

The utility of Phosphatidylethanol testing in assessing alcohol use in bariatric surgery candidates: A case series Kellie Martens, PhD, Lisa R. Miller-Matero, PhD, ABPP, Aaron Hamann, PsyD, Kelly Bryce, PhD,

Background/Significance

- Current literature asserts that there is a higher prevalence of alcohol use disorders (AU bariatric surgery, and that those with a h heavy drinking are at higher risk.
- The incidence of AUD is also high, with of patients developing an alcohol use di the 5 years after surgery.¹
- Before surgery, alcohol use is assessed psychiatric evaluation; however, patient underreport drinking due to motivation surgical clearance.
- Phosphatidylethanol (PEth) testing is us objective measure of alcohol use in othe populations (e.g., liver transplant candid has not been utilized prior to bariatric su



• This two-case suggests that F testing may hav in identifying] alcohol consur among bariatric surgery candidates.

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Cases

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• Ms. X is a Black female in Ms. Y is a Black female in her early 40s, BMI of 20s, body mass 45.77. She was diagnosed SMI) of 43.61. At surgical psychiatric with an **alcohol use** disorder, severe, in early on, diagnoses **remission** at her prean adjustment surgical evaluation. She psychological reported abstinence for ffecting morbid approximately and **alcohol use** three months prior to r, moderate She had reportedly her psychiatric king three weeks evaluation. her evaluation.

nerapists and the bariatric psychologist.

Results at Follow-up

• Ms. X's PEth results revealed heavy alcohol use in the prior 2-4 weeks (PEth 16:0/18.1 = 580 ng/mL).



• Ms. Y's PEth results were also **positive** (quantitative results not available).

- surgery.

- Diseases. 2017;13(8):1392-402.
- 2.Images from: 123rf.com



Discussion

• Two bariatric candidates were identified as having AUD at their pre-surgical psychiatric evaluation. • After completing treatment for substance use relapse prevention and reporting abstinence for over 6 months, both patients tested positive for continued alcohol use. One patient was still drinking heavily. • Without objective alcohol use testing, these patients would have been cleared for bariatric

Conclusion/Implications

• Existing literature may overestimate the incidence of AUD related to bariatric surgery, as some patients underreport their drinking prior to surgery. • Further research should explore whether PEth testing would be beneficial as a standard part of the presurgical work up for all bariatric surgery patients or if it is most useful for confirming abstinence among those with a history of heavy drinking. **Accurately identifying AUD before bariatric** surgery may help ensure proper treatment to prevent relapse post-surgery.

References

1.King WC, et al. Alcohol and other substance use after bariatric surgery: prospective evidence from a US multicenter cohort study. Surgery for Obesity and Related