



Providers
Clinical Support
System

Methadone and Buprenorphine- Associated Drug-Drug Interactions

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Housekeeping

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- PCSS-MOUD aims to increase the knowledge and skills of healthcare and counseling professionals about available evidence-based treatment approaches for substance use disorder (SUD) with a particular focus on opioid use disorder (OUD). PCSS-MOUD provides free training and mentoring to practitioners on the use of medications for OUD (MOUD) and the integration of these services into mainstream health care.

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Presenter(s)

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Dr. Iheanacho is Associate Professor of Psychiatry at Yale University, and board certified in general adult psychiatry and addiction psychiatry. His research, academic, and clinical work focus on increasing access to evidence-based addiction and mental health interventions for underserved populations and in resource limited settings.

Disclosure to Learners

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Presenter(s), planner(s), reviewer(s), and all others involved in the planning or content development of this activity were required to disclose all financial relationships within the past 24 months

All disclosures have been reviewed, and there are no relevant financial relationships with ineligible companies to disclose.

All speakers have been advised that any recommendations involving clinical medicine must be based on evidence that is accepted within the profession of medicine as adequate justification for their indications and contraindications in patient care. All scientific research referred to, reported, or used in the presentation must conform to the generally accepted standards of experimental design, data collection, and analysis.

Educational Objectives

At the conclusion of this activity participants should be able to:

- 1 Identify major clinically relevant drug-drug interactions between opioids and other medications
- 2 Review possible explanations for drug-drug interactions
- 3 Explain the physiological and pharmacokinetic mechanisms underlying adverse drug interactions
- 4 Develop strategies for reducing risk of drug-drug interactions within the clinical setting

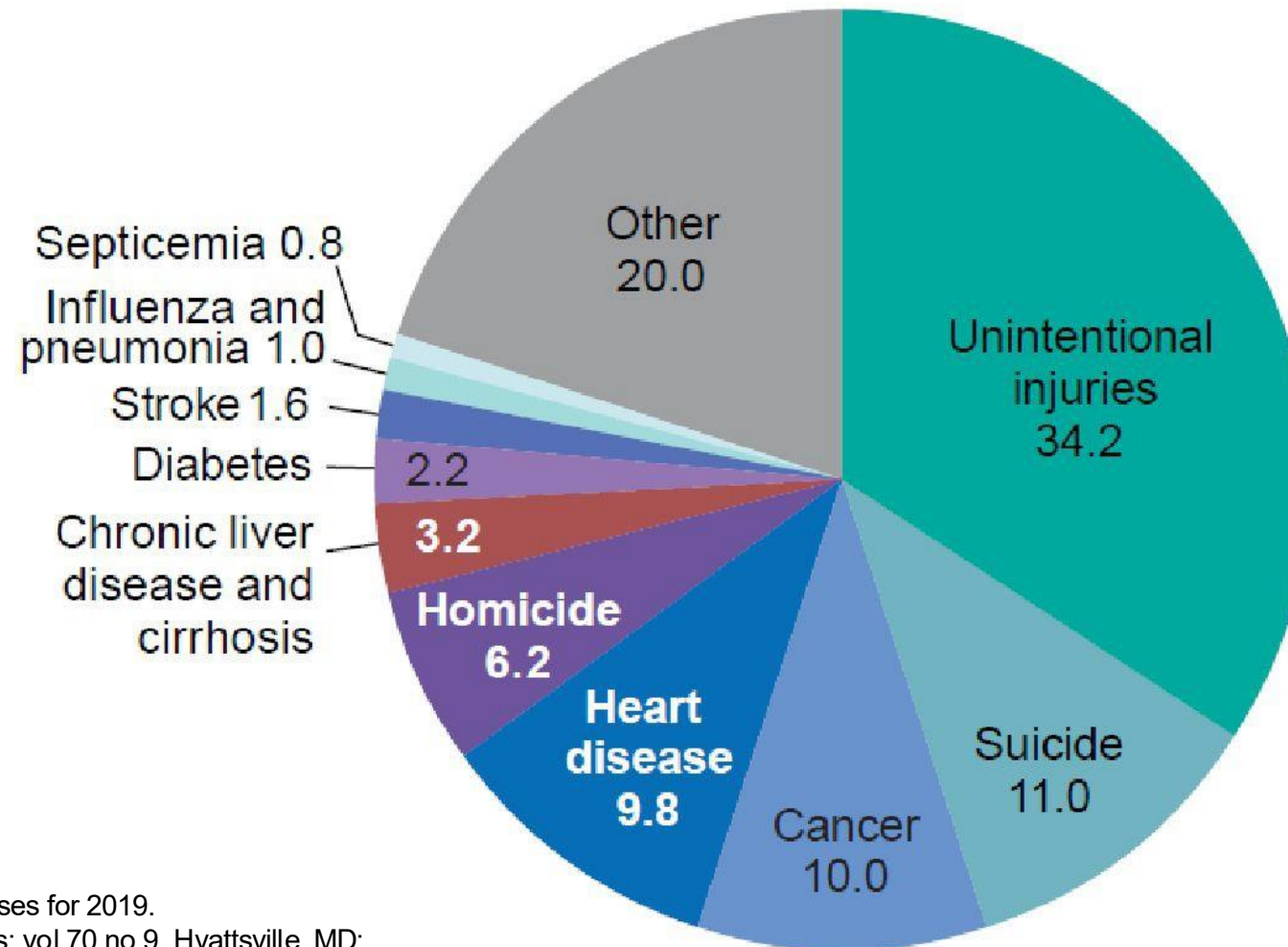
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Opioid Overdose Trends

