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#### HIGHLIGHTS OF PRESCRIBING INFORMATION Dexmethylphenidate hydrochloride extended-release capsules

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 warning.
<ul> <li>Dexmethylphenidate hydrochloride extended-release capsules has 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).</li> <li>Before prescribing dexmethylphenidate hydrochloride extended-release capsules, assess each patient's risk for abuse, misuse, and addiction.</li> <li>Educate patients and their families about these risks, proper storage of the drug, and proper disposal of any unused drug</li> <li>Throughout treatment, reassess each patient's risk and frequently monitor for signs and symptoms of abuse, misuse, and addiction.</li> </ul>
RECENT MAJOR CHANGES
Boxed Warning 10/2023 Dosage and Administration (2.1, 2.2) 10/2023 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)
• 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).
Known hypersensitivity to methylphenidate or other components of dexmethylphenidate hydrochloride extended-release capsules ( 4).
• Concurrent treatment with a monoamine oxidase inhibitor (MAOI), or use of an MAOI within the preceding 14 days ( 4).
• <i>Risks to Patients with Serious Cardiac Disease:</i> Avoid use in patients with known structural cardiac abnormalities, cardiomyopathy, serious cardiac arrhythmias, coronary artery disease, or other serious

cardiac disease ( 5.2).

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

• *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 (5.8).

• *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 emergence or worsening of tics or Tourette's syndrome. Discontinue treatment if clinically appropriate (5.10)

Warnings and Precautions (5.8)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, headache, pharyngolaryngeal pain, and anxiety ( 6.1). To report SUSPECTED ADVERSE REACTIONS, contact Granules Pharmaceuticals Inc. at 1-877-770-3183 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

• Antihypertensive Drugs: Monitor blood pressure. Adjust dosage of antihypertensive drug as needed (
 7.1).

#### See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.

Revised: 11/2023

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FULL PRESCRIBING INFORMATION

## WARNING: ABUSE AND DEPENDENCE

## WARNING: ABUSE, MISUSE, AND ADDICTION

Dexmethylphenidate hydrochloride extended-release capsules has 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 extendedrelease 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 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 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 verbal tics or Tourette's syndrome before initiating dexmethylphenidate hydrochloride extended-release capsules *[see Warnings and Precautions (5.10)]*.

## 2.2 Recommended Dosage

## Patients New to Methylphenidate

The recommended starting dosage of dexmethylphenidate hydrochloride extendedrelease 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.

## 2.3 Administration Instructions

Dexmethylphenidate 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 discontinued.

## **3 DOSAGE FORMS AND STRENGTHS**

• The 5 mg capsules are hard gelatin capsules, blue opaque cap printed with "G 5mg" and blue opaque body printed with "004" contains white to off-white pellets.

• The 10 mg capsules are hard gelatin capsules, light cream opaque cap printed with "G 10mg" and light cream opaque body printed with "005" contains white to off-white pellets.

• The 15 mg capsules are hard gelatin capsules, green opaque cap printed with "G 15mg" and green opaque body printed with "006" contains white to off-white pellets.

• The 20 mg capsules are hard gelatin capsules, white opaque cap printed with "G 20mg" and white opaque body printed with "007" contains white to off-white pellets.

• The 25 mg capsules are hard gelatin capsules, blue opaque cap printed with "G 25mg" and white opaque body printed with "008" contains white to off-white pellets.

• The 30 mg capsules are hard gelatin capsules, light cream opaque cap printed with "G 30mg" and white opaque body printed with "009" contains white to off-white pellets.

• The 35 mg capsules are hard gelatin capsules, blue opaque cap printed with "G 35mg"

and light cream opaque body printed with "010" contains white to off-white pellets.

• The 40 mg capsules are hard gelatin capsules, green opaque cap printed with "G 40mg" and white opaque body printed with "011" contains white to off-white 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)].

• 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 has 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 risks and proper disposal of any unused drug. Advise patients to store dexmethylphenidate hydrochloride extended-release capsules in a safe place, preferably locked, and instruct patients to not give dexmethylphenidate hydrochloride extended-release capsules to anyone else. 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.

## 5.2 Risks to Patients with Serious Cardiac 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.

## 5.3 Increased Blood Pressure and Heart Rate

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 larger increases.

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

## 5.4 Psychiatric Adverse Reactions

## Exacerbation of Preexisting Psychosis

CNS stimulants may exacerbate symptoms of behavior disturbance and thought disorder in patients with a preexisting psychotic disorder.

## Induction of a Manic Episode in Patients with Bipolar 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 history of suicide, bipolar disorder, or depression).

## New Psychotic or Manic Symptoms

CNS stimulants, at the recommended dosage, may cause psychotic or manic symptoms (e.g., hallucinations, delusional thinking, or mania) in patients without a prior history of psychotic illness or mania. In a pooled analysis of multiple short-term, placebo-controlled studies of CNS stimulants, psychotic or manic symptoms occurred in approximately 0.1% of CNS stimulant-treated patients, compared to 0% of placebo-treated patients. If such symptoms occur, consider discontinuing dexmethylphenidate hydrochloride extended-release capsules.

## 5.5 Priapism

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 or during discontinuation).

Dexmethylphenidate hydrochloride extended-release capsules-treated patients who develop 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 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 stimulants.

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.

## 5.7 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 capsules, the mean weight gain was greater for pediatric patients (ages 6 to 17 years) receiving placebo (+0.4 kg) than for patients receiving dexmethylphenidate hydrochloride 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

There have been reports of angle closure glaucoma associated with methylphenidate treatment.

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

## 5.9 Increased Intraocular Pressure and Glaucoma

There have been reports of an elevation of intraocular pressure (IOP) associated with methylphenidate treatment [see Adverse Reactions (6.2)].

Prescribe dexmethylphenidate hydrochloride tablets to patients with open-angle glaucoma or abnormally increased IOP only if the benefit of treatment is considered to outweigh the risk. Closely monitor dexmethylphenidate 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)].

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 tablets-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 [see Warnings and Precautions (5.2)]
- Increased 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)]
- Increased Intraocular Pressure and Glaucoma [see Warnings and Precautions (5.9)]

• Motor and Verbal Tics, and Worsening of Tourette's Syndrome [see Warnings and Precautions (5.10)]

## 6.1 Clinical Trials Experience

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed 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 time of onset, duration of efficacy, tolerability, safety of dexmethylphenidate hydrochloride extended-release capsules 5 mg to 30 mg/day who met The Diagnostic and Statistical Manual of Mental Disorders, Fourth Edition (DSM-IV) criteria for 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 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 children and adolescents with ADHD at flexible dexmethylphenidate hydrochloride extended-release capsules doses of 5 to 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.

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

System organ class Adverse reaction	Dexmethylphenidate Hydrochloride Extended-Release Capsules N = 53	Placebo N=47
Gastrointestinal disorders	38%	19%
Dyspepsia	8%	4%
Metabolism and nutrition disorders	34%	11%
Decreased appetite	30%	9%
Nervous system d isorders	30%	13%
Headache	25%	11%
Psychiatric disorders	26%	15%
Anxiety	6%	0

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 placebo-treated patients.

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

	Dexmethylphenidate Dexmethylphenidate Dexmethylphenidate						
System organ class Adverse reaction	Hydrochloride Extended-Release Capsules 10 mg/day N = 64	Hydrochloride Extended-Release Capsules 20 mg/day N = 60	Hydrochloride Extended-Release Capsules 30 mg/day N = 58	Placebo N=63			
Gastrointestinal disorders	22%	23%	29%	24%			
Vomiting	2%	8%	9%	0%			
Metabolism and nutritional disorders	16%	17%	22%	5%			
Anorexia	5%	5%	7%	0%			
Psychiatric disorders	19%	20%	38%	8%			
Insomnia	5%	8%	17%	3%			
Depression	0%	0%	3%	0%			
Mood swings	0%	0%	3%	2%			

Other adverse deactions				
Irritability	0%	2%	5%	0%
Nasal congestion	0%	0%	5%	0%
Pruritus	0%	0%	3%	0%

Abbreviation: ADHD, attention deficit hyperactivity disorder.

