HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use DEXMETHYLPHENIDATE HYDROCHLORIDE EXTENDED-RELEASE CAPSULES safely and effectively. See full prescribing information for DEXMETHYLPHENIDATE HYDROCHLORIDE EXTENDED-RELEASE CAPSULES. DEXMETHYLPHENIDATE HYDROCHLORIDE extended-release capsules, for oral use, CII Initial U.S. Approval: 2005

WARNING: ABUSE, MISUSE, AND ADDICTION

See full prescribing information for complete boxed w

Dexmethylphenidate hydrochloride extended-release capsules have a high potential for abuse and misuse, which can lead to the development of a substance use disorder, including addiction. Misuse and abuse of CNS stimulants, including dexmethylphenidate hydrochloride extended-release capsules, can result in overdose and death (5.1, 9.2, 10). • Before prescribing dexmethylphenidate hydrochloride extended-release capsules, assess each patient's risk for abuse, misuse, and addiction. • Educate patients and their families about these risks, proper storage of the drug, and proper disposal of any unused drug. • Throughout treatment, reassess each patient's risk and frequently monitor for signs and symptoms of abuse, misuse, and addiction.

--RECENT MAJOR CHANGES------

Boxed Warning

Dosage and Administration (2.1, 2.2) Warnings and Precautions (5.1, 5.2, 5.8, 5.9, 5.10)

10/2023 ---INDICATIONS AND USAGE--Dexmethylphenidate hydrochloride extended-release capsules are a central nervous system (CNS) stimulant indicated for the treatment of Attention Deficit Hyperactivity Disorder (ADHD) (1). -----DOSAGE AND ADMINISTRATION-------

Patients new to methylphenidate: Recommended starting dose is 5 mg once daily for pediatric patients and 10 mg once daily for adults with or without food in the morning (2.2).

- Patients currently on methylphenidate: Dexmethylphenidate hydrochloride extended-release capsules dosage is half (1/2) the current total daily dosage of methylphenidate (2.2).
- Patients currently on dexmethylphenidate hydrochloride immediate-release tablets: Give the same daily dose of dexmethylphenidate hydrochloride extended-release capsules (2.2). Titrate weekly in increments of 5 mg in pediatric patients and 10 mg in adult patients (2.2). Maximum recommended daily dose: 30 mg in pediatric patients and 40 mg in adults (2.2).

Capsules may be swallowed whole or opened and the entire contents sprinkled on applesauce (2.3).

----DOSAGE FORMS AND STRENGTHS--Extended-release capsules: 5 mg, 10 mg, 15 mg, 20 mg, 25 mg, 30 mg, 35 mg, and 40 mg of

dexmethylphenidate hydrochloride (3). ----CONTRAINDICATIONS----Known hypersensitivity to methylphenidate or other components of dexmethylphenidate

FULL PRESCRIBING INFORMATION: CONTENTS*	7.1 Clinically Important Drug Interactions with Dexmethylphenidate Hydrochloride Extended-Release Capsules
NARNING: ABUSE, MISUSE, AND ADDICTION I INDICATIONS AND USAGE	8 USE IN SPECIFIC POPULATIONS
2 DOSAGE AND ADMINISTRATION	8.1 Pregnancy
2.1 Pretreatment Screening	8.2 Lactation
2.2 Recommended Dosage	8.4 Pediatric Use
2.3 Administration Instructions	8.5 Geriatric Use
2.4 Dosage Reduction and Discontinuation	9 DRUG ABUSE AND DEPENDENCE
B DOSAGE FORMS AND STRENGTHS	9.1 Controlled Substance
CONTRAINDICATIONS	9.2 Abuse
5 WARNINGS AND PRECAUTIONS	9.3 Dependence
5.1 Abuse, Misuse, and Addiction	10 OVERDOSAGE
5.2 Risks to Patients With Serious Cardiac Disease	11 DESCRIPTION
5.3 Increased Blood Pressure and Heart Rate	12 CLINICAL PHARMACOLOGY
5.4 Psychiatric Adverse Reactions	12.1 Mechanism of Action
5.5 Priapism	12.2 Pharmacodynamics
5.6 Peripheral Vasculopathy, Including Raynaud's Phenomenon	12.3 Pharmacokinetics
5.7 Long-Term Suppression of Growth in Pediatric Patients	13 NONCLINICAL TOXICOLOGY
5.8 Acute Angle Closure Glaucoma	13.1 Carcinogenesis, Mutagenesis, and Impairment of Fertility
5.9 Increased Intraocular Pressure and Glaucoma	14 CLINICAL STUDIES
5.10 Motor and Verbal Tics, and Worsening of Tourette's Syndrome	14.1 Pediatric Patients
ADVERSE REACTIONS	14.2 Adult Patients
6.1 Clinical Trials Experience	16 HOW SUPPLIED/STORAGE AND HANDLING
6.2 Postmarketing Experience	17 PATIENT COUNSELING INFORMATION
7 DRUG INTERACTIONS	*Sections or subsections omitted from the full prescribing information are not listed.
ULL PRESCRIBING INFORMATION	dexmethylphenidate hydrochloride extended-release capsules treatment, reassess each patient's risi of abuse, misuse, and addiction and frequently monitor for sions and symptoms of abuse, misuse
WARNING: ABUSE, MISUSE, AND ADDICTION	and addiction.

10/2023

10/2023

Dexmethylphenidate hydrochloride extended-release capsules have a high potential for abuse and misuse, which can lead to the development of a substance use disorder, including addiction. Misuse and abuse of CNS stimulants, including dexmethylphenidate hydrochloride extended-release capsules, can result in overdose and death [se Overdosage (10)], and this risk is increased with higher doses or unapproved methods of ration, such as snorting or injection.

Before prescribing dexmethylphenidate hydrochloride extended-release capsul assess each patient's risk for abuse, misuse, and addiction. Educate patients, assess each patient's risk for abuse, misuse, and addiction. Educate patients and their families about these risks, proper storage of the drug, and proper disposal of any unused drug. Throughout dexmethylphenidate hydrochloride extended-release capsules treatment, reassess each patient's risk of abuse, misuse, and addiction and frequently monitor for signs and symptoms of abuse, misuse, and addiction [see Warnings and Descentions of 51.0 cm durage of the drug of the durage of th Precautions (5.1), Drug Abuse and Dependence (9.2)].

1 INDICATIONS AND USAGE

Dexmethylphenidate hydrochloride extended-release capsules are indicated for the treatment of Attention Deficit Hyperactivity Disorder (ADHD) [see Clinical Studies (14)]. 2 DOSAGE AND ADMINISTRATION

2.1 Pretreatment Screening

- Prior to treating patients with dexmethylphenidate hydrochloride extended-release capsules, assess:
- for the presence of cardiac disease (i.e., perform a careful history, family history of sudden death or ventricular arrhythmia, and physical exam) *(see Warnings and Precautions (5.2)*. the family history and clinically evaluate patients for motor or vental tics or Tourette's syndrome before initiating dexmethylphenidate hydrochloride extended-release capsules *(see Warnings and Preserver and a context and a starter and clinical starter and a sta*
- Precautions (5.10)].

2 2 Recommended Dosage Patients New to Methylphenidate

The recommended starting dosage of dexmethylphenidate hydrochloride extended-release capsules for patients who are not currently taking dexmethylphenidate or racemic methylphenidate, or for patients who are on stimulants other than methylphenidate are:

- Pediatric patients: Start with 5 mg orally once daily in the morning with or without food. Adult patients: Start with 10 mg orally once daily in the morning with or without food
- Patients Currently on Methylphenidate

The recommended starting dose of dexmethylphenidate hydrochloride extended-release capsules for patients currently using methylphenidate is half (1/2) the total daily dose of racemic methylphenidate. Patients currently using dexmethylphenidate hydrochloride immediate-release tablets may be given the same daily dose of dexmethylphenidate hydrochloride extended-release capsules.

Titration Schedule The dose may be titrated weekly in increments of 5 mg in pediatric patients and 10 mg in adult patients. The dose should be individualized according to the needs and response of the patient. Daily doses above 30 mg in pediatrics and 40 mg in adults have not been studied and are not recommended. preceding 14 days (4). ----WARNINGS AND PRECAUTIONS--

Increased Blood Pressure and Heart Rate: Monitor blood pressure and pulse (5.3).

serious cardiac disease (5.2).

Concurrent treatment with a monoamine oxidase inhibitor (MAOI), or use of an MAOI within the

hydrochloride extended-release capsules (4).

Risks to Patients with Serious Cardiac Disease. Avoid use in patients with known structural cardiac abnormalities, cardiomyopathy, serious cardiac arrhythmias, coronary artery disease, or other

Psychiatric Adverse Reactions: Prior to initiating dexmethylphenidate hydrochloride extended-release capsules, screen patients for risk factors for developing a manic episode. If new psychotic or manic symptoms occur, consider discontinuing dexmethylphenidate hydrochloride extended-release capsules (5.4).

Priapism: If Abnormally sustained or frequent and painful erections occur, patients should seek immediate medical attention (5.5).

Peripheral Vasculopathy, including Raynaud's Phenomenon: Careful observation for digital changes

is necessary during dexmethylphenidate hydrochloride extended-release capsules treatment. Further clinical evaluation (e.g., rheumatology referral) may be appropriate for patients who develop signs or symptoms of peripheral vasculopathy (5.6).

Long-Term Suppression of Growth in Pediatric Patients: Closely monitor growth (height and weight) in pediatric patients. Pediatric patients not growing or gaining height or weight as expected may need to have their treatment interrupted (5.7).

Acute Angle Closure Glaucoma: Dexmethylphenidate hydrochloride extended-release capsules-treated patients considered at risk for acute angle closure glaucoma (e.g., patients with significant hyperopia) should be evaluated by an ophthalmologist (S.8). Increased Intraocular Pressure (IOP) and Glaucoma: Prescribe dexmethylphenidate hydrochloride

extended-release capsules to patients with open-angle glaucoma or abnormally increased IOP only if the benefit of treatment is considered to outweigh the risk. Closely monitor patients with a history of increased IOP or open angle glaucoma (5.9).

Motor and Verbal Tics, and Worsening of Tourette's Syndrome: Before initiating dexmethylphenidate hydrochloride extended-release capsules, assess the family history and clinically evaluate patients for tics or Tourette's syndrome. Regularly monitor patients for the emregence or worsening of tics or Tourette's syndrome. Begularly monitor patients for the emregence or worsening of tics or Tourette's syndrome. Discontinue treatment if clinically appropriate (5.10).

