

Select one drug to treat the diagnosis(es) or symptoms.

Adderall

List medication class and mechanism of action for the chosen medication

Adderall is a prescription medication that contains two drugs: [amphetamine](#) and dextroamphetamine. It belongs to a class of medications called stimulants. It functions by increasing the amounts of dopamine, norepinephrine, and serotonin in the synaptic cleft through a variety of mechanisms (Stahl, 2021). Adderall enters the presynaptic axon terminal through diffusion or uptake by the monoamine transporters DAT, NET, and SERT (Stahl, 2021). Once inside the presynaptic terminal, amphetamine increases the amounts of monoamine neurotransmitters in the cytosol through the inhibition of vesicular monoamine transporter 2 (VMAT2) as well as through disruption of the electrochemical gradients necessary for vesicular transporter function (Stahl, 2021).

Write the prescription in prescription format.

Today's Date: 08/13/2023

Patient name: XXXXXX

Date of Birth: Case study

Rx: Adderall 10mg tablet

Sig: Take 1 tablet PO

QAM Disp: 30 (thirty)

tablets Refill: 0

Diagnosis: (F90.2) Attention-Deficit/Hyperactivity Disorder, Combined Presentation

Prescriber Name: Lisa Patel

License number: 012345678

DEA number: 012345678

Family will be instructed to come back in after 7 days for reevaluation and assessment for possible medication dose changes.

Provide an evidence-based rationale for the selected medication using at least one scholarly reference.

Prescription stimulants are often used to treat attention deficit hyperactivity disorder. Drugs like dextroamphetamine amphetamine (Adderall) affects ADHD by reducing impulsivity and improving a person's attention and focus. In addition to improving core symptoms of ADHD, it also improves cognitive and behavioral deficits associated with ADHD, such as impaired academic performance, social function, low self-esteem, and inadequate family or peer interactions (Brown et al., 2018).

For children 6 years of age and older, the recommendations include medication and behavior therapy together (Martin & Le, 2022). Early treatment with both may decrease negative outcomes of ADHD. Behavior therapy is an effective treatment for ADHD that can improve a child's behavior, self-control, and self-esteem (Martin & Le, 2022).