**NEI's Master Psychopharmacology Program**  
**Study Guide: Attention Deficit Hyperactivity Disorder**

<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 | Describe the general clinical features of ADHD  
Distinguish between subtypes of ADHD  
Explain the common evolution of ADHD symptoms with age  
Identify common comorbidities associated with ADHD                                                                                   | Learning Activities*  
ADHD: Neurobiologic Evidence and Diagnostic Nuances (CME video)  
Insights Into Diagnosing ADHD (CME video)  
Additional Resources**  
What Is New in Pediatric ADHD? (CME video)  
Diagnosis and Treatment of ADHD: Focus on the Evidence (CME video)                                                                                       |
| Neurobiology of Symptoms          | Associate each symptom of ADHD with hypothesized brain regions, circuits, and neurotransmitters  
Explain the relevance of arousal to ADHD  
Explain the relevance of tonic versus phasic neurotransmission to ADHD  
Describe the performance and neurobiological findings using cognitive tasks in ADHD versus controls  
Explain the course of executive function development and the corresponding hypothesis for development of ADHD  
Identify evolving theories regarding underlying causes of ADHD  
Identify genetic markers under investigation for their relevance to ADHD                                                                                     | Learning Activities*  
ADHD: Neurobiologic Evidence and Diagnostic Nuances (CME video)  
Additional Resources**  
Stahl SM, Mignon L. Stahl's illustrated attention deficit hyperactivity disorder. New York, NY: Cambridge University Press; 2009. (Chapter 1) |

*You may choose any 24 non-expired Learning Activities to complete the requirements of the Master Psychopharmacology Program. For the full list of Master Psychopharmacology Program requirements, please visit [http://www.neiglobal.com/Members/MPP/MPPOverview/tabid/307/Default.aspx](http://www.neiglobal.com/Members/MPP/MPPOverview/tabid/307/Default.aspx).*  
**These resources do not count toward the requirements of the Master Psychopharmacology Program and are merely listed here as useful resources for additional study.**

[http://cdn.neiglobal.com/content/mpp/studyguide/studyguide_adhd.pdf](http://cdn.neiglobal.com/content/mpp/studyguide/studyguide_adhd.pdf)
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| Mechanisms of ADHD Treatments | Differentiate the mechanisms of action of methylphenidate versus amphetamine | Additional Resources**  
Mechanisms of Action of Methylphenidate and Amphetamine (animation) |
| | Differentiate between the effects of different formulations of stimulants |  |
| | Differentiate between the effects of different modes of delivery of stimulants |  |
| | Describe the mechanisms of action of non-stimulants |  |
| Clinical Characteristics of ADHD Treatments | Identify currently available agents with evidence of efficacy in ADHD | Learning Activities*  
Childhood ADHD: Evaluating Treatment Options (CME video) |
| | Identify the effective dose range and general titration requirements for each agent used in ADHD | Additional Resources**  
ADHD medication prescribing information/package inserts. |
| | Identify notable side effects for each agent used in ADHD |  |
| | Differentiate the abuse potentials for the different ADHD treatments |  |
| | Identify any contraindications or major drug interactions for each agent used in ADHD |  |

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<td>Treatment Strategies</td>
<td>Identify appropriate monotherapies for ADHD in children, adolescents, and adults</td>
<td>Learning Activities*&lt;br&gt;Childhood ADHD: Evaluating Treatment Options (CME video)</td>
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<td>Prioritize treatment order when ADHD presents with comorbid disorders</td>
<td>Diagnosis and Treatment of ADHD: Focus on the Evidence (CME video)</td>
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<td>Identify potential combination treatments for comorbid ADHD</td>
<td>Optimizing Outcomes in ADHD Treatment: From Clinical Targets to Novel Delivery Systems (CME article)</td>
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<td>Identify novel mechanisms and strategies being investigated for potential application to ADHD treatment</td>
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<td>Track symptom progression and treatment response using rating scales</td>
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<td>Monitor and modify treatment strategies to address evolving presentations and adherence issues</td>
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<td>Special Considerations</td>
<td>Identify ADHD treatments for which dosing recommendations differ depending on age</td>
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<td>Explain recommendations for ADHD treatment selection/maintenance in women who are breastfeeding</td>
<td>ADHD medication prescribing information/package inserts.</td>
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<td>Identify ADHD treatments for which treatment recommendations are different for individuals with medical complications</td>
<td>What Is New in Pediatric ADHD? (CME video)</td>
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