### Dall Attention Deficit Hyperactivity Disorder (ADHD) Medications Marketed in Canada for Ages 6 Years and Older (February 2024 update)

#### **Onset of Effect**

- Defined by regulators as a statistically significant difference between drug and placebo on an ADHD symptom scale.<sup>1,2</sup>
- Commonly-prescribed methylphenidate and amphetamine formulations have an onset of effect within hours,<sup>3-7</sup> atomoxetine (Strattera) within 1 to 4 weeks<sup>8</sup> and guanfacine (Intuniv XR) within 1 to 2 weeks.<sup>9</sup>

### **Dose Response and Titration**

- Dose response relationships for ADHD medications are often not well characterized by Health Canada and the US FDA.<sup>1,2</sup>
- ADHD medications are approved with a defined dosage range, informed by fixed-dose trials which typically use rapid or no dose titration and may not apply to clinical practice.<sup>1,2</sup>
- Health Canada advises starting ADHD medications at the lowest dose, then titrating slowly upward to the lowest effective dose; methylphenidate and amphetamines are generally titrated at weekly intervals, atomoxetine (Strattera) at 1 to 2 week intervals, and guanfacine (Intuniv XR) at weekly intervals.<sup>1</sup>

#### **Duration of Effect**

- Defined by regulators as the time period for which a change in ADHD symptoms were statistically different from placebo.<sup>1,2</sup>
- Longer-acting methylphenidate and amphetamine formulations have durations that range from ~8 to 16 hours.<sup>4-7,10-13</sup>
- Not reported by Health Canada or the US FDA for immediate release formulations.<sup>10,11,14,15</sup>

Generic Name, Brand Name, available strengths, dosage form, cost, coverage	ADHD Health Canada Indications, Dosage Considerations indication, initial dosing, dose response, dose titration, maximum dose, administration, tapering				
METHYLPHENIDATE <sup>1,2,10,11,16,17</sup>					
methylphenidate immediate-release RITALIN, generics 5, 10, 20 mg IR tablets methylphenidate extended-release RITALIN SR, generics 20 mg film-coated SR tablets	Indication	<ul> <li>ADHD: ages ≥ 6 years</li> </ul>			
	Initial Dosing	<ul> <li>IR tablets: 5 to 10 mg BID or TID with or without food</li> <li>SR tablets: may be used in place of IR tablets when the 8-hour dosage of SR corresponds to the titrated 8-hour dosage of IR</li> </ul>			
	Dose Response	<ul> <li>not reported by Health Canada, US FDA</li> </ul>			
<b>Cost per 30 days:</b> generic: \$10 to \$30; SR: \$25 to \$70 brand: discontinued	Dose Titration Maximum Dose	<ul><li>5 to 10 mg/day at weekly intervals</li><li>60 mg/day</li></ul>			
BC PharmaCare: Regular Benefit	Administration	<ul> <li>SR tablets: swallow whole, do not crush or chew</li> </ul>			

### Methylphenidate ER Brand and Generic Interchangeability

- Consider cost differences and monitor for changes in effectiveness and adverse events when switching between ADHD medication formulations.
- The US FDA states that for methylphenidate and amphetamines, there is a relationship between drug concentration and efficacy and adverse events; modification to a drug's pharmacokinetics may impact the onset and duration of its effects.<sup>18</sup> It is unclear which specific pharmacokinetic parameter (Cmax, AUC, Tmax) is the most informative and these parameters can show substantial inter-individual variability. For example, the time to maximum concentration for Concerta methylphenidate ER is 6 hours in adults, but varies from 1–10 hours.<sup>12</sup>
- Like several methylphenidate sustained release products, Concerta methylphenidate ER provides a combination of immediate release (IR) and sustained release (SR) properties.<sup>1,12</sup> There are two generic products currently marketed in Canada (APOTEX, Actavis); the manufacturers indicate that the APO generic is only an SR formulation while the ACT generic is a combined IR and SR formulation.<sup>19,20</sup> Small, single-dose bioavailability studies find modest differences in some of the pharmacokinetic parameters between these two generic products and the brand name.<sup>1</sup> We could not find applicable comparisons of these generics to the brand name product examining patient-important outcomes.

