

A Family with Bipolar Disorder Teaches the World

A family of five all received SPECT brain scans & had same findings despite big differences in age/gender - SPECT may be important biomarker for this disease.

DENVER, COLORADO, USA, May 12, 2022 /EINPresswire.com/ -- Toronto-based physician Mary

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The treatment of bipolar disorder could be revolutionized if these potential bio-markers of asymmetrical thalamus and diffusely increased cortical perfusion, or "hotspots", hold up in future studies"

Dr. Mary McLean

McLean, M.B., Ch.B, F.R.C.P., Vancouver-based nuclear medicine physician, Phil Cohen, M.D., F.R.C.P.C., Chicagobased nuclear medicine physician Dan G. Pavel, M.D., and Denver-based psychiatrist Theodore Henderson, M.D., Ph.D, published a <u>seminal paper on bipolar disorder</u>. They studied a Canadian family of five, each of whom had been diagnosed with bipolar disorder. Each member had at least one perfusion SPECT brain scan, which demonstrates how the brain is functioning. Surprisingly, despite differences in age and gender, the parents and three children had very similar SPECT brain scan findings. The group found that all members of this family showed increased and

asymmetrical activity in the thalamus. They also found that the cortex was considerably overactive compared to scans of psychiatrically-normal patients. These findings point towards possible "biomarkers" or consistent SPECT brain scan findings that could help to recognize bipolar disorder earlier before the patient has experienced the financial, social, academic, and professional losses that so often accompany this disorder. Dr. Henderson said, "This family is a rare clinical pearl. We were able to eliminate many social, socioeconomic, and developmental variables because all five subjects were part of the same nuclear family."

Drs. McLean, Cohen, Henderson and Pavel (sadly, now deceased) are members of an international consortium of neuroimaging experts and clinicians, the <u>International Society of Applied Neuroimaging (ISAN)</u>. ISAN was founded to foster education about functional neuroimaging, research psychiatric and medical applications of functional neuroimaging, and assist clinicians in incorporating functional neuroimaging into their clinical practices. The group has also published papers in Frontiers in Psychiatry and Interventional Medicine and Clinical Imaging, to educate the practicing psychiatrist about functional neuro-imaging. The group has collective experience of hundreds of years of using functional neuro-imaging, particularly SPECT imaging, to improve the diagnosis and treatment of patients and they have collectively read over

280,000 SPECT scans.

Dr. McLean, the primary clinician and first author of the article entitled, Increased Asymmetric Perfusion of the Cerebral Cortices and Thalamus Indicates Individuals at Risk for Bipolar Disorder: A Family Cohort SPECT Neuroimaging Study, stated, "The treatment of bipolar disorder could be revolutionized if these potential biomarkers of asymmetrical thalamus and diffusely increased cortical perfusion, or "hotspots", meet their promise in future studies." She added, "Bipolar disorder is a frequent and severe mental disorder occurring early in adult life. Up to 70% of those with bipolar disorder go undiagnosed and there is often a 5-8 year delay in the correct diagnosis. Lack of early diagnosis results in the use of inappropriate medications, loss of career, suicide,

SEEING THE WAY FROM ILLNESS TO WELLNESS
International Society of Applied Neuroimaging

ISAN dedicated to educating physicians about using SPECT functional neuroimaging and integrating brain-based view of brain disease and brain health.

family hardships and financial distress. Our SPECT Scan findings provide visual markers of brain functioning, which will assist in the early diagnosis and treatment of this disabling disorder, preventing these tragedies."

Dr. Henderson, president of <u>Neuro-Luminance Inc.</u>, summarized the provocative paper this way, "Given the major advances in SPECT functional neuroimaging for both neurological and psychiatric conditions, the positions assumed by Neurology and Psychiatry are no longer tenable".

Neuro-Luminance Inc., based in Denver, Colorado, offers revolutionary new treatments for neurological and psychiatric conditions. Learn more at www.Neuro-luminance.com.

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