

Class Preparation
Substance Abuse

Fill in the chart:

Drugs	Symptoms of Use	Symptoms of Intoxication	Symptoms of Withdrawal
<p>CNS Depressants Examples:</p> <ul style="list-style-type: none"> • Alcohol (ETOH) 	<p>Chronic Use:</p> <ul style="list-style-type: none"> • Wernicke-Korsakoff syndrome → Thiamine! • Alcoholic cardiomyopathy • Esophagitis • Gastritis • Pancreatitis • Alcoholic hepatitis → Cirrhosis • Thrombocytopenia 	<ul style="list-style-type: none"> • BAL: $\geq 0.08\text{mg } \%$ • Slurred speech • Incoordination • Unsteady gait • Drowsiness • Decreased B/P • Disinhibition of sexual or aggressive drives • Impaired judgment • Impaired social or occupational function • Impaired attention • Irritability 	<ul style="list-style-type: none"> • Tremors • Cramps • Vomiting • Elevated heart rate, B/P, temperature • Anxiety • Insomnia • Headache • GI disturbances • Alcohol Withdrawal Delirium
<p>CNS Stimulants Examples:</p> <ul style="list-style-type: none"> • Amphetamines: Ecstasy, methamphetamine • Synthetic stimulants: Bath salts • Methylphenidate (Ritalin) • Cocaine (crack) • Caffeine • Nicotine 	<p>Highly Addictive</p> <ul style="list-style-type: none"> • Dopamine, Serotonin, Norepinephrine <p>Long Term Abuse</p> <ul style="list-style-type: none"> • Neurotoxicity & Psychosis • Cracked teeth • Skin infections • Lung/kidney/liver damage 	<ul style="list-style-type: none"> • Euphoria, decreased appetite • Impaired judgment, confusion • Tachycardia, HTN • Hyperthermia 	<ul style="list-style-type: none"> • Sleep disturbances, fatigue • Cravings • Dysphoria → Suicidal ideation
<p>Opioids Examples:</p> <ul style="list-style-type: none"> • Opium → Morphine → Heroin <p>Opioids of natural origin:</p> <ul style="list-style-type: none"> • Opium, Morphine <p>Opioid derivatives:</p> <ul style="list-style-type: none"> • Heroin, Hydromorphone, Oxycodone, Hydrocodone <p>Synthetic opiate-like drugs:</p> <ul style="list-style-type: none"> • Methadone, Fentanyl 	<p>CNS effects:</p> <ul style="list-style-type: none"> • Euphoria, mood changes, mental clouding, drowsiness, pain reduction <p>Gastrointestinal effects:</p> <ul style="list-style-type: none"> • N/V, decrease GI motility <p>Cardiovascular effects:</p> <ul style="list-style-type: none"> • ↓ pain (MI), ↓BP 	<p>Symptoms last for several hours:</p> <ul style="list-style-type: none"> • Euphoria • Apathy • Dysphoria • Psychomotor agitation or retardation • Impaired judgment • Constricted pupils, ↓ respirations, ↓ BP, Slurred speech • Severe opioid intoxication <ul style="list-style-type: none"> • Respiratory depression, coma, and death 	<ul style="list-style-type: none"> • Nausea/vomiting • Lacrimation or rhinorrhea • Pupillary dilation • Piloerection/ chills • Sweating • Abdominal cramping • Diarrhea • Yawning • Fever • Insomnia • Panic

<p>Hallucinogens Examples: Naturally occurring hallucinogens (plants & mushrooms):</p> <ul style="list-style-type: none"> ▪ Mescaline, Psilocybin, salvia <p>Synthetic compounds:</p> <ul style="list-style-type: none"> ▪ LSD, ketamine, PCP 	<p>Psychological</p> <ul style="list-style-type: none"> • Heightened response to color, sounds • Paranoia, panic • Euphoria • Depersonalization/ Derealization • Hallucinations → stimulation of the SNS 	<p>Physiological</p> <ul style="list-style-type: none"> • Nausea/vomiting • Chills • Pupil dilation • Increased blood pressure, pulse • Insomnia • Elevated blood sugar • Decreased respirations 	<ul style="list-style-type: none"> • Stiff muscles • Depressed breathing • Convulsions • Rapid heart rate • Extreme changes in body temperature • Cravings • Headaches • Sweating • Seizures • Flashbacks
<p>Inhalants Examples: fuels, solvents, adhesives, aerosol propellants, paint thinners</p>	<p>CNS effects:</p> <ul style="list-style-type: none"> • ataxia, neuropathy, speech problems, tremors <p>Respiratory effects:</p> <ul style="list-style-type: none"> • wheezing, dyspnea, emphysema, pneumonia <p>Gastrointestinal effects:</p> <ul style="list-style-type: none"> • abdominal pain, n/v <p>Renal system effects:</p> <ul style="list-style-type: none"> • acute and chronic renal failure 	<p>Develops during or shortly after exposure</p> <ul style="list-style-type: none"> • Dizziness, ataxia, muscle weakness • Euphoria, excitation, disinhibition, slurred speech • Nystagmus, blurred or double vision • Psychomotor retardation, hypoactive reflexes • Stupor or coma 	<ul style="list-style-type: none"> • Agitation and irritability • Powerful headaches • Nausea • Excessive sweating • Tremors and convulsions • Excessive sweating • Abdominal cramping • Intense cravings