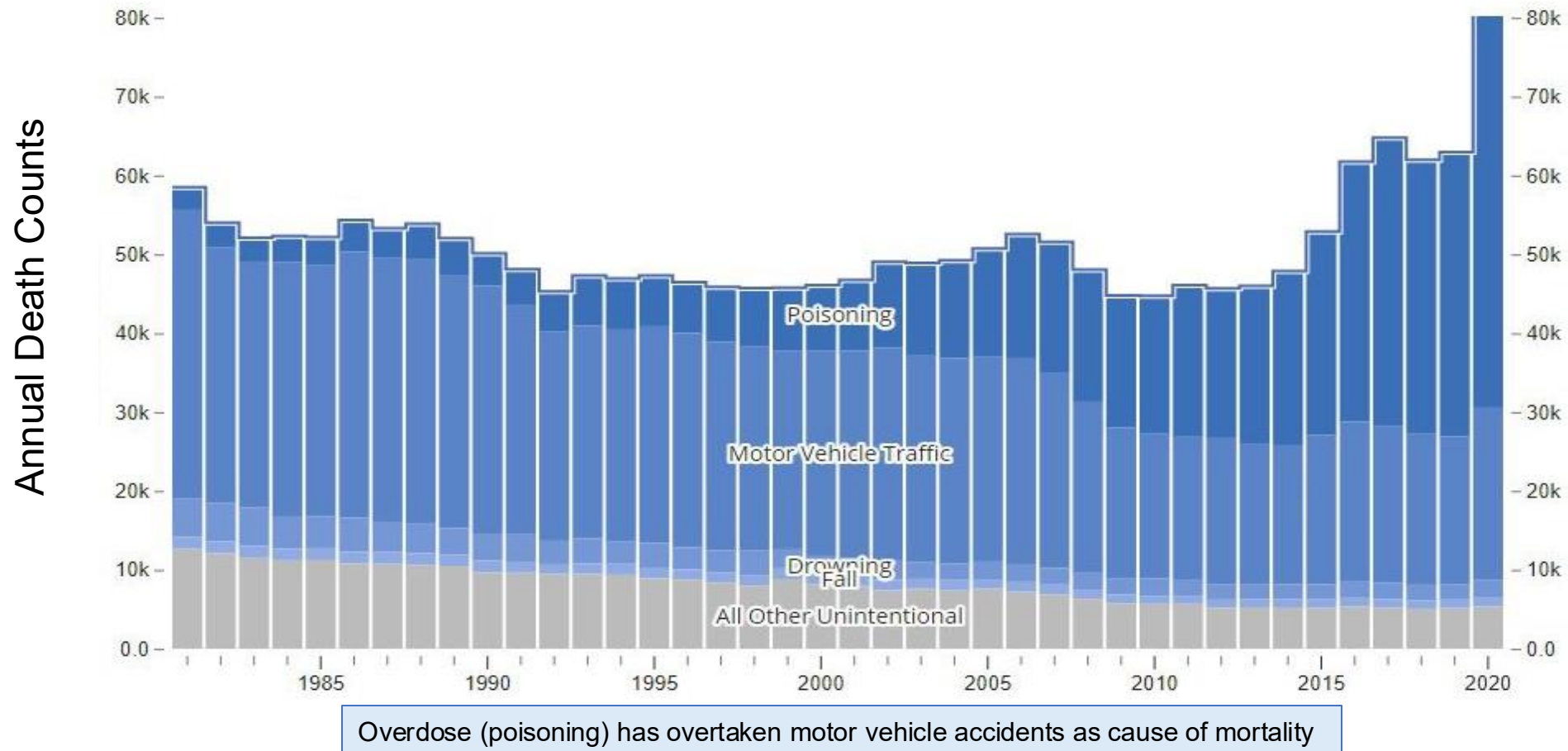


Leading Causes of Death

Ages 25–44

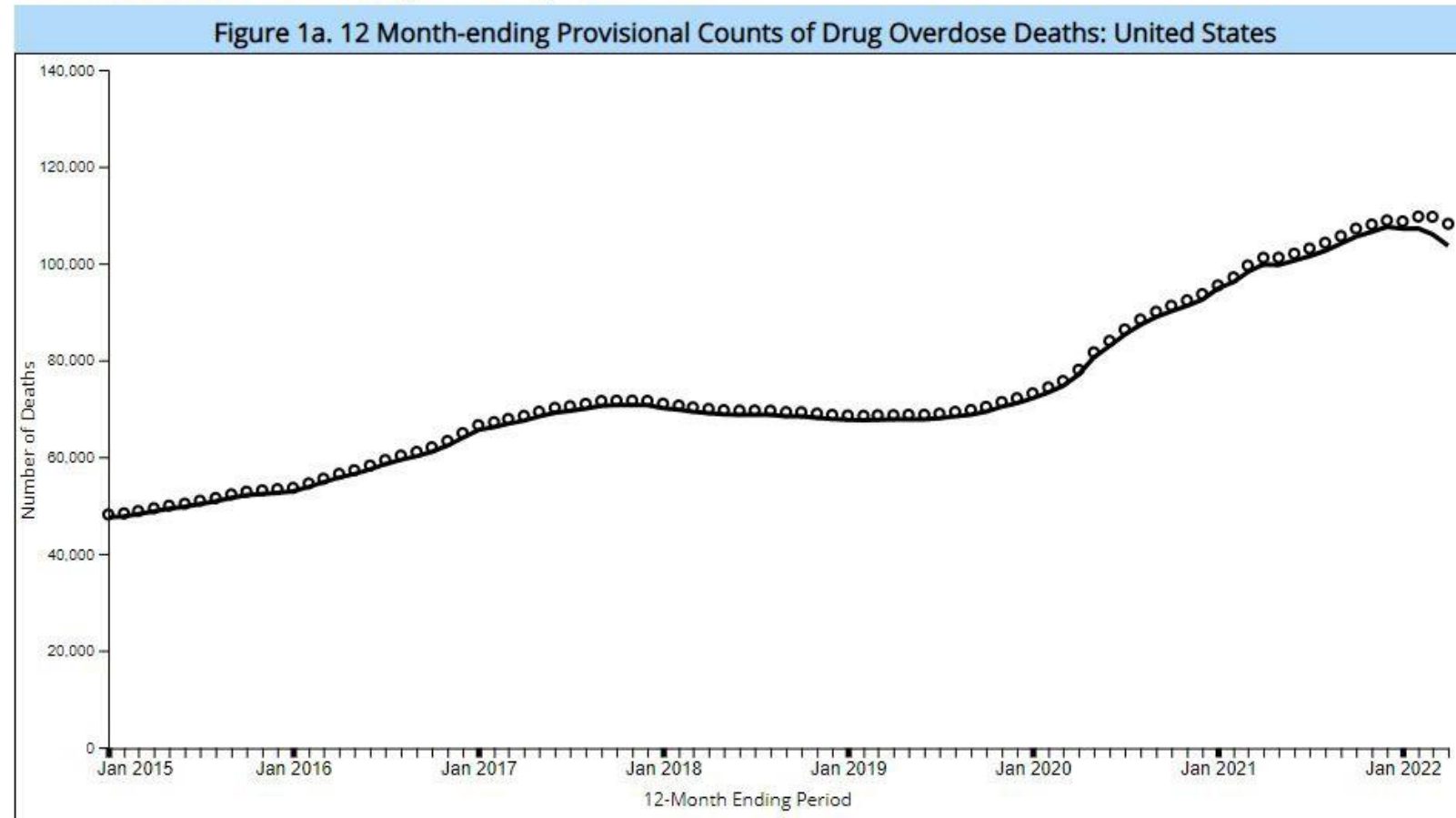


Subtypes of Unintentional Injuries



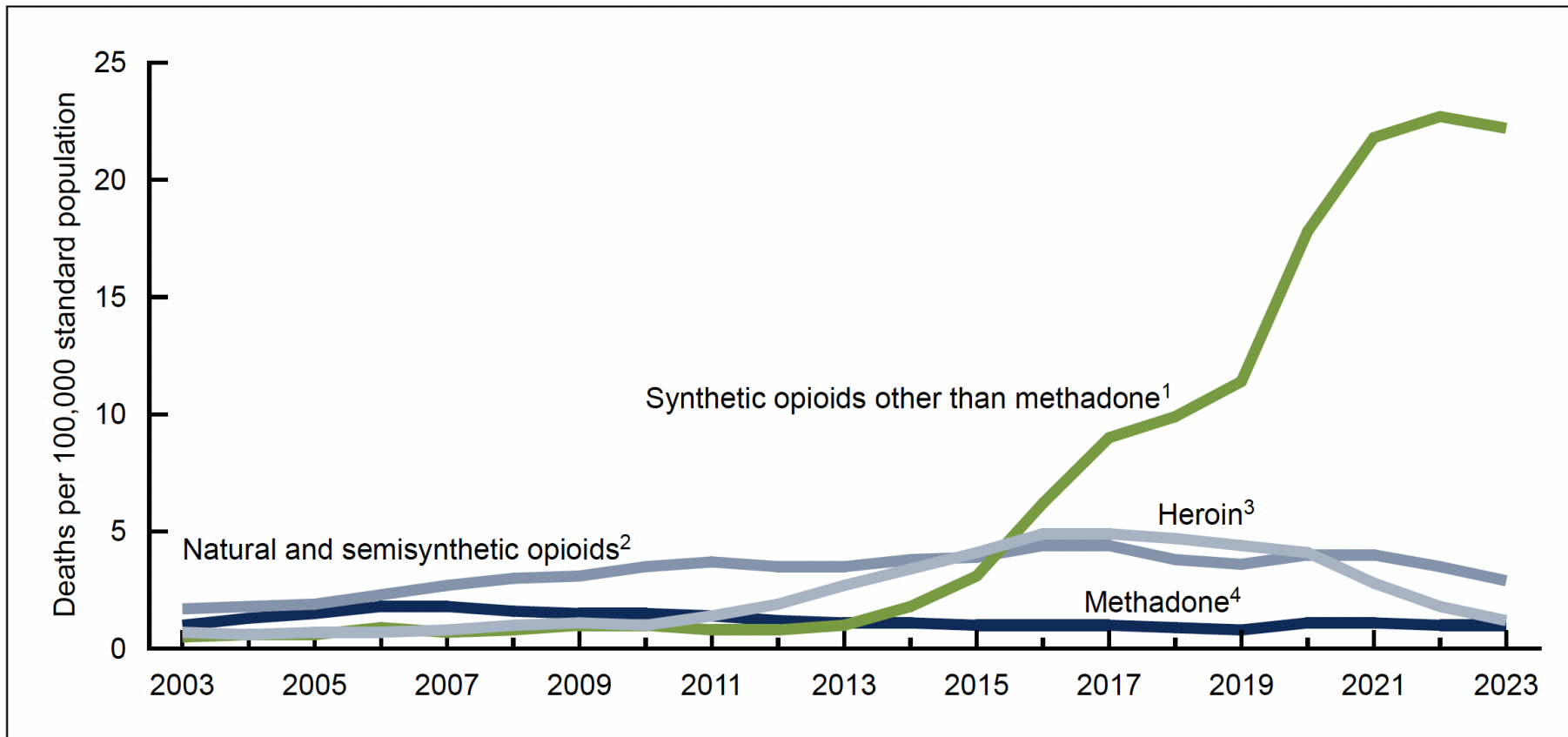
Drug Poisoning Deaths - U.S.

Based on data available for analysis on: September 04, 2022



Subtypes of Opioid Overdose Deaths

Figure 4. Age-adjusted rate of drug overdose deaths involving opioids, by type of opioid: United States, 2003–2023

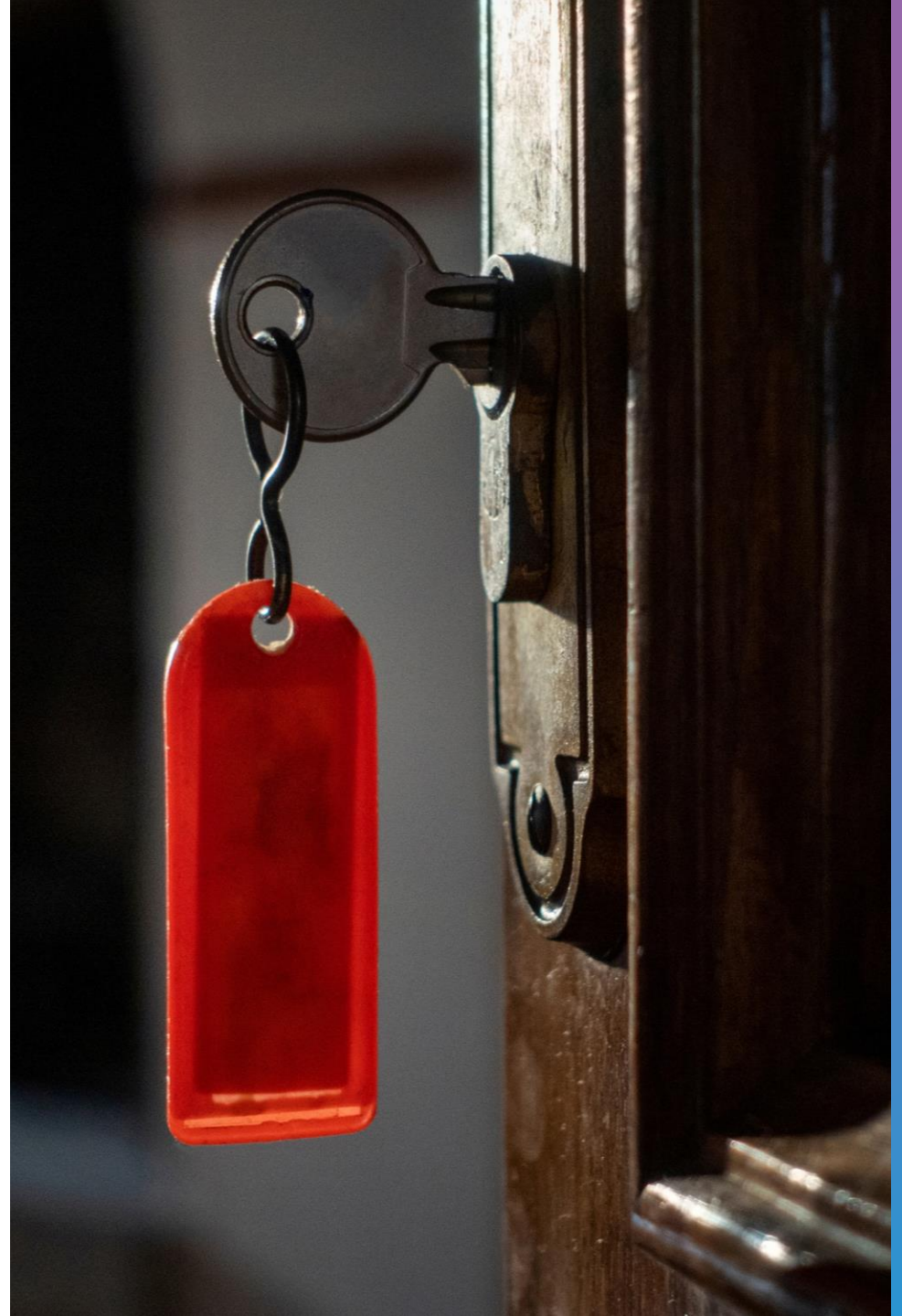


Synthetic opioids are the leading cause of opioid-related deaths

Knowledge Check

Which of the following is a key objective of this training?

