Clinical Opioid Withdrawal Scale

Description and Use Cases Dr. David Yanga, FASAM Chief Medical Officer Ascension Brighton Center for Recovery

History of opioid withdrawal¹

- First withdrawal scales developed in the 1930's
- "One of the most stereotyped syndromes in clinical medicine" – Isbell, 1950
- 1960's Opiate Withdrawal Experience Scale
- 1988 Clinical Institute Narcotic Assessment (CINA) – Peachey and Lei
- 1999 Clinical Opioid Withdrawal Scale (COWS) – Wesson et al

COWS

- Validated scale used to monitor and describe the severity of opioid withdrawal
- Emerged around the time that buprenorphine became available for the treatment of opioid use disorder
- 11 items assessed on the scale
- Relatively objectivistic
- Open source(!!)

Example of COWS instrument

- Note that multiple items are very objectivistic
 - Yawning
 - Heart rates
 - Tearing
 - Sweat that is observed
 - Pupillary dilation

 Training for the 11 items is not extensive but training is definitely needed in order to adequately equip all front-line staff

COWS Scoring

- Interpreting the score:
 - < 5 = no clear evidence of opioid withdrawal
 - 5-12 = mild opioid withdrawal
 - 13-24 = moderate opioid withdrawal
 - •25-36 = moderately severe opioid
 - withdrawal
 - > 36 = severe opioid withdrawal
- At a score of 12 or higher, the risk of having a precipitated withdrawal with use of buprenorphine is reduced²

Practical Use Cases for COWS

- Assessment to diagnose if a patient is in opioid withdrawal
- Assessment to time inductions for buprenorphine induction (12 or higher)²
- Assessment of effectiveness of treatment for opioid withdrawal with clonidine, buprenorphine or methadone
- Objective clinical data for outcomes reporting
- Objective clinical data for research reporting

Pitfall and Warnings

- If you launch an initiative to use COWS ...
 What will you do with the information?
 Do you have clinical pathways of care developed?
 - Inpatient care pathways standardized order sets, formulary . . .
 - Outpatient care pathways referral pathways, bridge clinics . . .

Pitfalls and Warnings . . .

 Do you have staff that are properly trained to manage addiction and withdrawal symptoms?

Nurses

• Advanced Practice Providers

- Physicians
- Masters Level Therapists

• Do you have enough buprenorphine waivered clinicians to manage the case load?

Admonitions

- We have to more forward in the care of patients with opioid use disorders and other addiction disorders
- Opioid withdrawal can be managed well with standardized tools and standardized medication regimens

Admonitions

- Quality education can be obtained from the American Society of Addiction Medicine (ASAM)
 - Treatment of Opioid Use Disorder Course (8 CME)
 - Fundamentals of Addiction Medicine Course (40 CME)
- Incremental changes with a solid roadmap can transform institutions

References

- 1: Tompkins DA, Bigelow GE, Harrison JA, Johnson RE, Fudala PJ, Strain EC. Concurrent validation of the Clinical Opiate Withdrawal Scale (COWS) and singleitem indices against the Clinical Institute Narcotic Assessment (CINA) opioid withdrawal instrument. Drug Alcohol Depend. 2009 Nov 1;105(1-2):154-9. doi: 10.1016/j.drugalcdep.2009.07.001. Epub 2009 Aug 3. PubMed PMID: 19647958; PubMed Central PMCID: PMC2774236.
- 2: Nielsen S, Hillhouse M, Weiss RD, Mooney L, Sharpe Potter J, Lee J, Gourevitch MN, Ling W. The relationship between primary prescription opioid and buprenorphine-naloxone induction outcomes in a prescription opioid dependent sample. Am J Addict. 2014 Jul-Aug;23(4):343-8. doi: 10.1111/j.1521-0391.2013.12105.x. Epub 2013 Sep 24. PubMed PMID: 24112096; PubMed Central PMCID: PMC4151625.

Questions??