-----ADVERSE REACTIONS-

See 17 for PATIENT COUNSELING INFORMATION and Medication Guide

5.2 Risks to Patients With Serious Cardiac Disease

5.3 Increased Blood Pressure and Heart Rate

history of suicide, bipolar disorder, or depression).

Induction of a Manic Episode in Patients with Bipolar Disorder

hypertension and tachycardia. 5.4 Psychiatric Adverse Reactions

Exacerbation of Pre-existing Psychosis

larger increases.

5.5 Priapism

or during discontinuation

The most common adverse reactions (greater than or equal to 5% and twice the rate of placebo):

Pediatric patients 6 to 17 years: dyspepsia, decreased appetite, headache, and anxiety (6.1).

Adults: dry mouth, dyspepsia, headacte, pharynolaryngel pain, and anxiety (6.1). To report SUSPECTED ADVERSE REACTIONS, contact Camber Pharmaceuticals, Inc., at 1-866-195-8330, or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch. DRUG INTERACTIONS.

Antihypertensive Drugs: Monitor blood pressure. Adjust dosage of antihypertensive drug as needed

6.1 Clinical Trials Experience

System organ class

Dyspepsia

Headache

Psychiatric disorders

Anxiety

System organ class

Gastrointestina

nutritional disorder

Psychiatric disorders 19%

Other adverse reactions Irritability

Adult Patients with ADHD

System organ class Adverse reaction

Dry mouth

Headache

Anxiety

pain

sychiatric Disorders

vous system disorders

spiratory, Thoracic, and diastinal Disorders

Pharyngolaryngeal

miting Metabolism and

Anorexia

somnia

Depression

Mood swings

Nasal congestion Pruritus

Gastrointestinal disorders

Decreased appetite

Nervous system disorders

Metabolism and nutrition disorders

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Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed

supraventricular tachycardia, ventricular extrasystole

Reproductive System and Breast Disorders: gynecomastia

Isee Contraindications (4)].

Gastrointestinal Disorders: diarrhea, constipation

Renal and Urinary Disorders: hematuria

General Disorders: fatigue, hyperpyrexia

Monoamine Oxidase Inhibitors (MAOIs)

ive Drugs

needed

Intervention Monitor for signs of EPS

8 USE IN SPECIFIC POPULATIONS

Clinical Considerations Fetal/Neonatal Adverse Reactions

Halogenated Anesthetics

Ilrogenital Disorders: priapism

7 DRUG INTERACTIONS

extended-release cansules

Release Capsules

Clinical Impact

ntervention

Antihypertens

Clinical Impact

Clinical Impact

Intervention

Risperidone

8.1 Pregnancy Pregnancy Exposure Registry

Risk Summary

mothers.

8.2 Lactation

Risk Summary

Clinical Considerations

reduced weight gain.

patients has not been established.

Long Term Suppression of Growth

Juvenile Animal Toxicity Data

8.4 Pediatric Use

Data Animal Data

Clinical Impact

Intervention

Respiratory, Thoracic, and Mediastinal Disorders: pharyngolaryngeal pain, dyspnea

Musculoskeletal, Connective Tissue, and Bone Disorders: myalgia, muscle twitching

Skin and Subcutaneous Tissue Disorders: angioneurotic edema, erythema, fixed drug eruption

7.1 Clinically Important Drug Interactions With Dexmethylphenidate Hydrochloride Exter

Table 5 presents clinically important drug interactions with dexmethylphenidate hydrochloride

Table 5: Clinically Important Drug Interactions With Dexmethylphenidate Hydrochloride Extended-Release Capsules

Concomitant use of MAOIs and CNS stimulants, including dexmethylphenidate

hydrochloride extended-release capsules, can cause hypertensive crisis Potential outcomes include death, stroke, myocardial infarction, aortic dissection

ophthalmological complications, eclampsia, pulmonary edema, and renal failur

Concomitant use of dexmethylphenidate hydrochloride extended-release capsule: with MAOIs or within 14 days after discontinuing MAOI treatment is contraindicated

Dexmethylphenidate hydrochloride extended-release cansules may decrease the

Monitor blood pressure and adjust the dosage of the antihypertensive drug as

Concomitant use of halogenated anesthetics and dexmethylphenidate hydrochloride extended-release capsules may increase the risk of sudden blood

Avoid use of dexmethylphenidate hydrochloride extended-release capsules it

Combined use of methylphenidate with risperidone when there is a change, whether an increase or decrease, in dosage of either or both medications, may increase the risk of extrapyramidal symptoms (EPS)

pressure and heart rate increase during surgery.

patients being treated with anesthetics on the day of surgery.

There is a pregnancy exposure registry that monitors pregnancy outcomes in women exposed to ADHD medications, including dexmethylphenidate hydrochloride extended-release capsules, during pregnancy. Healthcare providers are encouraged to register patients by calling the National Pregnancy Registry for ADHD medications at 1-866-961-2388 or visiting https://womensmentalhealth.org/adhd-

Dexmethylphenidate is the *d-threo* enantiomer of racemic methylphenidate. Published studies and

Dexmempipelinate is the *d*-three enanuomer or racemic mempipienicate. Published studies and postmarkeling reports on methylphenicate use during pregnancy have not identified a drug-associated risk of major birth defects, miscarriage or adverse maternal or fetal outcomes. There may be risks to the fetus associated with the use of CNS stimulants during pregnancy (see *Clinical Considerations*). Embryo-fetal development studies in rats showed delayed fetal skeletal ossification at doses up to 5 times the maximum recommended human dose (MRHD) of 20 mg/day given to adults based on plasma levels. A decrease in pup weight in males was observed in a pre- and post-natal development study with oral administration of methylphenidate to rats throughout pregnancy and lactation at doses 5 times the MRHD of 20 mg/day given to adults based on plasma levels (see Data). The actimated background risk d major bith defects and miscarriage for the indicated population is

The estimated background risk of major birth defects and miscarriage for the indicated population is unknown. All pregnancies have a background risk of birth defect, loss, or other adverse outcomes. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2% to 4% and 15% to 20%, respectively.

CNS stimulants, such as dexmethylphenidate hydrochloride extended-release capsules, can cause

vasoconstriction and thereby decrease placental perfusion. No fetal and/or neonatal adverse reactions

have been reported with the use of the apeutic doses of methylphenidate during pregnancy; however

premature delivery and low birth weight infants have been reported in amphetamine-dependen

In embryo-fetal development studies conducted in rats and rabbits, dexmethylphenidate was administered orally at doses of up to 20 and 100 mg/kg/day, respectively, during the period of organogenesis. No evidence of malformations was found in either the rat or rabbit study; however, delayed fetal skeletal ossification was observed at the highest dose level in rats. When

dexmethylphenidate was administered to rats throughout pregnancy and lactation at doses of up

becamelyphenological was administered to rais infrogriout preprinticy and natching at the sightest to 20 mg/kg/day, post-wearing body weight gain was decreased in male offspring at the highest dose, but no other effects on postnatal development were observed. At the highest doses tested, plasma levels [area under the curves (AUCs)] of dexmethylphenidate in pregnant rats and rabits were approximately 5 and 1 times, respectively, those in adults dosed with 20 mg/day. Plasma levels in adults were comparatively similar to plasma levels in adolescents.

Racemic methylphenidate has been shown to cause malformations (increased incidence of fetal spina bifida) in rabbits when given in doses of 200 mg/kg/day throughout organogenesis.

Dexmethylphenidate is the *d-threo* enantiomer of racemic methylphenidate. Limited published

Distribution is due to the theorem of the second of the se

from stimulant exposure are unknown. The developmental and health benefits of breastfeeding should

Monitor breastfeeding infants for adverse reactions, such as agitation, insomnia, anorexia, and

The safety and effectiveness of dexmethylphenidate hydrochloride extended-release capsules for the treatment of ADHD have been established in pediatric patients aged 6 to 17 years in two adequate and well-controlled clinical trials *[see Clinical Studies (14.2)]*. The safety and effectiveness of dexmethylphenidate hydrochloride extended-release capsules in pediatric patients aged less than 6 years have not been established.

The long-term efficacy of dexmethylphenidate hydrochloride extended-release capsules in pediatric

Long term suppression or crowin Growth should be monitored during treatment with stimulants, including dexmethylphenidate hydrochloride extended-release capsules. Pediatric patients who are not growing or gaining weight as expected may need to have their treatment interrupted [see Warnings and Precautions (5.7)].

Rats treated with racemic methylphenidate early in the postnatal period through sexual maturation

demonstrated a decrease in spontaneous locomotor activity in adulthood. A deficit in acquisition of a specific learning task was observed in females only. The doses at which these findings were observed

be considered along with the mother's clinical need for dexmethylphenidate hydrochloride external release capsules and any potential adverse effects on the breastfed infant from dexmethylphenidate hydrochloride or from the underlying maternal condition.

effectiveness of drugs used to treat hypertension [see Warnings and Prec

KMETHYLPHENI HYDROCHLORIC extended-relea

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in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in clinical practice.

Adverse Reactions in Studies with Dexmethylphenidate Hydrochloride Extended-Release Capsules in Pediatric Patients with ADHD The safety data in this section is based on data from a 7-week controlled clinical study of

dexmethylphenidate hydrochloride extended-release capsules in 100 (103 randomized) pediatric patients with ADHD ages 6 to 17 years (ages 6 to 12, n = 86; ages 13 to 17, n = 17).

This study was a randomized, double-blind, placebo-controlled, parallel-group study to evaluate the This study was a randomized, outlate-binit, pacedo-contoued, paralet group study of exating the time of onset, duration of efficacy, tolerability, safety of dexmethylphenidate hydrochhoride extended-release capsules 5 mg to 30 mg/day who me The Diagnostic and Statistical Manual of Mental Disorders, Fourth Edition (DSM-N) criteria to ADHD (see *Clinical Studies (14.1)*).

Most Common Adverse Reactions (incidence of greater than or equal to 5% and at least twice placebo): dyspepsia, decreased appetite, headache, and anxiety.

Adverse Reactions Leading to Discontinuation: 50 of 684 (7.3%) pediatric patients treated with dexmethylphenidate hydrochloride immediate-release tablets experienced an adverse reaction that resulted in discontinuation. The most common reasons for discontinuation were twitching (described as motor or vocal tics), anorexia, insomnia, and tachycardia (approximately 1% each).