#### Adverse Reactions in Studies with Dexmethylphenidate Hydrochloride Extended-Release Capsules in Adult Patients with ADHD

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

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 dexmethylphenidate hydrochloride extended-release capsules discontinued due to insomnia and jittery, respectively and two patients (1.2%) in the dexmethylphenidate hydrochloride extended-release capsules discontinued due to insomnia and jittery respectively and two patients (1.2%) in the dexmethylphenidate hydrochloride extended-release capsules discontinued due to anorexia 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 dose group and for which the incidences appeared to increase with dose.

# Table 3: Dose-Related Adverse Reactions in Adult Patients (18 to 60 years of age) With ADHD

System organ class Adverse reaction	Dexmethylphenidate Hydrochloride Extended-Release Capsules 20 mg N=57	Dexmethylphenidate Hydrochloride Extended-Release Capsules 30 mg N=54	Dexmethylphenidato Hydrochloride Extended-Release Capsules 40 mg N=54	e Placebo N=53
Gastrointestinal disorders	28%	32%	44%	19%
Dry mouth	7%	20%	20%	4%
Dyspesia	5%	9%	9%	2%
Nervous system	37%	39%	50%	28%

disorders				1
Headache	26%	30%	39%	19%
Psychiatric disorders	40%	43%	46%	30%
Anxiety	5%	11%	11%	2%
Respiratory, thoracic and mediastinal disorders	16%	9%	15%	8%
Pharyngolaryngeal pain	4%	4%	7%	2%

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 weight that were recorded in the adult study (N=218) of dexmethylphenidate hydrochloride extended-release capsules in the treatment of ADHD.

# Table 4: Changes (Mean $\pm$ SD) in Vital Signs and Weight by Randomized Dose During Double-Blind Treatment-Adults

	Dexmethylphenidate Hydrochloride Extended-Release Capsules 20 mg (N=57)	Dexmethylphenidate Hydrochloride Extended-release Capsules 30 mg (N=54)	Dexmethylphenidate Hydrochloride Extended-Release Capsules 40 mg (N=54)	Placebo (N=53)
Pulse (bpm)	3.1 ± 11.1	$4.3 \pm 11.7$	$6.0 \pm 10.1$	-1.4 ± 9.3
Diastolic BP (mmHg)	$-0.2 \pm 8.2$	$1.2 \pm 8.9$	2.1 ± 8	0.3 ± 7.8
Weight (kg)	-1.4 ± 2	$-1.2 \pm 1.9$	-1.7 ± 2.3	-0.1 ± 3.9

## 6.2 Postmarketing Experience

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

## Musculoskeletal: rhabdomyolysis

*Immune System Disorders:* hypersensitivity reactions, including angioedema and anaphylaxis

Adverse Reactions Reported With All Methylphenidate Hydrochloride and Dexmethylphenidate Hydrochloride Formulations

The following adverse reactions associated with the use of all methylphenidate hydrochloride and dexmethylphenidate hydrochloride 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.

Infections and Infestations: nasopharyngitis

*Blood and the Lymphatic System Disorders:* leukopenia, thrombocytopenia, anemia *Immune System Disorders:* hypersensitivity reactions, including angioedema and anaphylaxis

*Metabolism and Nutrition Disorders:* decreased appetite, reduced weight gain, and suppression of growth during prolonged use in pediatric patients

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

*Nervous 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 *Hepatobiliary Disorders:* abnormal liver function, ranging from transaminase elevation to severe hepatic injury

*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, rhabdomyolysis, trismus

Investigations: weight loss (adult ADHD patients)

Vascular Disorders: peripheral coldness, Raynaud's phenomenon

## Additional Adverse Reactions Reported with Other Methylphenidate Products

The list below shows adverse reactions not listed with methylphenidate hydrochloride and dexmethylphenidate hydrochloride 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, supraventricular tachycardia, ventricular extrasystole

*Respiratory, Thoracic, and Mediastinal Disorders:* pharyngolaryngeal pain, dyspnea *Gastrointestinal Disorders:* diarrhea, constipation

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

*Musculoskeletal, Connective Tissue, and Bone Disorders:* myalgia, muscle twitching *Renal and Urinary Disorders:* hematuria

## **7 DRUG INTERACTIONS**

#### 7.1 Clinically Important Drug Interactions With Dexmethylphenidate Hydrochloride Extended-Release Capsules

Table 5 presents clinically important drug interactions with dexmethylphenidate hydrochloride extended-release capsules.

## Table 5: Clinically Important Drug Interactions With DexmethylphenidateHydrochloride Extended-Release Capsules

Monoamine	e Oxidase Inhibitors (MAOIs)
	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 failure [ <i>see Contraindications (4)</i> ].
Intervention	Concomitant use of dexmethylphenidate hydrochloride extended-release capsules, with MAOIs or within 14 days after discontinuing MAOI treatment is contraindicated.
Antihypert	ensive Drugs
imnact	Dexmethylphenidate hydrochloride extended-release capsules, may decrease the effectiveness of drugs used to treat hypertension [ <i>see Warnings and Precautions (5.3)</i> ].
	Monitor blood pressure and adjust the dosage of the antihypertensive drug as needed.
Halogenate	ed Anesthetics
Clinical impact	Concomitant use of halogenated anesthetics and dexmethylphenidate hydrochloride extended-release capsules, may increase the risk of sudden blood pressure and heart rate increase during surgery.
	Avoid use of dexmethylphenidate hydrochloride extended-release capsules, in patients being treated with anesthetics on the day of surgery.
Risperidon	e
CIII IICdi imnact	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)
	Monitor for signs of EPS

## **8 USE IN SPECIFIC POPULATIONS**

## 8.1 Pregnancy

Pregnancy Exposure Registry

There is a pregnancy exposure registry that monitors pregnancy outcomes in women exposed to ADHD medications, including dexmethylphenidate hydrochloride extendedrelease 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-medications/.

#### **Risk Summary**

Dexmethylphenidate is the *d-threo* enantiomer of racemic methylphenidate. Published studies and post-marketing reports on methylphenidate 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 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.

## **Clinical Considerations**

#### Fetal/Neonatal Adverse Reactions

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 therapeutic doses of methylphenidate during pregnancy; however, premature delivery and low birth weight infants have been reported in amphetamine-dependent mothers.

## <u>Data</u>

## Animal Data

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 to 20 mg/kg/day, post-weaning 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 rabbits 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.

## 8.2 Lactation

## <u>Risk Summary</u>

Dexmethylphenidate is the d-threo enantiomer of racemic methylphenidate. Limited published literature, based on milk sampling from seven mothers reports that

methylphenidate is present in human milk, which resulted in infant doses of 0.16% to 0.7% of the maternal weight-adjusted dosage and a milk/plasma ratio ranging between1.1 and 2.7. There are no reports of adverse effects on the breastfed infant and no effects on milk production. Long-term neurodevelopmental effects on infants from stimulant exposure are unknown. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for dexmethylphenidate hydrochloride extended-release capsules and any potential adverse effects on the breastfeed infant from dexmethylphenidate hydrochloride extended-release capsules and any potential adverse effects or the breastfeed infant from dexmethylphenidate hydrochloride extended-release capsules and any potential adverse effects on the breastfeed infant from dexmethylphenidate hydrochloride extended-release capsules and any potential adverse effects on the breastfeed infant from dexmethylphenidate hydrochloride extended-release capsules and any potential adverse effects on the breastfeed infant from dexmethylphenidate hydrochloride extended-release capsules and any potential adverse effects on the breastfeed infant from dexmethylphenidate hydrochloride extended-release capsules or from the underlying maternal condition.

## **Clinical Considerations**

Monitor breastfeeding infants for adverse reactions, such as agitation, insomnia, anorexia, and reduced weight gain.

## 8.4 Pediatric Use

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 patients has not been established.

#### Long Term Suppression of Growth

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)].