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METHYLPHENIDATE <sup>1-5,12,16,17,21-25</sup>					
methylphenidate extended-release	Indication	<ul> <li>ADHD: ages ≥ 6 years</li> </ul>			
CONCERTA, generics 18, 27, 36, 54 mg ER tablets brand name: OROS® in a non-absorbable shell brand name biphasic: IR 22%, ER 78% generic: film-coated tablets	Initial Dosing	<ul> <li>18 mg once a day in the morning with or without food</li> <li>switching from IR or SR methylphenidate: see product monograph for dosing</li> <li>potential for gastrointestinal obstruction: should not be administered to patients with pre- existing gastrointestinal narrowing (obstruction)</li> </ul>			
Cost per 30 days:	Dose Response	<ul> <li>not reported by Health Canada, US FDA</li> </ul>			
generic: \$20 to \$45	Dose Titration	at weekly intervals			
brand: \$100 to \$255	Maximum Dose	<ul> <li>54 mg/day (6 to 18 years), 72 mg/day (adults &gt; 18 years)</li> </ul>			
<b>BC PharmaCare:</b> Limited Coverage brand reimbursed up to the cost of generic	Administration	<ul> <li>swallow whole with liquids; do not chew, divide or crush</li> </ul>			
methylphenidate controlled-release	Indication	<ul> <li>ADHD: ages ≥ 6 years</li> </ul>			
BIPHENTIN 10, 15, 20, 30, 40, 50, 60, 80 mg CR capsules multi-layer release (MLR <sup>™</sup> ) beads biphasic: 40% IR, 60% CR	Initial Dosing	<ul> <li>10 to 20 mg once a day in the morning with or without food</li> <li>switching from another methylphenidate product: reduce dose to next lower strength based on total daily dose (not interchangeable with other CR methylphenidate preparations in Canada)</li> </ul>			
	Dose Response	<ul> <li>not reported by Health Canada, US FDA</li> </ul>			
Cost per 30 days:	Dose Titration	<ul> <li>10 mg/day at weekly intervals</li> </ul>			
generic: \$25 to \$155 brand: \$35 to \$185	Maximum Dose	<ul> <li>60 mg/day (6 to 18 years), 80 mg/day (adults)</li> </ul>			
BC PharmaCare: Non-Benefit	Administration	<ul> <li>swallow whole or open capsule and sprinkle onto a tablespoon (15 mL) of applesauce, ice cream or yogurt - consume within 30 minutes; do not sprinkle in liquids, crush or chew</li> </ul>			
	Indication	<ul> <li>ADHD: ages ≥ 6 years</li> </ul>			
methylphenidate controlled-release FOQUEST 25, 35, 45, 55, 70 <sup>\$</sup> , 85 <sup>\$</sup> , 100 mg CR capsules multi-layer release (MLR®) beads biphasic: 20% IR, 80% CR Cost per 30 days: generic: not available brand: \$95 to \$165 (70 mg: \$135; 85 mg: \$150) BC PharmaCare: Non-Benefit	Initial Dosing	<ul> <li>25 mg once a day in the morning with or without food</li> <li>switching from another methylphenidate product: reduce dose to next lower strength based on total daily dose; do not substitute on a mg for mg basis - pharmacokinetic profiles differ</li> </ul>			
	Dose Response <sup>\$</sup>	<ul> <li>US FDA: doses ≥ 70 mg/day in pediatrics and &gt; 85 mg/day in adults are associated with a disproportionate increase in the incidence of adverse events<sup>25</sup></li> </ul>			
	Dose Titration	<ul> <li>at intervals of no less than 5 days</li> </ul>			
	Maximum Dose	<ul> <li>70 mg/day (6 to 17 years), 100 mg/day (≥ 18 years)</li> <li>Health Canada approved a higher maximum dose of Foquest compared to other methylphenidate formulations because it has a lower absorption rate<sup>23</sup></li> </ul>			
	Administration	<ul> <li>swallow whole or open capsule and sprinkle onto a tablespoon (15 mL) of applesauce, ice cream or yogurt - consume within 10 minutes; do not sprinkle in liquids, crush or chew</li> </ul>			

