UFHEalth UNIVERSITY OF FLORIDA HEALTH

Background

- Anti-NMDA receptor encephalitis is a potentially fatal autoimmune disorder that can mimic a primary psychotic disorder, leading to psychiatric admissions in close to 60% of cases [1].
- In this poster, we explore the ways in which the intersection of race and mental health stigma within healthcare may have played a role in this patient's hospital course.

Case

- A 36-year-old Black male with a history of migraines, PTSD, and alcohol use disorder (early remission) presented voluntarily to the Emergency Department with increased fearfulness, headaches, irritability, and vivid nightmares. Basic labs, including urine drug screen and blood alcohol level, were unremarkable and he was admitted to the psychiatric unit.
- Over the next few days, he developed confusion, disorganization, agitation, and hallucinations and reported feeling as though his "brain is on fire".
- He received scheduled risperidone and, for agitation, multiple emergency treatment orders of haloperidol. As his level of consciousness declined, concerns for iatrogenic causes were raised and psychotropics were discontinued.
- Medicine and Neurology teams were consulted, and though delirium was considered, transfer to a medical floor was declined.
- He later developed ataxia and severe sialorrhea with fluctuating vital signs, prompting the Emergency Response Team (ERT) to be called.
- Despite being found on the floor with pooling saliva, he was not transferred until a second ERT was called.
- He was moved to the MICU, where he was ultimately found to have anti-NMDA receptor encephalitis.

Intersection of Race and Mental Health Stigma in a Case of **Anti-NMDA Receptor Encephalitis**

Nadia Cacodcar, MD; Cabbar Dundar, MD; Gurumayan K Someson, DO; Josepha Cheong, MD

Literature Review and Discussion

- with psychotic disorders compared to White patients [2].
- can result in dismissal of medical concerns in patients with psychiatric history [3].
- antipsychotic [7,8].

Characteristic	With Psychosis (N=12)	
	N	%
Female	10/12	83
Psychiatric admission	7/12	58
Psychiatric review	12/12	100
Presence of teratoma	5/12	42
Seizures present	7/12	5 <mark>8.</mark> 3
Movement disorder	11/12	91.7
Autonomic instability	9/12	75
Reduced consciousness	6/12	50
Abnormal EEG	9/11	82
CSF: pleocytosis or oligoclonal bands	5/11	45
MRI suggestive of encephalitis	3/11	27
	Mean	SD
Age (years)	33.8	12.0

Figure 1: Demographic and Clinical Characteristics of Patients with anti-NMDAR Encephalitis Who Presented with Psychoses from Gibson et al. 2011.

• Research has shown that Black patients are three to four times more likely to be misdiagnosed

• It has also been found that stigmatization of mental health within the healthcare community

• Atypical neuroleptic malignant syndrome was initially of primary concern in this case upon transfer to the MICU. Given that anti-NMDA receptor encephalitis shares clinical features with neuroleptic malignant syndrome, the two can be difficult to distinguish [4,5,6]. Patients often receive antipsychotics prior to encephalitis being considered as the cause for psychosis.

• Studies have shown that Black patients are at greater risk of receiving higher doses of

• In a condition where most patients present with psychotic symptoms, we propose that Black patients are at a higher risk of misdiagnosis, mismanagement, and ultimately delay in care.

Conclusions

- Though there is an increasing number of reports discussing anti-NMDA receptor encephalitis, none were found that examine the impact of racial bias or mental health stigma.
- It is essential for psychiatrists to be both aware of this condition and aware of their own biases so that they can advocate for appropriate care.

References

1. Gibson L, Pollak T, Blackman G, Thornton M, Moran N, David A: The Psychiatric Phenotype of Anti-NMDA Receptor Encephalitis. The Journal of Neuropsychiatry and Clinical Neurosciences 2019; 31(1), 70-79.

2. Schwartz R, Blankenship, D: Racial disparities in psychotic disorder diagnosis: A review of empirical literature. World Journal of Psychiatry 2014; 4(4), 133–140.

3. Knaak S, Mantler E, Szeto A: Mental illness-related stigma in healthcare: Barriers to access and care and evidence-based solutions. Healthcare Management Forum 2017; 30(2), 111–116.

4. Berg A, Byrne R, Coffey BJ. Neuroleptic Malignant Syndrome in a Boy with NMDA Receptor Encephalitis. Journal of Child and Adolescent Psychopharmacology. 2015;25(4):368-371.

5. Koksal A, Baybas S, Mutluay B, Altunkaynak Y, Keskek A. A case of NMDAR encephalitis misdiagnosed as postpartum psychosis and neuroleptic malignant syndrome. Neurological Sciences. 2014;36(7):1257-1258.

6. Rozier, Margaret, et al. "Anti–N-Methyl-D-Aspartate Receptor Encephalitis: A Potential Mimic of Neuroleptic Malignant Syndrome." Pediatric Neurology, 2017.

7. Diaz, Francisco J., and Jose de Leon. "Excessive Antipsychotic Dosing in 2 U.S. State Hospitals." The Journal of Clinical Psychiatry, vol. 63, no. 11, 15 Nov. 2002, pp. 998–1003, 10.4088/jcp.v63n1107.

8. Lehman AF, Steinwachs DM. Patterns of Usual Care for Schizophrenia: Initial Results From the Schizophrenia Patient Outcomes Research Team (PORT) Client Survey. Schizophrenia Bulletin. 1998;24(1):11-20.