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Biological and Environmental Risk Factors that Contribute to Persistent Mental Health Issues After Stroke

Dr. Dulay, Director of the Neuropsychology Service in Neurosurgery at [Houston Methodist Neurological Institute](#) (and Director of The Houston Institute for Neuropsychological Knowledge (Dulay THINK lab)) uses neuropsychological, neurophysiological, psychophysical and neuroimaging methods to understand brain disease, and improve neurorehabilitation and neuropsychotherapy methods to bolster cognitive and emotional outcome after an acquired brain injury. Main research agendas nowadays involve understanding the human brain pre-to-post resective surgeries (standard resection, tailored ablative surgery) and neuromodulation surgeries (VNS, DBS, RNS) for intractable epilepsy, as well as evaluation and treatment of poststroke cognitive difficulties, poststroke depression, poststroke anxiety disorders, pseudobulbar affect, and post stroke apathy. Conducts pre- and post-brain-surgery neurocognitive evaluations, helps to diagnose dementia, provides cognitive rehabilitation treatments, and determines disability levels and long-term prognoses in his clinical duties. Undergraduate degree at San Diego State University, PhD in clinical neuropsychology at University of Cincinnati, internship at Baylor College of Medicine (BCM) Department of Psychiatry & Behavioral Sciences, postdoc at Texas Institute for Rehabilitation and Research (TIRR) at Memorial Hermann hospital and postdoc at BCM Department of Neurosurgery. Assistant Professor of Neuropsychology in Neurological Surgery at Weill Cornell Medicine, Adjunct Assistant Professor in the Dept. of Psychology at the University of Houston, Adjunct Assistant Professor in the Dept. of Medicine at Texas A&M University School of Medicine.