144 Abstracts

# Mood symptoms Associated with CADASIL Syndrome: A Case Report

Asad Shaikh, MD and Joel Idowu, MD

Resident

#### **Abstract**

**Objective.** To discuss the psychiatric symptoms that are associated with CADASIL syndrome Abstract Cerebral:

Autosomal Dominant Arteriopathy with Subcortical Infarcts and Leukoencephalopathy (CADASIL) is a rare type of hereditary disease involving the small cerebral vessels. The clinical symptoms are various and include recurrent ischemic strokes, migraine with aura, seizures with epilepsy, psychiatric problems such as mood disturbances, and progressive cognitive decline leading to dementia. This disease needs awareness amongst the psychiatrists even though it is discussed much more in neurology literature. Psychiatric symptoms are seen in 20-41% of patients with CADASIL syndrome (1, 2). Psychiatric symptoms are actually the initial presentation in 15% of the cases. (3) The psychiatric disturbance most reported are mood disturbances (9-41%) especially depression. Here a 42-year-old African American female was brought to the hospital emergency room after she was found wandering in the streets. Psychiatry was consulted for altered mental status. Upon evaluation by the psychiatric consult service she was only oriented to person, depressed, anxious and complaining of headaches. Initial CT scan showed marked small vessel disease and old lacunar infarcts in the basal ganglia and right corona radiata. Magnetic Resonance Imaging (MRI) of the brain showed acute infarcts in the right posterior frontal and right parietal lobes along with old infarcts. Her symptoms and findings on imaging were consistent with CADASIL syndrome. Once the diagnosis was confirmed and prior records were obtained patient was resumed on an antidepressant and anxiolytic.

Conclusion. The purpose of this case report was to discuss psychiatric symptoms associated with CADASIL syndrome. Although there has been research showing a relationship between vascular disease and depression, a review of the literature suggests that there needs to be more research done to explore other psychiatric disturbances that may be seen with this syndrome. Psychiatric symptoms that are untreated can have the potential to further impact the quality of life therefore psychiatrists need to be aware of this syndrome in order to treat these patients promptly. References. 1 https://bmcmedicine.biomedcentral.com/articles/10.1186/s12916-017-0778-8 2 http://dx.doi.org/10.32474/OJNBD.2018.01.000101 3 https://pdfs.semanticscholar.org/47-f6/5952ee3c5dcf2a61345f704914b17fa8dc0d.pdf

# Psychiatric Prescriber Attitudes, Experiences, and Proclivities Toward Digital Medicine and How They Influence Adoption of Digital Medicine Platforms

Charles Ruetsch, PhD<sup>1</sup>, Dawn Velligan, PhD<sup>2</sup>, Delbert Robinson, MD<sup>3</sup>, Chris Jaeger, MD, MBA<sup>4</sup>, William Carpenter, MD<sup>5</sup>, Tigwa Davis, PhD<sup>1</sup>, Joshua N. Liberman, PhD<sup>1</sup>, Jennifer Clerie, BS<sup>1</sup>, Heidi Waters, MBA, PhD<sup>6</sup> and Felicia Forma, BSc<sup>6</sup>

<sup>1</sup>Health Analytics, LLC, Columbia, MD, USA, <sup>2</sup>University of Texas Health Science Center, San Antonio, TX, USA, <sup>3</sup>The Donald and Barbara Zucker School of Medicine at Hofstra/Northwell, Glen Oaks, NY, USA, <sup>4</sup>JHC Solutions, LLC, San Francisco, CA, USA, <sup>5</sup>Maryland Psychiatric Research Center, University of Maryland School of Medicine, Baltimore, MD, USA, and <sup>6</sup>Otsuka Pharmaceutical Development & Commercialization, Inc., Princeton, NJ, USA

Presenting Author: Charles Ruetsch

#### **Abstract**

Background. Psychiatric prescribers typically assess adherence by patient or caregiver self-report. A new digital medicine (DM) technology provides objective data on adherence by using an ingestible event monitoring (IEM) sensor embedded within oral medication to track ingestion. Despite likely clinical benefit, adoption by prescribers will in part depend on attitudes toward and experience with digital health technology, learning style preference (LSP), and how the technology s utility and value are described. **Objective.** is to identify attitudes, experiences, and proclivities toward DM platforms that may affect adoption of the IEM platform and provide direction on tailoring educational materials to maximize adoption. Methods A survey of prescribers treating seriously mentally ill patients was conducted to assess drivers/ barriers to IEM adoption. Factor analysis was performed on 13 items representing prior experience with and attitudes toward DM. Factor scores were correlated with prescriber characteristics including attitude and experience with digital technologies, LSP, and level of focus on healthcare cost.