## Juvenile Animal Toxicity Data

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 are at least 6 times the MRHD of 60 mg/day given to children on a mg/m  $^2$  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 to14), 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/m<sup>2</sup> 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/m<sup>2</sup> 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/m<sup>2</sup> basis). The clinical significance of the long-term behavioral effects observed in rats is unknown.

## 8.5 Geriatric Use

Dexmethylphenidate hydrochloride extended-release capsules has not been studied in the geriatric population.

## 9 DRUG ABUSE AND DEPENDENCE

## 9.1 Controlled Substance

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

## 9.2 Abuse

Dexmethylphenidate hydrochloride extended-release capsules has 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 or 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 harmful 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; loss 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 snorting 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 dexmethylphenidate 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 psychomotor agitation, confusion, and hallucinations. Serotonin syndrome, seizures, cerebral vascular accidents, and coma may occur.

• Life-threatening hyperthermia (temperatures greater than 104°F) and rhabdomyolysis may develop.

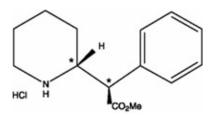
## **Overdose Management**

Consider the possibility of multiple drug ingestion. The pharmacokinetic profile of dexmethylphenidate 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**

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 capsules is 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 is available as 5 mg, 10 mg, 15 mg, 20 mg, 25 mg, 30 mg, 35 mg, and 40 mg extended-release capsules.

Chemically, dexmethylphenidate hydrochloride is methyl  $\alpha$ -phenyl-2-piperidineacetate hydrochloride, (R,R')-(+)-. Its molecular formula is C <sub>14</sub>H <sub>19</sub>NO <sub>2</sub>•HCl. Its structural formula is:



Note\* = asymmetric carbon center

Dexmethylphenidate hydrochloride is a white to off-white 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 269.77g/mol. **Inactive ingredients** : ammonio methacrylate copolymer, gelatin, methacrylic acid and methyl methacrylate copolymer, polyethylene glycol, sugar spheres (which contain sucrose and starch), talc, titanium dioxide, and triethyl citrate. The 5 mg, 25 mg and 35 mg capsule also contains D&C red #28. The 15 mg and 40 mg capsule also contains D&C yellow #10. The 5 mg, 15 mg, 25 mg, 35 mg, and 40 mg capsule also contains FD&C blue #1. The 10 mg, 30 mg and 35 mg capsule also contains FD&C yellow #6. In addition, capsule imprinting ink contains ammonium hydroxide, black iron oxide, propylene glycol and shellac glaze.

## **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**

## <u>Absorption</u>

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 extended-release capsules are similar to that of dexmethylphenidate hydrochloride tablets as shown by the similar rate parameters between the 2 formulations, i.e., first peak concentration (C  $_{max1}$ ), and time to the first peak (t  $_{max1}$ ), which is reached in 1.5 hours (typical range 1 to 4 hours). The mean time to the interpeak minimum (t  $_{minip}$ ) is slightly shorter, and time to the second peak (t  $_{max2}$ ) is slightly longer for 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.

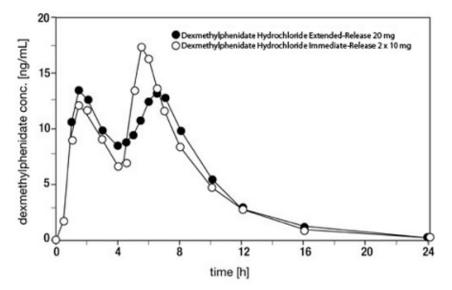
Dexmethylphenidate hydrochloride extended-release capsules given once daily exhibits a lower second peak concentration (C  $_{max2}$ ), higher interpeak minimum concentrations (C  $_{minip}$ ), and fewer peak and trough fluctuations than dexmethylphenidate hydrochloride tablets given in 2 doses given 4 hours apart. This is due to an earlier onset and more

prolonged absorption from the delayed-release beads (see Figure 1).

The ratio of geometric mean of AUC <sub>(0-inf)</sub> and C <sub>max</sub> 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 <sub>max</sub>, C <sub>min</sub>, and AUC is similar between dexmethylphenidate hydrochloride extended-release capsules and dexmethylphenidate hydrochloride immediate-release tablets with approximately a 3-fold range 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 mg 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  $2.65 \pm 1.11 \text{ L/kg}$ .

## **Elimination**

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-piperidine acetic acid (also known as d-ritalinic acid). This metabolite has little or no pharmacological activity. There is no *in vivo* interconversion to the *l*-*threo*-enantiomer.

#### Excretion

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 Patients

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 although 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 extended-release 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 Impairment

There is no experience with the use of dexmethylphenidate hydrochloride extendedrelease 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 extendedrelease capsules.

#### Patients with Hepatic Impairment

There is no experience with the use of dexmethylphenidate hydrochloride extendedrelease capsules in patients with hepatic impairment.

#### Drug Interaction Studies

Methylphenidate is not metabolized by cytochrome P450 (CYP) isoenzymes to a clinically relevant extent. Inducers or inhibitors of CYPs are not expected to have any relevant impact on methylphenidate pharmacokinetics. Conversely, the d- and l-enantiomers of methylphenidate did not relevantly inhibit CYP1A2, 2C8, 2C9, 2C19, 2D6, 2E1 or 3A. Clinically, methylphenidate coadministration did not increase plasma concentrations of the CYP2D6 substrate designamine.

## **13 NONCLINICAL TOXICOLOGY**

## 13.1 Carcinogenesis , Mutagenesis and Impairment of Fertility

#### <u>Carcinogenesis</u>

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 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/m <sup>2</sup> 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 approximately 4 times the MRHD (children) of 60 mg/day of racemic methylphenidate in children on a mg/m<sup>2</sup> basis.

In a 24-week carcinogenicity study with racemic methylphenidate in the transgenic mouse strain p <sup>53+/-</sup>, 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 to74 mg/kg/day of racemic methylphenidate.

#### <u>Mutagenesis</u>

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.

Fertility 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 doses of up to 160 mg/kg/day, approximately 10-times the MRHD of 60 mg/day of racemic methylphenidate given to adolescents on a mg/m <sup>2</sup> basis.

## **14 CLINICAL STUDIES**

## 14.1 Pediatric Patients

A randomized, double-blind, 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.

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 extended-release 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 to 17 years) (Study 1)

		Primary efficacy measure: CADS-T tota score			
Study number	Treatment group	Mean baseline score (SD)	LS mean change from baseline (SE)	Placebo- subtracted difference <sup>a</sup> (95% CI)	
Study 1	Dexmethylphenidate hydrochloride extended-release capsules 5 to 30 mg/day (n = 52)			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, least-squares mean; CI, confidence interval, not adjusted for multiple comparisons.

<sup>a</sup>Difference (drug minus placebo) in least-squares mean change from baseline.

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 hydrochloride 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-time 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

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).

The DSM-IV 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 hydrochloride 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)

		Primary efficacy Measure: ADHD-RS total score			
Study number	Treatment group	Mean baseline score (SD)	LS mean change from baseline (SE)	Placebo- subtracted difference <sup>a</sup> (95% CI)	
	Dexmethylphenidate hydrochloride extended-release capsules 20 mg/day (n = 57)	36.8 (7.2)	13.27 (1.44)	5.71 (1.64, 9.78)	
Study 4	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)	
	Placebo (n = 53)	37.5 (7.82)	7.55 (1.49)		

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

<sup>a</sup>Difference (drug minus placebo) in least-squares mean change from baseline

## 16 HOW SUPPLIED/STORAGE AND HANDLING

Dexmethylphenidate hydrochloride extended-release capsules are supplied as :

## 5 mg :

Hard gelatin capsules, blue opaque cap printed with "G 5mg" and blue opaque body printed with "004" contains white to off-white pellets.

Bottles of 100 NDC 70010-004-01

## 10 mg:

Hard gelatin capsules, light cream opaque cap printed with "G 10mg" and light cream opaque body printed with "005" contains white to off-white pellets.

Bottles of 100 NDC 70010-005-01

## 15 mg :

Hard gelatin capsules, green opaque cap printed with "G 15mg" and green opaque body printed with "006" contains white to off-white pellets.

