Prescribing Guidelines for Attention Deficit/Hyperactivity Disorder (ADHD)
Prescribing for Attention Deficit/Hyperactivity Disorder

This document was developed by Nationwide Children's Hospital in conjunction with Partners For Kids using evidence-informed clinical guidelines and expert opinion, where evidence is lacking, and is generally reflective of FDA approved indications and recommendations. It is designed to help primary care practitioners provide timely and effective treatment for children with mental health disorders. Information on cost is provided to aid in decision-making when appropriate. This document should not be considered a substitute for sound clinical judgment. Clinicians are encouraged to seek additional information if questions arise, as well as, refer to or consult with specialty behavioral health if therapeutic response is inadequate.

Additional resources can be found at the Behavioral Health Treatment Insights and Provider Support (BH-TIPS) line. The BH-TIPS line allows community providers to consult with a Nationwide Children's Hospital psychiatrist via a virtual appointment. Further details and appointment scheduling can be found at the links below:

www.NationwideChildrens.org/BHTIPS
BHOOfficeHours@NationwideChildrens.org

Project ECHO (Extension for Community Healthcare Outcomes) is another resource that providers may enroll in. The Behavioral Health Primary Care ECHO series supports primary care providers in the assessment and management of behavioral health concerns for their patients. Sessions include short didactic presentations on commonly seen conditions in primary care, including depression, anxiety, ADHD, trauma, gender issues, substance use, and eating disorders, followed with behavioral health and pharmacological guidance through interactive, case-based learning.

To register for Project ECHO follow the link below and fill out the form:

For questions regarding enrollment in ECHO, please send an email to the address below:
BHPrimaryCareECHO@NationwideChildrens.org

Physician Direct Connect (PDC) is a service that offers 24-hour physician/provider consult-transfers, managed by experienced RNs who can assist in caring for your patients by being a single point of contact for numerous requests. They can transfer and transport requests, referrals from local and regional physicians, ED referrals, admissions, physician-to-physician consultation requests.

Physician Direct Connect (PDC) (NationwideChildrens.org)

Attention Deficit/Hyperactivity Disorder Overview

• ADHD is one of the most common pediatric behavioral health disorders affecting 9.4% of children and is characterized by hyperactivity, attention difficulties, and executive function deficits.

• Medication therapy is indicated for patients age 6 years or older. Behavioral therapy is recommended as first line treatment of pre-school aged children with ADHD (ages 4-5 years old).

• Behavioral therapy and, when indicated, academic support, should be considered in conjunction with medication therapy for patients greater than 6 years of age.
Diagnosis of Attention Deficit/Hyperactivity Disorder

- The Vanderbilt Assessment Scales is one of the most commonly used tools to diagnose and monitor ADHD in children and adolescents.
- The assessment asks parents and teachers about the child’s behaviors within the past 6 months.
- Scoring exists for each section to reflect diagnosis of ADHD, oppositional-defiant disorder, conduct disorder, mood concerns, academic performance and classroom behavioral performance.
- Providers are encouraged to use the parent and teacher assessment versions for initial diagnosis, and the parent and teacher follow-up versions to monitor clinical response and adverse effects associated with medication and use clinical findings to optimize medication use for pediatric ADHD.
- Vanderbilt Assessment Scales are found at: https://www.nichq.org/resource/nichq-vanderbilt-assessment-scales

Pharmacogenomic Testing for ADHD

Although tests are available and covered by some insurers, there is limited clinically relevant data to support the use of testing in determining medication and dosage selections, and therefore, not recommended as part of standard care.

Treating Attention Deficit/Hyperactivity Disorder

Medication

- Long-acting stimulant medications are generally preferred for school-age children.
- Start with a first line medication from the methylphenidate or dextroamphetamine-amphetamine class.
- Maximize dosing of one agent before moving to the next. If ineffective at maximal dosing or side effects develop, switch classes within first line options, then move to second or third line medication, if needed.
- Maximize dosing of long-acting stimulant before adding an immediate release formulation medication.
- Before considering a stimulant medication, obtain cardiac history, including sudden cardiac death in first degree relative under age 50, history of congenital heart defect, or conduction defect.

Behavioral Therapy

- Parent Training in Behavioral Management: Parent Training in Behavior Management for ADHD | CDC
- Classroom Training: ADHD in the Classroom | CDC
Choice of pills, skills, or both?