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AMPHETAMINES <sup>1,2,6,7,13-17,26-31</sup>					
dextroamphetamine immediate-release	Indication	<ul> <li>ADHD: ages ≥ 6 years</li> </ul>			
DEXEDRINE, generics 5 mg IR tablets dextroamphetamine sustained-release	Initial Dosing	<ul> <li>IR tablets: 2.5 to 5 mg once or twice a day</li> <li>Spansule: may be used for once a day dosing</li> <li></li></ul>			
DEXEDRINE SPANSULE, generics 10, 15 mg SR capsules	Dose Response	not reported by Health Canada, US FDA			
pellets, biphasic: 40% IR, 60% SR	Dose Titration	<ul> <li>5 mg/day at weekly intervals; give additional IR tablet every 4 to 6 hours</li> </ul>			
<b>Cost per 30 days:</b> generic: \$10 to \$135; SR: \$30 to \$115 brand: \$15 to \$205; SR: \$40 to \$150	Maximum	<ul> <li>40 mg/day; only in rare cases will it be necessary to exceed a total of 40 mg/day</li> <li>↓ dose if GFR &lt; 30 mL/min/1.73 m<sup>2</sup>, dialysis</li> </ul>			
<b>BC PharmaCare:</b> Regular Benefit brand reimbursed up to the cost of generic	Administration	<ul> <li>pellets inside Spansule should not be crushed or chewed; opening not expected to compromise SR properties if pellets ingested immediately after opening<sup>26</sup></li> </ul>			
amphetamine mixed salts extended-release ADDERALL XR, generics 5, 10, 15, <b>20</b> <sup>s</sup> , 25, 30 mg ER capsules pellets, biphasic: 50% IR, 50% DR 3:1 dextroamphetamine/levoamphetamine salts <b>Cost per 30 days:</b>	Indication	<ul> <li>ADHD: ages ≥ 6 years</li> </ul>			
	Initial Dosing	<ul> <li>5 to 10 mg once a day in the morning with or without food; food delays Tmax by 2.5 hours, does not affect the extent of absorption</li> <li>              dose and monitor for serotonin toxicity if concomitant use of CYP2D6 inhibitors      </li> </ul>			
	Dose Response <sup>\$</sup>	<ul> <li>Health Canada, US FDA: inadequate evidence of additional efficacy for doses &gt; 20 mg/day in adolescents and adults<sup>7,27</sup></li> </ul>			
generic: \$20 to \$30 (20 mg: \$25)	Dose Titration	<ul> <li>5 to 10 mg/day at weekly intervals</li> </ul>			
brand: \$75 to \$125 (20 mg: \$105) BC PharmaCare: Limited Coverage generic only	Maximum Dose	<ul> <li>30 mg/day</li> <li>dose if GFR &lt; 30 mL/min/1.73 m<sup>2</sup> to a maximum of 20 mg/day; further reduce in dialysis</li> </ul>			
	Administration	<ul> <li>contents may be sprinkled onto applesauce - consume immediately; do not crush or chew</li> </ul>			
	Indication	<ul> <li>ADHD: ages ≥ 6 years</li> </ul>			
lisdexamfetamine VYVANSE 10, 20, <b>30</b> <sup>\$</sup> , 40, 50, 60 mg capsules 10, 20, <b>30</b> <sup>\$</sup> , 40, 50, 60 mg chewable tablets <b>Cost per 30 days:</b> generic: not available brand: \$70 to \$160 (30 mg: \$105) <b>BC Pharmacare:</b> Limited Coverage <i>capsules only</i>	Initial Dosing	<ul> <li>20 to 30 mg once a day in the morning with or without food; food delays Tmax by ~1 hour, does not affect the extent of absorption</li> <li>              dose and monitor for serotonin toxicity if concomitant use of CYP2D6 inhibitors      </li> </ul>			
	Dose Response <sup>\$</sup>	<ul> <li>Health Canada, US FDA: efficacy does not meaningfully increase at doses &gt; 30 mg/day but adverse events and discontinuations were more frequent at higher doses<sup>6,30,31</sup></li> </ul>			
	Dose Titration	10 to 20 mg/day at weekly intervals			
	Maximum Dose	<ul> <li>60 mg/day</li> <li>         dose if GFR &lt; 30 mL/min/1.73 m<sup>2</sup> to a maximum of 50 mg/day; further reduce in dialysis     </li> </ul>			
	Administration	<ul> <li>capsules: contents may be mixed with yogurt, water or orange juice - consume immediately</li> <li>chewable tablets: chew thoroughly before swallowing; should not be divided</li> </ul>			