Bottles of 100 NDC 70010-006-01

#### 20 mg :

Hard gelatin capsules, white opaque cap printed with "G 20mg" and white opaque body printed with "007" contains white to off-white pellets.

Bottles of 100 NDC 70010-007-01

#### 25 mg:

Hard gelatin capsules, blue opaque cap printed with "G 25mg" and white opaque body printed with "008" contains white to off-white pellets.

Bottles of 100 NDC 70010-008-01

#### 30 mg:

Hard gelatin capsules, light cream opaque cap printed with "G 30mg" and white opaque body printed with "009" contains white to off-white pellets.

Bottles of 100 NDC 70010-009-01

#### 35 mg:

Hard gelatin capsules, blue opaque cap printed with "G 35mg" and light cream opaque body printed with "010" contains white to off-white pellets.

Bottles of 100 NDC 70010-010-01

#### 40 mg:

Hard gelatin capsules, green opaque cap printed with "G 40mg" and white opaque body printed with "011" contains white to off-white pellets.

Bottles of 100 NDC 70010-011-01

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

Dispense in tight container (USP).

#### **17 PATIENT COUNSELING INFORMATION**

Advise 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 dexmethylphenidate hydrochloride extended-release capsules in a safe place.

#### Risks to Patients with Serious Cardiac Disease

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 elevations of their blood pressure and pulse rate [see Warnings and Precautions (5.3)].

#### Psychiatric Adverse Reactions

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

#### <u>Priapism</u>

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)].

#### <u>Circulation Problems in Fingers and Toes (Peripheral Vasculopathy, Including Raynaud's</u> <u>Phenomenon</u>)

Instruct patients beginning treatment with dexmethylphenidate hydrochloride extendedrelease capsules about the risk of peripheral vasculopathy, including Raynaud's phenomenon, and 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 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)].

## Dispense with Medication Guide available at:

## https://granulespharma.com/product/dexmethylphenidate-er-cap/

#### Manufactured By: Granules Pharmaceuticals Inc., Chantilly, VA 20151

Revised: 11/2023

## SPL MEDGUIDE SECTION

#### Dispense with Medication Guide available at:

## https://granulespharma.com/product/dexmethylphenidate-er-cap/

MEDICATION GUIDE

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

for oral use, CII

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 capsules has 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.

o Your healthcare provider should check you or your child's risk for abuse, misuse, and addiction before starting treatment with dexmethylphenidate hydrochloride extendedrelease capsules and will monitor you or your child during treatment.

o Dexmethylphenidate hydrochloride extended-release capsules may lead to physical dependence after prolonged use, even if taken as directed by your healthcare provider. o Do not give dexmethylphenidate hydrochloride extended-release capsules to anyone else. See "What is dexmethylphenidate hydrochloride extended-release capsules?" for more information.

o Keep dexmethylphenidate hydrochloride extended-release capsules in a safe place and properly dispose of any unused medicine. See "How should I store dexmethylphenidate hydrochloride extended-release capsules?" for more information.

o Tell your healthcare provider if you or your child have ever abused or been dependent on alcohol, prescription medicines, or street drugs.

< color="#000000">• Risks for people with serious heart disease. Sudden death has happened in people who have heart defects or other serious heart disease.

Your 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 or your child's blood pressure and heart rate regularly during treatment with dexmethylphenidate hydrochloride extended-release capsules.

• Mental (psychiatric) problems:

All Patients

o new or worse behavior and thought problems

o new or worse bipolar illness

o 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 capsule is a central nervous system stimulant (CNS) prescription medicine. It is used for the treatment of Attention-Deficit Hyperactivity Disorder (ADHD). Dexmethylphenidate hydrochloride extendedrelease 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.

Dexmethylphenidate hydrochloride extended-release capsule is a federally controlled substance (CII) because it contains dexmethylphenidate that can be a target for people who abuse prescription medicines or street drugs. Keep dexmethylphenidate hydrochloride extended-release capsules 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 harm others and is against the law. Who should not take dexmethylphenidate hydrochloride extended-release capsules?

Dexmethylphenidate hydrochloride extended-release capsules should not be taken if you or your child:

• are allergic to methylphenidate hydrochloride, or any of the ingredients in dexmethylphenidate hydrochloride extended-release 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 a monoamine 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), including:

• 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 close-up vision (farsightedness)

 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 dexmethylphenidate hydrochloride will harm your unborn baby.

o There is a pregnancy registry for females who are exposed to ADHD medications, including dexmethylphenidate hydrochloride extended-release capsules, during pregnancy. The purpose of the registry is to collect information about the health of females exposed to dexmethylphenidate hydrochloride extended-release capsules and their baby. If you or your child becomes pregnant during treatment with dexmethylphenidate hydrochloride extended-release, 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 passes into your breast milk. Talk to your healthcare provider about the best way to feed the baby during treatment with dexmethylphenidate hydrochloride extendedrelease capsules.

Tell your healthcare provider about all of the medicines that you or your child 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 be adjusted while taking dexmethylphenidate hydrochloride extended-release capsules.

Your healthcare provider will decide whether dexmethylphenidate hydrochloride extended-release capsules can be taken with other medicines.

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 healthcare 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 hydrochloride extended-

release capsules without talking to your healthcare provider first. How 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 hydrochloride extended-release capsule once each day in the morning. Dexmethylphenidate hydrochloride extended-release capsules is an extended-release capsule.

• Dexmethylphenidate hydrochloride extended-release capsules 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 or other liquids. Do not chew, crush, or divide the capsules or the beads in the capsule. If you or your child cannot swallow the capsule, open it and sprinkle the small beads of medicine over 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 Dexmethylphenidate hydrochloride extended-release capsules. Dexmethylphenidate hydrochloride extended-release capsules treatment may be stopped if a problem is found during these check-ups.

If you or your child take too much dexmethylphenidate hydrochloride 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.

What are the possible side effects of dexmethylphenidate hydrochloride extendedrelease capsules?

Dexmethylphenidate hydrochloride extended-release capsules may cause serious side effects, including:

• see "What is the most important information I should know about dexmethylphenidate hydrochloride extended-release capsules?" for information on reported heart and mental problems.

• painful and prolonged erections (priapism) have occurred with methylphenidate. If you or 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.

• circulation problems in fingers and toes (peripheral vasculopathy, including Raynaud's phenomenon):

o fingers or toes may feel numb, cool, painful

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

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

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

• Slowing of growth (height and weight) in children. Children should have their height and weight checked often during treatment with dexmethylphenidate hydrochloride extended-release capsules. Dexmethylphenidate hydrochloride extended-release capsules treatment may be stopped if your child is not growing or gaining weight.

• Eye problems (increased pressure in the eye and glaucoma). Call your healthcare provider 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 treatment with dexmethylphenidate hydrochloride extended-release capsules.

< color="#000000">Common side effects include:

Children (6 to 17 years)

• dyspepsia • decreased appetite • headache • anxiety

Adults

• dry mouth • dyspepsia • headache • anxiety • pharyngolaryngeal pain

Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

How should I store dexmethylphenidate hydrochloride extended-release capsules?

 Store dexmethylphenidate hydrochloride extended-release capsules in a safe place and in a tightly closed container at room temperature between 68°F to 77°F (20°C to 25°C).

 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 extendedrelease capsules with an undesirable, nontoxic 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 dexmethylphenidate hydrochloride extended-release capsules in the household trash. Visit

#### Keep dexmethylphenidate hydrochloride extended-release capsules and all medicines out of the reach of children.

General information about the safe and effective use of dexmethylphenidate hydrochloride extended-release capsules.

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 hydrochloride extendedrelease capsules for a condition for which it was not prescribed. Do 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 against the law.