- A. Increase opioid prescribing rates
- B. Identify clinically relevant drug–drug interactions
- C. Reduce use of medications for OUD
- D. Avoid patient education

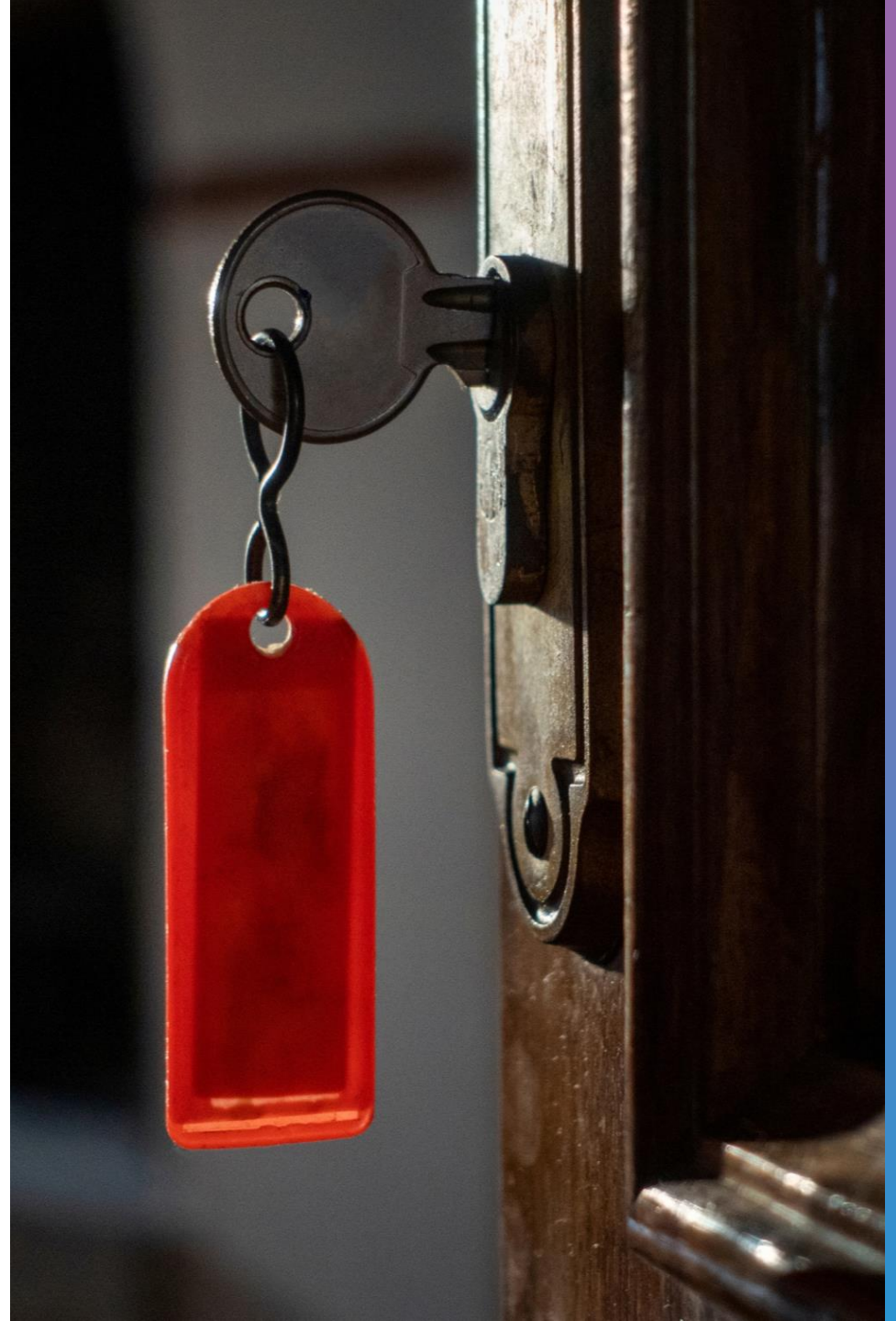


Correct Answer: B

Identify clinically relevant drug–drug interactions

Our focus in this course is understanding and managing potential drug-drug interactions that impact patients.

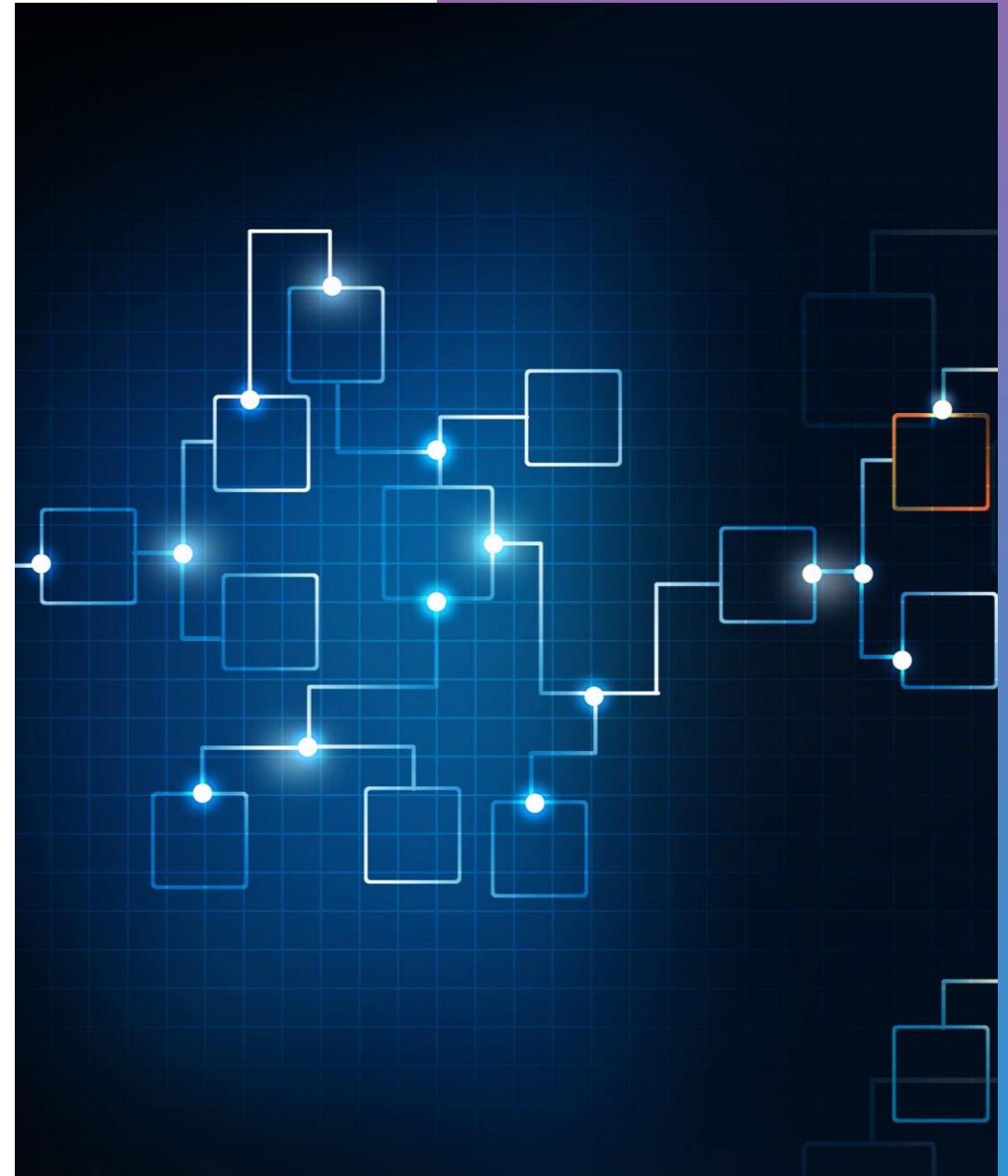
There is need to increase appropriate utilization of MOUDs and to minimize excess short term opioid prescription.