Table 1 enumerates adverse reactions for the placebo-controlled, parallel-group study in childrer

and adolescents with ADHD at flexible dexmethylphenidate hydrochloride extended-release capsules

doses of 5-30 mg/day. The table includes only those events that occurred in 5% or more of patients

treated with dexmethylphenidate hydrochloride extended-release capsules and for which the

incidence in patients treated with dexmethylphenidate hydrochloride extended-release capsules was at least twice the incidence in placebo-treated patients.

Abbreviation: ADHD, attention deficit hyperactivity disorder. Table 2 below enumerates the incidence of dose-related adverse reactions that occurred during a fixed-dose, double-blind, placebo-controlled trial in pediatric patients with ADHD taking dexmethylphenidate hydrochloride extended-release capsules up to 30 mg daily versus placebo. The table includes only those reactions that occurred in patients treated with dexmethylphenidate hydrochloride extended-release capsules for which the incidence was at least 5% and greater than the incidence among placeho-treated natients.

Table 2: Dose-Related Adverse Reactions in Pediatric Patients (6 to 17 years of age) With ADHD

Capsules

N = 60

23%

8%

5%

0%

2%

0%

Adverse Reactions in Studies with Dexmethylphenidate Hydrochloride Extended-Release Capsules in

The safety data in this section is based on data from a 5-week controlled clinical study of

dexmethy/phenidate hydrochloride extended-release capsules in 218 adult patients (221 randomized) with ADHD ages 18 to 60 years. In this study, 101 adult patients were treated for at least 6 months.

With ADHD ages 1s to 60 years. In this study, 101 aduit patients were treated for at least 6 months. This study was a randomized, double-blind, placebo-controlled, parallel-group study to evaluate the efficacy, safety, and tolerability of dexmethylphenidate hydrochloride extended-release capsules 20 mg, 30 mg, or 40 mg daily who met DSM-IV criteria for ADHD [see *Clinical Studies* (14.2)]. *Most Common Adverse Reactions* (incidence of greater than or equal to 5% and at least twice placebo): dry mouth, dyspepsia, headache, anxiety, and pharyngolaryngeal pain.

Adverse Reactions Leading to Discontinuation: During the double-blind phase of the study, 10.7% of the dexmethylphenidate hydrochloride extended-release capsules-treated patients and 7.5% of the placebo-treated patients discontinued due to adverse reactions. Three patients (1.8%) in the

the process and a second particular solution of the second second second second particular solution is a second dexmethylphenidate hydrochoride extended-release capsules discontinued due to insomnia and jittery respectively; and two patients (1.2%) in the dexmethylphenidate hydrochoride extended-release capsules discontinued due to anorexia and anxiety, respectively.

release capsules discontinued due to andrexia and anxiety, respectively. Table 3 enumerates adverse reactions for the placebo-controlled, parallel-group study in adults with ADHD at fixed dexmethylphenidate hydrochloride extended-release capsules doses of 20, 30, or 40 mg/day. The table includes only those events that occurred in 5% or more of patients in a dexmethylphenidate hydrochloride extended-release capsules dose group and for which the incidences in patients treated with dexmethylphenidate hydrochloride extended-release capsules appeared to increase with dose.

appeared to increase with dose. Table 3: Dose-Related Adverse Reactions in Adult Patients (18 to 60 years of age) With ADHD

30 mg N = 54

32%

20%

39%

30%

11%

9%

4%

Two other adverse reactions occurring in clinical trials with dexmethylphenidate hydrochloride

extended-release capsules at a frequency greater than placebo, but which were not dose related were: feeling jittery (12% and 2%, respectively) and dizziness (6% and 2%, respectively).

Table 4 summarizes changes in vital signs and viejnt that were recorded in the adult study (N = 218) of dexmethylphenidate hydrochloride extended-release capsules in the treatment of ADHD.

9%

Hydrochloride Extended-Release

Capsul

20 mg N = 57

28%

7%

5%

37%

26%

40%

5%

16%

4%

Dexmethylphenidate Dexmethylphenidate Dexmethylphenidate Placebo

Hydrochloride Extended-Rele

N = 53

19%

4%

2% 28%

19%

2%

8%

40 mg N = 54

44%

20%

9%

50%

39%

11%

15%

7%

Hydrochloride Extended-Release

20%

17%

20 mg/day

Hydrochloride

Extended-Release

Dexmethylphenidate

Extended-Release

Hydrochloride

Capsules

N = 64

22%

16%

0%

0%

0%

Abbreviation: ADHD, attention deficit hyperactivity disorder.

10 mg/day

Dexmethylphenidate Hydrochloride Placebo

N = 47

19%

4%

11%

9%

13%

11%

15%

0%

N = 63

24%

0%

5%

8%

2%

0%

Extended-Release Capsules

N = 53

38%

8%

34%

30%

30%

25%

26%

6%

Dexmethylphenidate Dexmethylph

Hydrochloride

Capsules

N = 58

29%

9%

7%

3%

3%

5%

38%

22%

30 mg/day

Extended-Release

Table 1: Common Adverse Reactions in Pediatric Patients (6 to 17 years of age) With ADHD

2.3 Administration Instructions

2.3 Administration instructions
2.4 Desamethylphenidate hydrochloride extended-release capsules are administered orally and may be taken whole or the capsule may be opened and the entire contents sprinkled onto applesauce. If the patient is using the sprinkled administration method, the sprinkled applesauce should be consumed immediately; it should not be stored. Patients should take the applesauce with sprinkled beads in its entirety without chewing. The dose of a single capsule should not be divided. The contents of the entire capsule should be taken, and patients should not take anything less than one capsule per day.

2.4 Dosage Reduction and Discontinuation

If paradoxical aggravation of symptoms or other adverse reactions occur, reduce the dosage, or if necessary, discontinue dexmethylphenidate hydrochloride extended-release capsules. If improvement is not observed after appropriate dosage adjustment over a one-month period, the drug should be

3 DOSAGE FORMS AND STRENGTHS

- 5 mg extended-release capsules Hard gelatin capsule size "2" light brown cap and white opaque body, imprinted with "M5" on cap and "AC" on body in black ink filled with white to off white spherical pellets.
- Spiritual penets. 10 mg extended-release capsules Hard gelatin capsule size "2" white opaque cap and white opaque body, imprinted with "M10" on cap and "AC" on body in black ink filled with white to off white spherical pellets.
- 15 mg extended-release capsules Hard gelatin capsule size "1" yellow opaque cap and white opaque body, imprinted with "M15" on cap and "AC" on body in black ink filled with white to off white spherical pellets.
- 20 mg extended-release capsules Hard gelatin capsule size "1" light brown cap and white opaque body, imprinted with "M20" on cap and "AC" on body in black ink filled with white to off white spherical pellets.
- 25 mg extended-release capsules Hard gelatin capsule size "0" yellow opaque cap and white opaque body, imprinted with "M25" on cap and "AC" on body in black ink filled with white to off white spherical pellets
- 30 mg extended-release capsules Hard gelatin capsule size "00" white opaque cap and white opaque body, imprinted with "M30" on cap and "AC" on body in black ink filled with white to off white spherical pellets.
- white spherical pellets. 35 mg extended-release capsules Hard gelatin capsule size "00" light yellow opaque cap and light yellow opaque body, imprinted with "M35" on cap and "AC" on body in red ink filled with white to off white spherical pellets. 40 mg extended-release capsules Hard gelatin capsule size "00" yellow opaque cap and white opaque body, imprinted with "M40" on cap and "AC" on body in black ink filled with white to off
- white spherical pellets.

4 CONTRAINDICATIONS

- Hypersensitivity to methylphenidate or other components of dexmethylphenidate hydrochloride extended-release capsules. Hypersensitivity reactions, such as angioedema and anaphylactic reactions have been reported in patients treated with methylphenidate [see Adverse Reactions (6.1)].
- (c. ij). Concomitant treatment with monoamine oxidase inhibitors (MAOIs) or within 14 days following discontinuation of treatment with an MAOI, because of the risk of hypertensive crises [see Drug Interactions (7.1)].

5 WARNINGS AND PRECAUTIONS

5.1 Abuse, Misuse, and Addiction

Dexmethylphenidate hydrochloride extended-release capsules have a high potential for abuse and misuse. The use of dexmethylphenidate hydrochloride extended-release capsules exposes individuals to the risks of abuse and misuse, which can lead to the development of a substance use disorder, Including addiction. Dexmethylphenidate hydrochloride extended-release capsules can be diverted for non-medical use into illicit channels or distribution *[see Drug Abuse and Dependence (9.2)]*. Misuse and abuse of CNS stimulants, including dexmethylphenidate hydrochloride extended-release capsules, can result in overdose and death *[see Overdosage (10)]*, and this risk is increased with higher doses or unapproved methods of administration, such as snorting or injection.

Before prescribing dexmethylphenidate hydrochloride extended-release capsules, assess each patient's risk for abuse, misuse, and addiction. Educate patients and their families about these patients Tisk and proper disposal of any unused drug. Advise patients to store demethylphenidate hydrochloride extended-release capsules in a safe place, preferably locked, and instruct patients to not nive rekremethylphenidate hydrochloride extended-release capsules to anyone else. Throughout not give dexmethylphenidate hydrochloride extended-release capsules to anyone else

13193 Package Insert for Dexmethylphenidate Hydrochloride ER Capsules (Ascent-Camber).indd 1

Table 4: Changes (Mean ± SD) in Vital Signs and Weight by Randomized Dose During Double Blind Treatment-Adults observed in post-marketing reports at and at the therapeutic dosage of CNS stimulants in all age groups throughout the course of treatment. Signs and symptoms generally improved after dosage reduction or discontinuation of the CNS stimulant.

Careful observation for digital changes is necessary during dexmethylphenidate hydrochloride extended-release capsules treatment. Further clinical evaluation (e.g., rheumatology referral) may be appropriate for dexmethylphenidate hydrochloride extended-release capsules-treated patients who develop signs or symptoms of peripheral vasculopathy.

5.2 mixes to ration with Serious Gariade Disease Sudden death has been reported in patients with structural cardiac abnormalities or other serious cardiac disease who were treated with CNS stimulants at the recommended ADHD dosage. Avoid dexmethylphenidate hydrochloride extended-release capsules use in patients with known structural cardiac abnormalities, cardiomyopathy, serious cardiac arrhythmia, coronary artery disease, or other serious cardiac disease.