CDC: Parent training in behavior management for ADHD

CDC: ADHD in the classroom, helping children succeed in school

Non-stimulants

Trial of stimulants from each class as first and second line

Trial third-line non-stimulant

Methylphenidate or Amphetamine?

Amphetamine

Adderrall® (generic) Adderall XR® (generic)

Upon first-line failure of Amphetamine, trial a Methylphenidate as second-line

Methylphenidate

Metadate CP® (generic) Concerta® (generic) Ritalin LA® (generic)

Upon first-line failure of Methylphenidate, trial an Amphetamine as second-line

Pills*

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*Refer to medication charts at the end of the guideline for a listing of preferred and non-preferred agents and clinical pearls, including information regarding alternative formulations such as crushable tablets, capsules to be opened, liquids or patch.
**Long-acting Stimulant Conversion Guide**

At times, prescribers may need to switch patients from one stimulant to another due to various reasons including patient tolerability and insurance preference/formulary changes. This guide serves as a resource to aid in decision-making for stimulant dose conversions. This guide should not be considered a substitute for clinical judgment, and all patients should be monitored closely for clinical and adverse effects.

General Recommendation:

- Concerta® (methylphenidate ER) and Vyvanse® (lisdexamfetamine) are uniquely dosed. The table below provides an initial dose which may require additional titration.

<table>
<thead>
<tr>
<th>Dextroamphetamine/amphetamine ER (Adderall® XR)</th>
<th>Methylphenidate ER (Ritalin® LA or Metadate® CD)</th>
<th>Methylphenidate ER (Concerta®)</th>
<th>Dexamethylphenidate (Focalin XR®)</th>
<th>Lisdexamfetamine (Vyvanse®)</th>
<th>Methylphenidate XR liquid (Quillivant XR®)</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>10 mg</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>5 mg</td>
<td>10 mg</td>
<td>N/A</td>
<td>5 mg</td>
<td>20 mg</td>
<td>10 mg</td>
</tr>
<tr>
<td>10 mg</td>
<td>20 mg</td>
<td>18 mg</td>
<td>10 mg</td>
<td>30 mg</td>
<td>20 mg</td>
</tr>
<tr>
<td>15 mg</td>
<td>30 mg</td>
<td>27 mg</td>
<td>15 mg</td>
<td>40 mg</td>
<td>30 mg</td>
</tr>
<tr>
<td>20 mg</td>
<td>40 mg</td>
<td>36 mg</td>
<td>20 mg</td>
<td>50 mg</td>
<td>40 mg</td>
</tr>
<tr>
<td>25 mg</td>
<td>50 mg</td>
<td>54 mg</td>
<td>25 mg</td>
<td>60 mg</td>
<td>50 mg</td>
</tr>
<tr>
<td>30 mg</td>
<td>60 mg</td>
<td></td>
<td>30 mg</td>
<td>70 mg</td>
<td>60 mg</td>
</tr>
</tbody>
</table>

### Patient-related Considerations for ADHD Medication

<table>
<thead>
<tr>
<th>Patient-related Considerations</th>
<th>Recommendation</th>
</tr>
</thead>
</table>
| Appetite suppression          | • Eat protein rich breakfast prior to administration  
• Schedule meals and provide regular snacks and drinks  
• Monitor height and weight |
| Difficulty swallowing         | • Consider alternate medication form:  
  - Capsule (refer to medication table to determine which can be opened and sprinkled)  
  - Chewable tablet  
  - Liquid |
| Insomnia                      | • If long duration of stimulant action, ensure early morning administration or change to shorter duration stimulant  
• Encourage good sleep hygiene habits |
| Abdominal pain                | • Take with meals |
| Headache                      | • Increase hydration  
• Schedule meals |
| Tachycardia and chest pain    | • Consider dose reduction  
• Switch to a different stimulant or a non-stimulant  
• Consider cardiology consult with EKG |
| Concern for abuse and/or diversion | • Consider a prodrug form of a stimulant, tamper resistant stimulant, or non-stimulant |
| Flat affect or mood lability  | • Consider dose reduction  
• Switch to a different stimulant or non-stimulant |
# Stimulant and Non-Stimulant Medications for Treatment of Attention Deficit/Hyperactivity Disorder

The table below contains options covered on the Unified Preferred Drug List (UPDL) by Ohio Medicaid Managed Care Plans.

