

Onset of Effect

- Defined by regulators as a statistically significant difference between drug and placebo on an ADHD symptom scale.^{1,2}
- Commonly-prescribed methylphenidate and amphetamine formulations have an onset of effect within hours,³⁻⁷ atomoxetine (Strattera) within 1 to 4 weeks⁸ and guanfacine (Intuniv XR) within 1 to 2 weeks.⁹

Dose Response and Titration

- Dose response relationships for ADHD medications are often not well characterized by Health Canada and the US FDA.^{1,2}
- 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.^{1,2}
- 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.¹

Duration of Effect

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

Generic Name, Brand Name, available strengths, dosage form, cost, coverage	ADHD Health Canada Indications, Dosage Considerations	
METHYLPHENIDATE ^{1,2,10,11,16,17}		
methylphenidate immediate-release RITALIN, generics 5, 10, 20 mg IR tablets methylphenidate extended-release RITALIN SR, generics 20 mg film-coated SR tablets Cost per 30 Days: generic: \$10 to \$30; SR: \$10 to \$30 brand: discontinued BC PharmaCare: Regular Benefit	Indication	<ul style="list-style-type: none"> ▪ ADHD: ages ≥ 6 years
	Initial Dosing	<ul style="list-style-type: none"> ▪ IR tablets: 5 to 10 mg BID or TID with or without food ▪ 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
	Dose Response	<ul style="list-style-type: none"> ▪ not reported by Health Canada, US FDA
	Dose Titration	<ul style="list-style-type: none"> ▪ 5 to 10 mg/day at weekly intervals
	Maximum Dose	<ul style="list-style-type: none"> ▪ 60 mg/day
	Administration	<ul style="list-style-type: none"> ▪ SR tablets: swallow whole, do not crush or chew

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.¹⁸ It is unclear which specific pharmacokinetic parameter (C_{max}, AUC, T_{max}) 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.¹²
- Like several methylphenidate sustained release products, Concerta methylphenidate ER provides a combination of immediate release (IR) and sustained release (SR) properties.^{1,12} 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.^{19,20} Small, single-dose bioavailability studies find modest differences in some of the pharmacokinetic parameters between these two generic products and the brand name.¹ We could not find applicable comparisons of these generics to the brand name product examining patient-important outcomes.

pad Attention Deficit Hyperactivity Disorder (ADHD) Medications Marketed in Canada for Ages 6 Years and Older (October 2022)

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 ^{1-5,12,16,17,21-25}		
<p>methylphenidate extended-release 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</p> <p>Cost per 30 Days: generic: \$20 to \$30 brand: \$95 to \$150</p> <p>BC PharmaCare: Limited Coverage <i>brand reimbursed up to the cost of generic</i></p>	Indication	<ul style="list-style-type: none"> ADHD: ages ≥ 6 years
	Initial Dosing	<ul style="list-style-type: none"> 18 mg once a day in the morning with or without food switching from IR or SR methylphenidate: see product monograph for dosing potential for gastrointestinal obstruction: should not be administered to patients with pre-existing gastrointestinal narrowing (obstruction)
	Dose Response	<ul style="list-style-type: none"> not reported by Health Canada, US FDA
	Dose Titration	<ul style="list-style-type: none"> at weekly intervals
	Maximum Dose	<ul style="list-style-type: none"> 54 mg/day (6 to 18 years), 72 mg/day (adults > 18 years)
	Administration	<ul style="list-style-type: none"> swallow whole with liquids; do not chew, divide or crush
<p>methylphenidate controlled-release BIPHENTIN 10, 15, 20, 30, 40, 50, 60, 80 mg CR capsules multi-layer release (MLR™) beads biphasic: 40% IR, 60% CR</p> <p>Cost per 30 Days: generic: not available brand: \$30 to \$175</p> <p>BC PharmaCare: Non-Benefit</p>	Indication	<ul style="list-style-type: none"> ADHD: ages ≥ 6 years
	Initial Dosing	<ul style="list-style-type: none"> 10 to 20 mg once a day in the morning with or without food 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)
	Dose Response	<ul style="list-style-type: none"> not reported by Health Canada, US FDA
	Dose Titration	<ul style="list-style-type: none"> 10 mg/day at weekly intervals
	Maximum Dose	<ul style="list-style-type: none"> 60 mg/day (6 to 18 years), 80 mg/day (adults)
	Administration	<ul style="list-style-type: none"> 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
<p>methylphenidate controlled-release FOQUEST 25, 35, 45, 55, 70[§], 85[§], 100 mg CR capsules multi-layer release (MLR®) beads biphasic: 20% IR, 80% CR</p> <p>Cost per 30 Days: generic: not available brand: \$95 to \$160 (70 mg: \$135; 85 mg: \$145)</p> <p>BC PharmaCare: Non-Benefit</p>	Indication	<ul style="list-style-type: none"> ADHD: ages ≥ 6 years
	Initial Dosing	<ul style="list-style-type: none"> 25 mg once a day in the morning with or without food 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
	Dose Response [§]	<ul style="list-style-type: none"> US FDA: doses ≥ 70 mg/day in pediatrics and > 85 mg/day in adults are associated with a disproportionate increase in the incidence of adverse events²⁵
	Dose Titration	<ul style="list-style-type: none"> at intervals of no less than 5 days
	Maximum Dose	<ul style="list-style-type: none"> 70 mg/day (6 to 17 years), 100 mg/day (≥ 18 years) Health Canada approved a higher maximum dose of Foquest compared to other methylphenidate formulations because it has a lower absorption rate²³
	Administration	<ul style="list-style-type: none"> 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

