Course Introduction

- Introduction
- Opioids
  - Description and Statistics
  - Costs of Opiate Addiction
  - A Word on Opioids
- Stimulants
  - Description and Statistics
  - Costs of Stimulant Addiction
  - The Cost of Stimulant Addiction
  - A Word on Stimulants
- Prescription Drug Abuse
- “Opposites Attract”
- Addictive Potential
- Learning Check

Types and Effects of Opioid Use

- Introduction to Opioids
  - Opium
  - Opiates
  - Opioids and Narcotics
- Clarifying Terms
  - Opium
  - Opiates
  - Opioid
  - Narcotic
- Classifications
  - Natural
  - Semisynthetic Opioids
  - Fully Synthetic
- Morphine
- Oxycodone
- Hydrocodone
- Fentanyl
- Heroin
- Effects of Opioids
✓ Gastrointestinal System
✓ Central Nervous System
✓ Sexual and Urinary Function

• Learning Check

**History of Opiate Use**

• Early History of Opium Use
• History of Opioid Use in the U.S.
• Shift in the Perception of Opioids
• Opioid Laws in the U.S.

**Opiate Drug Interactions**

• Classifications
  ✓ Major
  ✓ Moderate
  ✓ Minor
• Toxicology
• Centrally Acting Opioid Interactions
  ✓ MAO Inhibitors

**Methadone: From Detox to Recovery**

• What Is Methadone?
• Historical Perspective
• Methadone Detoxification
• Regulations
• Prejudices Toward Methadone
• Common Myths
• Measures of Effectiveness
  ✓ Reduction in the Use of Illicit Drugs
  ✓ Reduction in Criminal Activities
  ✓ Reduction in HIV Risk Behaviors
• The Bottom Line

**New Opioid Replacement Therapy**

• Terminology
Opiate and Stimulant Education

Course Outline

✓ Opiate Agonist
✓ Opiate Antagonist
✓ Partial Agonist

• Buprenorphine
• Naltrexone
  ✓ Development of Naltrexone
• Naloxone
  ✓ Combining Naloxone and Buprenorphine
• Learning Check

Effects of Stimulants

• Introduction to Stimulants
• Effects of Stimulants
  ✓ Central Nervous System
  ✓ Cardiovascular System
  ✓ Respiratory and Pulmonary Systems
• Stimulant Use by Athletes

Types and History of Stimulants

• Classifications of Stimulant Substances
• Natural Stimulants
  ✓ Guarana
  ✓ Ginseng
• Synthetic Stimulants
• Medically Prescribed Stimulants
  ✓ Adderall® and Concerta®
    ▪ Similarities Between Adderall® and Concerta®
    ▪ Differences Between Adderall® and Concerta®
  ✓ Methamphetamine
    ▪ Licit Use
    ▪ Illicit Use
  ✓ History of Amphetamine Use
• Cocaine
  ✓ Multiple Forms of Cocaine
  ✓ Routes of Administration
    ▪ Snorting
    ▪ Injecting
    ▪ Smoking
Course Outline

- Effects of Cocaine
- History of Cocaine
- History of Cocaine in the U.S.
- Prenatal Cocaine Exposure

- Caffeine
  - High Energy Drinks
  - History of Caffeine Use
  - Final Verdict on Caffeine

- Nicotine
  - The Risks
  - Long-Term Effects
  - History of Nicotine Use
  - Smoking in Treatment Programs?

- Ephedra and Ephedrine

- Learning Check

Stimulant Drug Interactions

- Psychotropic Drug Interactions
  - Tricyclic Antidepressants
  - Antipsychotics
  - Anticonvulsants

- Antihypertensive Medications
- Depressants
- Alcohol and Cocaine
- Combining Stimulants

Pharmacological Therapies for Stimulant Users

- Promising Research
- Disulfiram (Antabuse®)
- Norepinephrine
- Vigabatrin
- Pharmacogenetics

Course Closing

- Final Thoughts
- Resources for Professionals