#### What are the ingredients in dexmethylphenidate hydrochloride extendedrelease capsules?

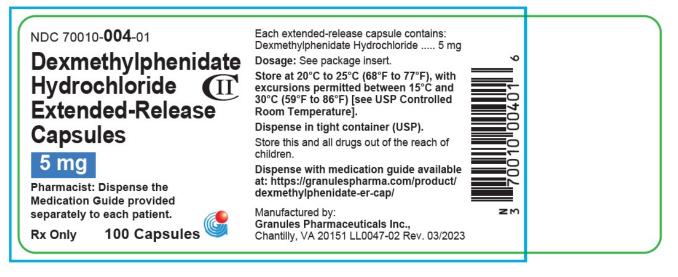
Active ingredient: dexmethylphenidate hydrochloride

**Inactive ingredients:** ammonio methacrylate copolymer, gelatin, methacrylic acid and methyl methacrylate copolymer, polyethylene glycol, sugar spheres (which contain sucrose and starch), talc, titanium dioxide, and triethyl citrate. The 5 mg, 25 mg and 35 mg capsule also contains D&C red #28. The 15 mg and 40 mg capsule also contains D&C yellow #10. The 5 mg, 15 mg, 25 mg, 35 mg, and 40 mg capsule also contains FD&C blue #1. The 10 mg, 30 mg and 35 mg capsule also contains FD&C yellow #6. In addition, capsule imprinting ink contains ammonium hydroxide, black iron oxide, propylene glycol and shellac glaze.

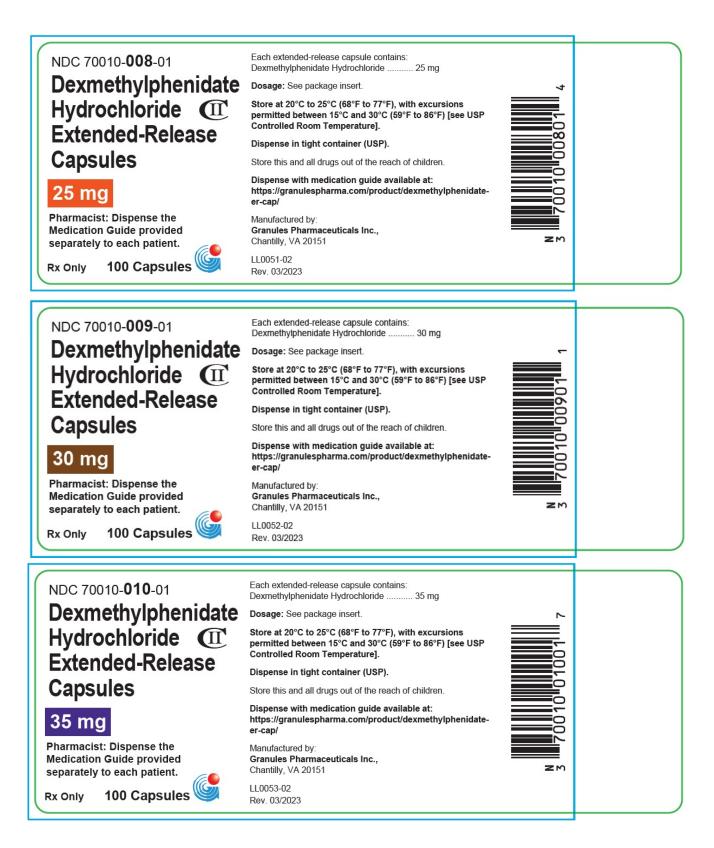
Manufactured By: **Granules Pharmaceuticals Inc.,** Chantilly, VA 20151

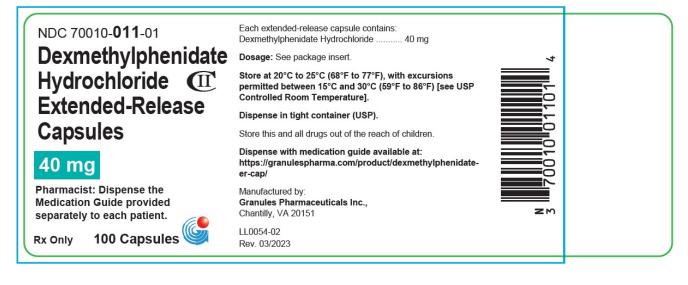
For more information, call 1-877-770-3183. This Medication Guide has been approved by the U.S. Food and Drug Administration. Revised: 11/2023

## PACKAGE LABEL.PRINCIPAL DISPLAY PANEL









#### DEXMETHYLPHENIDATE HYDROCHLORIDE dexmethylphenidate hydrochloride capsule, extended release **Product Information** HUMAN PRESCRIPTION DRUG Item Code (Source) NDC:70010-004 **Product Type Route of Administration** ORAL **DEA Schedule** CII **Active Ingredient/Active Moiety Ingredient Name Basis of Strength** Strength DEXMETHYLPHENIDATE HYDROCHLORIDE (UNII: 16780K0E08) DEXMETHYLPHENIDATE 5 mg (DEXMETHYLPHENIDATE - UNII:M32RH9MFGP) **HYDROCHLORIDE Inactive Ingredients Ingredient Name** Strength AMMONIA (UNII: 5138Q19F1X) AMMONIO METHACRYLATE COPOLYMER TYPE B (UNII: 161H3B14U2) D&C RED NO. 28 (UNII: 767IP0Y5NH) FD&C BLUE NO. 1 (UNII: H3R47K3TBD) FERROSOFERRIC OXIDE (UNII: XM0M87F357) GELATIN (UNII: 2G86QN327L) **METHACRYLIC ACID - METHYL METHACRYLATE COPOLYMER (1:1)** (UNII: 74G4R6TH13) POLYETHYLENE GLYCOL, UNSPECIFIED (UNII: 3WQ0SDW1A) PROPYLENE GLYCOL (UNII: 6DC9Q167V3) SHELLAC (UNII: MB5IUD6JUA) STARCH, CORN (UNII: 08232NY3SJ) SUCROSE (UNII: C151H8M554) TALC (UNII: 7SEV7J4R1U) TITANIUM DIOXIDE (UNII: 15FIX9V2JP) TRIETHYL CITRATE (UNII: 8Z960XD6UM) **Product Characteristics** Color blue Score no score CAPSULE 18mm Shape Size

Fla	vor		Imprint Code		G5mg;004
Co	ntains				
_					
Pa	ackaging				
#	Item Code	Package Des	cription	Marketing Start Date	Marketing End Date
	NDC:70010-004- 01	100 in 1 BOTTLE; Type 0: N Product	ot a Combination	12/01/2020	
Μ	arketing	Information			
	Marketing Category	Application Numbe Citat		Marketing Star Date	t Marketing End Date
AN	DA	ANDA213813		12/01/2020	
DI	ЕХМЕТНҮІ	PHENIDATE HY	DROCHLORI	DE	
day	ymathylphanid	ate hydrochloride caps	ula estandad rais		

Product Information						
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:70010-005			
Route of Administration	ORAL	DEA Schedule	CII			

Active Ingredient/Active Moiety		
Ingredient Name	<b>Basis of Strength</b>	Strength
<b>DEXMETHYLPHENIDATE HYDROCHLORIDE</b> (UNII: 16780K0E08) (DEXMETHYLPHENIDATE - UNII:M32RH9MFGP)	DEXMETHYLPHENIDATE HYDROCHLORIDE	10 mg

## Inactive Ingredients

	Ingredie	nt Name	Strength					
AMMONIA (UNII: 5138Q19F1X)								
AMMONIO METHACRYLATE COPOLYMER TYPE B (UNII: 161H3B14U2)								
FD&C YELLOW	FD&C YELLOW NO. 6 (UNII: H77VEI93A8)							
FERROSOFER	RIC OXIDE (UNII: XM0M87F357)							
GELATIN (UNII	: 2G86QN327L)							
METHACRYLIC	CACID - METHYL METHACRYLATE	COPOLYMER (1:1) (UNII: 74G4	4R6TH13)					
POLYETHYLE	NE GLYCOL, UNSPECIFIED (UNII: 3V	JQOSDW1A)						
PROPYLENE G	LYCOL (UNII: 6DC9Q167V3)							
SHELLAC (UNI	I: MB5IUD6JUA)							
STARCH, COR	<b>N</b> (UNII: 08232NY3SJ)							
SUCROSE (UN	II: C151H8M554)							
TALC (UNII: 7S	EV7J4R1U)							
TITANIUM DIO	XIDE (UNII: 15FIX9V2JP)							
TRIETHYL CIT	RATE (UNII: 8Z96QXD6UM)							
Product Ch	naracteristics							
Color white (light cream) Score no score								