CNS stimulants cause an increase in blood pressure (mean increase approximately 2 to 4 mmHg) and heart rate (mean increase approximately 3 to 6 beats per minute). Some patients may have

Monitor all dexmethylphenidate hydrochloride extended-release capsules-treated patients for hypertension and tachycardia.

CNS stimulants may exacertate symptoms of behavior disturbance and thought disorder in patients with a pre-existing psychotic disorder.

CNS stimulants may induce a manic or mixed mood episode in patients. Prior to initiating dexmethylphenidate hydrochloride extended-release capsules treatment, screen patients for risk factors for developing manic episode (e.g., comorbid or history of depressive symptoms or a family

Instory of suicide, bipolar disorder, of depression). New Psychotic or Manic Symptoms CNS stimulants, at the recommended dosage, may cause psychotic or manic symptoms hallucinations, delusional thinking, or mania) in patients without a prior history of psychotic ill or mania. In a pooled analysis of multiple short-term, placebo-controlled studies of CNS stimulary psychotic or manic symptoms occurred in approximately 0.1% of CNS stimulant-treated pati compared to 0% of placebo-treated patients. If such symptoms occur, consider discontir dexmethylphenidate hydrochloride extended-release capsules.

Prolonged and painful erections, sometimes requiring surgical intervention, have been reported with methylphenidate use in both adult and pediatric male patients. Although priapism was not reported with methylphenidate initiation, it developed after some time on methylphenidate, often subsequent to an increase in dosage. Priapism also occurred during methylphenidate withdrawal (drug holidays

Dexmethylphenidate hydrochloride extended-release capsules-treated patients who dev abnormally sustained or frequent and painful erections should seek immediate medical attention. 5.6 Peripheral Vasculopathy, Including Raynaud's Phenomenon

CNS stimulants, including dexmethylphenidate hydrochloride extended-release capsules, used to

treat ADHD are associated with peripheral vasculopathy, including Raynaud's phenomenon. Signs and symptoms are usually intermittent and mild; however, sequelae have included digital ulceration and/

or soft tissue breakdown. Effects of peripheral vasculopathy, including Raynaud's phenomenon, were

5.7 Long-Term Suppression of Growth in Pediatric Patients

CNS stimulants have been associated with weight loss and slowing of growth rate in pediatric patients In a 7-week, double-blind, placebo-controlled study of dexmethylphenidate hydrochloride extended-release cansules, the mean weight gain was greater for pediatric patients (ages 6 to 17 years) release capsules, the mean weight gain was grea receiving placebo (+0.4 kg) than for patients receiving eiving de

receiving placebo (+0.4 kg) than for patients receiving dexmetnyipnenidate nyorocononue extended release capsules (-0.5 kg). Careful follow-up of weight and height in pediatric patients ages 7 to 10 years who were randomized to either methylphenidate or non-medication treatment groups over 14 months, as well as in naturalistic subgroups of newly methylphenidate-treated and non-medication treated patients over 36 months (to the ages of 10 to 13 years), suggests that pediatric patients who received methylphenidate for 7 days per week throughout the year had a temporary slowing in growth rate (on average, a total of about 2 cm less growth in height and 2.7 kg less growth in weight over 3 years), without evidence of growth rebound during this development period.

Closely monitor growth (weight and height) in dexmethylphenidate hydrochloride extended-release capsules-treated pediatric patients. Pediatric patients who are not growing or gaining height or weight as expected may need to have their treatment interrupted.

5.8 Acute Angle Closure Glaucoma

here have been reports of angle closure glaucoma associated with methylphenidate treatment

Although the mechanism is not clear, dexmethylphenidate hydrochloride extended-release capsules-reated patients considered at risk for acute angle closure glaucoma (e.g., patients with significant typeropia) should be evaluated by an ophthalmologist.

5.9 Increased Intraocular Pressure and Glaucoma

nere have been reports of an elevation of intraocular pressure (IOP) associated with methylphenidate eatment *Isee Adverse Reactions (6.2)*.

reacting beer Autorise Reactions (o.c.). rescribe deximathylphenidiate hydrochloride to patients with open-angle glaucoma or abnormally ncreased IOP only if the benefit of treatment is considered to outweigh the risk. Closely monitor bernethylphenidate hydrochloride extended-release capsules-treated patients with a history of abnormally increased IOP or open angle glaucoma.

5.10 Motor and Verbal Tics, and Worsening of Tourette's Syndrome

CNS stimulants, including methylphenidate, have been associated with the onset or exacerbation of motor and verbal tics. Worsening of Tourette's syndrome has also been reported *[see Adverse* Reactions (6.2)1

Reduction (0.2.). Before initiating dexmethylphenidate hydrochloride extended-release capsules, assess the family history and clinically evaluate patients for tics or Tourette's syndrome. Regularly monitor dexmethylphenidate hydrochloride-treated patients for the emergence or worsening of tics or Tourette's syndrome, and discontinue treatment if clinically appropriate.

6 ADVERSE REACTIONS

- The following are discussed in more detail in other sections of the labeling:
- Abuse, Misuse, and Addiction [see Boxed Warning, Warnings and Precautions (5.1), Drug Abuse and Dependence (9.2, 9.3)]
- Known hypersensitivity to methylphenidate or other ingredients of dexmethylphenidate hydrochloride extended-release capsules [see Contraindications (4)]
- Hypertensive Crisis with Concomitant Use of Monoamine Oxidase Inhibitors [see Contraindications] (4), Drug Interactions (7.1)]
- Risks to Patients with Serious Cardiac Disease *Isee Warnings and Precautions (5.2)*
- ncreased Blood Pressure and Heart Rate [see Warnings and Precautions (5.3)]
- Psychiatric Adverse Reactions [see Warnings and Precautions (5.4)]
- Priapism [see Warnings and Precautions (5.5)]
- Peripheral Vasculopathy, Including Raynaud's Phenomenon [see Warnings and Precautions (5.6)]
- Long-Term Suppression of Growth in Pediatric Patients [see Warnings and Precautions (5.7)]
- Acute Angle Closure Glaucoma [see Warnings and Precautions (5.8)]
- Acute Angle closule of aducting (see Warnings and Frecautions (5.6)) Increased Intracular Pressure and Glaucoma [see Warnings and Precautions (5.9)] Motor and Verbal Tics, and Worsening of Tourette's Syndrome [see Warnings and Precautions

	Dexmethylphenidate Hydrochloride Extended-Release Capsules	Dexmethylphenidate Hydrochloride Extended-Release Capsules	Dexmethylphenidate Hydrochloride Extended-Release Capsules	Placebo
	20 mg (N = 57)	30 mg (N = 54)	40 mg (N = 54)	(N = 53)
Pulse (bpm)	3.1 ± 11.1	4.3 ± 11.7	6.0 ± 10.1	-1.4 ± 9.3
Diastolic BP (mmHg)	-0.2 ± 8.2	1.2 ± 8.9	2.1 ± 8.0	0.3 ± 7.8
Weight (kg)	-1.4 ± 2.0	-1.2 ± 1.9	-1.7 ± 2.3	-0.1 ± 3.9

6.2 Postmarketing Experience

The following additional adverse reactions have been identified during postapproval use of dexmethylphenidate. Because these reactions are reported voluntarily from a population of uncerta size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure

Musculoskeletal rhabdomvolvsis

mmune System Disorders: hypersensitivity reactions, including angioedema and anaphylaxis Adverse Reactions Reported With All Ritalin and Focalin Formulations

The following adverse reactions associated with the use of all Ritalin and Focalin formulations were identified in clinical trials, spontaneous reports, and literature. Because these reactions were reported voluntarily from a population of uncertain size, it is not always possible to estimate their frequency reliably or to establish a causal relationship to drug exposure.

ns and Infestations: nasopharyngitis

Blood and the Lymphatic System Disorders: leukopenia, thrombocytopenia, anemia

Immune System Disorders: hypersensitivity reactions, including angioedema and anaphylaxis

Minimus system bisorders, hypersensitivity reactions, including anglecterina and anaphyticits Metabolism and Nutrition Disorders: decreased appetite, reduced weight gain, and suppression of growth during prolonged use in pediatric patients

Systhatic Disorders: insomnia, anxiety restlessness, agitation, psychosis (sometimes with visual and tactile hallucinations), depressed mood, depression

Vervous System Disorders: headache, dizziness, tremor, dyskinesia, including choreoathetoid movements, drowsiness, convulsions, cerebrovascular disorders (including vasculitis, cerebral hemorrhages and cerebrovascular accidents), serotonin syndrome in combination with serotonergic drugs

Eye Disorders: blurred vision, difficulties in visual accommodation Cardiac Disorders: tachycardia, palpitations, increased blood pressure, arrhythmias, angina pectoris Respiratory, Thoracic, and Mediastinal Disorders: cough

Gastrointestinal Disorders: dry mouth, nausea, vomiting, abdominal pain, dyspepsia

epatobiliary Disorders: abnormal liver function, ranging from transa elevation to sever

Skin and Subcutaneous Tissue Disorders: hyperhidrosis, pruritus, urticaria, exfoliative dermatitis, scalp hair loss, erythema multiforme rash, thrombocytopenic purpura

Musculoskeletal and Connective Tissue Disorders: arthralgia, muscle cramps, rhabdomvolvsis, trismus

Investigations: weight loss (adult ADHD patients)

Vascular Disorders: peripheral coldness, Raynaud's phenomenoi

Additional Adverse Reactions Reported with Other Methylphenidate Products

The list below shows adverse reactions not listed with Ritalin and Focalin formulations that have been reported with other methylphenidate products based on clinical trials data and post-marketing spontaneous reports. *Blood and Lymphatic Disorders:* pancytopenia

Immune System Disorders: hypersensitivity reactions, such as auricular swelling, bullous conditions, eruptions, exanthemas

Psychiatric Disorders: affect lability, mania, disorientation, libido changes

Nervous System Disorders: migraine, motor and verbal tics

Eye Disorders: diplopia, increased intraocular pressure, mydriasis

Cardiac Disorders: sudden cardiac death. myocardial infarction, bradycardia, extrasystole,

specific learning task was observed in females only. The doses at which these findings were observed are at least 6 times the MRHD of 60 mg/day given to children on a mg/m² basis. In a study conducted in young rats, racemic methylphenidate was administered orally at doses of up to 100 mg/kg/day for 9 weeks, starting early in the postnatal period (postnatal Day 7) and continuing through sexual maturity (postnatal Week 10). When these animals were tested as adults (postnatal Weeks 13 to 14), decreased spontaneous locomotor activity was observed in males and females previously treated with 50 mg/kg/day (approximately 4 times the MRHD of 60 mg/day of racemic methylphenidate given to children on a mg/m² basis) or greater, and a deficit in the acquisition of a specific learning task was seen in females exposed to the highest dose (8 times the MRHD given to children on a mg/m² basis). The no effect level for juvenile neurobehavioral development in rats was 5 mg/kg/day (approximately 0.5 times the MRHD given to children on a mg/m² basis). The clinical significance of the long-term behavioral effects observed in rats is unknown. **8.5 Geriatric Use**

8.5 Geriatric Use

Dexmethylphenidate hydrochloride extended-release capsules have not been studied in the geriatric populatio

9 DRUG ABUSE AND DEPENDENCE

9.1 Controlled Substance

Dexmethylphenidate hydrochloride extended-release capsules contains dexmethylphenidate hydrochloride. a Schedule II controlled substance

9.2 Abuse

Dexmethylphenidate hydrochloride extended-release capsules have a high potential for abuse and misuse which can lead to the development of a substance use disorder, including addiction [see Warnings and Precautions [5.1]). Dexmethylphenidate hydrochloride extended-release capsules can be diverted for non-medical use into illicit channels or distribution.

