

Opioid Addiction Treatment ECHO For Providers and Primary Care Teams



Medication Treatment for Opioid Use Disorder

Developer: Joe Merrill, MD, University of Washington, Charles Morgan MD, and Anne Griepp MD, Western New York Collaborative And Miriam Komaromy, MD, University of New Mexico Reviewer/Editor: Miriam Komaromy, MD, The ECHO Institute™ Updated by/Presenter: Gabriela Williams, PharmD, Eskenazi Health





Joe Merrill, Charles Morgan, and Ann Griepp, Miriam Komaromy and Gabriela Williams have nothing to disclose.



Medications for Opioid Use Disorder

- Buprenorphine (sublingual and implantable)
- Naltrexone (oral and extended release injectable)
- Methadone

"Detox" has no long-term effect on outcomes; it is medication maintenance that saves lives and reduces relapse





Acute Use

Chronic Use

Alford, Boston University, 2012 (O)

 \bigcirc

Ø

0



Pharmacotherapy for Opioid Addiction: **Methadone**

- Most effective
 - **1** survival, treatment retention, employment
 - Illicit opioid use, hepatitis and HIV infections, criminal activity
- Highly regulated, dispensed at Opioid Treatment Programs (OTP)
 - Supervised daily dosing with take-home doses if stable
 - Counseling, urine testing
 - Psychiatric, medical services often not provided
 - Illegal to prescribe methadone for addiction in general practice
- Cost-effective
 - Every dollar invested generates \$4-5 in savings



Pharmacotherapy for Opioid Addiction: **Methadone**

Daily, observed dosing

- Full opioid agonist
- Onset within 30-60 minutes
- Long-acting: Daily dosing effective for addiction
- Dose 20-40 mg for acute withdrawal
- >80 mg for craving and "blockade"
- To evaluate stability, ask about take-home doses
- Multiple medication interactions

Advise staying in treatment until social, medical, psychiatric,

legal, and family issues are stable.

- "Detox" therapy has no long-term effect on outcomes
- Longer duration, higher dose treatment most effective
- For some patients, methadone therapy should be lifelong, as risk of relapse is high after cessation



Pharmacotherapy for Opioid Addiction: **Buprenorphine**

- 2000 Federal Drug Addiction Treatment Act ("DATA-2000"):
 - Made office-based addiction treatment by physicians legal
 - Must complete 8-hour training and obtain federal waiver
- 2002: Suboxone (buprenorphine/naloxone) FDA approved
 - Outcomes much superior to psychosocial treatment alone
 - Longer treatment duration is more effective
- Compared to methadone:
 - Similar abstinence from illicit opioids and decreased craving
 - Lower retention in treatment
 - Can be prescribed in general practice, lowering barriers to treatment



Ø

0

(O)



Pharmacotherapy for Opioid Addiction: **Buprenorphine**

- Partial opioid agonist, so safer than methadone
- High mu receptor affinity, so blocks other opioids
- Formulated with naloxone abuse deterrent
- Sublingual dosing and newer implant (Probuphine) and extended release subcutaneous injectable (Sublocade)
- Can precipitate withdrawal in tolerant patients
- Requires induction after patient enters mild-moderate withdrawal
- Implant approved for stable patients on ≤8 mg buprenorphine
- Extended release subcutaneous injectable approved in those initiated on transmucosal buprenorphine 8-24mg/day after a minimum of 7 days



Ø



Buprenorphine in Primary Care

- Advantages of buprenorphine in primary care:
 - Setting built for chronic disease management
 - Reduces the stigma of addiction treatment
 - Facilitates management of mental health and medical comorbidities and preventive care
 - Important tool when problems arise during chronic opioid therapy
 - Public health benefit: increases local access to lifesaving care
- Highly gratifying form of treatment!



Naltrexone

- Opioid antagonist that blocks other opioids
- Does not lead to physical dependence, or to withdrawal when stopped
- Causes acute withdrawal in opioid-dependent patients
- Can be used in office-based settings without added training
- Effective in alcohol use disorder treatment
- Two formulations available:
 - Oral ReVia 50 mg PO daily
 - Injectable Vivitrol 380 mg IM monthly





Naltrexone for Opioid Use Disorder

- Requires opioid abstinence prior to initiation, a major barrier since most treatment-seeking patients are actively using opioids
- Russian studies show benefit in population where opioid substitution therapy is not available
- Recent study (Lancet 2018) found that relapse events were higher with extended release naltrexone when compared to buprenorphine – most or all of the difference in relapse was due to induction failure with extended release naltrexone
 - In patients successfully initiated on naltrexone, relapse rates were similar compared to buprenorphine



https://medicine.yale.edu/edbup

ED-Initiated Buprenorphine



Notes:

ECHO



If you develop worsening symptoms while starting buprenorphine before your scheduled outpatient appointment return to the emergency department

https://medicine.yale.edu/ edbup/



Summary: Medications for Opioid Use Disorder

- Prescription opioid and heroin epidemics are major public health problems
- Medications are an essential component of evidence-based treatment
- Methadone and buprenorphine are the most effective pharmacotherapies for opioid use disorder
- Naltrexone can also be used, but patients must go through an opioid-free period (7-10 days) prior to induction
- Primary care teams can play an important role in treatment of opioid use disorders and prevention of overdose



<u>J Addict Med.</u> 2014 Sep-Oct;8(5):299-308. doi: 10.1097/ADM.0000000000000059. **Unobserved "home" induction onto buprenorphine.** <u>Lee JD</u>¹, <u>Vocci F</u>, <u>Fiellin DA</u>

<u>A comparison of **buprenorphine induction** strategies: patient-centered **home**-based inductions versus <u>standard-of-care office-based inductions</u>. Cunningham CO, Giovanniello A, Li X, Kunins HV, Roose RJ, Sohler NL.</u>

J Subst Abuse Treat. 2011 Jun;40(4):349-56

Statement of the American Society Of Addiction Medicine Consensus Panel on the use of **buprenorphine** in office-based treatment of opioid addiction.

Kraus ML, Alford DP, Kotz MM, Levounis P, Mandell TW, Meyer M, Salsitz EA, Wetterau N, Wyatt SA; American Society Of Addiction Medicine..

J Addict Med. 2011 Dec;5(4):254-63. doi:

Collaborative care of opioid-addicted patients in primary care using **buprenorphine**: five-year experience. Alford DP, LaBelle CT, Kretsch N, Bergeron A, Winter M, Botticelli M, Samet JH. Arch Intern Med. 2011 Mar 14;171(5):425-31.



Buprenorphine maintenance versus placebo or methadone maintenance for opioid dependence. Mattick RP, Breen C, Kimber J, Davoli M. Cochrane Database Syst Rev. 2014

NIDA (2016). Understanding Drug Abuse and Addiction: What Science Says. Retrieved January 2, 2017, from https://www.drugabuse.gov/understanding-drug-abuse-addiction-what-science-says

Psychosocial combined with agonist maintenance treatments versus agonist maintenance treatments alone for treatment of **opioid** dependence. Amato L, Minozzi S, Davoli M, Vecchi S. **Cochrane** Database Syst Rev. 2011 Oct 5;(10):CD004147

Lancet. 2003 Feb 22;361(9358):662-8.

1-year retention and social function after buprenorphine-assisted relapse prevention treatment for heroin dependence in Sweden: a randomised, placebo-controlled trial.

Kakko J¹, Svanborg KD, Kreek MJ, Heilig M.

<u>Am J Public Health.</u> 2013 May;103(5):917-22. doi: 10.2105/AJPH.2012.301049. Epub 2013 Mar 14. **Opioid agonist treatments and heroin overdose deaths in Baltimore, Maryland, 1995-2009.** <u>Schwartz RP¹, Gryczynski J</u>, <u>O'Grady KE</u>, <u>Sharfstein JM</u>, <u>Warren G</u>, <u>Olsen Y</u>, <u>Mitchell SG</u>, <u>Jaffe JH</u>

Ø



Cochrane Database Syst Rev. 2008 Apr 16;(2):CD006140. doi: 10.1002/14651858.CD006140.pub2. Sustained-release naltrexone for opioid dependence.

Lobmaier P¹, Kornør H, Kunøe N, Bjørndal A

Lancet. 2011 Apr 30;377(9776):1506-13. doi: 10.1016/S0140-6736(11)60358-9. Injectable extended-release naltrexone for opioid dependence: a double-blind, placebo-controlled, multicentre randomised trial.

Krupitsky E¹, Nunes EV, Ling W, Illeperuma A, Gastfriend DR, Silverman BL.

Lancet. 2018 Jan 27;391(10118):309-318.. doi: 10.1016/S0140-6736(17)32812-X. Comparative effectiveness of extended-release naltrexone versus buprenorphine-naloxone for opioid relapse prevention (X:BOT): a multicentre, open-label, randomised controlled trial. Lee JD, Nunes EV Jr, Novo P, et al.



Collaborative care of opioid-addicted patients in primary care using buprenorphine: five-year experience. Alford DP, LaBelle CT, Kretsch N, Bergeron A, Winter M, Botticelli M, Samet JH. Arch Intern Med. 2011 Mar 14;171(5):425-31.

<u>Prev Med.</u> 2015 Nov;80:10-1. doi: 10.1016/j.ypmed.2015.04.002. Epub 2015 Apr 11. Vermont responds to its opioid crisis.

Simpatico TA¹

Yale School of Medicine (2019). ED-Initiated Buprenorphine. Retrieved April 22, 2019 from https://medicine.yale.edu/edbup/