Shape	CAPSULE		Size			18mm		
Flavor			Imprint Code G10n			G10mg;00	.0mg;005	
Contains								
Packaging								
# Item Code	Pac	kage Description		Mark	eting Start Date		ting End ate	
<b>1</b> NDC:70010-005- 01	100 in 1 BOTT Product	LE; Type 0: Not a Combin	ation	12/01/20	20			
Marketing I	Informat	ion						
Marketing Category	Applicat	tion Number or Mono Citation	graph	Ma	rketing Start Date		eting End Date	
ANDA	ANDA213813	3		12/01	/2020			
		oride capsule, extend	ded rele	ease				
Product Inform	mation							
						NDC:70010-00		
Product Type		HUMAN PRESCRIPTION D	RUG <b>Ite</b>	em Cod	e (Source)	ND	C:70010-000	
Route of Admini	stration	HUMAN PRESCRIPTION D		em Cod EA Sche		ND		
	stration							
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Route of Adminis	ent/Active	ORAL				CII		
Route of Adminis	ent/Active Ingred DATE HYDROO	ORAL Moiety lient Name CHLORIDE (UNII: 16780K0	DE		dule	CII trength IIDATE		
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Route of Adminis Active Ingredie DEXMETHYLPHENIDA (DEXMETHYLPHENIDA Inactive Ingred AMMONIA (UNII: 51: AMMONIO METHAC D&C YELLOW NO. FD&C BLUE NO. 1 FERROSOFERRIC C GELATIN (UNII: 2G8 METHACRYLIC ACI	ent/Active Ingred DATE HYDROO ATE - UNII:M32R dients 38Q19F1X) CRYLATE COP 10 (UNII: 355W (UNII: H3R47K3 DXIDE (UNII: XM 6QN327L) D - METHYL M	ORAL Moiety lient Name CHLORIDE (UNII: 16780KG H9MFGP) Ingredient Nam OLYMER TYPE B (UNII: 1 5USQ3G) TBD) 10M87F357) HETHACRYLATE COPOLY	DE08)	U2)	Basis of St DEXMETHYLPHEN HYDROCHLORIDE	CII trength IIDATE	<b>Strengt</b> 15 mg	
Route of Adminis Active Ingredie DEXMETHYLPHENID (DEXMETHYLPHENID INACTIVE Ingred AMMONIA (UNII: 51: AMMONIO METHAC D&C YELLOW NO. FD&C BLUE NO. 1 FERROSOFERRIC C GELATIN (UNII: 2G8) METHACRYLIC ACI POLYETHYLENE GL	ent/Active Ingrec DATE HYDROC ATE - UNII:M32R dients 38Q19F1X) CRYLATE COP 10 (UNII: 35SW (UNII: H3R47K3 DXIDE (UNII: XM 6QN327L) D - METHYL M LYCOL, UNSPE	ORAL Moiety lient Name CHLORIDE (UNII: 16780KG H9MFGP) Ingredient Nam OLYMER TYPE B (UNII: 1 5USQ3G) TBD) 10M87F357)	DE08)	U2)	Basis of St DEXMETHYLPHEN HYDROCHLORIDE	CII trength IIDATE	<b>Strengt</b> 15 mg	
Route of Adminis Active Ingredie DEXMETHYLPHENIDA (DEXMETHYLPHENIDA Inactive Ingred AMMONIA (UNII: 51: AMMONIO METHAC D&C YELLOW NO. FD&C BLUE NO. 1 FERROSOFERRIC C GELATIN (UNII: 2G8) METHACRYLIC ACI POLYETHYLENE GL PROPYLENE GLYCC	ent/Active Ingrec DATE HYDROC ATE - UNII:M32R dients 38Q19F1X) CRYLATE COP 10 (UNII: 355W (UNII: H3R47K3 DXIDE (UNII: XM 6QN327L) D - METHYL M LYCOL, UNSPE DL (UNII: 6DC9C	ORAL Moiety lient Name CHLORIDE (UNII: 16780KG H9MFGP) Ingredient Nam OLYMER TYPE B (UNII: 1 5USQ3G) TBD) 10M87F357)	DE08)	U2)	Basis of St DEXMETHYLPHEN HYDROCHLORIDE	CII t <b>rength</b> IIDATE	<b>Strengt</b> 15 mg	
Route of Adminis Active Ingredie DEXMETHYLPHENIDA (DEXMETHYLPHENIDA Inactive Ingred AMMONIA (UNII: 51: AMMONIO METHAC D&C YELLOW NO. FD&C BLUE NO. 1 FERROSOFERRIC C GELATIN (UNII: 2G8 METHACRYLIC ACI POLYETHYLENE GL PROPYLENE GLYCC SHELLAC (UNII: MB5	ent/Active Ingred DATE HYDROC ATE - UNII:M32R dients 38Q19F1X) CRYLATE COP 10 (UNII: 355W (UNII: H3R47K3 DXIDE (UNII: XM 6QN327L) D - METHYL M LYCOL, UNSPE DL (UNII: 6DC90 5UD6JUA)	ORAL Moiety lient Name CHLORIDE (UNII: 16780KG H9MFGP) Ingredient Nam OLYMER TYPE B (UNII: 1 5USQ3G) TBD) 10M87F357) ETHACRYLATE COPOLY CIFIED (UNII: 3WJQ0SDW Q167V3)	DE08)	U2)	Basis of St DEXMETHYLPHEN HYDROCHLORIDE	CII t <b>rength</b> IIDATE	<b>Strengt</b> 15 mg	
Route of Adminis Active Ingredie DEXMETHYLPHENID (DEXMETHYLPHENID Inactive Ingred AMMONIA (UNII: 51: AMMONIO METHAC D&C YELLOW NO. FD&C BLUE NO. 1 FERROSOFERRIC C GELATIN (UNII: 2G8 METHACRYLIC ACI POLYETHYLENE GL PROPYLENE GLYCC SHELLAC (UNII: MB5 STARCH, CORN (UN	ent/Active Ingrec DATE HYDROC ATE - UNII:M32R dients 38Q19F1X) CR16ATE COP 10 (UNII: 35SW (UNII: H3R47K3 DXIDE (UNII: XM 6QN327L) D - METHYL M LYCOL, UNSPE DL (UNII: 6DC90 5IUD6JUA) VIII: 08232NY35	ORAL Moiety lient Name CHLORIDE (UNII: 16780KG H9MFGP) Ingredient Nam OLYMER TYPE B (UNII: 1 5USQ3G) TBD) 10M87F357) ETHACRYLATE COPOLY CIFIED (UNII: 3WJQ0SDW Q167V3)	DE08)	U2)	Basis of St DEXMETHYLPHEN HYDROCHLORIDE	CII t <b>rength</b> IIDATE	<b>Strengt</b> 15 mg	
Route of Adminis Active Ingredie DEXMETHYLPHENIDA (DEXMETHYLPHENIDA Inactive Ingred AMMONIA (UNII: 51: AMMONIO METHAC D&C YELLOW NO. FD&C BLUE NO. 1 FERROSOFERRIC C GELATIN (UNII: 2G8) METHACRYLIC ACI POLYETHYLENE GL PROPYLENE GLIYCO SHELLAC (UNII: MB5 STARCH, CORN (UN SUCROSE (UNII: C1)	ent/Active Ingred DATE HYDROC ATE - UNII: M32R dients 38Q19F1X) CRYLATE COP 10 (UNII: 355W (UNII: H3R47K3 DXIDE (UNII: XM 6QN327L) D - METHYL M LYCOL, UNSPE DL (UNII: 6DC90 51UD6JUA) NII: 08232NY35 51H8M554)	ORAL Moiety lient Name CHLORIDE (UNII: 16780KG H9MFGP) Ingredient Nam OLYMER TYPE B (UNII: 1 5USQ3G) TBD) 10M87F357) ETHACRYLATE COPOLY CIFIED (UNII: 3WJQ0SDW Q167V3)	DE08)	U2)	Basis of St DEXMETHYLPHEN HYDROCHLORIDE	CII t <b>rength</b> IIDATE	<b>Strengt</b> 15 mg	
Route of Adminis Active Ingredie DEXMETHYLPHENIDA (DEXMETHYLPHENIDA Inactive Ingred AMMONIA (UNII: 51: AMMONIO METHAC D&C YELLOW NO. FD&C BLUE NO. 1 FERROSOFERRIC C GELATIN (UNII: 2G8 METHACRYLIC ACI POLYETHYLENE GL PROPYLENE GLYCC SHELLAC (UNII: MB5 STARCH, CORN (UN SUCROSE (UNII: C1)	ent/Active Ingred DATE HYDROG ATE - UNII:M32R dients 38Q19F1X) CRYLATE COP 10 (UNII: 355W (UNII: H3R47K3 DXIDE (UNII: XM 6QN327L) D - METHYL M LYCOL, UNSPE DL (UNII: 6DC90 51UD6JUA) WII: 08232NY35, 51H8M554) R1U)	ORAL Moiety lient Name CHLORIDE (UNII: 16780KG H9MFGP) Ingredient Nam OLYMER TYPE B (UNII: 1 5USQ3G) TBD) 10M87F357) IETHACRYLATE COPOLY CIFIED (UNII: 3WJQ0SDW. Q167V3)	DE08)	U2)	Basis of St DEXMETHYLPHEN HYDROCHLORIDE	CII t <b>rength</b> IIDATE	<b>Strengt</b> 15 mg	
Route of Adminis Active Ingredie DEXMETHYLPHENID (DEXMETHYLPHENID INACTIVE Ingred AMMONIA (UNII: 51: AMMONIO METHAC D&C YELLOW NO. FD&C BLUE NO. 1 FERROSOFERRIC C GELATIN (UNII: 2G8 METHACRYLIC ACI POLYETHYLENE GL PROPYLENE GLYCC SHELLAC (UNII: MB5 STARCH, CORN (UN	ent/Active Ingred DATE HYDROG ATE - UNII:M32R dients 38Q19F1X) CRYLATE COP 10 (UNII: 355W (UNII: H3R47K3 DXIDE (UNII: XM 6QN327L) D - METHYL M LYCOL, UNSPE DL (UNII: 6DC90 51UD6JUA) WII: 08232NY35, 51H8M554) R1U)	ORAL Moiety lient Name CHLORIDE (UNII: 16780KG H9MFGP) Ingredient Nam OLYMER TYPE B (UNII: 1 5USQ3G) TBD) 10M87F357) IETHACRYLATE COPOLY CIFIED (UNII: 3WJQ0SDW. Q167V3)	DE08)	U2)	Basis of St DEXMETHYLPHEN HYDROCHLORIDE	CII t <b>rength</b> IIDATE	<b>Strengt</b> 15 mg	