■ 2

Clinically Relevant Drug-Drug Interactions

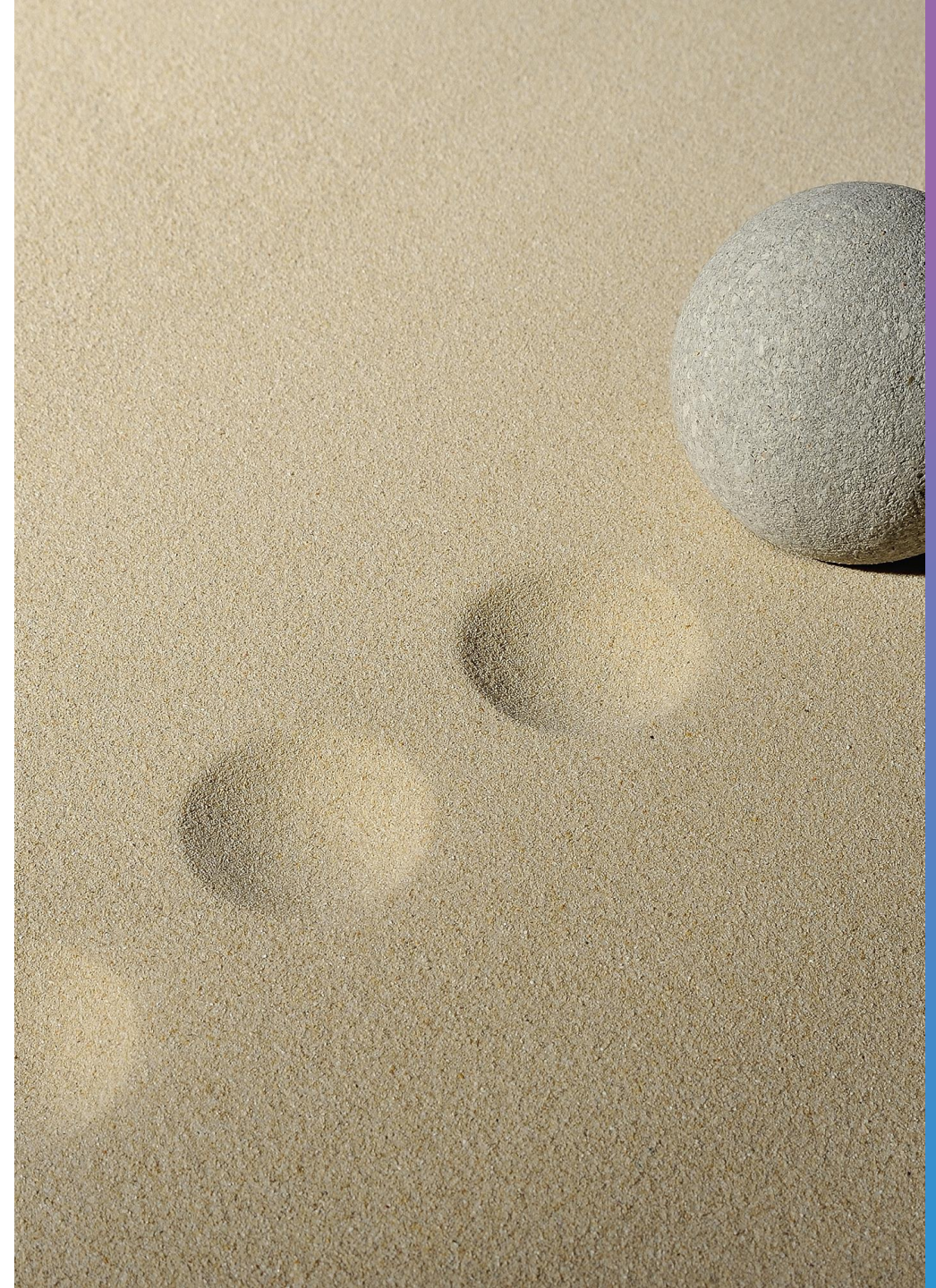
Between opioids and other
medications



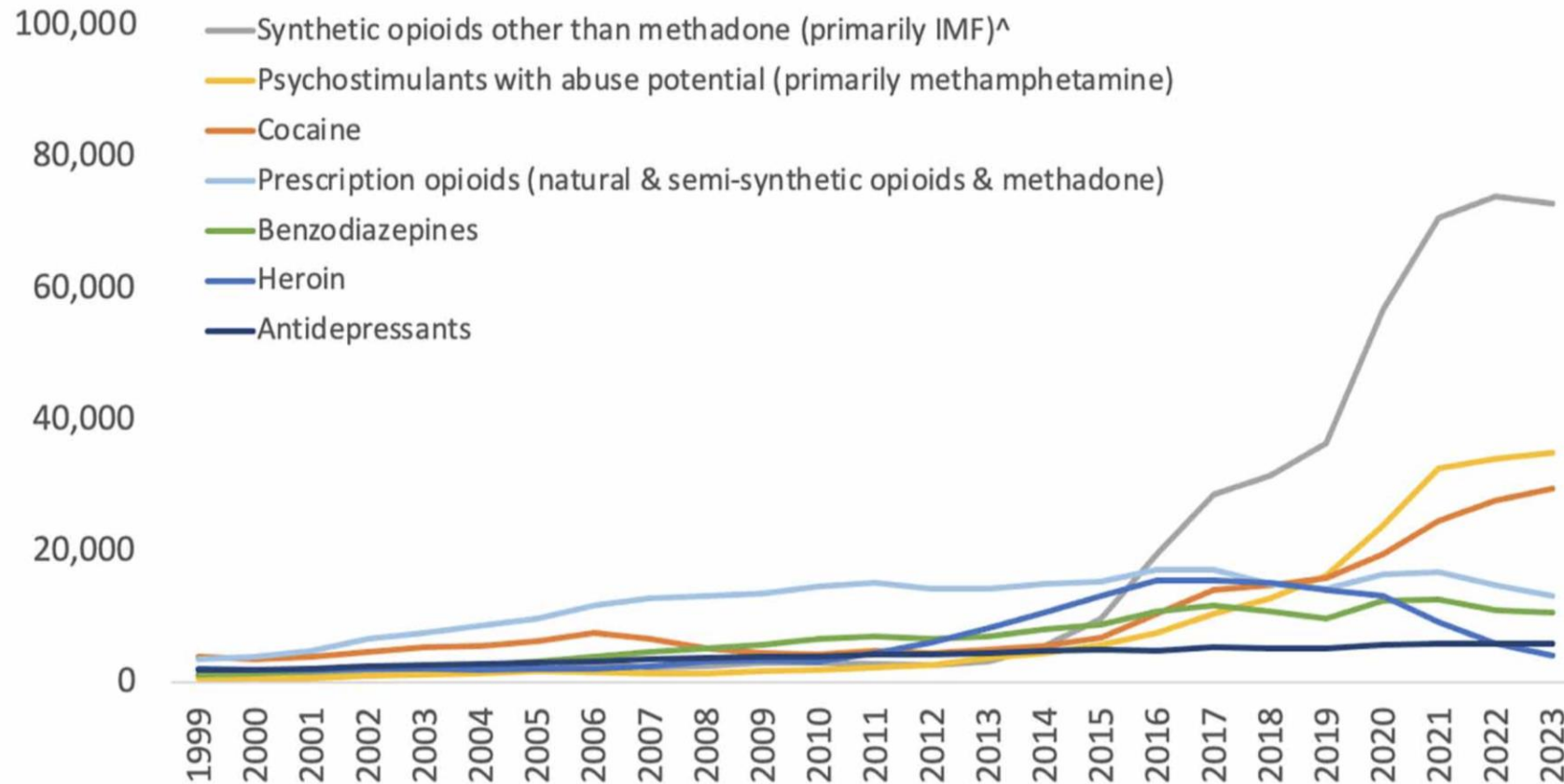
Adverse Drug Interactions

Severe (often fatal) adverse drug interactions involving opioids include:

- Overdose (accidental/intentional)
- Combining with other drugs (e.g., fentanyl, heroin, methamphetamines)
- Combining with other prescribed medications (e.g., Methadone, opioid analgesics, benzodiazepines)
- Combining with alcohol



Select Drugs or Drug Categories, 1999-2023



Synthetic opioids are the leading cause of opioid-related deaths

Methadone-Associated Adverse Effects

Semi-Bayes shrunk adjusted rate ratio of adverse effects with methadone	
Precipitant	Methadone
Overdose	
Gabapentin	1.41 (1.01–1.95)
Pregabalin	1.87 (1.13–3.10)
Baclofen	2.42 (1.46–3.99)
Diazepam	2.15 (1.27–3.65)
Alprazolam	1.70 (1.07–2.71)
Ondansetron	1.91 (1.12–3.25)
Simvastatin	1.96 (1.07, 3.59)
Temazepam	2.12 (1.06, 4.23)
Quetiapine	1.94 (1.07, 3.50)
Non-overdose adverse drug events	
Lorazepam	2.27 (1.05, 4.91)
Cardiac arrest	
Carvedilol	2.43 (1.11–5.32)



Buprenorphine-Associated Adverse Effects

Semi-Bayes shrunk adjusted rate ratio	
Precipitant	Buprenorphine
Overdose	
Gabapentin	2.17 (1.09–4.31)
Clonidine	2.32 (1.06–5.07)
Acetaminophen	1.96 (1.06, 3.60)
Oxycodone	1.94 (1.02–3.67)
Morphine	3.18 (1.03, 9.77)
Non-overdose adverse drug events	
None	—
Cardiac arrest	
None	—



Reasons for Multiple Medications



Legacy patients continue to receive opioid analgesics for pain



Many with pain have co-occurring medical and/or mental disorders



Patients believe prescribed drugs are 'safe'



Lack of awareness about adverse events that can occur with multiple medications



May not understand need to take as prescribed (time of day, frequency, quantity)



Sharing medications with other patients or selling/buying to/from other patients

Knowledge Check

Which combination increases overdose risk?

- A. Opioids + Benzodiazepines
- B. Opioids + Antihistamines (non-sedating)
- C. Buprenorphine alone
- D. Methadone with monitoring



Correct Answer: A ***Opioids + Benzodiazepines***

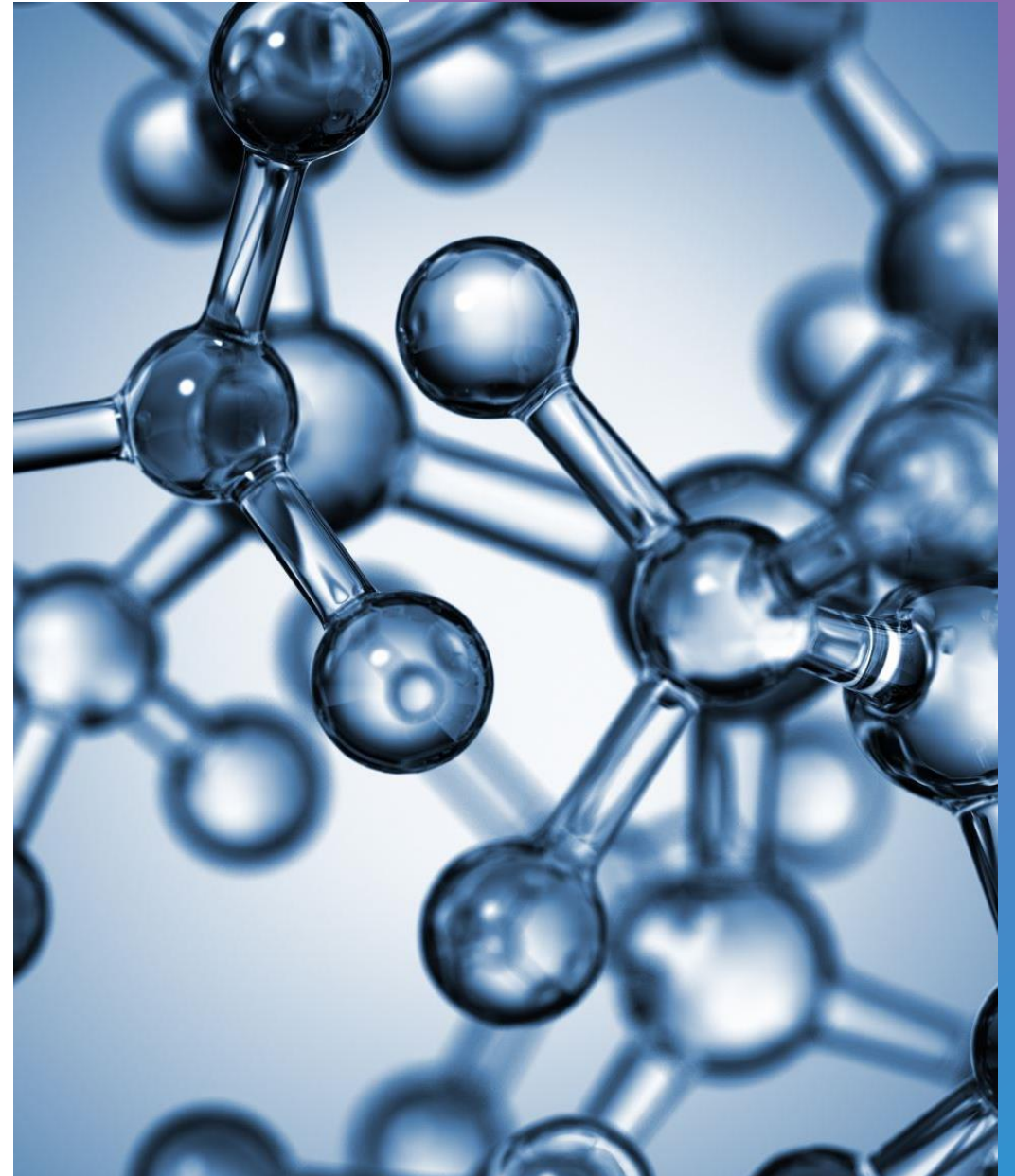
Opioids and Benzodiazepines can both depress the respiratory system, so using them in combination can pose higher risk of overdose death.



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The Basis for Adverse Drug Interactions

Physiological and pharmacokinetic



Pathophysiology of Drug-Drug Interactions



Pharmacokinetic

What the body does to the drug (or not)