<table>
<thead>
<tr>
<th>Drug</th>
<th>Initial Daily Dose</th>
<th>Titration Recommendation</th>
<th>Max Daily Dose</th>
<th>Strengths Available</th>
<th>Avg Cost Per Script</th>
<th>Clinical Pearls</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Stimulants</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dextroamphetamine-Amphetamine Immediate Release (Adderall®)</td>
<td>2.5-5 mg</td>
<td>Increase by 2.5-5 mg weekly</td>
<td>40 mg</td>
<td>5; 7.5; 10; 12.5; 15; 20; 30 mg</td>
<td>$36</td>
<td>3:1 ratio dextro- to levo-amphetamine ratio. Tablet can be crushed. Duration 4-6 hours.</td>
</tr>
<tr>
<td>Dextroamphetamine-Amphetamine Long-Acting (Adderall XR®)</td>
<td>5-10 mg</td>
<td>Increase by 5-10 mg weekly</td>
<td>30-60 mg</td>
<td>5; 10; 15; 20; 25; 30 mg</td>
<td>$35</td>
<td>3:1 ratio dextro- to levo-amphetamine ratio. Capsule can be opened and sprinkled. Duration 10-12 hours.</td>
</tr>
<tr>
<td>Methylphenidate Immediate Release (Ritalin®)</td>
<td>5 mg</td>
<td>Increase by 5-10 mg/day weekly</td>
<td>60 mg</td>
<td>5; 10; 20 mg</td>
<td>$24</td>
<td>Tablet can be crushed. Duration 4 hours.</td>
</tr>
<tr>
<td>Methylphenidate Long-Acting (Ritalin LA®)</td>
<td>10-20 mg</td>
<td>Increase by 10 mg/day weekly</td>
<td>60 mg</td>
<td>Brand: 10; 20; 30; 40 mg Generic: 10; 15; 20; 30; 40; 50; 60 mg</td>
<td>$67</td>
<td>50% is immediate release and 50% is extended release. Capsule can be opened and sprinkled. Duration 8-10 hours.</td>
</tr>
<tr>
<td>Methylphenidate Long-Acting (Concerta®)</td>
<td>18 mg</td>
<td>Increase by 18 mg weekly</td>
<td>54 mg (&lt;13y) 72 mg (≥13y)</td>
<td>18; 27; 36; 54 mg</td>
<td>$51</td>
<td>22% is immediate release and 78% is extended release. Tablet cannot be crushed. Duration 10-12 hours.</td>
</tr>
<tr>
<td>Methylphenidate Long-Acting (Metadate CD®)</td>
<td>20 mg</td>
<td>Increase by 10-20 mg/day weekly</td>
<td>60 mg</td>
<td>10; 20; 30; 40; 50 mg</td>
<td>$72</td>
<td>30% is immediate release and 70% is extended release. Capsule can be opened and sprinkled. Duration 8-10 hours.</td>
</tr>
<tr>
<td>Dexamethylphenidate Long-Acting (Focalin XR®)</td>
<td>0.5 mg</td>
<td>Increase by 5 mg/day weekly</td>
<td>30 mg</td>
<td>5; 10; 15; 20; 25; 30; 35; 40 mg</td>
<td>$76</td>
<td>50% is immediate release and 50% is extended release. Capsule can be opened and sprinkled. Duration 10-12 hours. When switching from methylphenidate, reduce dose by half.</td>
</tr>
<tr>
<td>Methylphenidate Long-Acting (Quillivant XR®)</td>
<td>20 mg</td>
<td>Increase by 10-20 mg/day weekly</td>
<td>60 mg</td>
<td>25 mg/ 5mL as 60; 120; 150; 180mL</td>
<td>$339</td>
<td>Long-acting oral suspension. Duration 12 hours.</td>
</tr>
</tbody>
</table>
### Non-Stimulants

