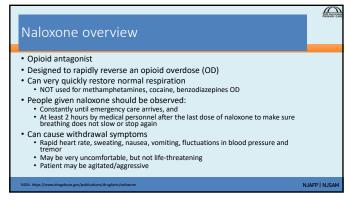
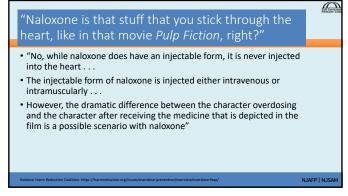
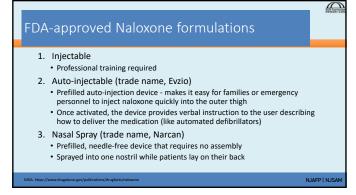


Signs and symptoms of an opioid overdose Breathing can be dangerously slowed or stopped, causing brain damage or death Important to recognize the signs and act FAST Distinguish between: Potentially life-threatening overdose vs. Modding off" (patient is almost unarousable yet breathing) oxygenation is fine) When in doubt, err on the side of caution and assume an overdose **CC: Name / Naverack agan/faugenerises/ patients/materials.** **Signs/symptoms can include: Small, constricted "pinpoint pupils" Falling asleep or loss of consciousness Slow, shallow breathing Choking or gurgling sounds Limp body Pale, blue, or cold skin

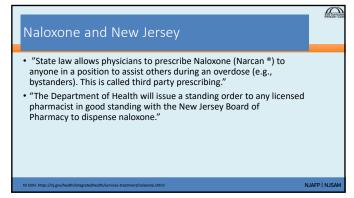






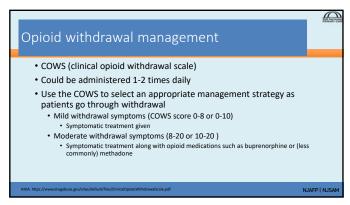
Naloxone and Pennsylvania • Act 139 (2014) provides immunity from prosecution for those responding to and reporting overdoses • "Family , friends and individuals at risk of opioid overdose can access this medication from a pharmacy by obtaining a prescription from their family doctor or by using the standing order . . . issued by Rachel Levine, M.D., Secretary of Health." • Covered by insurance and/or can get for free in most counties through organizations

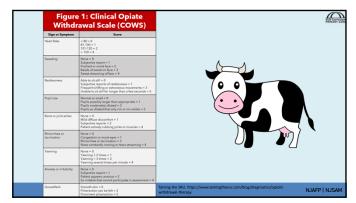
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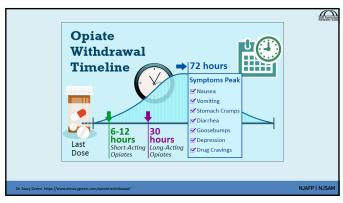


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Withdrawal management GOAL: provide medical and psychological care of patients who are experiencing withdrawal symptoms as a result of ceasing or reducing use of their drug of dependence Withdrawal symptoms vary according to the drug of dependence and severity of dependence







Symptomatic management overview • Treatment of opioid withdrawal usually involves treating the symptoms • These so-called "comfort" medications are (mostly) off-label for opioid withdrawal • Typically, these are used the first 24 hours since the last opioid dose

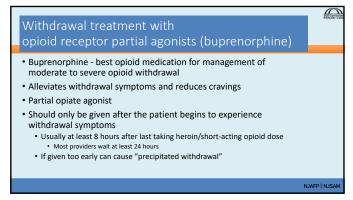
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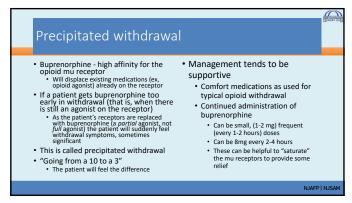
Commonly utilized comfort medications • Anti-emetics, such as promethazine • Analgesics, such as ibuprofen and/or acetaminophen • Muscle relaxers, such as cyclobenzaprine • Anti-spasmodics, such as dicyclomine • Anti-anxiety medications, such as clonidine or propranolol • Hypnotics, such as trazodone

