

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all of the information needed to use DEXTROAMPHETAMINE SACCHARATE, AMPHETAMINE ASPARTATE MONOHYDRATE, DEXTROAMPHETAMINE SULFATE and AMPHETAMINE SULFATE EXTENDED-RELEASE CAPSULES safely and effectively. See full prescribing information for DEXTROAMPHETAMINE SACCHARATE, AMPHETAMINE ASPARTATE MONOHYDRATE, DEXTROAMPHETAMINE SULFATE and AMPHETAMINE SULFATE EXTENDED-RELEASE CAPSULES.

DEXTROAMPHETAMINE SACCHARATE, AMPHETAMINE ASPARTATE MONOHYDRATE, DEXTROAMPHETAMINE SULFATE and AMPHETAMINE SULFATE (mixed salts of a single-entity amphetamine product) extended-release capsules, for oral use, CII

Initial U.S. Approval: 2001

WARNING: ABUSE AND DEPENDENCE

See full prescribing information for complete boxed warning

CNS stimulants, including dextroamphetamine saccharate, amphetamine aspartate monohydrate, dextroamphetamine sulfate and amphetamine sulfate extended-release capsules, other amphetamine-containing products, and methamphetamine, have a high potential for abuse and dependence (5.1, 8.3)

Assess the risk of abuse prior to prescribing and monitor for signs of abuse and dependence while on therapy (8.2, 9.3).

RECENT MAJOR CHANGES

Boxed Warning 7/2019

Dosage and Administration (2.1) 7/2019

Warnings and Precautions (5.1) 7/2019

INDICATIONS AND USAGE

Dextroamphetamine saccharate, amphetamine aspartate monohydrate, dextroamphetamine sulfate and amphetamine sulfate extended-release capsules, a CNS stimulant, is indicated for the treatment of attention deficit hyperactivity disorder (ADHD). (1)

Children (ages 6-12): Efficacy was established in one 3-week outpatient, controlled trial and one analogue classroom, controlled trial in children with ADHD. (14)

Adolescents (ages 13-17): Efficacy was established in one 4-week controlled trial in adolescents with ADHD. (14)

Adults: Efficacy was established in one 4-week controlled trial in adults with ADHD. (14)

DOSAGE AND ADMINISTRATION

Pediatric patients (ages 6-17): 10 mg once daily in the morning. Maximum dose for children 6-12 years of age is 30 mg once daily. (2.2, 2.3, 2.4)

Adults: 20 mg once daily in the morning. (2.5)

Pediatric patients (ages 6-17) with severe renal impairment: 5 mg once daily in the morning. Maximum dose for children 6-12 years of age with severe renal impairment is 20 mg once daily. (2.6, 8.6)

Adults with severe renal impairment: 15 mg once daily in the morning. (2.6, 8.6)

Patients with ESRD: not recommended. (2.6, 8.6)

DOSAGE FORMS AND STRENGTHS

Extended release capsules: 5 mg, 10 mg, 15 mg, 20 mg, 25 mg, 30 mg (3)

CONTRAINDICATIONS

Advanced arteriosclerosis (4)

Symptomatic cardiovascular disease (4)

Moderate to severe hypertension (4)

Hyperthyroidism (4)

Known hypersensitivity or idiosyncrasy to amphetamine (4)

Glaucoma (4)

Agitated states (4)

History of drug abuse (4)

During or within 14 days following the administration of monoamine oxidase inhibitors (MAOI) (4, 7.1)

FULL PRESCRIBING INFORMATION: CONTENTS

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were given b.i.d. for total daily doses of 4, 12, or 40 mg/kg. The latter doses are approximately 0.6, 2, and 6 times the MRHD of 30 mg/day given to children on a mg/m<sup>2</sup> basis. Post dosing hyperactivity was seen at all doses; motor activity measured prior to the daily dose was decreased during the dosing period but the decreased motor activity was largely absent after an 18 day drug-free recovery period. Performance in the Morris water maze test for learning and memory was impaired at the 40 mg/kg dose, and sporadically at the lower doses, when measured prior to the daily dose during the treatment period; no recovery was seen after a 19 day drug-free period. A delay in the developmental milestones of vaginal opening and preputial separation was seen at 4.0 mg/kg but there was no effect on fertility.

#### 5.5 Geriatric Use

Dextroamphetamine saccharate, amphetamine aspartate monohydrate, dextroamphetamine sulfate and amphetamine sulfate extended-release capsules has not been studied in the geriatric population.

#### 6.6 Renal Impairment

Due to reduced clearance of amphetamines in patients with severe renal impairment (GFR 15 to <30 mL/min/1.73m<sup>2</sup>), the recommended dose should be reduced. Dextroamphetamine saccharate, amphetamine aspartate monohydrate, dextroamphetamine sulfate and amphetamine sulfate extended-release capsules is not recommended in patients with ESRD (GFR < 15 mL/min/1.73m<sup>2</sup>) *[see Dosage and Administration (2.5), Clinical Pharmacology (12.3)].*

d-Amphetamine is not dialyzable.

#### 9 DRUG ABUSE AND DEPENDENCE

##### 9.1 Controlled Substance

Dextroamphetamine saccharate, amphetamine aspartate monohydrate, dextroamphetamine sulfate and amphetamine sulfate extended-release capsules contains amphetamine, a Schedule II controlled substance.