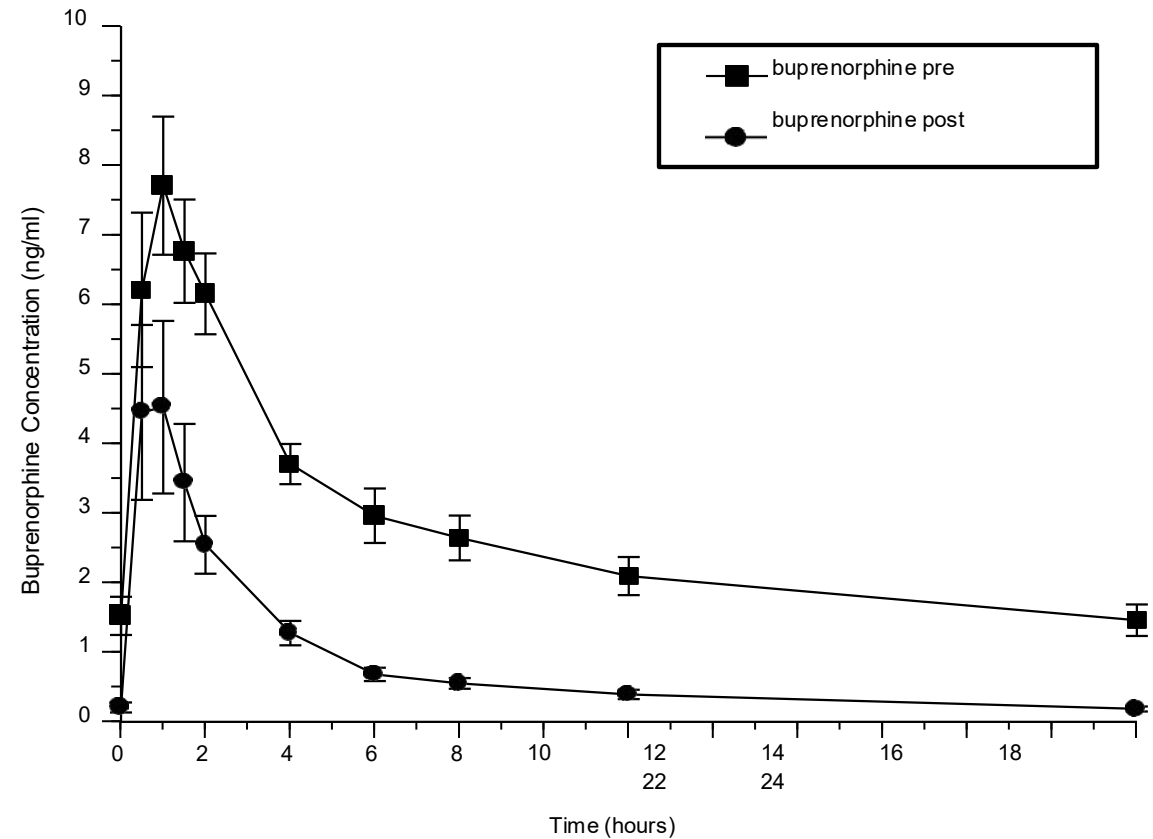


Pharmacodynamic

What the drug or drugs do to the body

Pharmacokinetic Interactions

- ▶ Drug (in presence of other drugs)
 - May be better absorbed (e.g., slowed GI motility)
 - Altered efflux (P-glycoprotein effects)
- ▶ Inhibition or induction of metabolism; CYP enzymes or glucuronidation effects
- ▶ Net increase in exposure to drug(s) or reduction to the point of inducing physical withdrawal, including:
 - Ciprofloxacin inhibition of methadone metabolism
 - Rifampin induction of buprenorphine metabolism



Hagelberg, Nora M., et al. "Rifampicin decreases exposure to sublingual buprenorphine in healthy subjects." *Pharmacology Research & Perspectives* 4.6 (2016)

Alinejad, S., Kazemi, T., Zamani, N., Hoffman, R. S., & Mehrpour, O. (2015). A systematic review of the cardiotoxicity of methadone

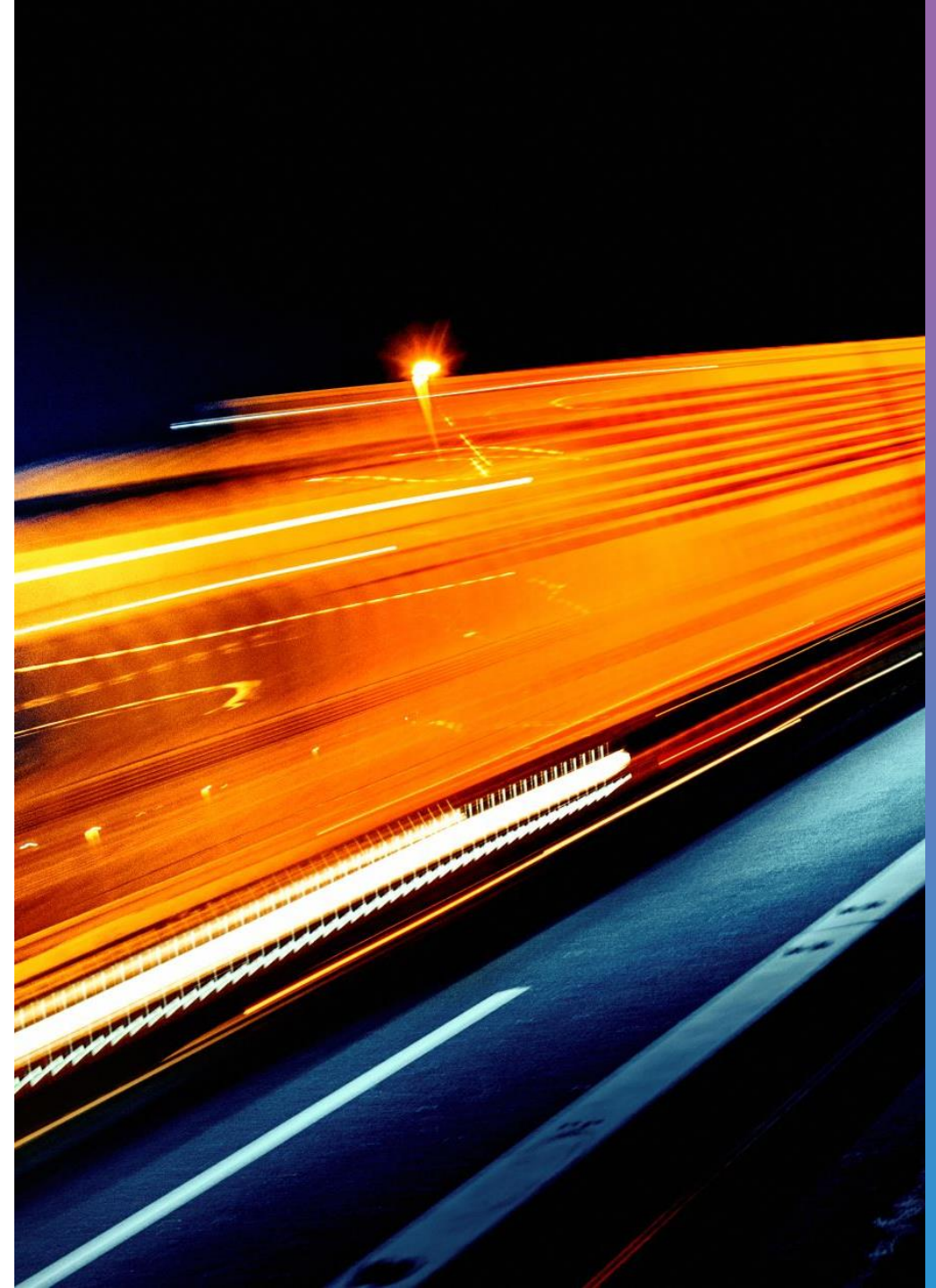
Pharmacodynamic Interactions

- ▶ PK interactions may have associated pharmacodynamic consequences
- ▶ Pharmacodynamic interactions can occur in the absence of a PK interaction
- ▶ Two drugs with similar pharmacological characteristics interact synergistically
- ▶ Increases potential toxicity of drug
- ▶ Opioids and benzodiazepines (e.g., alprazolam with methadone)
- ▶ Opioids and alcohol

Knowledge Check

Pharmacokinetic interactions refer to:

- A. What drugs do to receptors
- B. What the body does to a drug
- C. Patient beliefs about medications
- D. Only behavioral effects

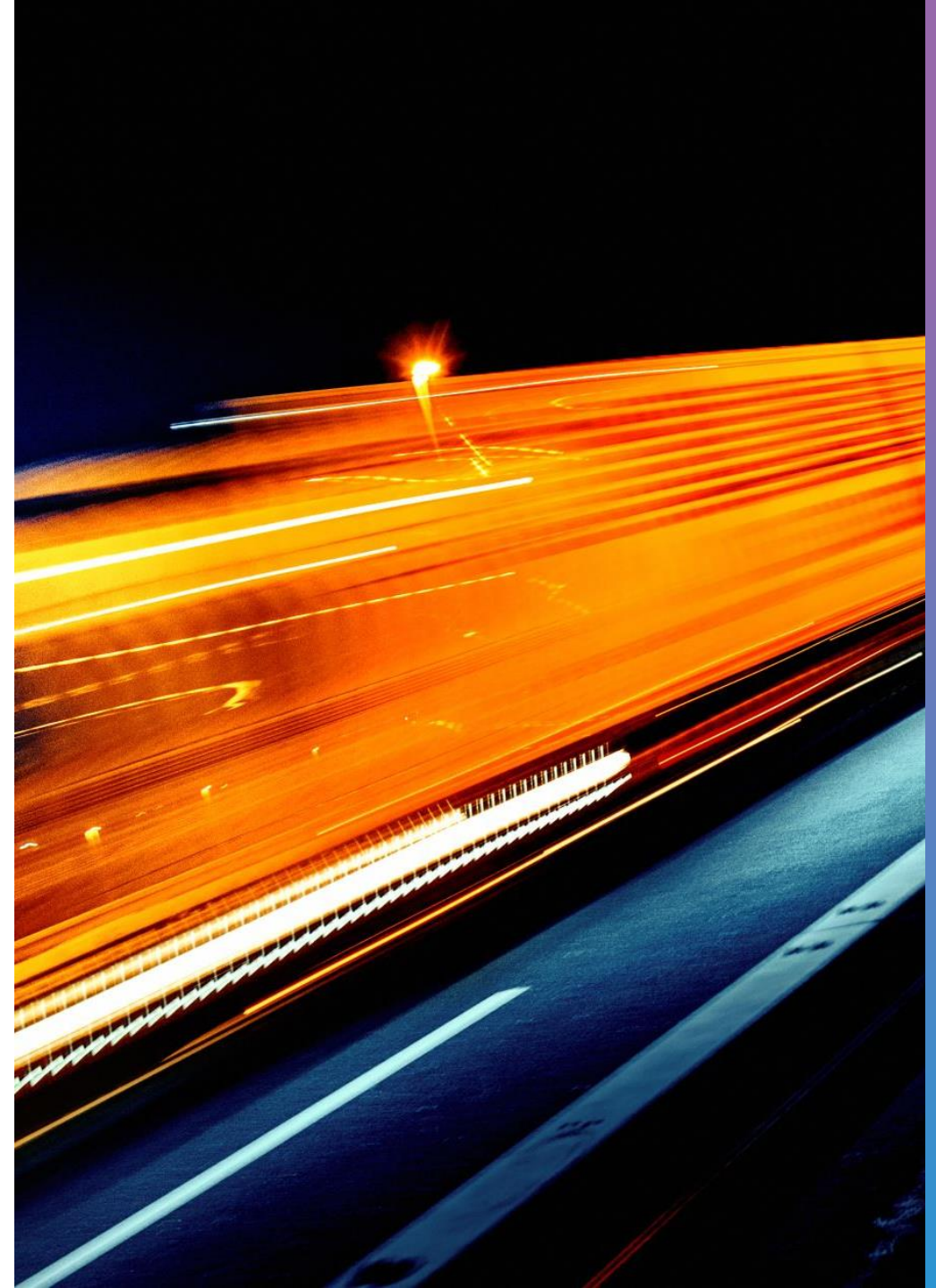


Correct Answer: B

What the body does to the drug

Pharmacokinetics is what the body does to the drugs.