<table>
<thead>
<tr>
<th>Medication</th>
<th>Starting Dose</th>
<th>Dosage Increase</th>
<th>Total Range</th>
<th>Strength</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Methylphenidate</strong>&lt;br&gt;Long-Acting (QuilliChew ER&lt;sup&gt;®&lt;/sup&gt;)</td>
<td>10-20 mg</td>
<td>Increase by 10,15, or 20 mg/day weekly</td>
<td>60 mg</td>
<td>20; 30; 40 mg</td>
<td>$447</td>
</tr>
<tr>
<td><strong>Lisdexamfetamine</strong>&lt;br&gt;(Vyvanse&lt;sup&gt;®&lt;/sup&gt;)</td>
<td>30 mg</td>
<td>Increase by 10-20 mg/day at 3-7 day intervals</td>
<td>70 mg</td>
<td>Capsule: 10; 20; 30; 40; 50; 60; 70 mg&lt;br&gt;Chewable tablet: 10; 20; 30; 40; 50; 60 mg</td>
<td>$402</td>
</tr>
<tr>
<td><strong>Atomoxetine</strong>&lt;br&gt;(Strattera&lt;sup&gt;®&lt;/sup&gt;)</td>
<td>&lt;70kg: 0.5 mg/kg&lt;br&gt; &gt;70kg: 40 mg</td>
<td>Increase by 5-10 mg/kg or 100 mg weekly</td>
<td>1.4 mg/kg or 100 mg</td>
<td>10; 18; 25; 40; 60; 80; 100 mg</td>
<td>$110</td>
</tr>
</tbody>
</table>

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<tr>
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<th>Dosage Increase</th>
<th>Total Range</th>
<th>Strength</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Guanfacine Extended Release</strong>&lt;br&gt;(Intuniv®)</td>
<td>1 mg</td>
<td>Increase by 1 mg/day weekly</td>
<td>4 mg</td>
<td>1; 2; 3; 4 mg</td>
<td>$22</td>
</tr>
<tr>
<td><strong>Atomoxetine</strong>&lt;br&gt;(Strattera®)</td>
<td>&lt;70kg: 0.5 mg/kg&lt;br&gt; &gt;70kg: 40 mg</td>
<td>Increase by 5-10 mg/kg or 100 mg weekly</td>
<td>1.4 mg/kg or 100 mg</td>
<td>10; 18; 25; 40; 60; 80; 100 mg</td>
<td>$110</td>
</tr>
</tbody>
</table>

**Bolded medications** are available generically.

1Dosing is for school-aged children. Medication treatment in preschool-aged children should be considered after a trial of behavioral intervention.

2Cost based on generic drug when available using average 30-day strength and dosing without insurance.

3Contains a combination of d-amphetamine and l-amphetamine. More potent release of dopamine occurs with d-amphetamine, resulting in more symptom reduction for hyperactivity/impulsivity, but more appetite suppression. More potent release of norepinephrine occurs with l-amphetamine, resulting in more symptom reduction for inattention, but less CNS excitation and more cardiovascular adverse effects.
The table below contains information on options not currently covered on the Ohio Medicaid Unified Preferred Drug List (UPDL), and as such, these medications will require a prior authorization or step therapy request.