##### 9.2 Abuse

Dextroamphetamine saccharate, amphetamine aspartate monohydrate, dextroamphetamine sulfate and amphetamine sulfate extended-release capsules is a CNS stimulant that contains amphetamine, which has a high potential for abuse. Abuse is characterized by impaired control of drug use, compulsive use, despite harm, and craving.

Signs and symptoms of amphetamine abuse may include increased heart rate, respiratory rate, blood pressure, and/or sweating, dilated pupils, hyperactivity, restlessness, insomnia, decreased appetite, loss of coordination, tremors, flushed skin, vomiting, and/or abdominal pain. Anxiety, psychosis, hostility, aggression, suicidal or homicidal ideation have also been observed. Abusers of amphetamines may use other unapproved routes of administration which can result in overdose and death *[see Overdosage (10)]*.

To reduce the abuse of CNS stimulants, including dextroamphetamine saccharate, amphetamine aspartate monohydrate, dextroamphetamine sulfate and amphetamine sulfate extended-release capsules, assess the risk of abuse prior to prescribing. After prescribing, keep careful prescription records, educate patients and their families about abuse and proper storage and disposal of CNS stimulants. Monitor for signs of abuse while on therapy and re-evaluate the need for dextroamphetamine saccharate, amphetamine aspartate monohydrate, dextroamphetamine sulfate and amphetamine sulfate extended-release capsules use.

##### 9.3 Dependence

Tolerance (a state of adaptation in which exposure to a specific dose of a drug results in a reduction of the drug's desired and/or undesired effects over time, in such a way that a higher dose of the drug is required to produce the same effect that was once obtained at a lower dose) may occur during chronic therapy of CNS stimulants including dextroamphetamine saccharate, amphetamine aspartate monohydrate, dextroamphetamine sulfate and amphetamine sulfate extended-release capsules.

Physical Dependence (which is manifested by a withdrawal syndrome produced by abrupt cessation, rapid dose reduction, or administration of an antagonist) may occur in patients treated with CNS stimulants including dextroamphetamine saccharate, amphetamine aspartate monohydrate, dextroamphetamine sulfate and amphetamine sulfate extended-release capsules. Withdrawal symptoms after abrupt cessation of CNS stimulants include dysphoric mood; fatigue; vivid, unpleasant dreams; insomnia or hypersomnia; increased appetite; and psychomotor retardation or agitation.

#### 10 OVERDOSAGE

Manifestations of amphetamine overdose include restlessness, tremor, hyperreflexia, rapid respiration, confusion, assaultiveness, hallucinations, panic states, hyperpyrexia and rhabdomyolysis. Fatigue and depression usually follow the central nervous system stimulation. Serotonin syndrome has been reported with amphetamine use, including dextroamphetamine saccharate, amphetamine aspartate monohydrate, dextroamphetamine sulfate and amphetamine sulfate extended-release capsules. Cardiovascular effects include arrhythmias, hypertension or hypotension and circulatory collapse. Gastrointestinal symptoms include nausea, vomiting, diarrhea and abdominal cramps. Fatal poisoning is usually preceded by convulsions and coma.

##### Treatment

Consult with a Certified Poison Control Center for up to date guidance and advice.

The prolonged release of mixed amphetamine salts from dextroamphetamine saccharate, amphetamine aspartate monohydrate, dextroamphetamine sulfate and amphetamine sulfate extended-release capsules should be considered when treating patients with overdose.

d-Amphetamine is not dialyzable.

#### 11 DESCRIPTION

Dextroamphetamine saccharate, amphetamine aspartate monohydrate, dextroamphetamine sulfate and amphetamine sulfate extended-release capsules contain mixed salts of a single-enantiomer amphetamine, a CNS stimulant. Dextroamphetamine saccharate, amphetamine aspartate monohydrate, dextroamphetamine sulfate and amphetamine sulfate extended-release capsules contains equal parts of dextroamphetamine sulfate and amphetamine sulfate extended-release capsules. Cardiovascular effects include arrhythmias, hypertension or hypotension and circulatory collapse. Gastrointestinal symptoms include nausea, vomiting, diarrhea and abdominal cramps. Fatal poisoning is usually preceded by convulsions and coma.

The 5 mg, 10 mg, 15 mg, 20 mg, 25 mg and 30 mg strength extended release capsules are for oral administration. Dextroamphetamine saccharate, amphetamine aspartate monohydrate, dextroamphetamine sulfate and amphetamine sulfate extended-release capsules contain mixed salts of a single-enantiomer amphetamine, a CNS stimulant. Dextroamphetamine saccharate, amphetamine aspartate monohydrate, dextroamphetamine sulfate and amphetamine sulfate extended-release capsules contain equal parts of dextroamphetamine sulfate and amphetamine sulfate extended-release capsules. Cardiovascular effects include arrhythmias, hypertension or hypotension and circulatory collapse. Gastrointestinal symptoms include nausea, vomiting, diarrhea and abdominal cramps. Fatal poisoning is usually preceded by convulsions and coma.