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Clonidine Commonly used "comfort" medication Alpha-2 adrenergic agonist Can provide relief of many physical symptoms of opioid withdrawal Sweating, diarrhea, vomiting, abdominal cramps, chills, anxiety, insomnia, and tremor Can also cause drowsiness, dizziness and low blood pressure Continue to monitor blood pressure and cease clonidine if blood pressure drops below 90/50mmHg

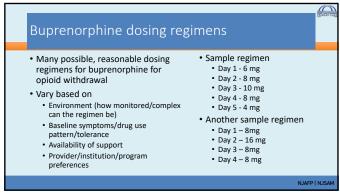
Lofexidine • Approved in 2018 for opioid withdrawal • The only FDA approved medication for opioid withdrawal • Like clonidine • Anecdotally: rarely used





Withdrawal treatment with opioid receptor agonists (methadone) • To avoid the risk of overdose in the first days of treatment, methadone can be given in divided doses • For example, give 30mg in two doses of 15mg morning and evening • Can be used for longer acting opioid withdrawal • Methadone is occasionally used, but uncommon (buprenorphine MUCH more commonly used)

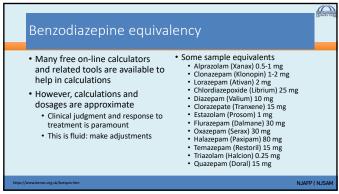
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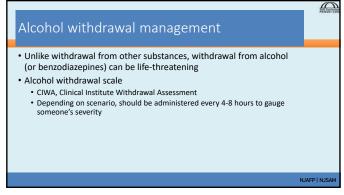


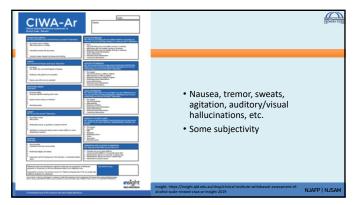
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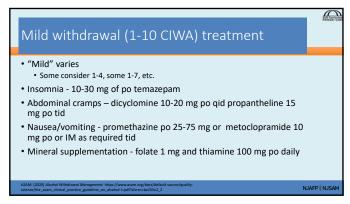
Risk of overdose after withdrawal All opioid dependent patients who have withdrawn from opioids should be advised that they are at INCREASED risk of overdose due to reduced opioid tolerance, especially if it has been some time (weeks to months) since their last use Should they use opioids again, they must use a smaller amount than usual to reduce the risk of overdose Review with patients AND families (they can closely monitor)

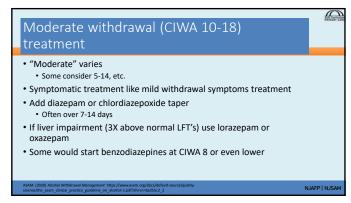
Benzodiazepine withdrawal management Unlike withdrawal from other substances, withdrawal from benzodiazepines (or alcohol) can be life-threatening First step in benzodiazepine withdrawal management Stabilize the patient on an appropriate dose of an equivalent benzodiazepine to be able to safely taper the patient Among the most used are diazepam, lorazepam, chlordiazepoxide, oxazepam

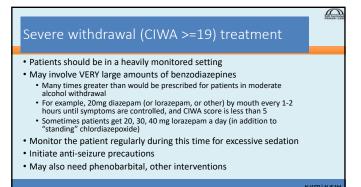


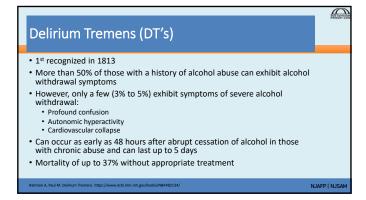












Issues To Consider in Determining Whether Inpatient or Outpatient
Detoxification Is Preferred

Ability to arrive at clinic on a daily basis	Necessary if outpatient detoxification is to be car ried out
History of previous delirium tremens or withdrawal seizures	Contraindication to outpatient detoxification: recurrence likely; specific situation may suggest that an attempt at outpatient detoxification is pos sible
No capacity for informed consent	Protective environment (inpatient) indicated
Suicidal/homicidal/psychotic condition	Protective environment (inpatient) indicated
Able/willing to follow treatment recommendations	Protective environment (inpatient) indicated if unable to follow recommendations
Co-occurring medical conditions	Unstable medical conditions such as diabetes, hypertension, or pregnancy: all relatively strong contraindications to outpatient detoxification
Supportive person to assist	Not essential but advisable for outpatient detoxification

