

Microdosing as a novel alternative buprenorphine induction

strategy for patients with opioid use disorder

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Outcomes

Background and Purpose

- Buprenorphine-naloxone (bupe) is a well-studied, highly effective medication for the treatment of opioid use disorder (OUD).
- The traditional bupe induction requires patients to be in mild withdrawal before starting the medication.
- An alternative induction strategy called microdosing is a novel way to start patients on bupe, with patients reporting minimal withdrawal and high satisfaction with the induction process. 1,2,3
- This project aimed to develop materials and expand knowledge in the use of microdosing as an alternative strategy for buprenorphine inductions.



Creation of project resources	Four protocols based on prior opioid used were created: - Short-acting opioids - Methadone (once daily dosing) - Long-acting opioids - Methadone (split daily dosing)
	Provider guide including evidence, protocols, smart tools, and commonly encountered issues was created.
	Patient decision guide including information on medication and induction options was created.
	Patient graphics for each microdosing protocol were created.
Expansion of evidence- based OUD treatment practices	The resources created as a part of this project were published to a public facing Dropbox link (QR code to the right).
	The local jail is now incorporating the microdosing protocols created as a part of this project in their transfer and release processes.
Expansion of the role of the PA in OUD treatment	Presentations on this project were given to MD, NP, and PA providers from various practice settings.
	The PA Author of this project was approved for a SAMHSA exemption request to perform methadone inductions in New York State.

References

1. Vogel M, Hämmig R, Kemter A et al. Use of microdoses for induction of buprenorphine treatment with overlapping full opioid agonist use: the

Bernese method;. Subst Abuse Rehabil. 2016;Volume 7:99-105. doi:10.2147/sar.s109919

2. Becker W, Frank J, Edens E. Switching From High-Dose, Long-Term Opioids to Buprenorphine: A Case Series. Ann Intern Med. 2020;173(1):70-71. doi:10.7326/l19-0725

3. Brar R, Fairbairn N, Sutherland C, Nolan S. Use of a novel prescribing approach for the treatment of opioid use disorder: Buprenorphine/naloxone micro-dosing – a case series. Drug Alcohol Rev. 2020;39(5):588-594. doi:10.1111/dar.13113



Conclusion

- Microdosing is a novel buprenorphine induction technique with the potential to help patients who have a history of difficult bupe inductions, or anxiety surrounding the induction process.
- The resources created as part of this project were designed to streamline microdosing inductions and to support healthcare providers who wish to offer this induction strategy to their patients.
- Further research should be done to assess the effectiveness of the microdosing schedules outlined in this project, to determine improvement points for future resource development.



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