Capsule Strength	5 mg	10 mg	15 mg	20 mg	25 mg	30 mg
Dextroamphetamine Saccharate	1.25 mg	2.5 mg	3.75 mg	5.0 mg	6.25 mg	7.5 mg
Amphetamine (D,L)-Aspartate Monohydrate	1.25 mg	2.5 mg	3.75 mg	5.0 mg	6.25 mg	7.5 mg
Dextroamphetamine Sulfate	1.25 mg	2.5 mg	3.75 mg	5.0 mg	6.25 mg	7.5 mg
Amphetamine Sulfate	1.25 mg	2.5 mg	3.75 mg	5.0 mg	6.25 mg	7.5 mg
Total amphetamine base equivalence mg	3.1 mg	6.3 mg	9.4 mg	12.5 mg	15.6 mg	18.8 mg
d-amphetamine base equivalence mg	2.4 mg	4.7 mg	7.1 mg	9.5 mg	11.9 mg	14.2 mg
l-amphetamine base equivalence mg	0.75 mg	1.5 mg	2.3 mg	3.0 mg	3.8 mg	4.5 mg

##### Inactive Ingredients and Colors

The inactive ingredients in dextroamphetamine saccharate, amphetamine aspartate monohydrate, dextroamphetamine sulfate and amphetamine sulfate extended-release capsules include: Sugar spheres, hydroxy propyl methyl cellulose, hydroxy triethyl citrate, methacrylic acid-ethyl acrylate copolymer, hard gelatin capsules, Titanium dioxide, polyethylene glycol, iron oxide yellow, polysorbate 80, iron oxide red. The 5 mg capsule shell contain Titanium dioxide, FD & C Blue 1, FD & C Red 40, gelatin and sodium lauryl sulfate. The 10 mg capsule shell contain Titanium dioxide, FD & C Blue 1, FD & C Red 40, gelatin, sodium lauryl sulfate and D&C Red 28. The 15 mg capsule shell contain Titanium dioxide, FD & C Blue 1, D & C Red 28, gelatin and sodium lauryl sulfate. The 20 mg capsule shell contain Titanium dioxide, FD & C Red 3, FD & C Yellow 6, FD & C Blue 1, gelatin, sodium lauryl sulfate and FD & C Red 40. The 25 mg capsule shell contain Titanium dioxide, FD & C Red 40, FD & C Yellow 6, gelatin, sodium lauryl sulfate. The 30 mg capsule shell contain Titanium dioxide, FD & C Yellow 6, D & C Yellow 10, sodium lauryl sulfate and gelatin. The ink ingredients common for all strengths are shellac, dehydrated alcohol, isopropyl alcohol, butyl alcohol, propylene glycol, strong ammonia solution, black iron oxide, potassium hydroxide.

#### 12 CLINICAL PHARMACOLOGY

##### 12.1 Mechanism of Action

Amphetamines are non-catecholamine sympathomimetic amines with CNS stimulant activity. The mode of therapeutic action in ADHD is not known.

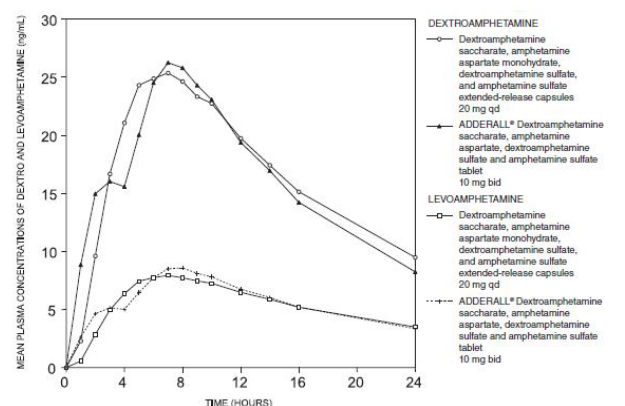
##### 12.2 Pharmacodynamics

Amphetamines block the reuptake of norepinephrine and dopamine into the presynaptic neuron and increase the release of these monoamines into the extraneuronal space.

##### 12.3 Pharmacokinetics

Pharmacokinetic studies of dextroamphetamine saccharate, amphetamine aspartate monohydrate, dextroamphetamine sulfate and amphetamine sulfate extended-release capsules have been conducted in healthy adult and pediatric (children aged 6-12 yrs) subjects, and adolescent (13-17 yrs) children with ADHD. Both dextroamphetamine saccharate, amphetamine aspartate, dextroamphetamine sulfate and amphetamine sulfate (immediate-release) tablets and dextroamphetamine saccharate, amphetamine aspartate monohydrate, dextroamphetamine sulfate and amphetamine sulfate extended-release capsules contain d-amphetamine and l-amphetamine salts in the ratio of 3:1. Following administration of dextroamphetamine saccharate, amphetamine aspartate, dextroamphetamine sulfate and amphetamine sulfate (immediate-release), the peak plasma concentrations occurred in about 3 hours for both d-amphetamine and l-amphetamine.

The time to reach maximum plasma concentration (T<sub>max</sub>) for dextroamphetamine saccharate, amphetamine aspartate monohydrate, dextroamphetamine sulfate and amphetamine sulfate extended-release capsules is about 7 hours, which is about 4 hours longer compared to dextroamphetamine saccharate, amphetamine aspartate, dextroamphetamine sulfate and amphetamine sulfate (immediate-release). This is consistent with the extended-release nature of the product.



