Substance-Related Disorders

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Risks Associated with Substance Use

• Risks from exposure
  – Infectious disease (HIV, Hepatitis, SBE)
  – Fetal exposure

• Risks from intoxication
  – Trauma

• Risks from withdrawal
  – Seizures, death

• Risks from dependence
  – Crime, violence, loss of life chance

Goal: Risk/Harm reduction
DSM V: Substance-Related and Addictive Disorders

• Substance Use Disorders
  – Alcohol; Caffeine; Cannabis; Hallucinogens (incl. phencyclidine); Inhalants; Opioids; Sedatives, Hypnotics, Anxiolytics; Stimulants; Tobacco; Other

• Substance-Induced Disorders
  – Substance intoxication and withdrawal
  – Substance/Medication-induced mental disorders
Substance Classes

• Alcohol *
• Sedatives/Hypnotics *
• Opioids *
• Cannabis
• Stimulants *
• Hallucinogens
• Tobacco *
Alcohol--Withdrawal

– 5% of alcohol-dependent pts have serious withdrawal
– 5% risk of fatality
– 6-12 hours: shaking, headaches, anxiety, nausea
– 12-24 hours: confusion, hallucinosis, tremor, agitation
– 24-48 hours: seizures
• Delirium Tremens (hyperadrenergic state, fever, hallucinations, reduced consciousness.
• Usu 25-72 hours; may persist 4-12 days
Alcohol--Detoxification

• Detoxification
  – Thiamine 100 mg po/im; Folate 1 mg
  – CIWA protocol
  – Benzodiazepines (Diazepam, Lorazepam)
  – Clonidine
Alcohol--Abstinence

• Alcoholics Anonymous

• Alcohol sensitizing agents
  – Disulfiram/Antabuse

• Anti-craving agents
  – Opioid antagonists
    • Naloxone
    • Naltrexone
  – Acamprosate/Campral
Sedatives/Hypnotics--Detoxification

Withdrawal

• Early signs: anxiety, agitation, nausea, fatigue
• Later signs: abdominal cramps, hyperreflexia, tachycardia, post. Hypotension, tremor, dyssomnia

Detoxification

• Out Pt vs In Pt
• Substitution of long-half life Benzodiazepine
Opioids

• Opiates: Derivatives from opium poppy (morphine, codeine)
• Opioids: Derivatives of opiates (hydrocodone, oxycodone, heroin, methadone)
Opioid Intoxication

• Overdose
  – Decreased consciousness, reduced breathing and heart rate, loss of gag reflex

  – Naloxone
Opioid--Detoxification

• Methadone
• Buprenorphine
• Clonidine

• Opioid antagonists
  – Naltrexone
Opioid Dependence--Maintenance

• Opioid agonist
  – Methadone
  – Levomethadyl acetate (LAAM)

• Opioid antagonist
  – Naltrexone/ReVia

• Mixed Opioid agonist-antagonist
  – Buprenorphine
Tobacco--Detoxification

• Nicotine replacement
  – Gum
  – Transdermal patch
  – Nasal spray
Tobacco--Maintenance

- Bupropion (Wellbutrin/Zyban)
- Clonidine
- Varenicline/Chantix

- Others
  - Electric cigarette