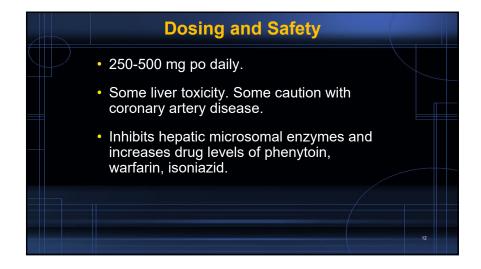


Mechanism of Action Alcohol → Acetaldehyde → Acetate Disulfiram irreversibly binds to acetaldehyde dehydrogenase inhibiting the metabolism of acetaldehyde to acetate. Acetaldehyde accumulates resulting in a violent reaction (nausea, vomiting, flushing).



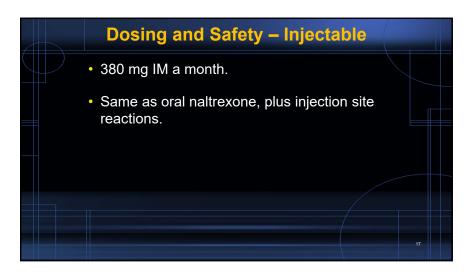




Mechanism of Action Reduces positive reinforcement (reward craving). The patient does not experience the full euphorogenic and reinforcing effect of alcohol. Prevents a slip from becoming a full-blown relapse.



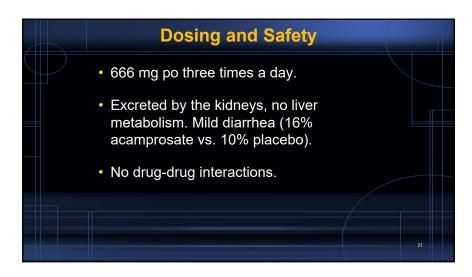


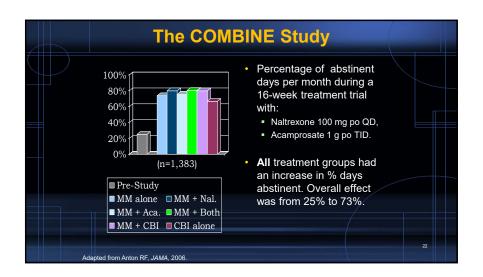


4 Acamprosate

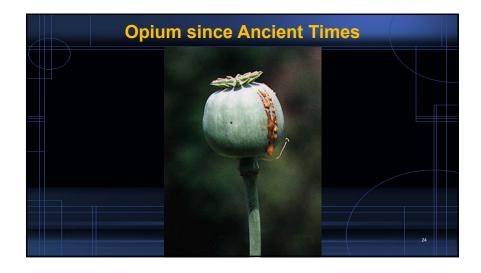
Reduces negative reinforcement (abstinence craving). Neuroadaptation and upregulation of the glutamate system in alcoholism. Acamprosate interferes with the glutamatergic system.

Improves abstinence. The US trial showed efficacy only in patients motivated for abstinence. Kranzler, American Journal of Addictions, 2008; Mason, Journal of Psychiatric Research, 2006.