**Figure 1 Mean d-amphetamine and l-amphetamine Plasma Concentrations Following Administration of Dextroamphetamine Saccharate, Amphetamine Aspartate Monohydrate, Dextroamphetamine Sulfate and Amphetamine Sulfate Extended-Release Capsules 20 mg (8 am) and Dextroamphetamine Saccharate, Amphetamine Aspartate, Dextroamphetamine Sulfate and Amphetamine Sulfate Tablets (Immediate-release) 10 mg Twice Daily (8 am and 12 noon) in the Fed State.**  
A single dose of dextroamphetamine saccharate, amphetamine aspartate monohydrate, dextroamphetamine sulfate and amphetamine sulfate extended-release capsules 20 mg extended

release capsules provided comparable plasma concentration profiles of both d-amphetamine and l-amphetamine to dextroamphetamine saccharate, amphetamine aspartate, dextroamphetamine sulfate and amphetamine sulfate (immediate-release) 10 mg twice daily administered 4 hours apart.

The mean elimination half-life for d-amphetamine is 10 hours in adults; 11 hours in adolescents aged 13-17 years and weighing less than or equal to 75 kg/165 lbs; and 9 hours in children aged 6 to 12 years. For the l-amphetamine, the mean elimination half-life in adults is 13 hours; 13 to 14 hours in adolescents; and 11 hours in children aged 6 to 12 years. On a mg/kg body weight basis, children have a higher clearance than adolescents or adults *[see Special Populations below]*.

Dextroamphetamine saccharate, amphetamine aspartate monohydrate, dextroamphetamine sulfate and amphetamine sulfate extended-release capsules demonstrates linear pharmacokinetics over the dose range of 20 to 60 mg in adults and adolescents weighing greater than 75 kg/165 lbs, over the dose range of 10 to 40 mg in adolescents weighing less than or equal to 75 kg/165 lbs, and 5 to 30 mg in children aged 6 to 12 years. There is no unexpected accumulation at steady state in children.

Food does not affect the extent of absorption of d-amphetamine and l-amphetamine, but prolongs T<sub>max</sub> by 2.5 hours (from 5.2 hrs at fastest state to 7.7 hrs after a high fat meal) for d-amphetamine and 2.7 hours (from 5.6 hrs at fastest state to 8.3 hrs after a high fat meal) for l-amphetamine after administration of dextroamphetamine saccharate, amphetamine aspartate monohydrate, dextroamphetamine sulfate and amphetamine sulfate extended-release capsules 30 mg. Opening the capsule and sprinkling the contents on applesauce results in comparable absorption to the intact capsule taken in the fasted state. Equal doses of dextroamphetamine saccharate, amphetamine aspartate monohydrate, dextroamphetamine sulfate and amphetamine sulfate extended-release capsules strengths are bioequivalent.

##### Metabolism and Excretion

Amphetamine is reported to be oxidized at the 4 position of the benzene ring to form 4-hydroxyamphetamine, or on the side chain α- or β carbons to form alpha-hydroxy-amphetamine or norephedrine, respectively. Norephedrine and 4-hydroxy-amphetamine are both active and each is subsequently oxidized to form 4-hydroxy-norephedrine. Alpha-hydroxy-amphetamine undergoes deamination to form phenylethanolamine, which ultimately forms benzoic acid and its glucuronide and the glycine conjugate hippuric acid. Although the enzymes involved in amphetamine metabolism have not been clearly defined, CYP2D6 is known to be involved with formation of 4-hydroxy-amphetamine. Since CYP2D6 is genetically polymorphic, population variations in amphetamine metabolism are a possibility.

Amphetamine is known to inhibit monoamine oxidase, whereas the ability of amphetamine and its metabolites to inhibit various P450 isozymes and other enzymes has not been adequately elucidated. *In vitro* experiments with human microsomes indicate minor inhibition of CYP2D6 by amphetamine and minor inhibition of CYP1A2, CYP2C6, and 3A4 by one or more metabolites. However, due to the probability of auto-inhibition and the lack of information on the concentration of these metabolites relative to *in vivo* concentrations, no predictions regarding the potential for amphetamine or its metabolites to inhibit the metabolism of other drugs by CYP isozymes *in vivo* can be made.

With normal urine pH, approximately half of an administered dose of amphetamine is recoverable in urine as derivatives of alpha-hydroxy-amphetamine and approximately another 30-40% of the dose is recoverable in urine as amphetamine itself. Since amphetamine has a pKa of 9.9, urinary recovery of amphetamine is highly dependent on pH and urine flow rates. Alkaline urine pHs result in less ionization and reduced renal elimination, and acidic pHs and high flow rates result in increased renal elimination with clearances greater than glomerular filtration rates, indicating the involvement of active secretion. Urinary recovery of amphetamine has been reported to range from 1% to 75%, depending on urinary pH, with the remaining fraction of the dose hepatically metabolized. Consequently, both hepatic and renal dysfunction have the potential to inhibit the elimination of amphetamine and result in prolonged exposures. In addition, drugs that effect urinary pH are known to alter the elimination of amphetamine, and any decrease in amphetamine's metabolism that might occur due to drug interactions or genetic polymorphisms is more likely to be clinically significant when renal elimination is decreased *[see Drug Interactions (7)]*.

