

Atomoxetine

Strattera

Selective norepinephrine reuptake inhibitor for ADHD; no abuse liability, but effect is smaller and slower than with stimulants.

USUAL ADULT RANGE 40-100 mg/day PO	HALF-LIFE 5 h; 22 h if CYP2D6 PM	METABOLISM CYP2D6 substrate; CYP2C19	ONSET 1-2 wks; 4-6 wks full effect
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FDA BOXED WARNING

Suicidal ideation in children and adolescents: atomoxetine increased suicidal ideation in short-term pediatric trials (0.4 percent versus none with placebo, no completed suicides). Monitor closely for suicidality, clinical worsening, and unusual behavior change, especially early in treatment and after dose changes.

INDICATIONS

- FDA-approved for attention-deficit/hyperactivity disorder in children age 6 years and older, adolescents, and adults as monotherapy.
- First-line non-stimulant when there is active substance misuse, diversion risk, or a patient or family preference against controlled substances.
- Preferred when stimulants worsen comorbid anxiety, tics, or insomnia, since atomoxetine does not aggravate these and covers 24 hours.
- Used off-label as an add-on to a stimulant for residual evening or early morning symptoms, though combination data remain limited.
- Used off-label for ADHD symptoms in adults with comorbid anxiety disorders, where trials show benefit for both symptom domains.
- Not effective for narcolepsy, binge eating disorder, or as an antidepressant, despite its noradrenergic mechanism.

DOSING & TITRATION

- Children and adolescents up to 70 kg: start **0.5 mg/kg/day** PO, increase after at least 3 days to a target of about **1.2 mg/kg/day**.
- Maximum in patients up to 70 kg is **1.4 mg/kg/day** or **100 mg/day**, whichever is less, given once in the morning or split twice daily.
- Adults and patients over 70 kg: start **40 mg/day**, increase after at least 3 days to **80 mg/day**, with a maximum of **100 mg/day**.
- Known CYP2D6 poor metabolizers and patients on strong CYP2D6 inhibitors should start at 0.5 mg/kg/day and increase only after 4 weeks.
- Hepatic impairment: reduce to 50 percent of the usual dose in Child-Pugh class B and to 25 percent in Child-Pugh class C.
- No taper is needed on discontinuation, and no rebound hyperactivity or withdrawal syndrome occurs when it is stopped.

ADVERSE EFFECTS

- Nausea, decreased appetite, dry mouth, fatigue, insomnia, and dizziness are the common effects and often improve after the first few weeks.
- Adults report urinary hesitancy or retention, erectile dysfunction, and dysmenorrhea more often than children do.
- Small mean rises in heart rate of about 5-10 bpm and in blood pressure of 2-4 mmHg, with orthostatic hypotension and syncope reported.
- Severe hepatic injury is rare but real, presenting as jaundice, dark urine, or transaminase elevation and requiring permanent discontinuation.
- Priapism has been reported in children and adults, and any erection lasting over 4 hours needs urgent evaluation.
- Growth in children slows early, with weight and height typically returning toward baseline percentiles over 2-3 years of treatment.

MONITORING

- Baseline and periodic height, weight, blood pressure, and pulse, including orthostatic vitals in patients reporting dizziness.
- Ask about suicidal thoughts, agitation, irritability, and unusual behavior at every visit in the first months, especially in youth.
- Liver chemistry is not required routinely, but obtain transaminases and bilirubin promptly for jaundice, dark urine, or right upper quadrant pain.
- Use a validated rating scale at baseline and at 4 and 8 weeks, because a fair trial takes at least 6 weeks at target dose.
- Consider CYP2D6 genotyping when adverse effects appear at low dose or when there is no response at maximal dose.

INTERACTIONS & CAUTIONS

- Contraindicated within 14 days of an MAOI because of the risk of serious, sometimes fatal, hypertensive and hyperthermic reactions.
- Strong CYP2D6 inhibitors such as paroxetine, fluoxetine, bupropion, and quinidine raise exposure several-fold, so titrate slowly and cap the dose.
- Contraindicated in narrow-angle glaucoma, pheochromocytoma, and severe cardiovascular disease including serious structural cardiac abnormality.
- Pressor agents including albuterol and decongestants can produce additive increases in blood pressure and heart rate.
- Additive cardiovascular effects with stimulants and with drugs that prolong the QT interval warrant closer vital sign monitoring.

SPECIAL POPULATIONS

- Pregnancy: human data are limited and no clear teratogenic pattern is known; use only when the benefit justifies the potential fetal risk.
- Lactation: minimal published data on transfer into human milk, so monitor the breastfed infant for irritability and poor feeding.
- Pediatric: approved from age 6 years; the suicidality boxed warning applies specifically to children and adolescents.
- Geriatric: safety and effectiveness have not been established in patients over 65, and orthostatic effects are more consequential.
- Hepatic impairment requires substantial dose reduction, while renal impairment does not require dose adjustment.

PRESCRIBING PEARLS

- It is not a rescue drug; judge it at 6 weeks on target dose, not at week 1.
- Fluoxetine or paroxetine turns almost any patient into a CYP2D6 poor metabolizer; start low.
- Dosing at night with food often solves both the nausea and the sedation complaints.

References

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NOTE

References follow APA 7th edition style. Dosing, boxed warnings, and interaction data change; confirm every clinical decision against the current FDA prescribing information (DailyMed) and your institution's formulary. This sheet is an educational quick reference and does not replace the full label or clinical judgment.