Abuse is the intentional non-therapeutic use of a drug, even once, to achieve a desired psychological of physiological effect. Misuse is the intentional use, for therapeutic purposes, of a drug by an individual in a way other than prescribed by a health care provider or for whom it was not prescribed. Drug addiction is a cluster of behavioral, cognitive, and physiological phenomena that may include a strong desire to take the drug, difficulties in controlling drug use (e.g., continuing drug use despite harmfu consequences, giving a higher priority to drug use than other activities and obligations), and possible tolerance or physical dependence.

Misuse and abuse of methylphenidate may cause increased heart rate, respiratory rate, or blood pressure: sweating: dilated pupils: hyperactivity: restlessness: insomnia: decreased appetite: los of coordination tremors: flushed skin: vomiting, and/or abdominal pain Anxiety psychosis hostility aggression, and suicidal or homicidal ideation have also been observed with CNS stimulants abuse and/or misuse. Misuse and abuse of CNS stimulants, including dexmethylphenidate hydrochloride extended-release capsules, can result in overdose and death *[see Overdosage (10)]*, and this risk is increased with higher doses or unapproved methods of administration such as sporting or injection

9.3 Dependence

Physical Dependence

Dexmethylphenidate hydrochloride extended-release capsules may produce physical dependence. Physical dependence is a state that develops as a result of physiological adaptation in response to repeated drug use, manifested by withdrawal signs and symptoms after abrupt discontinuation or a significant dose reduction of a drug.

Withdrawal signs and symptoms after abrupt discontinuation or dose reduction following prolonged use of CNS stimulants including dexmethylohenidate hydrochloride extended-release capsules include dysphoric mood; depression; fatigue; vivid, unpleasant dreams; insomnia or hypersomnia; increased appetite; and psychomotor retardation or agitation.

<u>Tolerance</u>

Dexmethylphenidate hydrochloride extended-release capsules may produce tolerance. Tolerance is a physiological state characterized by a reduced response to a drug after repeated administration (i.e., a higher dose of a drug is required to produce the same effect that was once obtained at a lower dose). 10 OVERDOSAGE

Clinical Effects of Overdose

Overdose of CNS stimulants is characterized by the following sympathomimetic effects:

- Cardiovascular effects including tachyarrhythmias, and hypertension or hypotension. Vasospasm, myocardial infarction, or aortic dissection may precipitate sudden cardiac death. Takotsubo cardiomyopathy may develop.
- CNS effects including psycho CNS effects including psycho constraints of the sector of
- Overdose Management Consider the possibility of multiple drug ingestion. The pharmacokinetic profile of dexmethylphenidate

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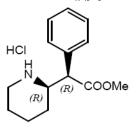


hydrochloride extended-release capsules should be considered when treating patients with overdose. Because methylphenidate has a large volume of distribution and is rapidly metabolized, dialysis is not useful. Consider contacting the Poison Help line (1-800-222-1222) or a medical toxicologist for additional overdose management recommendations.

11 DESCRIPTION

11 DESCRIPTION Dexmethylphenidate hydrochloride extended-release capsules contains dexmethylphenidate hydrochloride, a CNS stimulant. Dexmethylphenidate hydrochloride is the *d-threo* enantiomer of racemic methylphenidate hydrochloride. Dexmethylphenidate hydrochloride extended-release apsules are an extended-release formulation of dexmethylphenidate with a bi-modal release profile. Each bead-filled dexmethylphenidate hydrochloride extended-release capsule contains half the dose as immediate-release beads and half as enteric-coated, delayed-release beads, thus providing an immediate release of dexmethylphenidate and a delayed release of dexmethylphenidate. Dexmethylphenidate hydrochloride extended-release capsules are intended for oral administration and are available as 5 mg, 10 mg, 15 mg, 20 mg, 25 mg, 30 mg, 35 mg, and 40 mg extended-release

Chemically, dexmethylphenidate hydrochloride is methyl α -phenyl-2-piperidineacetate hydrochloride, (R,R')-(+)-. Its molecular formula is C₁₄H₁₉NO₂•HCI. Its structural formula is:



Dexmethylphenidate hydrochloride is a white crystalline powder. Its solutions are acid to litmus. It is freely soluble in water and in methanol, soluble in alcohol, and slightly soluble in chloroform and in acetone. Its molecular weight is 269.77 g/mol.

Inactive ingredients: Polyethylene glycol, sugar spheres (which contain corn starch and sucrose) machine ingrements: Polyenyette typed, suga spinets (which contain to the starth and sources), ammonio methacrylate copolymer, methacrylic acid and methyl methacrylate copolymer, triethyl citrate, talc, acetone, isopropyl alcohol, titanium dioxide, gelatin and sodium lauryl suffate. The ink ingredients common for all strengths are shellac, dehydrated alcohol, isopropyl alcohol, butyl alcohol, propylene glycol, and strong ammonia solution. Additional ink ingredients in 5 mg, 10 mg, 15 mg, 20 mg, 25 mg, 30 mg and 40 mg strengths are black iron oxide and potassium hydroxide, 35 mg strength ir red iron oxide. is red iron oxide.

Each strength capsule also contains colorant ingredients in the capsule shell as follows

5 mg: FD&C blue No. 1, FD&C red No. 3, FD&C yellow No. 6 and D&C yellow No. 10

- 10 mg: contains no colorants 15 mg: FD&C vellow No. 6 and D&C vellow No. 10
- 20 mg: FD&C red No. 40, FD&C blue No. 1 and D&C yellow No. 10 25 mg: FD&C red No. 40, FD&C blue No. 1 and D&C yellow No. 10

30 mg: contains no colorants

35 mg: contains to colorants
35 mg: Iron oxide yellow
40 mg: FD&C yellow No. 6 and D&C yellow No. 10
12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Dexmethylphenidate hydrochloride is a CNS stimulant. The mode of therapeutic action in ADHD is not known

12.2 Pharmacodynamics Dexmethylphenidate is the more pharmacologically active *d*-enantiomer of racemic methylphenidate

Methylphenidate blocks the reuptake of norepinephrine and dopamine into the presynaptic neuron and increase the release of these monoamines into the extraneuronal space. Cardiac Electrophysiology

At the recommended maximum total daily dosage of 40 mg, dexmethylphenidate hydrochloride extended-release capsules does not prolong the QTc interval to any clinically relevant extent. 12.3 Pharmacokinetics

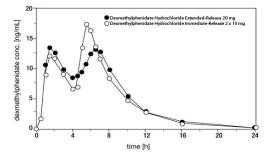
Absorption

Absorption Dexmethylphenidate hydrochloride extended-release capsules produces a bi-modal plasma concentration-time profile (i.e., 2 distinct peaks approximately 4 hours apart) when orally administered to healthy adults. The initial rate of absorption for dexmethylphenidate hydrochloride extender-release capsules is similar to that of dexmethylphenidate hydrochloride tablets as shown by the similar rate parameters between the 2 formulations, i.e., first peak concentration (D_{maxt}), and time to the first peak (R_{max}), which is reached in 1.5 hours (typical range 1 to 4 hours). The mean time to the interpeak minimum (R_{min}) is slightly shorter, and time to the second peak (R_{max2}) is slightly longer for dexmethylphenidate hydrochloride extended-release capsules given once daily (about 6.5 hours; range, 4.5 to 7 hours) compared to dexmethylphenidate hydrochloride tablets given in 2 doses 4 hours apart (see Figure 1), although the ranges observed are greater for dexmethylphenidate hydrochloride extended-release capsules.

Dexmethylphenidate hydrochloride extended-release capsules given once daily exhibits a lower second peak concentration (C_{max2}), higher interpeak minimum concentrations (C_{minp}), and fewer peak and trough fluctuations than dexmethylphenidate hydrochloride tablets given in 2 doses given 4 hours apart. This is due to an earlier onset and more prolonged absorption from the delayed-release beads (see Figure 1).

(see Figure 1). The ratio of geometric mean of AUC_(0-imf) and C_{max} after administration of dexmethylphenidate hydrochloride extended-release capsules given once daily are 1.02 and 0.86 respectively, to the same total dose of dexmethylphenidate hydrochloride tablets given in 2 doses 4 hours apart. The variability in C_{max} C_{min} and AUC is similar between dexmethylphenidate hydrochloride extended-release capsules and dexmethylphenidate hydrochloride tablets with approximately a 3-fold range in each

In each. Approximately 90% of the dose is absorbed after oral administration of radiolabeled racemic. methylphenidate. However, due to first pass metabolism the mean absolute bioavailability of dexmethylphenidate when administered in various formulations was 22% to 25%. Figure 1. Mean Dexmethylphenidate Plasma Concentration-Time Profiles After Administration 1 x 20 ng Dexmethylphenidate Hydrochloride Extended-Release (n = 24) Capsules and 2 x 10 mg Dexmethylphenidate Hydrochloride Immediate-Release Tablets (n = 25)



After single dose administration, dexmethylphenidate hydrochloride extended-release capsules demonstrated dose proportional pharmacokinetics (PK) in the range of 5 mg to 40 mg. For patients unable to swallow the capsule, the contents may be sprinkled on applesauce and administered (see Dosage and Administration (2)). Distribution

The plasma protein binding of dexmethylphenidate is not known: racemic methylphenidate is bound to plasma proteins by 12% to 15%, independent of concentration. Dexmethylphenidate shows a volume of distribution of 2.65 ± 1.11 L/kg.

approximately 4 times the MRHD (children) of 60 mg/day of racemic methylphenidate in children on a mg/m2 basis.

