

association between depressive symptoms and global cognitive functioning similar to prior findings in WEIRD populations. Our results are important for clinicians assessing depressive symptoms in patients in or from Congo or sub-Saharan Africa.

**Categories:** Emotional and Social Processes

**Keyword 1:** dementia - Alzheimer's disease

**Keyword 2:** assessment

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### Lunch (on own)

1:15 - 2:15pm

Thursday, 2nd February, 2023

### Symposium 05: Out of the Box: Various Careers and Experiences in Neuropsychology

2:15 - 3:45pm

Thursday, 2nd February, 2023

Pacific Ballroom A

#### Chair

Abel Mathew

Children's Health Andrews Institute for Orthopaedics & Sports Medicine, Plano, USA

#### Discussant

Desmond Warren

Georgia State University, Atlanta, USA

The Association of Neuropsychology Students and Trainees (ANST) will host a symposium to discuss a variety of careers and experiences in neuropsychology. At the end of this symposium, participants will have: (a) learned about diverse neuropsychology specializations (b) heard personal trajectories of established members within the field, and (c) learned ways to develop or tailor a career in a neuropsychology specialization or experience of interest.

**Aerospace Neuropsychology:** Dr. Sheena Dev is a licensed clinical neuropsychologist and a Behavioral Medicine Discipline Scientist for the NASA Human Research Program. In this role, she provides subject matter expertise guiding NASA research in human health and performance to support future missions to the moon and Mars. She is also a Research Scientist in the NASA Johnson Space Center Behavioral Health and Performance Laboratory where she leads several studies assessing mood, cognition, and behavioral performance in spaceflight and spaceflight analogs.

**Forensic Neuropsychology:** Dr. Joel Morgan is a board-certified neuropsychologist at the Neuropsychology Associates of New Jersey. He has published over 75 peer-reviewed articles about forensic practice issues and ethics in Neuropsychology. Additionally, Dr. Morgan co-edited the Neuropsychology of Malingering Casebook, which includes contributions by the world's leading forensic neuropsychologists. Given his extensive knowledge in forensic neuropsychology, he was chosen by the American Academy of Clinical Neuropsychology to lead a work group for a national consensus on effort, response bias, and malingering.

**Neuropsychology in the Operating Room:** Dr. Amanda Gooding is a board-certified neuropsychologist at the University of California – San Diego Medical Center who conducts pre- and post-surgical evaluations for the epilepsy and brain tumor neurosurgery teams. One of her roles involves the administration of Wada testing (intracarotid amobarbital procedure) and intraoperative (awake) language testing. Her research is focused on improving postoperative cognitive and functional outcomes in individuals who have had brain surgery. She is also interested in advancing intraoperative brain mapping techniques, as well as investigations related to cross-cultural neuropsychology.

**Rehabilitation Neuropsychology:** Dr. Risa Nakase-Richardson is a rehabilitation neuropsychologist at the James A. Haley Veterans' Hospital and an Associate Professor in the Department of Medicine at the University of South Florida. She has worked in the field of neurorehabilitation in both clinical and research capacities, which has led to over 70 peer-reviewed publications and grant funding from numerous federal and private organizations. Her clinical and research interests include rehabilitation outcomes and the role of sleep management for individuals with brain injury.

Sports Neuropsychology: Dr. Catherine McGill is a pediatric neuropsychologist at McGill Neuropsychology. She is an active consultant for the Virginia Concussion Initiative with George Mason University. She previously held a faculty appointment in the Division of Neuropsychology at the Children's National Medical Center and was an Assistant Professor at The George Washington University School of Medicine in Washington, DC. Dr. McGill has experience conducting educational seminars, writing concussion policies, and teaming up with local and national community partners to promote safety in youth sports. In addition to these roles, she has served in multiple leadership capacities within the Sports Neuropsychology Society.

**Keyword 1:** forensic neuropsychology

**Keyword 2:** sports-related neuropsychology

**Keyword 3:** neuropsychological assessment

### **Symposium 06: Perioperative Neurocognitive Disorders With Considerations for Alzheimer's Disease and Related Dementias**

2:15 - 3:45pm

Thursday, 2nd February, 2023

Town & Country Ballroom B

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#### **Chair**

Catherine Price

University of Florida, Gainesville, USA

#### **Summary Abstract:**

Low- and high-risk surgical procedures are performed annually on more than half a million patients aged 65 and older. Yet, at least 20-35% of older patients undergoing surgery have undiagnosed signs of a mild to major neurocognitive disorder. These facts are alarming as older age, and preoperative memory/cognitive/affective vulnerabilities are significant predictors of postoperative cognitive complications such as delirium, cognitive decline, and mortality. Given the expected rate increase of neurodegenerative disorders in the populous, perioperative health care systems will

face more significant numbers of individuals with undiagnosed Alzheimer's disease and related dementias (ADRD) needing procedures with anesthesia due to severe health-related conditions (e.g., cardiac) or requesting surgeries for quality of life improvement (e.g., joint replacement). Through this symposium, attendees will learn from experts about the urgency of appreciating Perioperative Cognitive Disorders and the need for evidence-based perioperative ADRD assessment and intervention methods. Symposium speakers represent the International Society to Advance Alzheimer's Research and Treatment's "Perioperative Cognition and Delirium" Professional Interest Area. Lisbeth Evered, Ph.D., University of Melbourne, Australia, will begin the symposium by discussing the nomenclature for Perioperative Neurocognitive Disorders and the need to include neuropsychologists as part of the multidisciplinary diagnostic team. Robert Whittington, MD, University of California, Los Angeles, will present a bench-to-beside review of how tau protein is altered by perioperative factors and its potential relationship to cognition impairment after surgery and anesthesia. Miles Berger, M.D., Ph.D., Duke University, will present his team's federally funded research showing how anesthesia is a stress test for the brain and the potential implications for incorporating intraoperative EEG monitoring into routine care. Kristin Hamlet, Ph.D., University of Florida, will round out the symposium by presenting a novel perioperative care environment where neuropsychologists identify at-risk undiagnosed ADRD patients before surgery for multidisciplinary care interventions. She will also highlight a cognitive "rescue" multidisciplinary intervention case. Attendees will leave the symposium with an improved understanding of Perioperative Neurocognitive Disorders and how neuropsychologists can work with other disciplines to advance evidence-based perioperative care for at-risk older adults electing surgery with anesthesia.

**Keyword 1:** aging disorders

**Keyword 2:** mild cognitive impairment

**Keyword 3:** delirium

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