<table>
<thead>
<tr>
<th>Drug</th>
<th>Initial Daily Dose¹</th>
<th>Titration Recommendation</th>
<th>Max Daily Dose</th>
<th>Strengths Available</th>
<th>Avg Cost Per Script²</th>
<th>Clinical Pearls</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dextroamphetamine-</td>
<td>12.5 mg</td>
<td>Increase by 12.5 mg increments weekly</td>
<td>25 mg</td>
<td>12.5; 25; 37.5; 50 mg</td>
<td>$369</td>
<td>Approved for children 13 years and older. Capsule can be opened and sprinkled. Duration 16 hours. See package insert for mg conversion to mixed amphetamine salts.</td>
</tr>
<tr>
<td>Amphetamine Long-Acting (Mydayis®)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dextroamphetamine Extended Release</td>
<td>5 mg</td>
<td>Increase by 5mg/day weekly</td>
<td>40 mg</td>
<td>5; 10; 15 mg</td>
<td>$844</td>
<td>Extended release capsule. Swallow capsule whole. Duration 3-5 hours.</td>
</tr>
<tr>
<td>(Dexedrine® Spansule®)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dextroamphetamine Immediate Release</td>
<td>5 mg</td>
<td>Increase by 2.5-5mg/day weekly</td>
<td>40 mg</td>
<td>Brand: 2.5; 5; 7.5; 10; 15; 20; 30 mg</td>
<td>$264</td>
<td>Immediate release tablet. Can be crushed. Duration 4-6 hours. Generic available in only 5 mg and 10 mg strengths.</td>
</tr>
<tr>
<td>(Zenzedi®)</td>
<td></td>
<td></td>
<td></td>
<td>Generic: 5; 10 mg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dextroamphetamine Immediate Release</td>
<td>5 mg</td>
<td>Increase by 10 mg/day weekly</td>
<td>40 mg</td>
<td>5 mg/mL</td>
<td>$304</td>
<td>Short acting oral solution. Duration 4-6 hours.</td>
</tr>
<tr>
<td>(ProCentra®)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Methylphenidate Long-Acting</td>
<td>10 mg</td>
<td>Increase by 10 mg/day weekly</td>
<td>60 mg</td>
<td>10; 15; 20; 30; 40; 50; 60 mg</td>
<td>$396</td>
<td>40% is immediate release and 60% is extended release. Capsule can be opened and sprinkled. Duration 8-12 hours.</td>
</tr>
<tr>
<td>(Aptensio XR®)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Methylphenidate Long-Acting</td>
<td>17.3 mg</td>
<td>Increase by 17.3 mg/day weekly</td>
<td>51.8 mg</td>
<td>8.6; 17.3; 25.9 mg</td>
<td>$534</td>
<td>Long-acting orally disintegrating tablet. Duration 8-12 hours.</td>
</tr>
<tr>
<td>(Cotempla XR-ODT®)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Methylphenidate Long-Acting</td>
<td>10 mg</td>
<td>Increase to next transdermal patch size no more frequently than every week</td>
<td>30 mg</td>
<td>10; 15; 20; 30 mg</td>
<td>$504</td>
<td>Transdermal system. Apply for 9 hours. Strength of patch is how much medicine is delivered in a day. Duration 10-12 hours. May cause skin irritation.</td>
</tr>
<tr>
<td>(Daytrana®)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Methylphenidate Long-Acting</td>
<td>20 mg</td>
<td>Increase by 20 mg/day weekly</td>
<td>100 mg</td>
<td>20; 40; 60; 80; 100mg</td>
<td>$485</td>
<td>Take in the evening between 6:30-9:30pm. If converting from another methylphenidate formulation, discontinue previous formulation and titrate Jornay PM® using initial schedule. Capsules can be opened and sprinkled.</td>
</tr>
<tr>
<td>(Jornay PM®)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
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**Note:** Drug information is compiled from data at Lexicomp Online, online.lexi.com. Prices are references and actual cost may vary based on drug strength, quantity and other factors. Average cost per script is based on tablet and/or capsule formulations for a one-month supply. In general, liquid formulations are more expensive and not as widely covered compared to tablet and capsules. Please refer to the specific medication's package insert for the most up to date information.

**References:**
2. Parent Training in Behavioral Management for ADHD. Parent Training in Behavior Management for ADHD | CDC. 01/14/2022
3. ADHD in the Classroom: Helping Children Succeed in School. ADHD in the Classroom | CDC. 01/14/2022

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<table>
<thead>
<tr>
<th>Non-Stimulants</th>
<th>6yo-11yo: 100mg</th>
<th>6-11yo: increase by 100mg/day weekly &gt;12yo: increase by 200mg/day weekly</th>
<th>400 mg</th>
<th>100; 150; 200 mg</th>
<th>$358</th>
<th>Must be taken daily. Takes 2 weeks to attain maximum efficacy. Cannot be opened or crushed. Black box warning for an increased risk of suicidal ideation; balance risk with clinical need. Bolded warning of liver damage; decrease dose in hepatic impairment.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Viloxazine (Qelbree®)</td>
<td>&gt;12yo: 200mg</td>
<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**Non-Stimulants**

1. **Viloxazine (Qelbree®)**

   - **6yo-11yo:** 100mg
   - **>12yo:** 200mg

   - **6-11yo:** increase by 100mg/day weekly
   - **>12yo:** increase by 200mg/day weekly

   - **400 mg:** 100; 150; 200 mg

   - **$358**

   - Must be taken daily. Takes 2 weeks to attain maximum efficacy. Cannot be opened or crushed. Black box warning for an increased risk of suicidal ideation; balance risk with clinical need. Bolded warning of liver damage; decrease dose in hepatic impairment.
Referrals and Consultations
Online: NationwideChildrens.org
Phone: (614) 722-6600 or (877) 722-6220 | Fax: (614) 722-4000
Physician Direct Connect Line for 24-hour urgent physician consultations: (614) 355-0221 or (877) 355-0221