In a 24-week carcinogenicity study with racemic methylphenidate in the transgenic mouse strain p53+/-, which is sensitive to genotoxic carcinogens, there was no evidence of carcinogenicity. Male and female mice were fed diets containing the same concentrations as in the lifetime carcinogenicity study; the high-dose group was exposed to 60 to 74 mg/kg/day of racemic methylphenidate Mutagenesis

Dexmethylphenidate was not mutagenic in the in vitro Ames reverse mutation assay, in the in vitro mouse lymphoma cell forward mutation assay, or in the *in vivo* mouse bone marrow micronucleus test. In an *in vitro* assay using cultured Chinese Hamster Ovary cells treated with racemic methylphenidate, sister chromatid exchanges and chromosome aberrations were increased, indicative of a weak clastogenic response. Impairment of Fertility

No human data on the effect of methylphenidate on fertility are available

Forlithy studies have not been conducted with dexmethylphenidate. Racemic methylphenidate did not impair fertility in male or female mice that were fed diets containing the drug in an 18-week continuous breeding study. The study was conducted at doese of up to 160 mg/kg/kg/ay, approximately 10 times the MRHD of 60 mg/day of racemic methylphenidate given to adolescents on a mg/m² basis. 14 CLINICAL STUDIES

14.1 Pediatric Patients

14.1 Pediatric Patients
A randomized, double-bilind, placebo-controlled, parallel-group study (Study 1) was conducted in 103 pediatric patients (ages 6 to 12, n = 86; ages 13 to 17, n = 17) who met DSM-IV criteria for ADHD inattentive, hyperactive-impulsive or combined inattentive/hyperactive-impulsive subtypes (Study 1). Patients were randomized to receive either a flexible-dose of dexmethylphenidate hydrochloride extended-release capsules (5 to 30 mg/day) or placebo once daily for 7 weeks. During the first 5 weeks of treatment, patients were titrated to their optimal dose and remained on this optimal dose for the last 2 weeks of the study without dose changes or interruption.

Signs and symptoms of ADHD were evaluated by comparing the mean change from baseline to endpoint for dexmethylphenidate hydrochloride extended-release capsules and placebo-treated patients using an intent-to-treat analysis of the primary efficacy outcome measure, the DSM-IV total subscale score of the Conners ADHD/DSM-IV Scales for teachers (CADS-T). The CADS-T includes the ADHD Index (12 items) and the DSM-IV total subscale (18 items, total score range: 0 to 54); the latter is divided into inattentive (9 items) and hyperactive-impulsive (9 items) subscales. Teachers assessed behavior observed during the school day by completing the CADS-T weekly. A decrease in the CADS-T DSM-IV total subscale score from baseline indicates improvement.

Down-IV total subscale score from baseline indicates improvement. The CADS-T total scores showed a statistically significant treatment effect in favor of dexmethylphenidate hydrochloride extended-release capsules than placebo (Table 6). There were insufficient adolescents enrolled in this study to assess the efficacy for dexmethylphenidate hydrochloride extended-release capsules in the adolescent population. However, pharmacokinetic considerations and evidence of effectiveness of immediate-release dexmethylphenidate hydrochloride tablets in adolescents support the effectiveness of dexmethylphenidate hydrochloride extended-release capsules in this population.

Table 6: Summary of Efficacy Results from ADHD Study in Pediatric Patients (6 - 17 years) (Study 1)

Study number	Treatment group	Primary efficacy measure: CADS-T total score		
		Mean baseline score (SD)	LS mean change from baseline (SE)	Placebo-subtracted difference ^a (95% CI)
Study 1	Dexmethylphenidate Hydrochloride Extended- Release Capsules 5-30 mg/day (n = 52)	33.3 (9.18)	16.41 (1.8)	10.64 (5.38, 15.91)
	Placebo (n = 45)	34.9 (10.03)	5.77 (1.93)	

Abbreviations: ADHD, attention deficit hyperactivity disorder: SD, standard deviation: SE, standard error: LS Mean, leastsquares mean; CI, confidence interval, not adjusted for multiple comparisons

ence (drug minus placebo) in least-squares mean change from base

In 2 additional cross-over studies (Studies 2 and 3) in pediatric patients ages 6 to 12 years, who received 20 mg dexmethylphenidate hydrochloride extended-release capsules or placebo, dexmethylphenidate 2c ing upcrite any pinetindate hydrocholde extended release capsates of piaceot, ucwhery pinetindate hydrocholde extended-release capsules were found to have a statistically significant treatment effect versus placebo on the Swanson, Kotkin, Agler, M-Flynn & Pelham (SKAMP) rating scale total scores at all-ime points after dosing in each study (0.5, 1, 3, 4, 5, 7, 9, 10, 11, and 12 hours in Study 2 and 1, 2, 4, 6, 8, 9, 10, 11, and 12 hours in the study 3). SKAMP is a validated 13-item teacher-rated scale that assesses manifestations of ADHD in a classroom setting. A treatment effect was also observed 0.5 hours after administration of dexmethylphenidate hydrochloride extended-release capsules 20 mg in an additional study of ADHD patients ages 6 to 12 years.

14 2 Adult Patients

Study number

14.2 Adult Patients A randomized, double-blind, placebo-controlled, parallel-group (Study 4) was conducted in 221 adult patients ages 18 to 60 years who met DSM-IV criteria for ADHD inattentive, hyperactive-impulsive or combined inattentive/hyperactive-impulsive subtypes (Study 4).
Patients were randomized to receive either a fixed dose of dexmethylphenidate hydrochloride extended-release capsules (20, 30, or 40 mg/day) or placebo once daily for 5 weeks. Patients randomized to dexmethylphenidate hydrochloride extended-release capsules were initiated on a 10 mg/day starting dose and titrated in increments of 10 mg/week to the randomly assigned fixed dose. Patients were maintained on their fixed dose (20, 30, or 40 mg/day) for a minimum of 2 weeks.

Signs and symptoms of ADHD were evaluated by comparing the mean change from baseline to endpoint for dexmethylphenidate hydrochloride extended-release capsules and placebo-treated patients using an intent-to-treat analysis of the primary efficacy outcome measure, the investigator-administered DSM-IV Attention-Deficit/Hyperactivity Disorder Rating Scale (DSM-IV ADHD RS).

administered bow-rv Attention-benchryperactivity bisotier Haung Scale (DSM-rv ADH) ASJ. The DSM-rv ADHD-RS is an 18-item questionnaire with a score range of 0 to 54 points that measures the core symptoms of ADHD and includes both hyperactive/impulsive and inattentive subscales. All 3 dexmethylphenidate hydrochioride extended-release capsules doses (20, 30, and 40 mg/day) showed a statistically significant treatment effect compared to placebo. There was no obvious increase in effectiveness with increasing the dose. Table 7: Summary of Efficacy Results from ADHD Study in Adults (Study 4)

Treatment group Primary efficacy Measure: ADHD-RS total score

		Mean baseline score (SD)	LS mean change from baseline (SE)	Placebo-subtracted difference ^a (95% CI)
Study 4	Dexmethylphenidate Hydrochloride Extended- Release Capsules 20 mg/day (n = 57)	36.8 (7.2)	13.27 (1.44)	5.71 (1.64, 9.78)
	Dexmethylphenidate Hydrochloride Extended- Release Capsules 30 mg/day (n = 54)	36.9 (8.07)	12.86 (1.48)	5.31 (1.18, 9.44)
	Dexmethylphenidate Hydrochloride Extended- Release Capsules 40 mg/day (n = 54)	36.9 (8.25)	16.51 (1.48)	8.96 (4.83, 13.08)
	Placeho			

37.5 (7.82) 7.55 (1.49) Abbreviations: ADHD, attention deficit hyperactivity disorder; SD, standard deviation; SE, standard error; LS Mean, leas squares mean; Cl, confidence interval, not adjusted for multiple comparisons.

mean change from baseline 16 HOW SUPPLIED/STORAGE AND HANDLING

Devenettyphenidate hydrochloride extended-release capsules are available containing 5 mg, 10 mg, 15 mg, 20 mg, 25 mg, 30 mg, 35 mg or 40 mg of dexmethylphenidate hydrochloride. 5 mg extended-release capsules are hard gelatin capsule size "2" light brown cap and white opaque body, imprinted with "MS" on cap and "AC" on body in black ink filled with white to off white spherical pellets. They are available as follows: NDC 31722-229-01 bottles of 100 capsules 10 mg extended-release capsules are hard gelatin capsule size "2" white opaque cap and white opaque body, imprinted with "M10" on cap and "AC" on body in black ink filled with white to off white pherical pellets. They are available as follows: NDC 31722-230-01 bottles of 100 capsules 15 mg extended-release capsules are hard gelatin capsule size "1" yellow opaque cap and white opaque body, imprinted with "M15" on cap and "AC" on body in black ink filled with white to off white spherical pellets. They are available as follows: NDC 31722-231-01 bottles of 100 cansules 20 mg extended-release capsules are hard gelatin capsule size "1" light brown cap and white opaque body, imprinted with "M20" on cap and "AC" on body in black ink filled with white to off white spherical bellets. They are available as follows: NDC 31722-232-01 bottles of 100 capsules 25 mg extended-release capsules are hard gelatin capsule size "0" yellow opaque cap and white opaque body, imprinted with "M25" on cap and "AC" on body in black ink filled with white to off white spherical pellets. They are available as follows: NDC 31722-233-01 bottles of 100 capsules 30 mg extended-release capsules are hard gelatin capsule size "00" white opaque cap and white opaque body, imprinted with "M30" on cap and "AC" on body in black ink filled with white to off white spherical pellets. They are available as follows: NDC 31722-234-01 bottles of 100 capsules 35 mg extended-release capsules are hard gelatin capsule size "00" light yellow opaque cap and light yellow opaque body, imprinted with "M35" on cap and "AC" on body in red ink filled with white to off white spherical pellets. They are available as follows: NDC 31722-235-01 bottles of 100 capsules 40 mg extended-release capsules are hard gelatin capsule size "00" yellow opaque cap and white opaque body, imprinted with "M40" on cap and "AC" on body in black ink filled with white to off white spherical pellets. They are available as follows: NDC 31722-236-01 bottles of 100 capsules Not 31722-230-01 buttles of 100 capacities Store at 20°C to 25°C (68°F to 77°F); with excursions permitted between 15°C and 30°C (59°F to 86°F) [see USP Controlled Room Temperature]. Dispense in tight container (USP). 17 PATIENT COUNSELING INFORMATION lvise patients to read the FDA-approved patient labeling (Medication Guide). Abuse, Misuse, and Addiction Educate patients and their families about the risks of abuse, misuse, and addiction of dexmethylphenidate hydrochloride extended-release capsules, which can lead to overdose and death, and proper disposal of any unused drug *[see Warnings and Precautions (5.1), Drug Abuse* and Dependence (9.2), Overdosage (10)]. Advise patients to store dexmethylphenidate hydrochloride extended-release capsules in a safe place, preferably locked, and instruct patients to not give release capsule. dexmethylphenidate hydrochloride extended-release capsules to anyone else Advise patients that there are potential risks to patients with serious cardiac disease, including sudden death, with dexmethylphenidate hydrochloride extended-release capsules use. Instruct patients to contact a healthcare provider immediately if they develop symptoms, such as exertional chest pain, unexplained syncope, or other symptoms suggestive of cardiac disease *[see Warnings and Precautions (5.2)]*. Increased Blood Pressure and Heart Rate Instruct patients that dexmethylphenidate hydrochloride extended-release capsules can cause ns of their blood pressure and pulse rate *Isee Warnings and Precautions (5.3*

