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## Autoimmune encephalitis: The neuroimmunology of pediatric movement disorders and cognitive changes post infection: A functional integrative neurology approach

Autoimmune Encephalitis or pediatric autoimmune neuropsychiatric disorders associated with streptococcal infections (or PANDAS) is a disease that commonly has an epitope association with Streptococcus pyogenes (group A streptococci). The molecular memory between strep surface proteins and lysogangliosides, tubulin, pyruvate kinase, enolase, basal ganglia, dopamine D1, D2, Rapid strep or throat culture, ASO titers, DNase antibodies, Myelin basic protein antibodies, Alpha and beta Tubulin, Asiaganglioside , Cerebellar antibodies, Synapsin antibodies, GAD-65 antibodies, Dopamine D1 receptor antibodies, Dopamine D2 receptor antibodies, Lysogangliosides antibodies and CaM Kinase II antibodies are an important immunological component of understanding this disease. Looking at the interaction between the immune system and the brain and the basal ganglionic circuitry is imperative when discussing hyper and hypokinetic disorders. Diagnosis, management and outcomes of beta retrospective early analyses is will be discussed while looking at the exploration or two arms trials that are blinded, placeboed and controlled. These antibodies in the brain create a probability of generating tics, obsessive compulsive disorder (OCD) and its relationship to Sydenham chorea (SC), which is the neurologic manifestation of acute rheumatic fever. Other cognitive and movement manifestations may develop in someone afflicted with the condition.

### Speaker Biography

Dr. Joel Brandon Brock is a Certified doctorate level trained Family Nurse Practitioner and a Diplomate in Functional Neurology, integrated medicine, and nutrition as well. In Dallas, Texas he serves as a clinician at Foundation Physicians Group. Dr. Brock has a passion for treating patients from pediatric to geriatric age groups as well as lecturing and giving learners didactic and academic skills in a way that is easy to digest, comprehend and utilize in a clinical setting. He has developed thousands of multidisciplinary hours of curriculum pertaining to neurology, nutrition, physical diagnosis, pharmacology, immunology, endocrinology and this has impacted students of multiple educational backgrounds, including medical doctors, nurse practitioners, chiropractors and more. He enjoys teaching and providing education and support to facilitate learning for multiple groups and agencies. This includes state association meetings to 2 governmental panels, and for his own lecture companies. Dr. Brock enjoys the development and administration of lectures and seminars of all types. Dr. Brock received the most outstanding functional neurology teacher of the year from the ACA council of Neurology four years straight and two times from IAFNR (International Association of Functional Neurology and Rehabilitation). Dr. Brock received the humanitarian award from IAFNR. Dr. Brock and is also the honorable recipient of the prestigious Living Legacy Award from Samford Universities Ida Moffett School Nursing in 2015. Currently Dr. Brock is a Doctorate of Nursing Practice from Duke University and a global clinical research scholar from Harvard University. Dr. Brock's unique blend of clinical and teaching experience along with a background in medicine, chiropractic, neurology and nutrition has created a very unique and integrated clinical background that has helped him treat difficult cases and offers comprehensive and multi-perspective angles on education and clinical presentations. His greatest desire in life is to help those with chronic health problems.

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