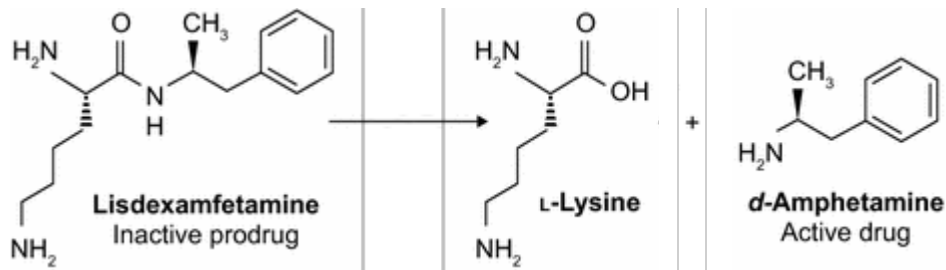


## Lisdexamfetamine (Vyvanse®)



**Mechanism of action:** dopamine and norepinephrine reuptake inhibitor and releaser

**FDA-approved uses:** ADHD (ages 6 and older) and binge-eating disorder (in adults)

**Off-label uses:** narcolepsy, treatment-resistant depression, amotivational states in dementia

**Dosing and formulation:** 30-70mg/day, start at 20-30mg/day and increase by 10-20mg each week.

Available as capsules (which may be sprinkled if consumed immediately) and chewable tablets.

A weak base that is renally eliminated: reduce doses with renal impairment, acidifying agents increase clearance, alkalinizing agents decrease clearance. Minor CYP2D6 substrate: lower dose or discontinue with inhibitor. Contraindicated with hypersensitivity to amphetamines or concurrent MAOI.

**Time to peak:** 1 hour for lisdexamfetamine, 3.5 hours for dextroamphetamine

**Duration of clinical action:** 10-13 hours

### Side effects:

*Frequent or bothersome:* **insomnia**, headache, [exacerbation of tics](#), anxiety, irritability, dizziness, tachycardia, hypertension, **decreased appetite**, **weight loss**, nausea, vomiting, diarrhea, upper abdominal pain, dry mouth, emotional lability

*Rare but serious:* psychosis (especially with parenteral abuse), mania or suicidal ideation, seizures, serotonin syndrome, hypertensive crisis, peripheral vasculopathy, cardiovascular adverse effects including **sudden death in patients with pre-existing cardiac structural abnormalities often associated with a family history of cardiac disease** (consider ECG with such history)

**Monitoring:** height, weight, blood pressure, heart rate (have lower threshold for cardiac evaluation)

Special considerations:

- **Sedation** is possible from the medication keeping them up at night or not getting enough calories. **Insomnia** is not always due to the medication but may result from relapse, rebound, or withdrawal effects which improve with additional late-day small dose of a short-acting stimulant.
- For **appetite/weight loss**, consider giving medication after breakfast, supplementing with [high calorie](#) meals and snacks, stopping the medication temporarily, or adding cyproheptadine.
- Has **less abuse potential** compared to other stimulants due to the delayed time to peak and a longer duration of action.