Product Chara	acterist	ics						
		een	Score			no s	score	
Shape	CA	APSULE	Size			19m		
Flavor			Imprint Cod	е		G15	mg;006	
Contains								
Packaging								
# Item Code		Package D	escription		Mark	eting Start Date		eting End Date
<b>1</b> NDC:70010-006-01	100 in 1 E Product	BOTTLE; Type	0: Not a Combination	12	2/01/20	)20		
Marketing								
Marketing Category	Арр		nber or Monogra <sub>l</sub> tation	ph	Ma	rketing Start Date	Marl	eting End Date
ANDA	ANDA2	13813			12/01	/2020		
Product Infor	mation							
Product Type		HUMAN F	JMAN PRESCRIPTION DRUG		n Code (Source)		NDC:70010-007	
Route of Admin	istration	ORAL	DEA Sch		Sche	dule	С	I
Active Ingred	ient/Act	ive Moiety	,					
	Ing	gredient Na	ame			Basis of S	trength	Strengt
<b>DEXMETHYLPHEN</b> (DEXMETHYLPHENID			E (UNII: 16780K0E08)			DEXMETHYLPHEN HYDROCHLORIDE		20 mg
Inactive Ingre	dients							
		Inc	gredient Name					Strength
AMMONIA (UNII: 51	.38Q19F1X		,					
-			<b>TYPE B</b> (UNII: 161H3	B14U2	2)			
FERROSOFERRIC	OXIDE (UN	III: XM0M87F35	7)					
GELATIN (UNII: 2G8	36QN327L)							
METHACRYLIC AC	ID - METH	YL METHACR	YLATE COPOLYMER	(1:1)	(UNII	74G4R6TH13)		
			UNII: 3WJQ0SDW1A)					
PROPYLENE GLYC		DC9Q167V3)						
SHELLAC (UNII: MB	-							
STARCH, CORN (U	NII: 082321	NY35J)						
SUCROSE (UNII: C1		)						

TALC (UNII: 7SEV7J4R1U)

TITANIUM DIOXIDE (UNII: 15FIX9V2JP) TRIETHYL CITRATE (UNII: 8Z96QXD6UM)

<b>Product Chara</b>	acteristics								
Color	white		Score				no sco	re	
Shape	CAPSU	LE	Size				19mm		
Flavor			Imprint Code				G20mg	;007	
Contains									
Packaging									
# Item Code	Рас	ckage Desc	ription	ſ	Marke	eting Stai Date	rt		ting End ate
<b>1</b> NDC:70010-007- 01	100 in 1 BOTT Product	LE; Type 0: No	ot a Combination	12/	/01/20	20			
Marketing	Informat	ion							
Marketing Category			r or Monograp on	h	Mar	keting Sta Date	art		ting End
ANDA	ANDA21381	ertati	-		12/01/				
Product Type Route of Admini	stration	HUMAN PRES			Code Sche	e (Source) dule		NDC CII	C:70010-008
Active Ingredi	ent/Active	Moiety							
	Ingred	lient Name	l			Basis o	f Stre	ngth	Strengt
DEXMETHYLPHENI (DEXMETHYLPHENID)			VII: 16780K0E08)			DEXMETHYLF HYDROCHLO		ATE	25 mg
Inactive Ingre	dients								
		Ingred	lient Name						Strength
PROPYLENE GLYC		Q167V3)							
SHELLAC (UNII: MB									
STARCH, CORN (UI		J)							
SUCROSE (UNII: C1									
TALC (UNII: 7SEV7J4									
TITANIUM DIOXIDI		2JP)							
AMMONIA (UNII: 51									
AMMONIO METHA			<b>E B</b> (UNII: 161H3B	14U2	)				
D&C RED NO. 28 (									
FD&C BLUE NO. 1									
FERROSOFERRIC (		10M87F357)							
GELATIN (UNII: 2G8									

GELATIN (UNII: 2G86QN327L)

**METHACRYLIC ACID - METHYL METHACRYLATE COPOLYMER (1:1)** (UNII: 74G4R6TH13) **POLYETHYLENE GLYCOL, UNSPECIFIED** (UNII: 3WJQ0SDW1A)

TRIETHYL CITRATE (UNII: 8Z96QXD6UM)