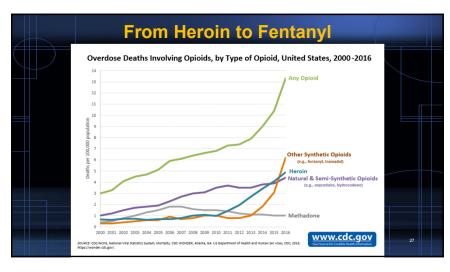






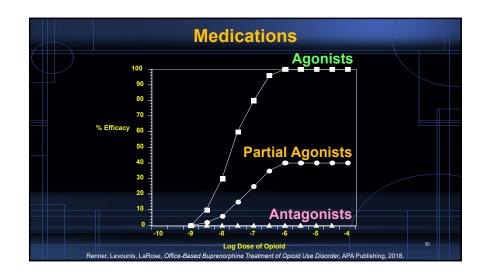




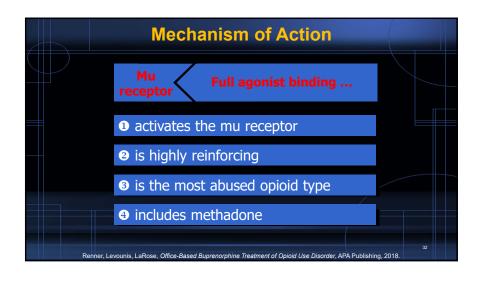








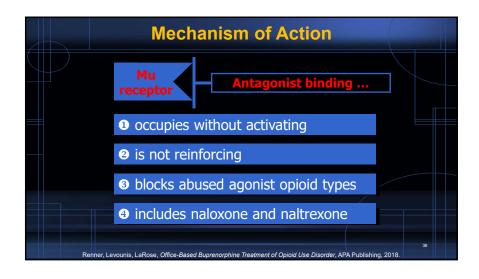








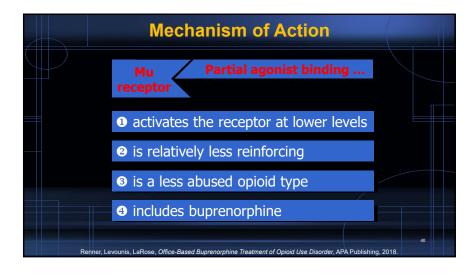






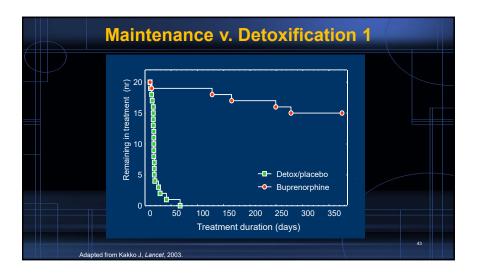


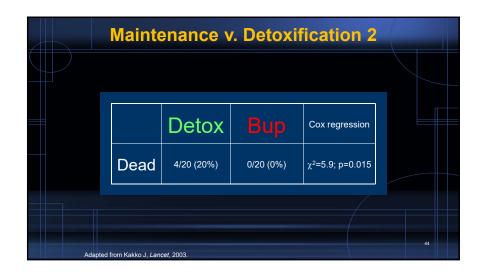






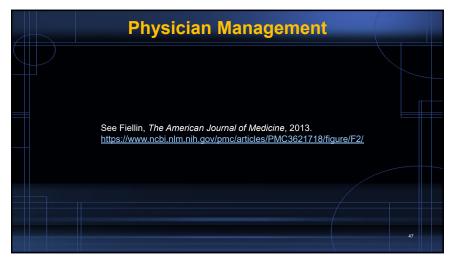
Dosing and Safety 8 - 24 mg sublingually daily. Minimal overdose risk, no QT prolongation. Sedation, nausea, constipation, decreased libido, but less severe than methadone. Partially antagonizes opioid-containing agents, but no other significant drug-drug interactions. Blanco-Gandia MC, European Journal of Pharmacology, 2018.

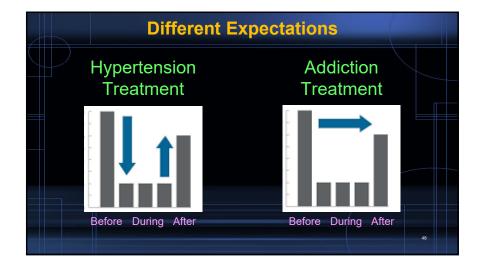














- 1. Medications for alcohol are modestly effective, but medications for opioids turn people's lives around.
- 2. Alcohol: Naltrexone is probably best for "cutting down."
- **3**. Alcohol: Acamprosate is probably best for preventing "the first drink."
- 4. Opioids: Buprenorphine maintenance is the first-line treatment of opioid use disorder.

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