

E-QUAL EMERGENCY QUALITY NETWORK

Opioid Initiative Wave I – Treating Opioid-Use Disorder in the ED Part 1



Presenter

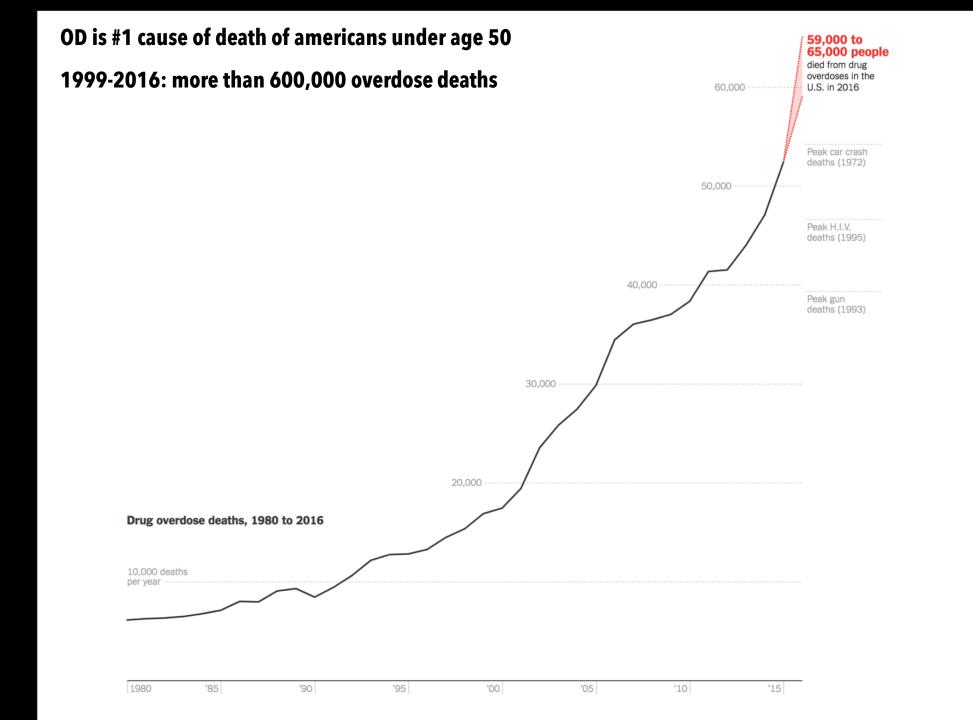


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emergency department management of the patient with opioid withdrawal



I have chronic pain and need meds I overdosed and got naloxone by EMS I overdosed and am now in cardiac arrest I inject heroin and now have cellulitis / endocarditis I have complications from HIV or Hep C I sell sex to get drugs and now have an STI I'm homeless I've been arrested I've been assaulted

I'm addicted to narcotics and am now in withdrawal
I have a problem and need help
I'm dope sick and can't stop vomiting

opioid withdrawal case

27F no PMH, visiting from LA opioid addict, prefers fentanyl arrives at 5p severe body aches, restlessness, vomiting, diarrhea 4 IV start attempts over 30 minutes, conflict++ receives, over **11 hours** in the ED: Ondansetron 8mg IV x2: 16mg IV Promethazine 25mg IVPB x2: 50mg IV Clonidine 0.2mg PO x 4 doses: 0.8mg PO Lorazepam 2mg IV x 3 doses: 6mg IV Haloperidol 5mg IV x 2 doses: 10mg IV Normal Saline 2 liters IV.

Discharged with promethazine and clonidine prescription

opioid withdrawal case

4 IV start attempts over 30 minutes, conflict++ receives, over **11 hours** in the ED:

Ondansetron 8mg IV x2: 16mg IV

Promethazine 25mg IVPB x2: 50mg IV

Clonidine 0.2mg PO x 4 doses: 0.8mg PO

Lorazepam 2mg IV x 3 doses: 6mg IV

Haloperidol 5mg IV x 2 doses: 10mg IV

Normal Saline 2 liters IV.