##### Special Populations

Comparison of the pharmacokinetics of d- and l-amphetamine after oral administration of dextroamphetamine saccharate, amphetamine aspartate monohydrate, dextroamphetamine sulfate and amphetamine sulfate extended-release capsules in children (6-12 years) and adolescent (13-17 years) ADHD patients and healthy adult volunteers indicates that body weight is the primary determinant of apparent differences in the pharmacokinetics of d- and l-amphetamine across the age range. Systemic exposure measured by area under the curve to infinity (AUC<sub>∞</sub>) and maximum plasma concentration (C<sub>max</sub>) decreased with increases in body weight, while oral volume of distribution (V<sub>d</sub>/F), oral clearance (CL/F), and elimination half-life (t<sub>1/2</sub>) increased with increases in body weight.

##### Pediatric Patients

On a mg/kg weight basis, children eliminated amphetamine faster than adults. The elimination half-life (t<sub>1/2</sub>) is approximately 1 hour shorter for d-amphetamine and 2 hours shorter for l-amphetamine in children than in adults. However, children had higher systemic exposure to amphetamine (C<sub>max</sub> and AUC) than adults for a given dose of dextroamphetamine saccharate, amphetamine aspartate monohydrate, dextroamphetamine sulfate and amphetamine sulfate extended-release capsules, which was attributed to the higher dose administered to children on a mg/kg body weight basis compared to adults. Upon dose normalization on a mg/kg basis, children showed 30% less systemic exposure compared to adults.

##### Gender

Systemic exposure to amphetamine was 20-30% higher in women (N=20) than in men (N=20) due to the higher dose administered to women on a mg/kg body weight basis. When the exposure parameters (C<sub>max</sub> and AUC) were normalized by dose (mg/kg), these differences diminished. Age and gender had no direct effect on the pharmacokinetics of d- and l-amphetamine.

##### Race

Formal pharmacokinetic studies for race have not been conducted. However, amphetamine pharmacokinetics appeared to be comparable among Caucasians (N=33), Blacks (N=8) and Hispanics (N=10).

##### Patients with Renal Impairment

The effect of renal impairment on d- and l-amphetamine after administration of dextroamphetamine saccharate, amphetamine aspartate monohydrate, dextroamphetamine sulfate and amphetamine sulfate extended-release capsules has not been studied. The impact of renal impairment on the disposition of amphetamine is expected to be similar between oral administration of lisdexamfetamine and dextroamphetamine saccharate, amphetamine aspartate monohydrate, dextroamphetamine sulfate and amphetamine sulfate extended-release capsules.

In a pharmacokinetic study of lisdexamfetamine in adult subjects with normal and impaired renal function, mean d-amphetamine clearance was reduced from 0.7 L/hr/kg in normal subjects to 0.4 L/hr/kg in subjects with severe renal impairment (GFR 15 to <30mL/min/1.73m<sup>2</sup>). Dialysis did not significantly affect the clearance of d-amphetamine *[see Use in Specific Populations (8.6)]*.

#### 13 NONCLINICAL TOXICOLOGY

##### 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

###### Carcinogenesis

No evidence of carcinogenicity was found in studies in which d,l-amphetamine (enantiomer ratio of 1:1) was administered to mice and rats in the diet for 2 years at doses of up to 30 mg/kg/day in male mice, 19 mg/kg/day in female mice, and 5 mg/kg/day in male and female rats. These doses are approximately 2.4, 1.5, and 0.8 times, respectively, the maximum recommended human dose of 30 mg/day given to children, on a mg/m<sup>2</sup> basis.

###### Mutagenesis

Amphetamine, in the enantiomer ratio d- to l- ratio of 3:1, was not clastogenic in the mouse bone marrow micronucleus test *in vivo* and was negative when tested in the *E. coli* component of the Ames test. *In vitro*, d,l-Amphetamine (1:1 enantiomer ratio) has been reported to produce a positive response in the mouse bone marrow micronucleus test, an equivocal response in the Ames test, and negative responses in the *in vivo* sister chromatid exchange and chromosomal aberration assays.

###### Impairment of Fertility

Amphetamine, in the enantiomer ratio d- to l- ratio of 3:1, did not adversely affect fertility or early embryonic development in the rat at doses of up to 20 mg/kg/day (approximately 8 times the maximum recommended human dose of 20 mg/day given to adolescents, on a mg/m<sup>2</sup> basis).

##### 13.2 Animal Toxicology and/or Pharmacology

Acute administration of high doses of amphetamine (d- or l-) has been shown to produce long-lasting neurotoxic effects, including irreversible nerve fiber damage, in rodents. The significance of these findings to humans is unknown.

#### 14 CLINICAL STUDIES

##### Pediatric Patients

A double-blind, randomized, multi-center, parallel-group study was conducted in children aged 6-12 (N=584) who met DSM-IV<sup>®</sup> criteria for ADHD (either the combined type or the hyperactive-impulsive type). Patients were randomized to fixed-dose treatment groups receiving final doses of 10, 20, or 30 mg of dextroamphetamine saccharate, amphetamine aspartate monohydrate, dextroamphetamine sulfate and amphetamine sulfate extended-release capsules or placebo once daily in the morning for three weeks. Significant improvements in patient behavior, based upon teacher ratings of attention and hyperactivity, were observed for all dextroamphetamine saccharate, amphetamine aspartate monohydrate, dextroamphetamine sulfate and amphetamine sulfate extended-release capsules doses compared to patients who received placebo, for all three weeks, including the first week of treatment, when all dextroamphetamine saccharate, amphetamine aspartate monohydrate, dextroamphetamine sulfate and amphetamine sulfate extended-release capsules subjects were receiving a dose of 10 mg/day. Patients who received dextroamphetamine saccharate, amphetamine aspartate monohydrate, dextroamphetamine sulfate and amphetamine sulfate extended-release capsules showed behavioral improvements in both morning and afternoon assessments compared to patients on placebo.

