Considerations For Transplant Risk Assessment In The Setting of Cooccurring Alcohol Use Disorder and **Eating Disorder**

Shaheen F. Ali, MD – Attending Psychiatrist, Faculty Group Practice, NYU Langone Health

Allison B. Deutch, MD – Site Director For Women's Mental Health, Attending Psychiatrist, Consultation-Liaison Psychiatry Service, NYU Langone Health

A. Simon Sidelnik, MD – Director, Addiction Consultation-Liaison Psychiatry Service, NYU Langone Health

Marra G. Ackerman, MD – Director, Consultation-Liaison Psychiatry Service, NYU Langone Health

Department of Consultation-**Liaison Psychiatry**



INTRODUCTION

- Rates of alcohol use disorder amongst women have increased markedly since the start of the COVID-19 Pandemic with some studies showing as much as a 41% increase in heavy drinking days (1), leading to an alarming increase in young women presenting with end-organ damage requiring transplantation.
- Among women with alcohol use disorder, there is a high degree of comorbidity with eating disorders (ED) with studies suggesting rates of co-occurring disease as high as 23-50% (2).
- There is little data on the assessment of transplant recipients who have co-occurring ED and AUD.

OBJECTIVES

- To understand the ways in which co-occurring ED and AUD may impact pre-transplant risk assessment
- To describe the unique treatment considerations in patients with co-occurring ED and AUD

CASE REPORT

- Ms X is a 34-year-old woman with no formal psychiatric history presented to NYU Langone Hospital's Manhattan campus in acute hepatic failure (MELD Score 34) in the context of escalating alcohol use over the course of the COVID-19 Pandemic.
- BMI < 16 at lowest weight, with B12 deficiency, anemia, hyponatremia, and hyperbilirubinemia.
- X did not respond to multiple medical therapies, so evaluation for liver transplantation was initiated, and Psychiatry was consulted to evaluate psychosocial risk for transplant.
- Implementing the Stanford Integrated Psychosocial Assessment for Transplant (SIPAT), X was found to be a high-risk candidate (SIPAT score of 81).

Outcomes:

 The patient was declined for listing and medically stabilized. She was declined by all inpatient substance use programs given the extent of her ED and rejected recommendations for targeted ED treatment. She was ultimately discharged to an intensive outpatient program for AUD.

PRE-TRANSPLANT ASSESSMENT WITH SIPAT

<u>Patient Readiness Level</u>

- I. Knowledge & Understanding of the **Medical Illness**
- II. Knowledge & Understanding of the Transplant **Process**: Moderate
- III. Willingness/Desire for Treatment with Transplant:
- IV: Treatment Compliance/Adherence: Limited
- V. Lifestyle Factors (including diet, exercise, fluid restriction, habits): Late ("Patient adheres to recommended changes only after the development of complications.")

Psychological Stability and Psychopathology

A) **Depression assessment:** Moderate depression (PHQ-9

C) PTSD assessment: Possible PTSD (SSS-PTSD score of 2)

B) Anxiety assessment: Moderate anxiety (social >

IX: Presence of psychopathology: Severe

D) Mania assessment: No clinical mania

Borderline (MOCA of **24/30**).

E) Psychosis assessment: No clinical psychosis

X. Organic Psychopathology/Neurocognitive

A). Assessment of current cognitive functioning:

XI. Influence of **Personality** traits vs disorder:

XII. Problems with truthfulness/deception: Mild

XIII. Overall risk for psychopathology: Severe

- XVI: Substance (illicit/prescription) use disorder:
- XVIII: Nicotine use disorder: Past use (> 6 months)

Effect of Lifestyle and Substance Use

Social Support System

VI. Availability of Social Support System: Good

VII. Functionality of Social Support System: Good

VIII: Appropriateness of physical living space &

- XIV: Alcohol use disorder: Severe alcohol use disorder
- XV: Alcohol use disorder Risk for Relapse: Extreme
- Minimal problems related to other drug misuse
- XVII: Substance (illicit/prescription) use disorder Risk for relapse: Low risk

ADDITIONAL TRANSPLANT CONSIDERATIONS

<u>Patient Readiness Level</u>

- Limited insight into ED diagnosis and contributions to hepatic failure
- Limited understanding of interaction of ED and
- Poor adherence with prior ED and AUD treatment Lack of agreement to AUD and ED treatment

Social Support System

- Partner with a history of AUD
- Mother identified as primary support but lacked stable, local housing

Psychological Stability and Psychopathology

- Met criteria for **ARFID**
- Alcohol main source of calories prior to hospitalization
- Cognitive impairment present due to encephalopathy and malnourishment Concern that emphasis on sobriety after
- transplant may worsen ED behaviors Lack of comprehensive **treatment** options for ED
- and AUD

Lifestyle and Substance Use

- Met criteria for severe AUD
- No periods of sobriety prior to presentation
- Family history of AUD
- Employment as bartender

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priority.

DISCUSSION

Pollard, M, et al. "Changes in Adult Alcohol Use and Consequences During COVID-19 Pandemic in the US." JAMA Netw Open. 2020;3(9).

• There is currently a paucity of information regarding liver transplantation in

considerations for pre- and post-transplant management

in patients with EDs relative to other psychiatric illnesses.

• The presence of EDs increases post-operative relapse (3).

and poorer retention in residential treatment(4).

a trigger for ED recurrence(3).

CONCLUSIONS

considerations.

coping mechanisms.

treatment recommendations.

Future directions:

patients with co-occurring AUD and EDs, which present with many unique

Existing screening methods such as the SIPAT do little to evaluate transplant risk

• While predictive risk factors for recurrence of alcohol use after transplant have

The emphasis on abstinence from alcohol in the post-transplant period may be

• Post-transplant, patients with ED have an **increased risk of relapse** to alcohol

• Patients with co-occurring ED and AUD requiring liver transplantation are a

While the SIPAT does rely on specific diagnostic tools for identifying depression,

risk of substance use relapse), there is no current assessment for patients with

• Eating pathology is thought to have **common pathogeneses** with substance use

• Identifying risk factors for eating pathology in the transplant setting is a research

Including diagnostic tools for identifying eating pathology may offer a more

personality traits or schema resulting in dependencies that serve as maladaptive

thorough SIPAT evaluation of risks in the transplant candidate, as well as informing

disorders, both in inherent genetic risks associated with addictions, and in

anxiety, PTSD, mania, and psychosis (as well as the effect of substance use and

challenging patient population with complex pre- and post-transplant

eating pathology beyond the influence of personality traits.

been identified, little is known about the risk factors for ED relapse.

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Corresponding author: Shaheen Ali, M.D., Shaheen.Ali@nyulangone.org