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 dexmethylphenidate hydrochloride extended-release capsules. Further clinical evaluation (e.g., rheumatology referral) may be appropriate for certain patients [see Warnings and Precautions (5.6)].

Long-Term Suppression of Growth in Pediatric Patients

Advise patients that dexmethylphenidate hydrochloride extended-release capsules may cause slowing of growth and weight loss (see Warnings and Precautions (5.7)]. Increased Intraocular Pressure (IOP) and Glaucoma

Advise patients that IOP and glaucoma may occur during treatment with dexmethylphenidate hydrochloride extended-release capsules [see Warnings and Precautions (5.9)]. Motor and Verbal Tics, and Worsening of Tourette's Syndrome

Advise patients that motor and verbal tics and worsening of Tourette's Syndrome may occur during treatment with dexmethylphenidate hydrochloride extended-release capsules. Instruct patients to notify their healthcare provider if emergence of new tics or worsening of tics or Tourette's syndrome occurs [see Warnings and Precautions (5.10)].

Pregnancy Registry Advise patients that there is a pregnancy exposure registry that monitors pregnancy outcomes in patients exposed to ADHD medications, including dexmethylphenidate hydrochloride extended-release capsules, during pregnancy [see Use in Specific Populations (8.1)].

Manufactured by: Ascent Pharm uticals. Inc Central Islip, NY 11722

Manufactured for:

Camber Pha naceuticals. Inc. Piscataway, NJ 08854

Rev: 08/24

MEDICATION GUIDE Dexmethylphenidate Hydrochloride (dex meth" il fen' i date hye" droe klor' ide) Extended-Release Capsules, Cll

What is the most important information I should know about dexmethylphenidate hydrochloride extended-release capsules?

Dexmethylphenidate hydrochloride extended-release capsules may cause serious side effects, including: Abuse, misuse, and addiction. Dexmethylphenidate hydrochloride extended-release capsule

have a high chance for abuse and misuse and may lead to substance use problems, including addiction. Misuse and abuse of dexmethylphenidate hydrochloride extended-release capsules, other methylphenidate containing medicines, and amphetamine containing medicines, can lead to overdose and death. The risk of overdose and death is increased with higher doses of dexmethylphenidate hydrochloride extended-release capsules or when it is used in ways that are not approved, such as snorting or injection.

- Your healthcare provider should check you or your child's risk for abuse, misuse, and addiction before starting treatment with dexmethylphenidate hydrochloride extended-release capsules and will monitor you or your child during treatment.
- Dexmethylphenidate hydrochloride extended-release capsules may lead to physical dependence after prolonged use, even if taken as directed by your healthcare provide
- Do not give dexmethylphenidate hydrochloride extended release capsules to a See "What are dexmethylphenidate hydrochloride extended-release capsules to a see "What are dexmethylphenidate hydrochloride extended-release capsules to a set of the second seco ease capsules to anyone els more information.
- Keep dexmethylphenidate hydrochloride extended-release capsules in a safe place and 0 properly dispose of any unused medicine. See "How should I store dexmethylphenidate hydrochloride extended-release capsules?" for more information. Tell your healthcare provider if you or your child have ever abused or been dependent or alcohol, prescription medicines, or street drugs.
- Risks for people with serious heart disease. Sudden death has happened in people who have s or other serious heart disease

r healthcare provider should check you or your child carefully for heart problems before starting dexmethylphenidate hydrochloride extended-release capsules. Tell your healthcare provider if you or your child have any heart problems, heart disease, or heart defects.

Call your healthcare provider or go to the nearest hospital emergency room right away if you or your child has any signs of heart problems, such as chest pain, shortness of breath, or fainting while taking dexmethylphenidate hydrochloride extended-release capsules.

Increased blood pressure and heart rate. Your healthcare provider should check you of your child's blood pressure and heart rate regularly during treatment with dexmeth

- ded-release capsules. ydrochloride exte Mental (psychiatric) problems:
- All Patients new or worse behavior and thought problems
- new or worse bipolar illness
- new psychotic symptoms (such as hearing voices, believing things that are not true, are suspicious) or new manic symptoms

Tell your healthcare provider about any mental problems you or your child have, or about a family history of suicide, bipolar illness, or depression. Call your healthcare provider right away if you or your child have any new or worsening

mental symptoms or problems while taking dexmethylphenidate hydrochloride extended-release capsules, especially seeing or hearing things that are not real, believing things that are not real, or are suspicious.

What are dexmethylphenidate hydrochloride extended-release capsules?

Dexmethylphenidate hydrochloride extended-release capsules are a central nervous system stimulant (CNS) prescription medicine. They are used for the treatment of Attention-Deficit Hyperactivity Disorder (ADHD). Dexmethylphenidate hydrochloride extended-release capsules may help increase attention and decrease impulsiveness and hyperactivity in patients with ADHD.

Dexmethylphenidate hydrochloride extended-release capsules should be used as a part of a total treatment program for ADHD that may include counseling or other therapies.

ethylphenidate hydrochloride extended-release capsules is a federally controlle substance (CII) because in a safe place to protect it from theft. Never give your dexmethylphenidate hydrochloride extended-release capsules to anyone else because it may cause death or harm them Selling or giving away dexmethylphenidate hydrochloride extended-release capsules may harr others and is against the law.

Who should not take dexmethylphenidate hydrochloride extended-release capsules ylphenidate hydrochloride extended-release capsules should not be your child

are allergic to methylphenidate hydrochloride, or any of the ingredients in dexmethylphenidate are any to the extended relase capsules. See the end of this Medication Guide for a complete list of ingredients in dexmethylphenidate hydrochloride extended-release capsules. are taking or have taken within the past 14 days an anti-depression medicine called

oxidase inhibitor (MAOI). Dexmethylphenidate hydrochloride extended-release capsules may not be right for you or your child. Before starting dexmethylphenidate hydrochloride extended-release capsules, tell your or your child's healthcare provider about all health conditions (or a family history of),

- heart problems. heart disease, heart defects, or high blood pressure
- mental problems, including psychosis, mania, bipolar illness, or depression
- circulation problems in fingers or toes have eye problems, including increased pressure in your eye, glaucoma, or problems with your
 - vision (farsighted

What are the possible side effects of dexmethylphenidate hydrochloride extended-rel apsules? Dexmethylphenidate hydrochloride extended-release capsules may cause serious sid

see "What is the most important information I should know about dexmethyl

painful and prolonged erections (priapism) have occurred with methylphenidate. your child develops priapism, seek medical help right away. Because of the potential for lasting

damage, priapism should be evaluated by a healthcare provider immediately.

fingers or toes may feel numb, cool, painful

fingers or toes may change color from pale, to blue, to red

e stopped if your child is not growing or gaining weight.

decreased

appetite

hydrochloride extended-release capsules?" for information on reported heart and mental

circulation problems in fingers and toes (peripheral vasculopathy, including Raynaud'

Tell your healthcare provider if you or your child have, numbness, pain, skin color change, o sensitivity to temperature in the fingers or toes.

unexplained wounds appearing on fingers or toes while taking dexmeth hydrochloride extended-release capsules.

treatment with dexmethylphenidate hydrochloride extended-release capsules.

dry mouth
 dyspepsia
 headache
 anxiety
 pharyngolaryngeal pain

How should I store dexmethylphenidate hydrochloride extended-release capsules?

tightly closed container at room temperature between 68°F to 77°F (20°C to 25°C).