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ATOMOXETINE <sup>1,2,8,17,18,32</sup>						
atomoxetine	Indication	<ul> <li>ADHD: ages ≥ 6 years; not officially indicated for use in combination with psychostimulants</li> </ul>				
	Initial Dosing	<ul> <li>~0.5 mg/kg/day (Step 1) for 7 to 14 days; body weight should be at least 20 kg</li> </ul>			Body Weight	Step 1 (~0.5 mg/kg/day)
					20 to 29 kg	10 mg/day
		<ul> <li>take as a single daily dose in the morning or divided BID, with or without food</li> </ul>		аей ыр,	30 to 44 kg	18 mg/day
		<ul> <li>         initial and target doses in moderate to severe     </li> </ul>			45 to 64 kg	25 mg/day
		hepatic impairment (Child-Pugh Class B: reduce to			> 65 kg	40 mg/day
STRATTERA, generics		50%; Child-Pugh Class C: reduce to 25% of normal dose)				
10, 18, 25, 40, 60, 80, 100 mg capsules	Dose Response	• Health Canada, US FDA: maximal effect at 1.2 mg/kg/day in children and adolescents $\leq$ 70 kg <sup>8,32</sup>				
Cost per 30 days: generic: \$20 to \$45 brand: discontinued BC PharmaCare: Limited Coverage	Dose Titration	<ul> <li>if tolerated, increase to Step 2 for 7 to 14 days, and then to Step 3 for 30 days (2 to 4 weeks if &gt; 70 kg), reassess</li> <li>↓ dose if concomitant strong CYP2D6 inhibitor (increase from initial dose</li> </ul>	Body Weight	Step 2 (~0.8 mg/kg/day)		Step 3 (~1.2 mg/kg/day)
			20 to 29 kg	18 mg/day		25 mg/day
			30 to 44 kg	25 mg/day		40 mg/day
			45 to 64 kg	40 mg/day		60 mg/day
			> 65 kg	60 mg/day		80 mg/day
		only if symptoms fail to improve after 14 days and initial dose well tolerated)				
	Maximum Dose	<ul> <li>1.4 mg/kg/day or 100 mg/day, whichever is less</li> </ul>				
	Administration	<ul> <li>do not open capsule, swallow whole</li> </ul>				

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GUANFACINE <sup>1,2,9,13,16,17,33-35</sup>						
	Indications	<ul> <li>ADHD monotherapy: ages 6 to 17 years</li> <li>ADHD adjunct to psychostimulants: ages 6 to 17 years</li> <li>safety and efficacy not established in children &lt; 25 kg</li> </ul>				
	Initial Dosing	<ul> <li>1 mg once a day in the morning or evening with a small amount of liquid</li> <li>do not take with high-fat meal: increases mean exposure (AUC ~40% and Cmax ~75%)</li> <li>do not take grapefruit, grapefruit juice or grapefruit extract during treatment with guanfacine</li> </ul>				
	Dose Response	<ul> <li>Health Canada, US FDA: efficacy and sedative adverse events (somnolence, sedation, hypersomnia, fatigue, lethargy, asthenia) increase with dose<sup>9,33-35</sup></li> </ul>				
	Dose Titration		Body Weight	Target Dose Range		
guanfacine extended-release		<ul> <li>by no more than 1 mg/week</li> </ul>	25 to 33.9 kg	2 to 3 mg/day		
NTUNIV XR, generics		<ul> <li>target dose range: 0.05 to 0.12 mg/kg/day</li> </ul>	34 to 41.4 kg	2 to 4 mg/day		
L, 2, 3, 4 mg tablets		<ul> <li>monitor blood pressure, heart rate and for sedation</li> </ul>	41.5 to 49.4 kg	3 to 5 mg/day		
Cost per 30 days: generic: \$85 to \$260 brand: \$100 to \$310 BC PharmaCare: Non-Benefit			49.5 to 58.4 kg	3 to 6 mg/day		
			≥ 58.5 kg	4 to 7 mg/day		
	Maximum Dose	<ul> <li>monotherapy: 4 mg/day (6 to 12 years), 7 mg/day (13 to 17 years); adjunct: 4 mg/day</li> <li> <ul> <li></li></ul></li></ul>				
	Administration	swallow whole; do not crush, chew or break				
	Tapering	<ul> <li>avoid abrupt withdrawal: risk of increase in blood pressure and heart rate (rebound)</li> <li>taper total daily dose by no more than 1 mg every 3 to 7 days</li> <li>monitor blood pressure and heart rate when initiating, increasing the dose, reducing the dose or discontinuing the drug</li> <li>use caution in prescribing other medications (e.g., stimulants) that can elevate blood pressure and heart rate immediately following guanfacine discontinuation</li> </ul>				

filtration rate; DR: delayed release; principal source of information: regulatory reviews and prescribing information from Health Canada and the US Food and Drug Administration

Cost per 30 days: does not include mark-up or professional fee; provided as a range which includes approximate cost for initial to maximum doses calculated from McKesson Canada, February 12, 2024

#### Management of Suspected Drug Overdose → Contact the British Columbia Drug and Poison Information Centre (DPIC)

http://www.dpic.org/

24 Hour Poison Information Line: 1-800-567-8911 or 604-682-5050

Drug Information Line for BC Healthcare Professionals Only: 1-866-298-5909 or 604-707-2787 (Monday to Friday, 9 am to 4 pm)

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