## NEI's Master Psychopharmacology Program
### Study Guide: Substance Use and Impulsive-Compulsive Disorders

<table>
<thead>
<tr>
<th>Subtopic</th>
<th>Benchmarks (You Should Be Able To)</th>
<th>Recommended Resources*</th>
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</table>
| **Symptom Presentation and Assessment** | Define key terms related to abuse and reward  
Identify screening and diagnostic tools for evaluating presence of a substance use disorder  
Identify common presentations of acute intoxication with different drugs  
Identify common psychiatric comorbidities associated with substance use disorders  
Evaluate potential conditions/behaviors that may be considered impulsive-compulsive disorders | Stahl SM. Stahl's essential psychopharmacology, fourth edition. New York, NY: Cambridge University Press; 2013. (Chapter 14)  
National Institute on Alcohol Abuse and Alcoholism (NIAAA) Professional Education Materials  
Lecture Format:  
**Impulsive and Compulsive Disorders**  
**Synthetic Cannabinoids: What You Need to Know**  
**Silent Epidemic: Addressing the Growing Use of Bath Salts**  
**Silent Epidemic: Consequences of Synthetic Drug Use on Psychiatric Outcomes**  
Article:  
**A Primer on Binge Eating Disorder Diagnosis and Management** |
| **Neurobiology of Reward** | Link naturally occurring brain substances to corresponding drugs of abuse  
Identify the final common pathway of reward  
Describe the hypothetical shared neurobiology of impulsive-compulsive disorders  
Describe the hypothesized brain regions, circuits, and neurotransmitters implicated in the reward system  
Explain the neurobiology of conditioning and compulsive use  
Animation:  
**Obesity as an Impulsive-Compulsive Disorder: Novel Treatments**  
**Reward Conditioning**  
Lecture Format:  
**Impulsive and Compulsive Disorders** |

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http://cdn.neiglobal.com/content/mppstudyguide/studyguide_sud.pdf
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<td>Explain the differential effects of mode of delivery on abuse potential</td>
<td>Stahl SM, Grady MM. Stahl's illustrated substance use and impulsive disorders. New York, NY; Cambridge University Press; 2012.</td>
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<td>Differentiate the mechanisms of action of methylphenidate, amphetamine, cocaine, and methamphetamine</td>
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<td>Identify and differentiate mechanisms to reduce craving and withdrawal for nicotine</td>
<td>Stahl SM, Grady MM. Stahl's illustrated substance use and impulsive disorders. New York, NY; Cambridge University Press; 2012.</td>
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<td>Identify and differentiate mechanisms to increase abstinence and/or reduce craving and withdrawal for alcohol</td>
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<tr>
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<td>Identify and differentiate mechanisms to reduce craving and withdrawal for opiates</td>
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| Clinical Characteristics of Treatments for SUD | Identify currently available agents with evidence of efficacy in treating nicotine dependence  
Identify currently available agents with evidence of efficacy in treating alcohol abuse/dependence  
Identify currently available agents with evidence of efficacy in treating opiate dependence  
Explain the concept of reduced-risk drinking  
Identify the effective dose range and general titration requirements for each used to treat substance use disorders  
Identify notable side effects for each agent used to treat substance use disorders  
Identify any contraindications or major drug interactions for each agent used to treat substance use disorders  
Prioritize treatment order when substance abuse/dependence presents with comorbid psychiatric disorders  
SUD medication prescribing information/package inserts.  
Cases:  
24-Year-Old Man With Auditory and Visual Hallucinations  
21-Year-Old Woman With Unstable Mood and Social Anxiety, and Substance Abuse  
19-Year-Old Man With Substance Use and Psychotic Symptoms  
Lecture Format:  
Substance Use Disorders: What Can We Do to Help Break the Cycle of Addiction  
Managing Patients With Substance Use Disorders: A Case-Based Approach |

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<td><strong>Special Considerations</strong></td>
<td>Identify SUD treatments for which dosing recommendations differ depending on age</td>
<td>Stahl SM. Essential psychopharmacology, the prescriber's guide, fifth edition. New York, NY: Cambridge University Press; 2014.</td>
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<td>Explain recommendations for SUD treatment selection/maintenance in pregnant women</td>
<td>SUD medication prescribing information/package inserts.</td>
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<td>Explain recommendations for SUD treatment selection/maintenance in women who are breastfeeding</td>
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<td>Identify SUD treatments for which dosing recommendations are different for individuals with medical complications</td>
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