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AMPHETAMINES ^{1,2,6,7,13-17,26-31}		
<p>dextroamphetamine immediate-release DEXEDRINE, generics 5 mg IR tablets</p> <p>dextroamphetamine sustained-release DEXEDRINE SPANSULE, generics 10, 15 mg SR capsules pellets, biphasic: 40% IR, 60% SR</p> <p>Cost per 30 Days: generic: \$10 to \$135; SR: \$30 to \$115 brand: \$15 to \$205; SR: \$40 to \$150</p> <p>BC PharmaCare: Regular Benefit <i>brand reimbursed up to the cost of generic</i></p>	<p>Indication</p> <p>Initial Dosing</p> <p>Dose Response</p> <p>Dose Titration</p> <p>Maximum</p> <p>Administration</p>	<ul style="list-style-type: none"> ▪ ADHD: ages ≥ 6 years ▪ IR tablets: 2.5 to 5 mg once or twice a day ▪ Spansule: may be used for once a day dosing <ul style="list-style-type: none"> ▪ ↓ dose and monitor for serotonin toxicity if concomitant use of CYP2D6 inhibitors ▪ not reported by Health Canada, US FDA ▪ 5 mg/day at weekly intervals; give additional IR tablet every 4 to 6 hours ▪ 40 mg/day; only in rare cases will it be necessary to exceed a total of 40 mg/day <ul style="list-style-type: none"> ▪ ↓ dose if GFR < 30 mL/min/1.73 m², dialysis ▪ pellets inside Spansule should not be crushed or chewed; opening not expected to compromise SR properties if pellets ingested immediately after opening²⁶
<p>amphetamine mixed salts extended-release ADDERALL XR, generics 5, 10, 15, 20^s, 25, 30 mg ER capsules pellets, biphasic: 50% IR, 50% DR 3:1 dextroamphetamine/levoamphetamine salts</p> <p>Cost per 30 Days: generic: \$20 to \$30 (20 mg: \$25) brand: \$70 to \$120 (20 mg: \$100)</p> <p>BC PharmaCare: Limited Coverage <i>generic only</i></p>	<p>Indication</p> <p>Initial Dosing</p> <p>Dose Response^s</p> <p>Dose Titration</p> <p>Maximum Dose</p> <p>Administration</p>	<ul style="list-style-type: none"> ▪ ADHD: ages ≥ 6 years ▪ 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 <ul style="list-style-type: none"> ▪ ↓ dose and monitor for serotonin toxicity if concomitant use of CYP2D6 inhibitors ▪ Health Canada, US FDA: inadequate evidence of additional efficacy for doses > 20 mg/day in adolescents and adults^{7,27} ▪ 5 to 10 mg/day at weekly intervals ▪ 30 mg/day <ul style="list-style-type: none"> ▪ ↓ dose if GFR < 30 mL/min/1.73 m² to a maximum of 20 mg/day; further reduce in dialysis ▪ contents may be sprinkled onto applesauce - consume immediately; do not crush or chew
<p>lisdexamfetamine VYVANSE 10, 20, 30^s, 40, 50, 60 mg capsules 10, 20, 30^s, 40, 50, 60 mg chewable tablets</p> <p>Cost per 30 Days: generic: not available brand: \$90 to \$160 (30 mg: \$105)</p> <p>BC Pharmacare: Limited Coverage <i>capsules only</i></p>	<p>Indication</p> <p>Initial Dosing</p> <p>Dose Response^s</p> <p>Dose Titration</p> <p>Maximum Dose</p> <p>Administration</p>	<ul style="list-style-type: none"> ▪ ADHD: ages ≥ 6 years ▪ 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 <ul style="list-style-type: none"> ▪ ↓ dose and monitor for serotonin toxicity if concomitant use of CYP2D6 inhibitors ▪ Health Canada, US FDA: efficacy does not meaningfully increase at doses > 30 mg/day but adverse events and discontinuations were more frequent at higher doses^{6,30,31} ▪ 10 to 20 mg/day at weekly intervals ▪ 60 mg/day <ul style="list-style-type: none"> ▪ ↓ dose if GFR < 30 mL/min/1.73 m² to a maximum of 50 mg/day; further reduce in dialysis ▪ capsules: contents may be mixed with yogurt, water or orange juice - consume immediately ▪ chewable tablets: chew thoroughly before swallowing; should not be divided