In a classroom analogue study, patients (N=51) receiving fixed doses of 10 mg, 20 mg or 30 mg dextroamphetamine saccharate, amphetamine aspartate monohydrate, dextroamphetamine sulfate and amphetamine sulfate extended-release capsules demonstrated statistically significant improvements in teacher-rated behavior and performance measures, compared to patients treated with placebo. A double-blind, randomized, multi-center, parallel-group, placebo-controlled study was conducted in adolescents aged 13-17 (N=327) who met DSM-IV<sup>®</sup> criteria for ADHD. The primary cohort of patients (n=287, weighing < 75kg/165lbs) was randomized to fixed-dose treatment groups and received four weeks of treatment. Patients were randomized to receive final doses of 10 mg, 20 mg, 30 mg, and 40 mg dextroamphetamine saccharate, amphetamine aspartate monohydrate, dextroamphetamine sulfate and amphetamine sulfate extended-release capsules or placebo once daily in the morning. Patients randomized to doses greater than 10 mg were titrated to their final doses by 10 mg each week. The secondary cohort consisted of 40 subjects weighing >75kg/165lbs who were randomized to fixed-dose treatment groups receiving final doses of 50 mg and 60 mg dextroamphetamine saccharate, amphetamine aspartate monohydrate, dextroamphetamine sulfate and amphetamine sulfate extended-release capsules or placebo once daily in the morning for 4 weeks. The primary efficacy variable was the Attention Deficit Hyperactivity Disorder-Rating Scale IV (ADHD-RS-IV) total score for the primary cohort. The ADHD-RS-IV is an 18-item scale that measures the core symptoms of ADHD. Improvements in the primary cohort were statistically significantly greater in all four primary cohort active treatment groups (dextroamphetamine saccharate, amphetamine aspartate monohydrate, dextroamphetamine sulfate and amphetamine sulfate extended-release capsules 10 mg, 20 mg, 30 mg, and 40 mg) compared with the placebo group. There was not adequate evidence that doses greater than 20 mg/day conferred additional benefit.

##### Adult Patients

A double-blind, randomized, placebo-controlled, parallel-group study was conducted in adults (N=255) who met DSM-IV<sup>®</sup> criteria for ADHD. Patients were randomized to fixed-dose treatment groups receiving final doses of 20, 40, or 60 mg of dextroamphetamine saccharate, amphetamine aspartate monohydrate, dextroamphetamine sulfate and amphetamine sulfate extended-release capsules or placebo once daily in the morning for four weeks. Significant improvements, measured with the Attention Deficit Hyperactivity Disorder-Rating Scale (ADHD-RS), an 18- item scale that measures the core symptoms of ADHD, were observed at endpoint for all dextroamphetamine saccharate, amphetamine aspartate monohydrate, dextroamphetamine sulfate and amphetamine sulfate extended-release capsules doses compared to patients who received placebo for all four weeks. There was not adequate evidence that doses greater than 20 mg/day conferred additional benefit.

#### 16 HOW SUPPLIED/STORAGE AND HANDLING

Dextroamphetamine saccharate, amphetamine aspartate monohydrate, dextroamphetamine sulfate and amphetamine sulfate extended-release capsules are supplied as follows:

5 mg extended release capsules: Hard Gelatin Capsule Shell Size "3" Blue Opaque Cap and Clear transparent body, imprinted with "5 mg" on cap and "T" on body in black ink filled with light to dark beige colored spherical pellets.

NDC 31722-185-01 bottles of 100 capsules

10 mg extended release capsules: Hard Gelatin Capsule Shell Size "3" Blue Opaque Cap and Blue transparent body, imprinted with "10 mg" on cap and "T" on body in black ink filled with light to dark beige colored spherical pellets.

NDC 31722-186-01 bottles of 100 capsules

15 mg extended release capsules: Hard Gelatin Capsule Shell Size "2" White Opaque Cap and Blue transparent body, imprinted with "15 mg" on cap and "T" on body in black ink filled with light to dark beige colored spherical pellets.

NDC 31722-187-01 bottles of 100 capsules

20 mg extended release capsules: Hard Gelatin Capsule Shell Size "2" Orange Opaque Cap and Orange transparent body, imprinted with "20 mg" on cap and "T" on body in black ink filled with light to dark beige colored spherical pellets.

NDC 31722-188-01 bottles of 100 capsules

25 mg extended release capsules: Hard Gelatin Capsule Shell Size "1" White Opaque Cap and Orange transparent body, imprinted with "25 mg" on cap and "T" on body in black ink filled with light to dark beige colored spherical pellets.

NDC 31722-189-01 bottles of 100 capsules

30 mg extended release capsules: Hard Gelatin Capsule Shell Size "1" Yellow Opaque Cap imprinted with "30 mg" and White Opaque Body imprinted with "T" in black ink filled with light to dark beige colored spherical pellets.