Drug effects on the body is **pharmacodynamics**



Opioids and Other Drugs: Basis of Adverse Events

- ▶ Methadone metabolized by CYP 3A4, 2D6, 2B6, 2C9/10 buprenorphine metabolized by mainly 3A4
- ▶ Some SSRIs and some antipsychotics can inhibit metabolic enzymes
- ▶ May lead to increased plasma concentrations of drugs and associated toxicities
 - Fluoxetine and fluvoxamine inhibit both 3A4 and 2D6
 - Paroxetine, sertraline, citalopram, and escitalopram only inhibit CYP2D6

Opioids and Other Drugs: Basis of Adverse Events

- ▶ Methadone linked to blockade of hERG potassium channels that has been reported to increase risk for arrhythmia (Torsade de Pointes)
- ▶ As methadone concentrations rise, risk of adverse events increases
- ▶ High dose (> 100 mg/d methadone)
- ▶ Drug interactions that increase methadone exposure through inhibition of methadone metabolism
- ▶ Drug interactions that occur when an inducing drug is given; methadone dose increased to maintain efficacy; then the drug is withdrawn and methadone was not concomitantly reduced

Avoiding Adverse Interactions

- ▶ Think about **metabolic interactions**
- ▶ Provide clear **psychoeducation to patients/families** about potential toxicities: cognitive impairment, increased sedation, slowed, loud breathing
- ▶ If concomitant medications are needed, **try to use medications less likely to impair opioid metabolism**
 - Methadone: venlafaxine, SSRIs excluding fluoxetine/fluvoxamine
 - Buprenorphine: mainly 3A4 substrate; avoid fluoxetine/fluvoxamine
- ▶ **Buprenorphine may be preferable to methadone** in those needing other medications because there are fewer expected interactions, adverse events, or overdoses



Potential Methadone Drug-Drug Interactions

Class or Specific Drug	Interaction	Putative Mechanism	Notes
Antiretrovirals			
Efavirenz, Lopinavir, Nevirapine	Reduction in serum methadone levels	Induction of CYP 450 3A4 Induction of CYP 450 2C9/10 (Elvitegravir)	Clinically significant opioid withdrawal symptoms likely
Elvitegravir			
Abacavir, Etravirine, Nelfinavir	May reduce serum methadone levels	Induction of CYP 450 3A4	Clinically pertinent opioid withdrawal symptoms usually not seen with these agents
Squinavir			
Tipranavir			
Didanosine, Stavudine	Reduction in didanosine, stavudine plasma concentration	Decreased bioavailability	Possible decreased efficacy of didanosine, stavudine
Zidovudine	Increase in zidovudine plasma concentration	Unknown	Risk of zidovudine toxicity
Delavirdine	Increased methadone serum concentration	Inhibition of CYP 450 3A4	No clinically meaningful adverse events observed

Potential Methadone Drug-Drug Interactions

Class or Specific Drug	Interaction	Putative Mechanism	Notes
Antiretrovirals			
Darunavir	Increased methadone serum concentration	Inhibition of CYP 450 3A4	Clinical impact uncertain. Monitor closely.
Rilpiravine, Maraviroc	Potential risk of Torsade de Pointes (cardiac arrhythmia)	QT Prolongation	Could be additive with methadone; monitor closely
Antivirals			
Nirmatrelvir/ Ritonovir (Paxlovid)	Possible decreased methadone serum concentration	Ritonovir inhibits CYP 450 3A4 but induces CYP 450 2B6. Nirmatrelvir substrate of 3A4, uncertain if inducer or inhibitor	Clinically significant opioid withdrawal symptoms possible

Potential Methadone Drug-Drug Interactions

Class or Specific Drug	Interaction	Putative Mechanism	Notes
Antidepressants			
Tricyclics: amitriptyline, clomipramine, desipramine, doxepin, imipramine, nortriptyline, protriptyline, trimipramine	Increases risk for constipation and sedation. Increases risk for QT prolongation and arrhythmia	Anticholinergic effects. Blockade of hERG channel.	Clinical experience with combination indicates it is generally safe with careful clinical monitoring.
Serotonin reuptake inhibitors: citalopram, escitalopram, fluvoxamine, fluoxetine, paroxetine, sertraline	May increase serum methadone levels. Increased risk for serotonin syndrome	Inhibition of CYP 450 3A4, 2D6. Blockade of serotonin transporter.	Clinical experience with combination indicates it is generally safe with careful clinical monitoring.

Potential Methadone Drug-Drug Interactions

Class or Specific Drug	Interaction	Putative Mechanism	Notes
Antidepressants			
Monoamine oxidase inhibitors: Isocarboxazid, phenelzine, selegiline, tranylcypromine	Increased risk for serotonin syndrome.	Inhibition of serotonin metabolism.	Use with extreme caution and careful clinical monitoring.
Serotonin/norepinephrine reuptake inhibitors: Duloxetine, desvenlafaxine, venlafaxine	Increased risk for serotonin syndrome. Increases risk for QT prolongation and arrhythmia (venlafaxine)	Blockade of serotonin transporter. Blockade of hERG channel (venlafaxine).	Clinical experience with combination indicates it is generally safe with careful clinical monitoring.

Potential Methadone Drug-Drug Interactions

Class or Specific Drug	Interaction	Putative Mechanism	Notes
Antibiotics			
Ciprofloxacin, clarithromycin, erythromycin, azithromycin	May increase methadone serum levels. Increases risk for QT prolongation and arrhythmia	Inhibition of CYP 450 3A4. Blockade of hERG channel	One case report of sedation (ciprofloxacin). Clinical monitoring required.
Rifampin	Reduction serum methadone levels	Induction of CYP 450 3A4	Severe opioid withdrawal can occur. Will need increased methadone dose. Or switch antibiotics (e.g. rifabutine)
Antifungals			
Ketoconazole, fluconazole voriconazole	May increase methadone serum levels.	Inhibition of CYP 450 3A4	Little evidence for important clinical effects

Potential Methadone Drug-Drug Interactions

Class or Specific Drug	Interaction	Putative Mechanism	Notes
Anticonvulsants			
Carbamazepine, phenytoin	Reduction in serum methadone levels	Induction of CYP 450 3A4	Severe opioid withdrawal can occur. Will need increased methadone dose.
Antiarrhythmics			
Procainamide, quinidine	Increases risk for QT prolongation and arrhythmia	Blockade of hERG channel	Careful clinical monitoring required
Amiodarone	May increase methadone serum levels. Increases risk for QT prolongation and arrhythmia	Inhibition of CYP 450 3A4. Blockade of hERG channel	Careful clinical monitoring required

Potential Methadone Drug-Drug Interactions

Class or Specific Drug	Interaction	Putative Mechanism	Notes
Benzodiazepines	Additive CNS and respiratory depressant effects	Increased GABA activity	Careful clinical monitoring required
Barbiturates	Additive CNS and respiratory depressant effects	Increased GABA activity	Careful clinical monitoring required
Quetiapine	May increase methadone serum levels	Inhibition of CYP 450 2D6	Careful clinical monitoring required
Cimetidine	May increase methadone serum levels.	Inhibition of CYP 450 3A4	No evidence major clinical effect
Naltrexone	Precipitated opioid withdrawal	Displaces methadone from μ -opioid receptors	contraindicated

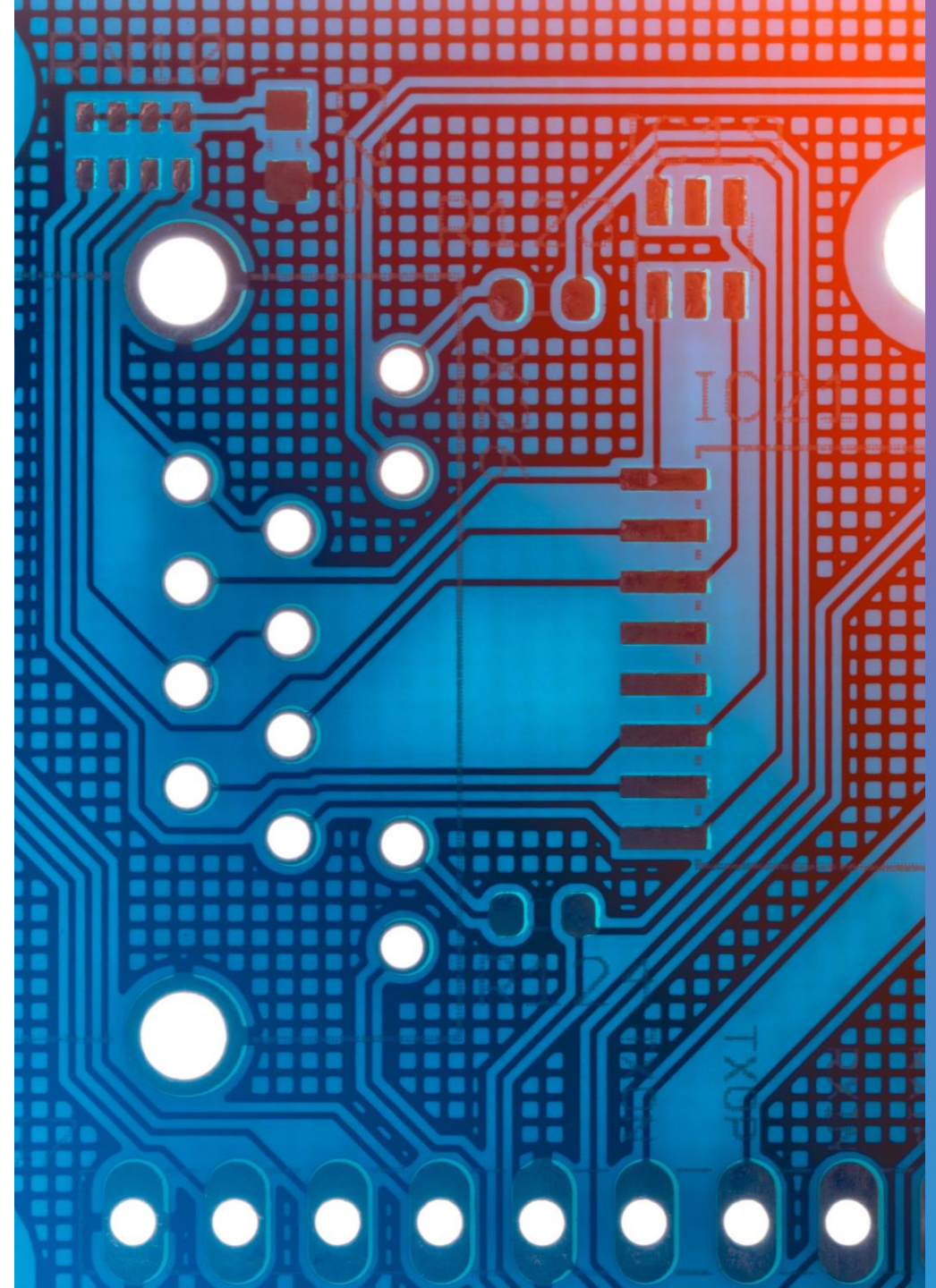
Potential Methadone Drug-Drug Interactions

Class or Specific Drug	Interaction	Putative Mechanism	Notes
Cannabidiol	May increase serum methadone levels	Cannabidiol inhibits CYP3A4 and CYP2C19	Observe for possible methadone toxicity

