Ryan Pohlig3, Susanne Morton4, Elizabeth Thompson4, Henry Wright4, Tamara Wright4, Darcy Reisman1,4

1Biomechanics & Movement Sciences (BIOMS), University of Delaware, NEWARK, USA. 2Department of Communication Sciences and Disorders, University of Delaware, NEWARK, USA. 3University of Delaware, Biostatistics Core, NEWARK, USA. 4Department of Physical Therapy, University of Delaware, NEWARK, USA.

P. 124 Characterizing the Relationship Between Upper Limb Proprioception, Motor Function, and Movement Self-Efficacy After Stroke

Joanna E. Hoh, Darcy S. Reisman, Jennifer A. Semrau

University of Delaware, Newark, USA.