Discharged with promethazine and clonidine prescription

opioid withdrawal case visit #2

arrives at 6p the following day severe body aches, restlessness, vomiting, diarrhea now also intermittently drowsy and lightheaded/presyncopal Ondansetron 8mg IV x1: 8mg IV Promethazine 25mg IVPB x2: 50mg IV Clonidine 0.2mg PO x 3 doses: 0.6mg PO Lorazepam 2mg IV x 3 doses: 6mg IV Haloperidol 5mg IV x 1 doses: 5mg IV Ketamine 10mg IV (0.2mg/kg) x 2 doses: 20mg IV Normal Saline 3 liters IV

Discharged with promethazine and clonidine prescription

opioid withdrawal case visit #3

arrives at 4p the following day severe body aches, restlessness, vomiting, diarrhea now emotionally distraught

Ondansetron 8mg ODT Buprenorphine 8mg SL Ondansetron 8mg ODT Buprenorphine 8mg SL

Discharged with suboxone 8 mg tabs

opioid withdrawal

is hell on earth

"It feels like the worst flu you ever had, the sickest you've ever been, at times suicidal thoughts and complete and total confidence that you are never, ever, ever going to feel better."

"For days, I shook uncontrollably. I sweat through my sheets."

"I wanted to tear my hair out of my skull and my scratch the skin off of my body."

"It feels like the day your wife left and your kitten died and there were no more rainbows anywhere and never will be again."

opioid withdrawal

anxiety, irritability, restlessness, agitation diffuse pain, myalgias, arthralgias dysphoria, depression, hopelessness vomiting, diarrhea, abdominal cramping autonomic dysfunction: sweating, tremor, THR/BP rhinorrhea, lacrimation mydriasis, yawning, piloerection

opioid withdrawal: non-opioid treatments

dysautonomia: clonidine (dexmedetomidine, lofexidine)

pain: NSAIDs, acetaminophen, gabapentin, baclofen, tizanidine

Gl distress: ondansetron, phenothiazines, antihistamines, loperamide, dicyclomine, octreotide

agitation: benzodiazepines, antipsychotics, ketamine

clonidine 0.1-0.3 mg po q1-3h dexmedetomidine start at 0.2 mcg/kg/min lofexidine 0.2-0.4 mg po q6-12h ibuprofen 400-600 mg po q4-6h ketorolac 15 mg IV/IM q4-6h acetaminophen 500-1000 mg po q6h gabapentin 200-400 mg po q6-8h baclofen 10 mg po q8h tizanidine 4-8 mg po q6-8h ondansetron 4-8 mg po/IV q4-6h promethazine 25-50 mg IV/IM metoclopramide 10-20 mg IV q6-8h diphenhydramine 50 mg IV q6-8h hydroxyzine 50-100 mg po/IM q4-6h loperamide 4 mg po q4h octreotide 100 mcg SC q8h dicyclomine 20 mg po q6h lorazepam 2-4 mg PO/IV q2-4h diazepam 10-20 mg IV q30-60 min midazolam 2-5 mg IM q2h haloperidol 2-10 mg IV/IM/PO q4-6h droperidol 1-5 mg IV/IM q4-6h olanzapine 5-10 mg IM q4h ziprasidone 10-20 mg IM q4h ketamine 0.25 mg/kg IV over 20 min q2h

non-opioid treatments of opioid withdrawal do not address the underlying problem and are therefore relatively ineffective

because non-opioid treatments of opioid withdrawal are relatively ineffective, the patient's ED course is often difficult and protracted

non-opioid treatments do not address cravings, which leave the patient much more vulnerable to self-treating with street drugs, which are more lethal than ever before

treating withdrawal with nonopioids misses the opportunity to move the patient to recovery with MAT

opioid withdrawal treatment with methadone

10 mg IM or 20 mg PO cannot be prescribed by emergency providers full agonist harms: respiratory depression

opioid withdrawal treatment with buprenorphine

- partial agonist + high receptor affinity = much less likely to cause respiratory depression & blocks activity of other opioids
- the patient who is therapeutic on bup is safe
- can be prescribed for opioid withdrawal with an X-waiver or dispensed for 72 hours
- warm handoff to outpatient care: moving OUD patients from withdrawal to recovery

precipitated withdrawal

is withdrawal caused by naloxone (or buprenorphine)

best treatment for precipitated withdrawal is TBD

usual treatment is with non-opioids

may require aggressive sedation until antagonist wears off

emergency department management of the patient with opioid withdrawal

opioid withdrawal is hell on earth

dysphoria, anxiety, severe pain and GI distress

variety of non-opioid therapies can improve symptoms

opioid agonist therapies offer many advantages, including moving the patient to recovery with MAT

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