Knowledge Check

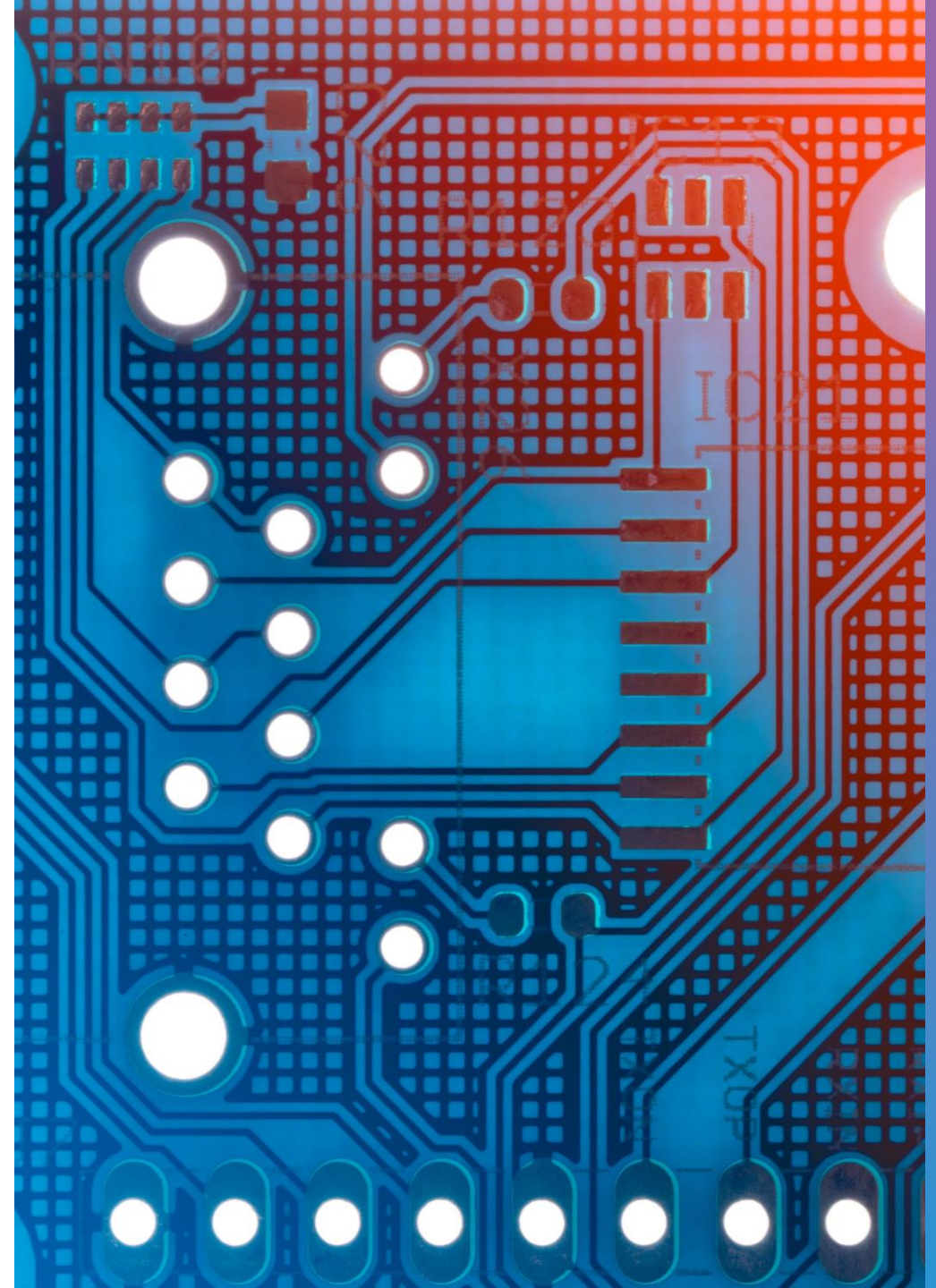
Methadone metabolism primarily involves which enzyme system?

- A. CYP3A4 and related CYP enzymes
- B. Renal filtration only
- C. Monoamine oxidase
- D. None of the above



Correct Answer: A
CYP3A4 and related CYP enzymes

The CYP liver enzymes metabolize methadone and many other medications, leading to clinically relevant interactions especially in the presence of liver enzymes inducers or inhibitors.



Potential Buprenorphine Drug-Drug Interactions

- ▶ Buprenorphine not as susceptible as methadone to drug-drug interactions
 - Tighter binding to receptor may make blood levels less important
 - Has an active metabolite, nor-buprenorphine
 - Partial agonist effect may mitigate some pharmacodynamic interactions, reduce risk from elevated blood levels and thus reduce overdose risk
 - Does not prolong QT interval on ECG

Potential Buprenorphine Drug-Drug Interactions

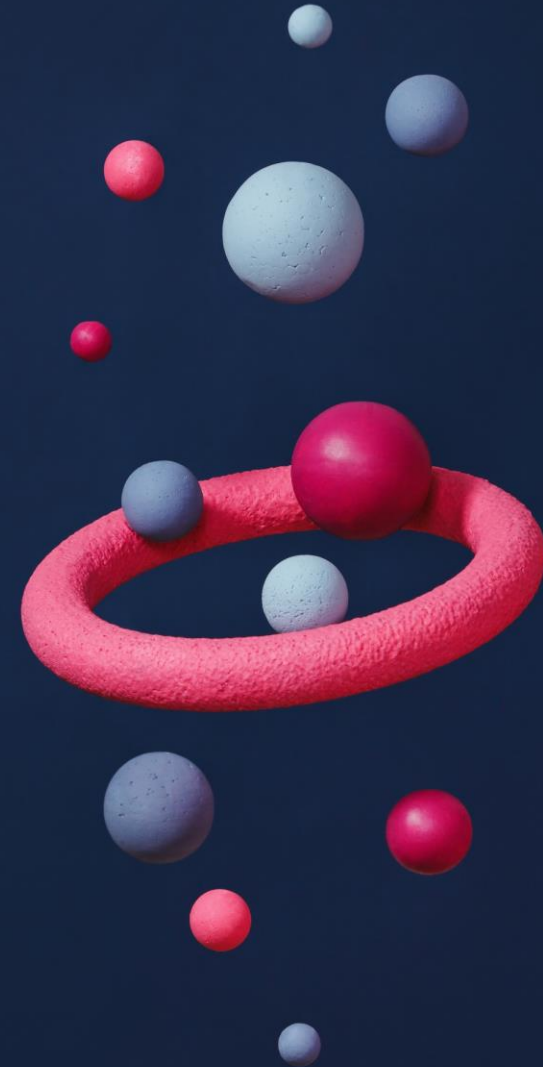
However, the following interactions are notable (mechanisms similar to those for methadone):

- ▶ Delavirdine, Darunavir, Atazanavir
 - Atazanavir does not appear to increase methadone levels
- ▶ Rifampin
- ▶ Benzodiazepines
- ▶ Voriconazole (may increase buprenorphine plasma levels through CYP 450 3A4 inhibition)
- ▶ Cannabis (may increase buprenorphine plasma levels through CYP 450 3A4 inhibition)

Knowledge Check

Why may buprenorphine have fewer drug–drug interactions?

- A. Partial agonist effect
- B. Strong receptor binding
- C. Less QT prolongation risk
- D. All of the above



Correct Answer: D *All of the above*

All of the listed explanations are characteristics of buprenorphine that reduce the extent of its drug-drug interactions



Hep C Direct Acting Antivirals

show no clinically meaningful interaction with
methadone or buprenorphine

■ 4

Strategies for Reducing Risk



Strategies for Reducing Risk of Drug-Drug Interactions

Training Physicians, APRNs, PAs, and Pharmacists

- Non-opioid strategies to effectively control pain
- Safe prescribing practices
- Avoid polypharmacy whenever possible
- Clear communication/ psychoeducation to patients

Public outreach and education

Sharing important information:

- how medications interact, including basic pharmacology of opioids
- not medication sharing
- safely disposing of medications (should be available at no charge to patients!)

Leveraging PCSS-MOUD

- Use of Providers Clinical Support System-Medications for Opioid Use Disorders resources

Team-Based Strategies to Address Risks Associated with Poly-Pharmacy

Challenges Patients May Experience	Strategies for Nurses and Other Clinicians
Legacy patients continue to receive opioid analgesics for pain	<i>Complete medication reconciliation at each visit, including over the counter medications</i>
Many with pain have co-occurring medical and/or mental disorders	<i>Complete care coordination, obtain collateral info from primary care team/other specialists</i>
Patients believe prescribed drugs are 'safe'	<i>Provide brief psychoeducation at each visit, reviewing drug safety profiles</i>
Lack of awareness about adverse events that can occur with multiple medications	<i>Provide brief psychoeducation at each visit including common/serious side effects</i>
Patients may not understand need to take as prescribed	<i>Review dosing frequency, timing, quantity at each visit</i>
Sharing medications with other patients or selling to other patients	<i>Review patient responsibility regarding medication safety, DEA rules/policy and legal implications</i>

Knowledge Check

Which strategy helps prevent adverse drug interactions?

- A. Polypharmacy when possible
- B. Avoid medication reconciliation
- C. Provide patient psychoeducation
- D. Ignore metabolic pathways



Correct Answer: C ***Provide patient psychoeducation***

The other answer options all increase risk of drug adverse effects and interactions.



Knowledge Check

A patient on methadone starts fluoxetine. What is the concern?

- A. Reduced methadone levels
- B. Increased methadone levels and toxicity risk
- C. No interaction
- D. Immediate withdrawal



Correct Answer: B
Increased methadone levels and toxicity risk

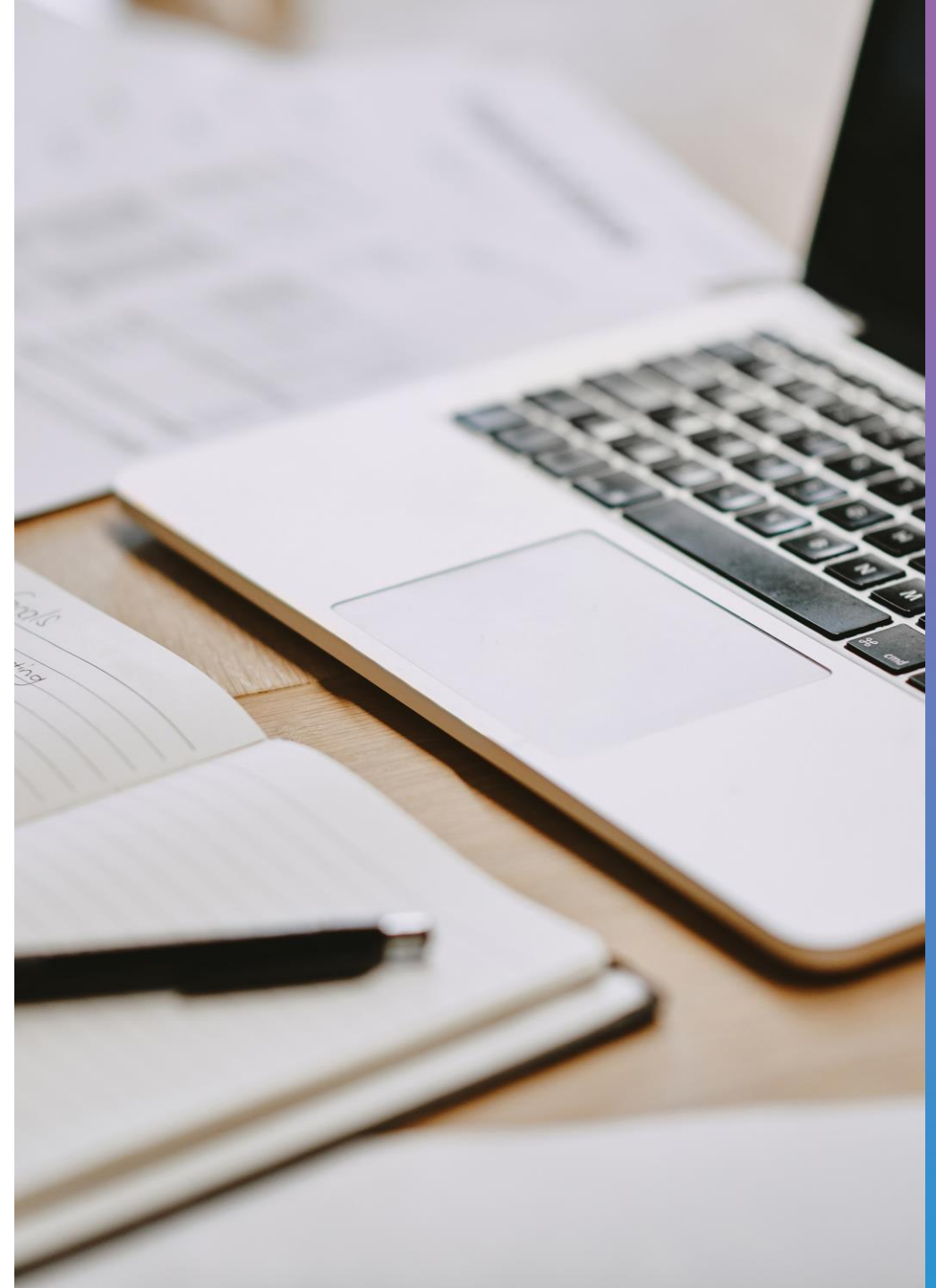
Fluoxetine inhibits CYP3A4 and 2D6, which can lead to increased plasma concentration of methadone and a risk of toxicity.