NDC 31722-195-01 bottles of 100 capsules

Dispense in a light, light-resistant container as defined in the USP.

Store at 20° to 25°C (68° to 77°F), excursions permitted to 15° to 30°C (59° to 86°F) *[see USP Controlled Room Temperature]*.

##### Disposal

Comply with local laws and regulations on drug disposal of CNS stimulants. Dispose of remaining, unused, or expired dextroamphetamine saccharate, amphetamine aspartate monohydrate, dextroamphetamine sulfate and amphetamine sulfate extended-release capsules at authorized collection sites such as retail pharmacies, hospital or clinic pharmacies, and law enforcement locations. If no take-back program or authorized collector is available, mix dextroamphetamine saccharate, amphetamine aspartate monohydrate, dextroamphetamine sulfate and amphetamine sulfate extended-release capsules with an undesirable, nontoxic substance to make it less appealing to children and pets. Place the mixture in a container such as a sealed plastic bag and discard dextroamphetamine saccharate, amphetamine aspartate monohydrate, dextroamphetamine sulfate and amphetamine sulfate extended-release capsules in the household trash.

#### 17 PATIENT COUNSELING INFORMATION

Advise the patient to read the FDA-approved patient labeling (Medication Guide).

##### Controlled Substance Status/Potential for Abuse, Misuse, and Dependence

Advise patients that dextroamphetamine saccharate, amphetamine aspartate monohydrate, dextroamphetamine sulfate and amphetamine sulfate extended-release capsules are a federally controlled substance because it can be abused or lead to dependence. Additionally, emphasize that dextroamphetamine saccharate, amphetamine aspartate monohydrate, dextroamphetamine sulfate and amphetamine sulfate extended-release capsules should be stored in a safe place to prevent misuse and/or abuse. Evaluate patient history (including family history) of abuse or dependence on alcohol, prescription medicines, or illicit drugs *[see Warnings and Precautions (5.1), Drug Abuse and Dependence (9)]*.

##### Serious Cardiovascular Risks

Advise patients of serious cardiovascular risk (including sudden death, myocardial infarction, stroke, and hypertension) with dextroamphetamine saccharate, amphetamine aspartate monohydrate, dextroamphetamine sulfate and amphetamine sulfate extended-release capsules. Patients who develop symptoms such as exertional chest pain, unexplained syncope, or other symptoms suggestive of cardiac disease during treatment should undergo a prompt cardiac evaluation *[see Warnings and Precautions (5.1)]*.

##### Psychiatric Risks

Due to titrating treatment with dextroamphetamine saccharate, amphetamine aspartate monohydrate, dextroamphetamine sulfate and amphetamine sulfate extended-release capsules, adequately screen patients with comorbid depressive symptoms to determine if they are at risk for bipolar disorder. Such screening should include a detailed psychiatric history, including a family history of suicide, bipolar disorder, and/or depression. Additionally, dextroamphetamine saccharate, amphetamine aspartate monohydrate, dextroamphetamine sulfate and amphetamine sulfate extended-release capsules should be used as adjuncts may cause treatment-emergent psychotic or manic symptoms in patients without prior history of psychotic symptoms or mania *[see Warnings and Precautions (5.2)]*.

##### Circulation problems in fingers and toes [Peripheral vasculopathy, including Raynaud's phenomenon]

Instruct patients beginning treatment with dextroamphetamine saccharate, amphetamine aspartate monohydrate, dextroamphetamine sulfate and amphetamine sulfate extended-release capsules about the risk of peripheral vasculopathy, including Raynaud's Phenomenon, and in associated signs and symptoms: fingers or toes may feel numb, cool, painful, and/or may change color from pale, to blue, to red. Instruct patients to report to their physician any new numbness, pain, skin color change, or sensitivity to temperature in fingers or toes. Instruct patients to call their physician immediately with any signs of unexplained wounds appearing on fingers or toes while taking dextroamphetamine saccharate, amphetamine aspartate monohydrate, dextroamphetamine sulfate and amphetamine sulfate extended-release capsules. Further clinical evaluation (e.g., rheumatology referral) may be appropriate for certain patients *[see Warnings and Precautions (5.5)]*.

##### Serotonin Syndrome

Caution patients about the risk of serotonin syndrome with concomitant use of dextroamphetamine saccharate, amphetamine aspartate monohydrate, dextroamphetamine sulfate and amphetamine sulfate extended-release capsules and other serotonergic drugs including SSRIs, SHRIs, triptans, tricyclic antidepressants, fenfluramine, lithium, tramadol, tryptophan, buspirone, St. John's Wort, and with drugs that impair metabolism of serotonin (in particular MAOIs), both those intended to treat depression and also others such as linezolid *[see Contraindications (4), Warnings and Precautions (5.6) and Drug Interactions (7.1)]*. Advise patients to contact their healthcare provider or report to the emergency room if they experience signs or symptoms of serotonin syndrome.

##### Concomitant Medications

Advise patients to notify their physicians if they are taking, or plan to take, any prescription or over-the-counter drugs because there is a potential for interactions *[see Drug Interactions (7.1)]*.