Call your doctor for medical advice about side effects. You may report side effects to FDA a

Store dexmethylphenidate hydrochloride extended-release capsules in a safe place and in

Dispose of remaining unused or expired dexmethylphenidate hydrochloride extended-release

capsules by a medicine take-back program at a U.S. Drug Enforcement Administration (DEA) authorized collection site. If no take-back program or DEA authorized collector is available, mix dexmethylphenidate hydrochloride extended-release capsules with an undesirable, nontxic substance such as dirt, cat litter, or used coffee grounds to make it less appealing to children

and pets. Place the mixture in a container, such as a sealed plastic bag and throw away (discard

dexmethylphenidate hydrochloride extended-release capsules in the household trash. Visi

Keep dexmethylphenidate hydrochloride extended-release capsules and all medicine

General information about the safe and effective use of dexmethylphenidate hydrochlorid

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. You can ask your pharmacist or healthcare provider for information about dexmethylphenidate hydrochloride extended-release capsules that is written for healthcare professionals. Do not use

dexmethylphenidate bydrochloride extended-release capsules for a condition for which it was not

prescribed. To not give dexmethylphenidate hydrochloride extended-release capsules to other people, even if they have the same symptoms that you have. It may harm them and it is again:

Inactive ingredients: Polyethylene glycol, sugar spheres (which contain corn starch and sucrose

ammonio methacrylate copolymer, methacrylic acid and methyl methacrylate copolymer, triethyl citrate, talc, acetone, isopropyl alcohol, titanium dioxide, gelatin and sodium lauryl sulfate. The ink ingredients common for all strengths are shellac, dehydrated alcohol, isopropyl alcohol, butyl alcohol, propylene glycol, and strong ammonia solution. Additional ink ingredients in 5 mg, 10 mg,

15 mg, 20 mg, 25 mg, 30 mg and 40 mg strengths are black iron oxide and potassium hydroxide

Each strength capsule also contains colorant ingredients in the capsule shell as follows: 5 mg: FD&C blue No. 1, FD&C red No. 3, FD&C yellow No. 6 and D&C yellow No. 10

What are the ingredients in dexmethylphenidate hydrochloride extended-release cap

ww.fda.gov/drugdisposal for additional information on disposal of unused medicin

Call your healthcare provider right away if you have or your child has any signs of

Slowing of growth (height and weight) in children. Children should have their height and

weight checked often during treatment with dexmethylphenidate hydrochloride extended

Eye problems (increased pressure in the eye and glaucoma). Call your healthcare provide

right away if you or your child develop changes in your vision or eye pain, swelling, or redness. New or worsening tics or worsening Tourette's syndrome. Tell your healthcare provider if you or your child get any new or worsening tics or worsening Tourette's syndrome during

headache

anxiety

Rev: 08/24

ase capsules. Dexmethylphenidate hydrochloride extended-release capsules treatment ma

effects, including

problems

phenomenon):

Common side effects include

out of the reach of children

ed-release capsules.

35 mg strength is red iron oxide

10 mg: contains no colorants

35 mg: Iron oxide yellow

Manufactured for:

Manufactured by: Ascent Pharmaceuticals, Inc. Central Islip, NY 11722

Camber Pharmaceuticals, Inc. iscataway, NJ 08854

Active ingredient: dexmethylphenidate hydrochloride

15 mg: FD&C yellow No. 6 and D&C yellow No. 10

25 mg: FD&C yellow No. 6 and D&C yellow No. 10 30 mg: contains no colorants

40 mg: FD&C yellow No. 6 and D&C yellow No. 10

For more information, call 1-866-495-8330.

20 mg: FD&C red No. 40, FD&C blue No. 1 and D&C yellow No. 10

Medication Guide available at http://camberpharma.com/medication-guides

This Medication Guide has been approved by the U.S. Food and Drug Administration

Children (6 - 17 years)

dyspepsia

1-800-FDA-1088.

Adults

<u>Limination</u> Plasma dexmethylphenidate concentrations decline monophasically following oral administration of dexmethylphenidate hydrochloride extended-release capsules. The mean terminal elimination half-life of dexmethylphenidate was about 3 hours in healthy adults. Pediatric patients tend to have slightly shorter half-lives with means of 2 to 3 hours. Dexmethylphenidate was eliminated with a mean clearance of 0.40 \pm 0.12 L/hr/kg after intravenous administration.

Metabolism

In humans dexmethylphenidate is metabolized primarily via de-esterification to $d_{-\alpha}$ -phenyl-piperidipe acetic acid (also known as *d*-ritalinic acid). This metabolite has little or no pha There is no *in vivo* interconversion to the *I-threo*-enantiome

After oral dosing of radiolabeled racemic methylphenidate in humans, about 90% of the radioactivity was recovered in urine. The main urinary metabolite of racemic *dl*-methylphenidate was *dl*-ritalinic acid, accountable for approximately 80% of the dose. Urinary excretion of parent compound accounted for 0.5% of an intravenous dose.

Studies in Specific Populations

Male and Female Pat

After administration of dexmethylphenidate hydrochloride extended-release capsules, the first peak, (C_{max1}) was on average 45% higher in women. The interpeak minimum and the second peak also tended to be slightly higher in women atthough the difference was not statistically significant, and these patterns remained even after weight normalization.

Racial or Ethnic Groups

There is insufficient experience with the use of dexmethylphenidate hydrochloride extended-release capsules to detect ethnic variations in pharmacokinetics.

Pediatric Patients

The pharmacokinetics of dexmethylphenidate after dexmethylphenidate hydrochloride extendedrelease capsules administration have not been studied in pediatrics less than 18 years of age. When a similar formulation of racemic methylphenidate was examined in 15 patients between 10 and 12 years of age, and 3 patients with ADHD between 7 and 9 years of age, the time to the first peak was similar, although the time until the between peak minimum, and the time until the second peak were delayed and more variable in pediatric patients compared to adults. After administration of the same dose to pediatric patients and adults, concentrations in pediatric patients were approximately twice the concentrations observed in adults. This higher exposure is almost completely due to smaller body size as no relevant age-related differences in dexmethylphenidate pharmacokinetic parameters (i.e. clearance and volume of distribution) are observed after normalization to dose and weight

Patients with Renal Imnairment

There is no experience with the use of dexmethylphenidate hydrochloride extended-release capsules in patients with renal impairment. Since renal clearance is not an important route of methylphenidate elimination, renal impairment is expected to have little effect on the pharmacokinetics of dexmethylphenidate hydrochloride extended-release capsules.

Patients with Hepatic Impairment

There is no experience with the use of dexmethylphenidate hydrochloride extended-release capsules in natients with henatic impairm

Drug Interaction Studies

LINU INTERCATION SUBJECT OF THE ACTION OF TH

13 NONCLINICAL TOXICOLOGY

enesis, and Impairment of Fertility 13.1 Carcino

Carcinogenesis

Lifetime carcinogenicity studies have not been carried out with dexmethylphenidate. In a lifetime carcinogenicity study carried out in B6C3F1 mice, racemic methylphenidate caused an increase in tactingenicity study valies out in bocon rime, racenic memphenaidae causes an increase in hepatocellular adenomas and, in males only, an increase in hepatoblastomas was seen at a daily dose of approximately 60 mg/kg/day. This dose is approximately 2 times the MRHD of 60 mg/day of racemic methylphenidate given to children on a mg/m² basis. Hepatoblastoma is a relatively rare rodent malignant tumor type. There was no increase in total malignant hepatic tumors. The mouse strain used is sensitive to the development of hepatic tumors, and the significance of these results to humans is unknown.

Racemic methylphenidate did not cause any increase in tumors in a lifetime carcinogenicity study carried out in F344 rats; the highest dose used was approximately 45 mg/kg/day, which is

Psychiatric Adverse Reactions

dvise patients that dexmethylphenidate hydrochloride extended-release capsules, at recomme doses, can cause psychotic or manic symptoms, even in patients without prior history of psychotic symptoms or mania [see Warnings and Precautions (5.4)].

Priapism Advise patients of the possibility of painful or prolonged penile erections (priapism). Instruct them to seek immediate medical attention in the event of priapism *[see Warnings and Precautions (5.5)]*. Circulation Problems in Fingers and Toes (Peripheral Vasculopathy, Including Raynaud's Phenomenon) Instruct patients beginning treatment with dexmethylphenidate hydrochloride extended-release capsules about the risk of peripheral vasculopathy, including Raynaud's phenomenon, and associated

have or had repeated movements or sounds (tics) or Tourette's syndrome, or have a family history of tics or Tourette's syndrome.

if you are pregnant or plan to become pregnant. It is not known if dexmethylphenidat There is a pregnancy registry for females who are exposed to ADHD medications, including

dexmethylphenidate hydrochloride extended-release capsules, during pregnancy. Th purpose of the registry is to collect information about the health of females exposed to methylphenidate hydrochloride extended-release capsules and their baby. If you o over child becomes pregnant during treatment with dexmethylphenidate hydrochoride extended-release capsules, talk to your healthcare provider about registering with the National Pregnancy Registry of ADHD medications at 1-866-961-2388 or visit online at https://womensmentalhealth.org/adhd-medications/.

if you are breastfeeding or plan to breastfeed. Dexmethylphenidate hydrochloride extended-release capsules passes into your breast milk. Talk to your healthcare provider about the best way to feed the baby during treatment with dexmethylphenidate hydrochloride extended-releas

ell your healthcare provider about all of the medicines that you or your child takes including prescription and over-the-counter medicines, vita you of your clinic takes, including prescription and over-the-counter medicines, vitamins, and herbal supplements. Dexmethylphenidate hydrochloride extended-release capsules and some medicines may interact with each other and cause serious side effects. Sometimes the doses of other medicines will need to e adjusted while taking dexmethylphenidate hydrochloride extended-release capsules

Your healthcare provider will decide whether dexmethylphenidate hydrochloride extended-relea

Especially tell your healthcare provider if you or your child takes:

anti-depression medicines, including MAOIs

blood pressure medicines (anti-hypertensive)

Know the medicines that you or your child takes. Keep a list of your medicines with you to show your althcare provider and pharmacist

You should not take dexmethylphenidate hydrochloride extended-release capsules on the day of your operation if a certain type of anesthetic is used. This is because there is a chance of a sudden rise in blood pressure and heart rate during the operation

Do not start any new medicine while taking dexmethylphenidate hydrochl release capsules without talking to your healthcare provider first.

low should dexmethylphenidate hydrochloride extended-release capsules be taken?

- Take dexmethylphenidate hydrochloride extended-release capsules exactly as prescribed. Your healthcare provider may adjust the dose until it is right for you or your child.
- Take dexmethylphenidate hydrochoride extended-release capsules once each day in the morning. Dexmethylphenidate hydrochoride extended-release capsules are an extended
- Dexmethylphenidate hydrochloride extended-release cansules can be taken with or without food. Taking dexmethylphenidate hydrochloride extended-release capsules with food may slow the time it takes for the medicine to start working.
- Swallow dexmethylphenidate hydrochloride extended-release capsules whole with water of other liquids. Do not chew, crush, or divide the capsules or the beads in the capsu or your child cannot swallow the capsule, open it and sprinkle the small beads of medicine ove a spoonful of applesauce and swallow it right away without chewing.
- Your healthcare provider may do regular checks of the blood, heart, and blood pressure while taking dexmethylphenidate hydrochloride extended-release capsules.
- Children should have their height and weight checked often while taking dexmethylphenidat Under the strength of the mean strength of the strength of the

If you or your child take too much dexinethylphenidate hydrochoride extended release capsules, call your healthcare provider or Poison Help line at 1-800-222-1222 or go to the nearest hospital emergency room right away.