Results. A total of 127 prescribers (56% female, 76% physicians, mean age 48.1yrs.) completed the survey. Over 90% agreed medication adherence is important, visits allow enough time to monitor adherence (84.1%), and tailoring treatment to level of adherence would be beneficial (92.9%). The majority (65.9%) preferred relying upon outcomes data as their learning style while 15.9% preferred opinion leader recommendations and 18.3% information about how the technology would affect practice efficiency. Factor

Abstracts 145

analysis revealed four dimensions: Level of comfort with EHR; Concern over current ability to monitor medication adherence; Attitudes about value of DM applications; and Benefits vs cost of DM for payers. Women scored higher on attitudes about the value of digital applications (p<0.01). Providers who perceive nonadherence as costly, and those who believe DM could benefit providers and patients scored higher on the value of DM (p<.05). Those whose LSP focuses on improving efficiency and prescribers with a higher proportion of Medicaid/ uninsured patients displayed concern about their ability to monitor adherence (p<0.05). Willingness to be a Beta Test site for DM applications was positively correlated with concern about their ability to monitor adherence and attitudes about the value of DM (p<0.01).

Conclusions. Prescriber characteristics including LSP, focus on healthcare costs, and attitudes toward DM may be related to adoption of the IEM platform. Those with more Medicaid/ uninsured patients were more concerned about ability to monitor adherence while those focused-on cost and benefit to providers and patients viewed DM as part of a solution for managing outcomes and cost. Overall, LSP, patient panel size by payer type, and focus on healthcare cost containment should be considered when developing IEM provider training materials.

**Funding.** Otsuka Pharmaceutical Development & Commercialization, Inc.

## Xylological Variant of Reverse Fregoli Syndrome, Delusions of Being a Tree

Harsimran Singh Bakhshi<sup>1</sup> and Alan Richard Hirsch<sup>2</sup>

<sup>1</sup>Windsor University School of Medicine, Cayon, St. Kitts and Nevis, Caribbean, and <sup>2</sup>Smell and Taste Treatment and Research Foundation, Chicago, IL, USA

Presenting Author: Harsimran Singh Bakhshi

#### Abstract

**Introduction.** The delusion of being a living animate non-animal object has not heretofore been reported.

**Methods.** A 21-year-old right-handed cisgender female, two months prior to presentation, noted stiffness and difficulty with ambulation. One-month prior to admission, she experienced recurrent depression with myriad vegetative and nonvegetative symptoms of depression. On admission her chief complaint was I am a tree, standing motionless and minimally responding to query. After treatment with quetiapine, mirtazapine and hydroxyzine for a one-week period, her perception of being a tree fully resolved.

**Results.** Abnormalities in Mental Status Examination: Anxious mood repeatedly stating, I am a tree. Standing still for long periods of time, refusing blood pressure to be obtained and expressing fear of constricting flow. Neuropsychiatric Testing: Beck Depression Inventory Type II: 33 (severe depression)

**Discussion.** The rapid response to risperidone is consistent with Cotard's syndrome, which has been noted to respond rapidly to neuroleptics (Sharma, 2014). However, in Cotard's syndrome,

replacement by a living non-animal object has not hitherto been reported. Body infestation with animate objects, as in Ekbom syndrome, only includes animals not botanicals (Chaudhary, 2019). This could be viewed as Reverse Inanimate Capgras Syndrome: instead of an imposter replacing a close friend, who then is inserted into the sufferer; a tree has replaced the sufferer. Peradventure, this may fit into the construct of Intermetamorphosis, a misidentification syndrome associated with the belief that individuals have transformed into other persons (Jariwala, 2017). Botanical Intermetamorphosis, the belief by the sufferer that the other individual is transformed from a person into a plant has not been described. Reverse Intermetamorphosis is the projection of an external individual into the person suffering or a syndrome of altered physical and psychological identities of the self (Silva, 1990). However, in this situation, the objects are all human or animate animals not botanicals. In Fregoli syndrome, there is an altered physical identity of others. In Reverse Fregoli syndrome, the sufferer assumes the physical but not the psychological identity of the stranger (Silva, 1990). But in this instance, the stranger is human as opposed to a plant life form. In the current case there is only altered physical identity (into a tree) not psychological identity. The current case may also be interpreted as a Botanical Variant of Interparietal Syndrome. In this condition, parts of the body are perceived to be lifeless, due to lesions of the inferior parietal lobe including supramarginalis gyrus, angular gyrus and the basalis parietalis area (Angyal, 1935). Investigation for those whom have Intermetamorphosis, Fregoli syndrome, Capgras syndrome, Interparietal syndrome, and Cotard's syndrome for the presence of delusions involving plant life is war-

## The Dilemma, Conversion Disorder or Stiff Person Syndrome, a Case Report

Sultana Jahan, MD

University of Missouri, Department of Psychiatry, Columbia, MO, USA

Presenting Author: Sultana Jahan

### Abstract

Study Objectives. The main objectives of this case study are 1. Clinicians facing symptoms that are difficult to interpret should exercise caution in diagnosing conversion disorder. 2. Increasing awareness about rare neurological conditions may appear as psychogenic illnesses. 3. Clinicians be advocate for their patients. Introduction. Conversion disorder is a mental condition in which a person present with one or more symptoms of altered voluntary motor or sensory function, or other neurologic symptoms that cannot be explained by medical evaluation. Stiff person syndrome (SPS) is a disabling autoimmune central nervous system disorder characterized by progressive muscle rigidity, gait impairment, with superimposed painful spasms. SPS is commonly associated with high anti-glutamic acid decarboxylase