##### Growth

Monitor growth in children during treatment with dextroamphetamine saccharate, amphetamine aspartate monohydrate, dextroamphetamine sulfate and amphetamine sulfate extended-release capsules, and patients who are not growing or gaining weight as expected may need to have their treatment interrupted *[see Warnings and Precautions (5.3)]*.

##### Pregnancy Registry

Advise patients that there is a pregnancy exposure registry that monitors pregnancy outcomes in women exposed to dextroamphetamine saccharate, amphetamine aspartate monohydrate, dextroamphetamine sulfate and amphetamine sulfate extended-release capsules during pregnancy *[see Use in Specific Populations (8.1)]*.

##### Pregnancy

Advise patients to notify their healthcare provider if they become pregnant or intend to become pregnant during treatment with dextroamphetamine saccharate, amphetamine aspartate monohydrate, dextroamphetamine sulfate and amphetamine sulfate extended-release capsules. Advise patients of the potential fetal effects from the use of dextroamphetamine saccharate, amphetamine aspartate monohydrate, dextroamphetamine sulfate and amphetamine sulfate extended-release capsules during pregnancy *[see Use in Specific Populations (8.1)]*.

##### Lactation

Advise women not to breastfeed if they are taking dextroamphetamine saccharate, amphetamine aspartate monohydrate, dextroamphetamine sulfate and amphetamine sulfate extended-release capsules *[see Use in Specific Populations (8.2)]*.

##### Impairment in Ability to Operate Machinery or Vehicles





## **JOB SPECIFICATION FORM**

Job #:

**Customer Name:**

**Customer Rep:**

**Date Submitted:**

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### **JOB INFO**

**Job Name:**

**Type: New Design ( )**

**Reprint ( )**

**File Name:**

**JOB TYPE: ( ) Insert**

**( ) Med Guide**

**( ) Patient Guide**

**Rev:**

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#### HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use DEXTROAMPHETAMINE SACCHARATE, AMPHETAMINE ASPARTATE MONOHYDRATE, DEXTROAMPHETAMINE SULFATE and AMPHETAMINE SULFATE EXTENDED-RELEASE CAPSULES safely and effectively. See full prescribing information for DEXTROAMPHETAMINE SACCHARATE, AMPHETAMINE ASPARTATE MONOHYDRATE, DEXTROAMPHETAMINE SULFATE and AMPHETAMINE SULFATE EXTENDED-RELEASE CAPSULES.

**DEXTROAMPHETAMINE SACCHARATE, AMPHETAMINE ASPARTATE MONOHYDRATE, DEXTROAMPHETAMINE SULFATE and AMPHETAMINE SULFATE (mixed salts of a single-enantiomer amphetamine product) extended-release capsules, for oral use, CII**

Initial U.S. Approval: 2001

WARNING: ABUSE AND DEPENDENCE	
See full prescribing information for complete black box warning	
• CNS stimulants, including dextroamphetamine saccharate, amphetamine aspartate monohydrate, dextroamphetamine sulfate and amphetamine sulfate extended-release capsules, other amphetamine-containing products, and methylphenidate, have a high potential for abuse and dependence (5.1, 9.3)	
• Assess the risk of abuse prior to prescribing and monitor for signs of abuse and dependence while on therapy (8.2, 8.3).	

RECENT MAJOR CHANGES	
Boxed Warning	7/2019
Dosage and Administration (2.1)	7/2019
Warnings and Precautions (5.1)	7/2019

INDICATIONS AND USAGE	
Dextroamphetamine saccharate, amphetamine aspartate monohydrate, dextroamphetamine sulfate and amphetamine sulfate extended-release capsules, a CNS stimulant, is indicated for the treatment of attention deficit hyperactivity disorder (ADHD). (1)	

- Children (ages 6-12): Efficacy was established in one 3-week outpatient, controlled trial and one analogue classroom, controlled trial in children with ADHD. (14)
- Adolescents (ages 13-17): Efficacy was established in one 4-week controlled trial in adolescents with ADHD. (14)
- Adults: Efficacy was established in one 4-week controlled trial in adults with ADHD. (14)

#### DOSAGE AND ADMINISTRATION

- Pediatric patients (ages 6-17): 10 mg once daily in the morning. Maximum dose for children 6-12 years of age is 30 mg once daily (2.2, 2.3, 2.4)
- Adults: 20 mg once daily in the morning. (2.5)
- Pediatric patients (ages 6-17) with severe renal impairment: 5 mg once daily in the morning. Maximum dose for children 6-12 years of age with severe renal impairment is 20 mg once daily (2.6, 8.6)
- Adults with severe renal impairment: 15 mg once daily in the morning. (2.6, 8.6)
- Patients with ESRD: not recommended. (2.6, 8.6)

#### DOSAGE FORMS AND STRENGTHS

- Extended release capsules: 5 mg, 10 mg, 15 mg, 20 mg, 25 mg, 30 mg (3)

#### CONTRAINDICATIONS

- Advanced arteriosclerosis (4)
- Symptomatic cardiovascular disease (4)
- Moderate to severe hypertension (4)
- Hyperthyroidism (4)
- Known hypersensitivity or idiosyncrasy to amphetamine (4)
- Glaucouma (4)
- Agitated states (4)
- History of drug abuse (4)
- During or within 14 days following the administration of monoamine oxidase inhibitors (MAOI) (4, 7.1)

#### FULL PRESCRIBING INFORMATION: CONTENTS\*

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