Product Chara	ctoricticc						
			_				
Color	blue (blue-	white)	Score			no score	
Shape	CAPSULE		Size			22mm	
Flavor			Imprin	t Code		G25mg;0	08
Contains							
Packaging							
# Item Code	Pac	kage Description		Marl	keting Start Date	Marl	ceting End Date
		LE; Type 0: Not a Combi	ination	12/01/2	020		
- 01	Product						
Marketing I	nformat	ion					
Marketing	Applicat	tion Number or Mon	ograph	Ma	rketing Start	Mar	keting End
Category		Citation			Date		Date
ANDA	ANDA21381	3		12/01	L/2020		
Product Inform Product Type Boute of Adminis		HUMAN PRESCRIPTION		tem Coc DEA Scho	le (Source)		NDC:70010-009
Route of Adminis	tration	ORAL	Ľ	PEA SCR	edule	· · · ·	_11
Active Ingredie	ent/Active	Moiety					
,		lient Name			Basis of St	trenath	Strength
	-	CHLORIDE (UNII: 16780	K0E08)		DEXMETHYLPHEN		
(DEXMETHYLPHENIDA			RULUU)		HYDROCHLORIDE		30 mg
Inactive Ingred	lients						
		Ingredient Na	me				Strength
SHELLAC (UNII: MB5	IUD6JUA)						
STARCH, CORN (UN	II: 08232NY35	J)					
SUCROSE (UNII: C15							
TALC (UNII: 7SEV7J4I							
TITANIUM DIOXIDE		2JP)					
TRIETHYL CITRATE							
AMMONIA (UNII: 513	(UNII: 8Z960)	(D6UM)					
		(D6UM)					
AMMONIO METHAC	8Q19F1X)		161H3R1	4U2)			
	8Q19F1X) <b>RYLATE COP</b>	OLYMER TYPE B (UNII:	161H3B1	.4U2)			
AMMONIO METHAC FD&C YELLOW NO. FERROSOFERRIC O	8Q19F1X) <b>RYLATE COP</b> 6 (UNII: H77V	OLYMER TYPE B (UNII: EI93A8)	161H3B1	.4U2)			

GELATIN (UNII: 2G86QN327L)

METHACRYLIC ACID - METHYL METHACRYLATE COPOLYMER (1:1) (UNII: 74G4R6TH13) POLYETHYLENE GLYCOL, UNSPECIFIED (UNII: 3WJQ0SDW1A)

**PROPYLENE GLYCOL** (UNII: 6DC9Q167V3)

Pr	oduct Chara	octeristics		
Co	lor	white (light cream-white)	Score	no score
Sh	аре	CAPSULE	Size	23mm
Fla	vor		Imprint Code	G30mg;009
Co	ntains			
Pa	ackaging			
#	ltem Code	Package Description	Marketing Start Date	Marketing End Date
	NDC:70010-009- 01	100 in 1 BOTTLE; Type 0: Not a Combination Product	12/01/2020	
			12/01/2020	
•	01		12/01/2020	
•	01	Product		Marketing End Date

dexmethylphenidate hydrochloride capsule, extended release

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Product Information					
Product Type	HUMAN PRESCRIPTION DRUG	JG Item Code (Source) NDC:7			
Route of Administration	ORAL	DEA Sche	edule	CII	
Active Ingredient/Active	Moiety				
Ingre	dient Name		Basis of Strengt	th	Strengt
<b>DEXMETHYLPHENIDATE HYDRO</b> (DEXMETHYLPHENIDATE - UNII:M32			DEXMETHYLPHENIDATE HYDROCHLORIDE		35 mg
Inactive Ingredients					
	Ingredient Name				Strength
AMMONIA (UNII: 5138Q19F1X)					
AMMONIO METHACRYLATE CO	POLYMER TYPE B (UNII: 161H3	B14U2)			
D&C RED NO. 28 (UNII: 767IP0Y	5NH)				
FD&C BLUE NO. 1 (UNII: H3R47k	(3TBD)				
FD&C YELLOW NO. 6 (UNII: H77	VEI93A8)				
FERROSOFERRIC OXIDE (UNII: >	(MOM87F357)				
GELATIN (UNII: 2G86QN327L)					
METHACRYLIC ACID - METHYL	METHACRYLATE COPOLYME	<b>(1:1)</b> (UNII	: 74G4R6TH13)		
POLYETHYLENE GLYCOL, UNSF	ECIFIED (UNII: 3WJQ0SDW1A)				
PROPYLENE GLYCOL (UNII: 6DC	9Q167V3)				
SHELLAC (UNII: MB5IUD6JUA)					
STARCH, CORN (UNII: 08232NY3	SJ)				
SUCROSE (UNII: C151H8M554)					

ТА	<b>LC</b> (UNII: 7SEV7J4	R1U)							
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)									
TRIETHYL CITRATE (UNII: 8Z96QXD6UM)									
Pr	roduct Chara	cteristics							
Со	lor	blue (blue-lig	ht cream)	Sco	ore		no so	ore	
	аре	CAPSULE		Siz	-		23mr		
Fla	avor			Imp	orint Co	ode	G35n	ng;010	
Со	ntains								
D									
Pa	ackaging								
#	ltem Code	Pac	kage Description		Mark	ceting Start Date	ма	rketii Dat	ng End te
1			LE; Type 0: Not a Combinatior	n	12/01/2	020			
	01	Product							
Μ	arketing I	nformat	ion						
	Marketing Category	Applicat	tion Number or Monogra Citation	ph	Ма	rketing Start Date	Ma	arketi Da	ing End te
AN		ANDA213813			12/01	./2020			
DI	ЕХМЕТНҮГ	PHENID	ATE HYDROCHLO	RI	DE				
			oride capsule, extended						
D	roduct Inforr	mation							
		nacion							
Pr	oduct Type		HUMAN PRESCRIPTION DRUG	lte	em Cod	e (Source)		NDC:	70010-011
Ro	oute of Adminis	stration	ORAL	DE	EA Sche	edule		CII	
A	tive Ingredie	ent/Active	Moiety						
		Ingred	lient Name			Basis of Str	rengt	h S	Strength
			CHLORIDE (UNII: 16780K0E08	)		DEXMETHYLPHENI	DATE		40 mg
	EXMETHYLPHENIDA	ATE - UNII:M32R	n9MFGP)			HYDROCHLORIDE			-
In	active Ingree	dients							
			Ingredient Name					ç	trength
PO	I YETHYI ENE GI	YCOL, UNSPE	CIFIED (UNII: 3WJQ0SDW1A)						uengui
	OPYLENE GLYCO		-						
	ELLAC (UNII: MB5		()						
	ARCH, CORN (UN	-	)						
	CROSE (UNII: C15	-							
ТА	LC (UNII: 7SEV7J4	R1U)							
ТΠ		UNII: 15FIX9V	2JP)						
TR	IETHYL CITRATE	(UNII: 8Z96QX	D6UM)						
AM	IMONIA (UNII: 513	38Q19F1X)							
	AMMONIO METHACRYLATE COPOLYMER TYPE B (UNII: 161H3B14U2)								
AM	ΙΜΟΝΙΟ ΜΕΤΗΑΟ	RYLATE COP	OLYMER TYPE B (UNII: 161H	3B14	1U2)				

D&	D&C YELLOW NO. 10 (UNII: 35SW5USQ3G)								
FD	FD&C BLUE NO. 1 (UNII: H3R47K3TBD)								
FE	FERROSOFERRIC OXIDE (UNII: XM0M87F357)								
GE	GELATIN (UNII: 2G86QN327L)								
ME	THACRYLIC ACI	D - METHYL METHACRYLATE COPOLYM	1ER (1:	<b>1)</b> (UNII: 74G4R6TH13)					
Pr	oduct Chara	cteristics							
Co	lor	green (Green-White)	Score	•	no score				
Sh	аре	CAPSULE	Size		23mm				
Fla	vor		Impri	nt Code	G40mg;011				
Со	ntains								
Pa	ckaging								
#	Item Code	Package Description		Marketing Start Date	Marketing End Date				
		100 in 1 BOTTLE; Type 0: Not a Combinat Product	ion	12/01/2020					
Μ	arketing I	nformation							
	Marketing Category	Application Number or Monog Citation	raph	Marketing Start Date	Marketing End Date				
AN	DA	ANDA213813		12/01/2020					

Labeler - Granules Pharmaceuticals Inc. (079825711)

Establishment						
Name	Address	ID/FEI	Business Operations			
Granules Pharmaceuticals Inc.		079825711	manufacture(70010-004, 70010-005, 70010-006, 70010-007, 70010-008, 70010-009, 70010-010, 70010-011) , analysis(70010-004, 70010-005, 70010-006, 70010-007, 70010-008, 70010-009, 70010-010, 70010-011)			

Revised: 11/2023

Granules Pharmaceuticals Inc.