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ATOMOXETINE ^{1,2,8,17,18,32}				
<p>atomoxetine STRATTERA, generics 10, 18, 25, 40, 60, 80, 100 mg capsules</p> <p>Cost per 30 Days: generic: \$20 to \$45 brand: \$105 to \$195</p> <p>BC PharmaCare: Limited Coverage generic only</p>	Indication	<ul style="list-style-type: none"> ADHD: ages ≥ 6 years; not officially indicated for use in combination with psychostimulants 		
	Initial Dosing	<ul style="list-style-type: none"> ~0.5 mg/kg/day (Step 1) for 7 to 14 days; body weight should be at least 20 kg take as a single daily dose in the morning or divided BID, with or without food <ul style="list-style-type: none"> ↓ initial and target doses in moderate to severe hepatic impairment (Child-Pugh Class B: reduce to 50%; Child-Pugh Class C: reduce to 25% of normal dose) 	Body Weight	Step 1 (~0.5 mg/kg/day)
	20 to 29 kg		10 mg/day	
	30 to 44 kg		18 mg/day	
	45 to 64 kg		25 mg/day	
	> 65 kg	40 mg/day		
Dose Response	<ul style="list-style-type: none"> Health Canada, US FDA: maximal effect at 1.2 mg/kg/day in children and adolescents ≤ 70 kg^{8,32} 			
Dose Titration	<ul style="list-style-type: none"> if tolerated, increase to Step 2 for 7 to 14 days, and then to Step 3 for 30 days (2 to 4 weeks if > 70 kg), reassess <ul style="list-style-type: none"> ↓ dose if concomitant strong CYP2D6 inhibitor (increase from initial dose only if symptoms fail to improve after 14 days and initial dose well tolerated) 	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	
Maximum Dose	<ul style="list-style-type: none"> 1.4 mg/kg/day or 100 mg/day, whichever is less 			
Administration	<ul style="list-style-type: none"> do not open capsule, swallow whole 			

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GUANFACINE ^{1,2,9,13,16,17,33-35}				
<p>guanfacine extended-release INTUNIV XR, generics 1, 2, 3, 4 mg tablets</p> <p>Cost per 30 Days: generic: \$85 to \$260 brand: \$100 to \$310</p> <p>BC PharmaCare: Non-Benefit</p>	Indications	<ul style="list-style-type: none"> ADHD monotherapy: ages 6 to 17 years ADHD adjunct to psychostimulants: ages 6 to 17 years safety and efficacy not established in children < 25 kg 		
	Initial Dosing	<ul style="list-style-type: none"> 1 mg once a day in the morning or evening with a small amount of liquid do not take with high-fat meal: increases mean exposure (AUC ~40% and Cmax ~75%) do not take grapefruit, grapefruit juice or grapefruit extract during treatment with guanfacine 		
	Dose Response	<ul style="list-style-type: none"> Health Canada, US FDA: efficacy and sedative adverse events (somnolence, sedation, hypersomnia, fatigue, lethargy, asthenia) increase with dose^{9,33-35} 		
	Dose Titration	<ul style="list-style-type: none"> by no more than 1 mg/week target dose range: 0.05 to 0.12 mg/kg/day monitor blood pressure, heart rate and for sedation 	Body Weight	Target Dose Range
	25 to 33.9 kg		2 to 3 mg/day	
	34 to 41.4 kg		2 to 4 mg/day	
	41.5 to 49.4 kg		3 to 5 mg/day	
49.5 to 58.4 kg			3 to 6 mg/day	
≥ 58.5 kg		4 to 7 mg/day		
Maximum Dose	<ul style="list-style-type: none"> monotherapy: 4 mg/day (6 to 12 years), 7 mg/day (13 to 17 years); adjunct: 4 mg/day <ul style="list-style-type: none"> ↓ dose if significant renal and/or hepatic impairment ↓ dose if concomitant use of moderate/strong CYP3A4/3A5 inhibitors (initial 50% reduction) ↑ dose if concomitant use of strong CYP3A4 inducers (up to a maximum of 7 mg) 			
Administration	<ul style="list-style-type: none"> swallow whole; do not crush, chew or break 			
Tapering	<ul style="list-style-type: none"> avoid abrupt withdrawal: risk of increase in blood pressure and heart rate (rebound) taper total daily dose by no more than 1 mg every 3 to 7 days monitor blood pressure and heart rate when initiating, increasing the dose, reducing the dose or discontinuing the drug use caution in prescribing other medications (e.g., stimulants) that can elevate blood pressure and heart rate immediately following guanfacine discontinuation 			
<p>US FDA: United States Food and Drug Administration; IR: immediate release; SR: sustained release; BID: twice a day; TID: three times a day; Cmax: maximum plasma concentration; AUC: area under the curve; Tmax: time to maximum observed plasma concentration; ER/XR: extended release; OROS®: Osmotic Controlled-Release Oral Delivery system; CR: controlled release; CYP: Cytochrome P450; GFR: glomerular filtration rate; DR: delayed release; principal source of information: regulatory reviews and prescribing information from Health Canada and the US Food and Drug Administration</p>				
<p>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, Aug 17, 2022.</p>				

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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