Knowledge Check

Best clinical approach when prescribing MOUD with other drugs:

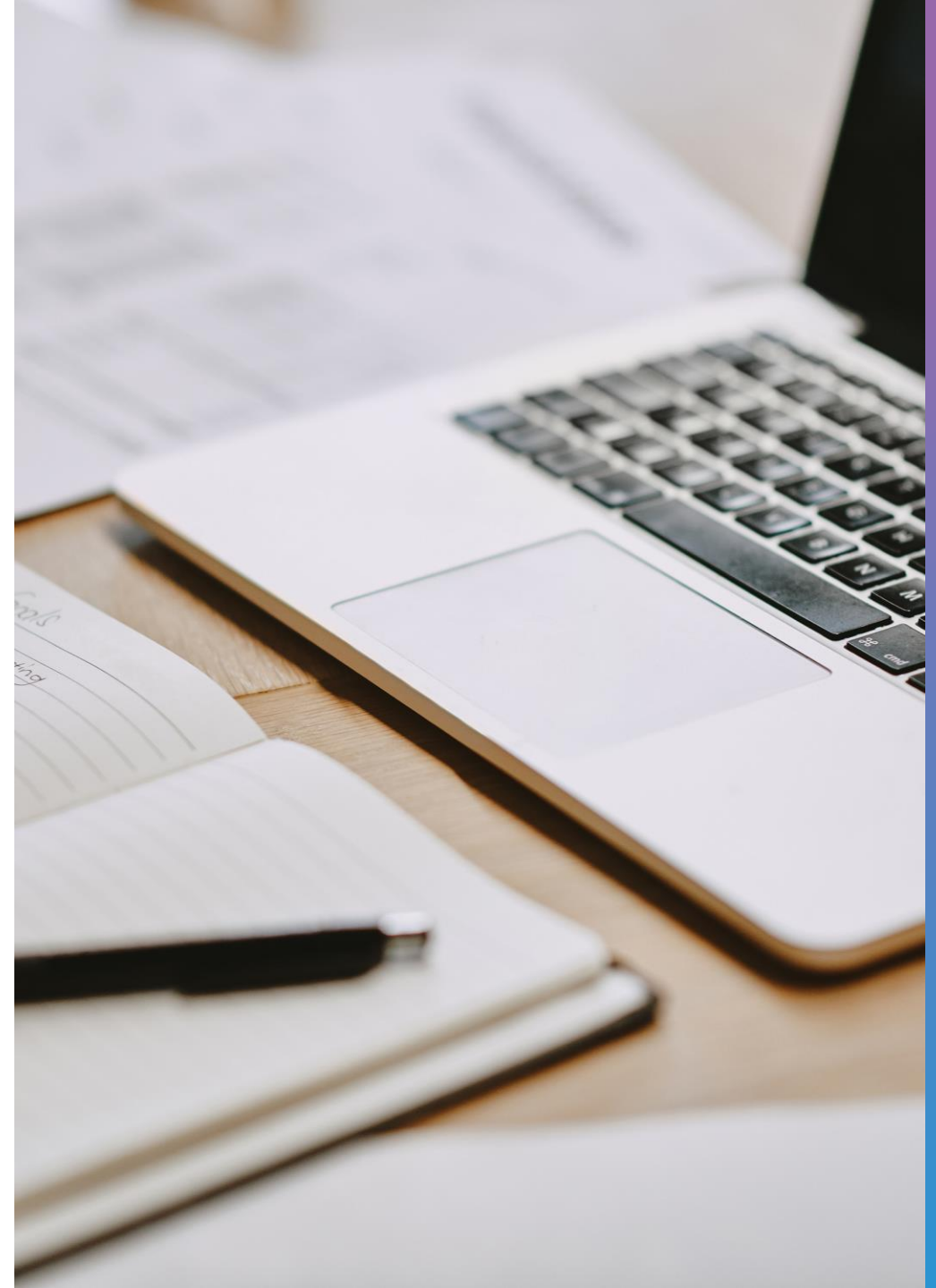
- A. Ignore interactions
- B. Monitor, educate, and coordinate care
- C. Stop all medications
- D. Avoid follow-up visits



Correct Answer: B

Monitor, educate, and coordinate care

Monitoring and educating the patient and coordinating care with other providers helps manage potential drug-drug interactions. Ignoring the interactions, stopping all medications, or avoiding follow up visits all put the patients at higher risk.



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PCSS-MOUD Steering Committee

- ▶ PCSS-MOUD is led by the American Academy of Addiction Psychiatry (AAAP), in collaboration with a coalition of national professional and healthcare organizations.



Learn more about the Steering Committee and its partner organizations:
<https://pcssnow.org/about/steering-committee/>



PCSS-MOUD Mentoring Program

- ▶ Designed to offer general information to clinicians about evidence-based clinical practices in prescribing medications for opioid use disorder (MOUD).
- ▶ Supported by a national network of providers with expertise in addictions, pain, and evidence-based treatment, including MOUD.
- ▶ Three mentoring options are available to meet your needs.
- ▶ No cost to participate.



For more information visit:
<https://pcssNOW.org/mentoring/>



1. Discussion Forum

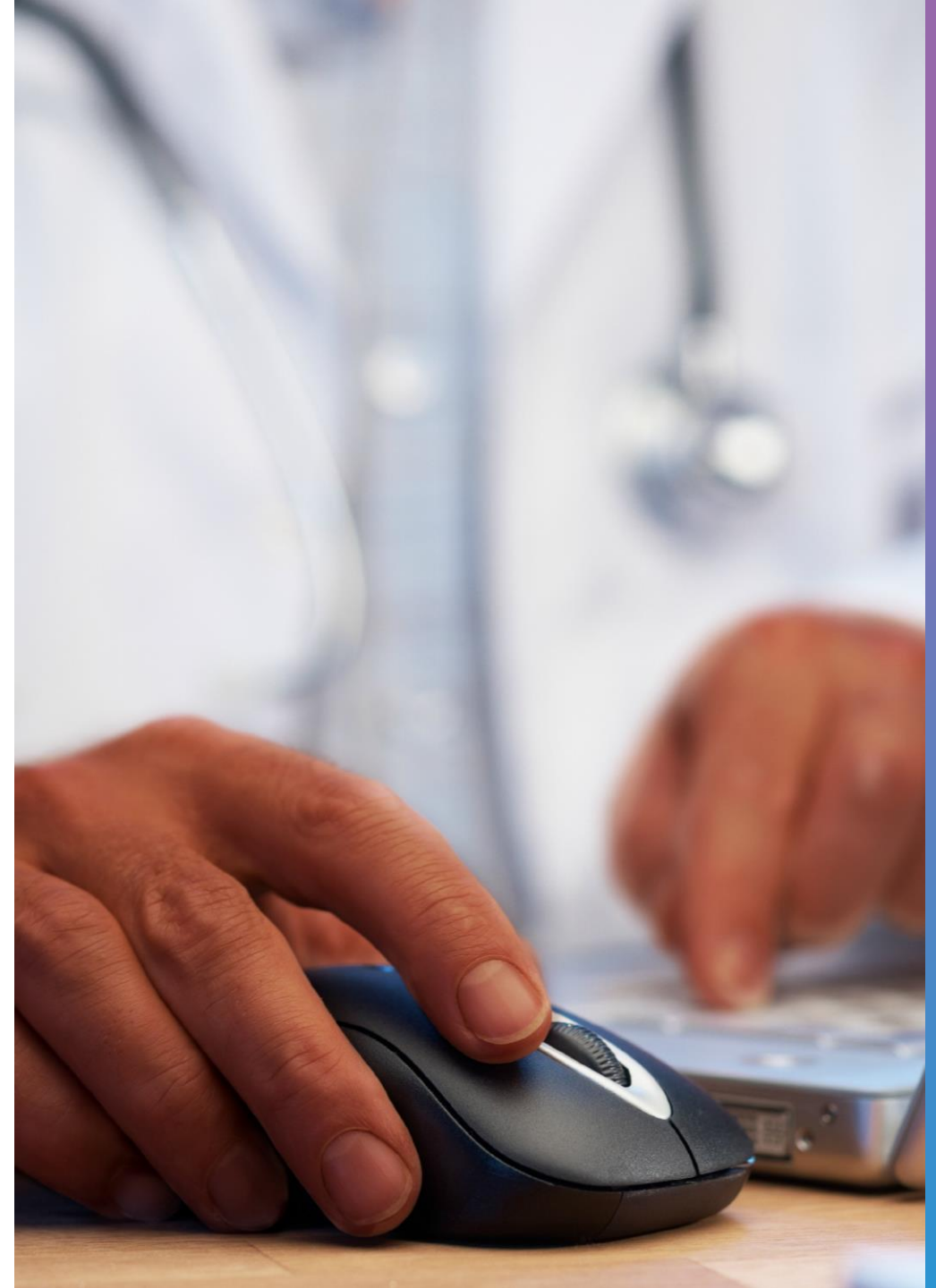
- ▶ An online discussion forum moderated by addiction specialists where health professionals can post questions and receive answers from clinical experts and other colleagues.



Register here at no cost!



For more information visit:
<https://pcssNOW.org/mentoring/>



2. Ask a Clinical Question

- ▶ A simple and direct way to receive an answer related to Substance Use Disorder, Opioid Use Disorder, and other related topics. Designed to provide a prompt response to clinical questions via email.



Submit your clinical question!



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3. One-on-One Mentoring

- Provides individualized, one-on-one guidance via email, phone, or in-person (if feasible), to discuss specific clinical issues. Members are “matched up” with one of our mentors in their region. This is the most in-depth of the three PCSS-MOUD mentoring tools. Please contact pcssmentoring@aaap.org to receive a mentor request form.



[Browse our Mentors!](#)



For more information visit:
<https://pcssNOW.org/mentoring/>



Contact us



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