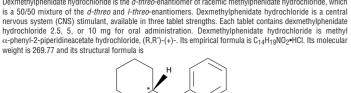
Dexmethylphenidate Hydrochloride Tablets CII

Rx only Prescribing Information

GAVIS Pharmaceuticals 11C

DESCRIPTION Dexmethylphenidate hydrochloride is the d-threo-enantiomer of racemic methylphenidate hydrochloride, which



Note: * = asymmetric carbon centers

Dexmethylphenidate hydrochloride is a white crystalline powder. It is very slightly soluble in water and in alcohol It dissolves in dilute solutions of mineral acids and in solutions of alkali hydroxides and carbonates

Dexmethylphenidate hydrochloride tablets also contains the following inert ingredients; citric acid anhydrous lactose monohydrate, magnesium stearate, microcrystalline cellulose, pregelatinized starch, sodium starch glycolate, and FD&C Blue No.1 (2.5 mg tablets), D&C Yellow #10 (5 mg tablets); the 10 mg tablet contains no

CLINICAL PHARMACOLOGY

Dexmethylphenidate hydrochloride is a central nervous system stimulant. Dexmethylphenidate hydrochloride, the more pharmacologically active enantiomer of the d- and I-enantiomers, is thought to block the reuptake of norepinephrine and dopamine into the presynaptic neuron and increase the release of these monoamines into the extraneuronal space. The mode of therapeutic action in Attention Deficit Hyperactivity Disorder (ADHD) is

Effects on QT Interva

The effect of dexmethylphenidate hydrochloride extended-release capsules on the QT interval was evaluated in a double-blind, placebo- and open label active (moxifloxacin)-controlled study following single doses of dexmethylphenidate hydrochloride extended-release capsules, 40mg in 75 healthy volunteers. ECGs were destricting the first entire that the content of th

Pharmacokinetics

Dexmethylphenidate hydrochloride is readily absorbed following oral administration of dexmethylphenidate hydrochloride tablets. In patients with ADHD, plasma dexmethylphenidate concentrations increase rapidly, reaching a maximum in the fasted state at about 1 to 1.5 hours postdose. No differences in the pharmacokinetics of dexmethylphenidate hydrochloride were noted following single and repeated twice daily dosing, thus indicating no significant drug accumulation in children with ADHD.

When given to children as capsules in single doses of 2.5 mg, 5 mg, and 10 mg, C_{max} and AUC_{0-inf} of dexmethylphenidate were proportional to dose. In the same study, plasma dexmethylphenidate levels were comparable to those achieved following single dl-threo-methylphenidate HCl doses given as capsules in twice the total mg amount (equimolar with respect to dexmethylphenidate hydrochloride

Food Effects

In a single dose study conducted in adults, coadministration of 2 x 10 mg dexmethylphenidate hydrochl with a high fat breakfast resulted in a dexmethylphenidate t_{max} of 2.9 hours postdose as compared to 1.5 hours postdose when given in a fasting state. C_{max} and AUC_{0-inf} were comparable in both the fasted and non-faster states.

Plasma dexmethylphenidate concentrations in children decline exponentially following oral administration of dexmethylphenidate hydrochloride.

Metabolism and Excretion

In humans, dexmethylphenidate is metabolized primarily to d- α -phenyl-piperidine acetic acid (also known as d-ritalinic acid) by de-esterification. This metabolite has little or no pharmacological activity. There is little or no in vivo interconversion to the *I-threo*-enantiomer, based on a finding of minute levels of *I-threo*-methylphenidate being detectable in a few samples in only 2 of 58 children and adults. After oral dosing of radiolabeled racemic henidate in humans, about 90% of the radioactivity was recovered in urine. The main urinary metabolite linic acid, accountable for approximately 80% of the dose.

In vitro studies showed that dexmethylphenidate did not inhibit cytochrome P450 isoenzymes

The mean plasma elimination half-life of dexmethylphenidate is approximately 2.2 hours

Snecial Populations

Gender

Pharmacokinetic parameters were similar for boys and girls (mean age 10 years).

In a single dose study conducted in adults, the mean dexmethylphenidate AUC_{0-inf} values (adjusted for body weight) following single 2 x 10 mg doses of dexmethylphenidate hydrochloride were 25%-35% higher in adult female volunteers (n=6) compared to male volunteers (n=9). Both t_{max} and $t_{1/2}$ were comparable for males and

There is insufficient experience with the use of dexmethylphenidate hydrochloride to detect ethnic variations in pharmacokinetics

The pharmacokinetics of dexmethylphenidate after dexmethylphenidate hydrochloride administration have not been studied in children less than 6 years of age. When single doses of dexmethylphenidate hydrochloride were given to children between the ages of 6 to 12 years and healthy adult volunteers, C_{max} of dexmethylphenidate was similar, however, children showed somewhat lower AUCs compared to the adults.

There is no experience with the use of dexmethylphenidate hydrochloride in patients with renal insufficiency. After oral administration of radiolabeled racemic methylphenidate in humans, methylphenidate was extensively metabolized and approximately 80% of the radioactivity was excreted in the urine in the form of ritalinic acid Since very little unchanged drug is excreted in the urine, renal insufficiency is expected to have little effect on

Henatic Insufficiency

There is no experience with the use of dexmethylphenidate hydrochloride in patients with hepatic insufficiency (see PRECAUTIONS, Drug Interactions).

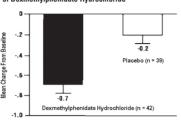
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. Dexmethylphenidate hydrochloride was evaluated in 2 double-blind, parallel-group, placebo-controlled trials in Dexmenylphenioate hydrochloride was evaluated in 2 double-billing, parallel-group, placebo-controle trais in untreated or previously treated patients aged 6 to 17 years old with a DSM-IV diagnosis of Attention Deficit Hyperactivity Disorder (ADHD). Both studies included all three subtypes of ADHD, i.e., Combined Type, Predominantly Inattentive Type, or Predominantly Hyperactive-Impulsive Type. While both children and adolescents were included, the sample was predominantly children, thus, the findings are most pertinent to this age group. In both studies, the primary comparison of interest was dexmethylphenidate hydrochloride

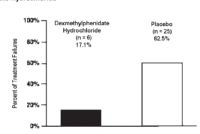
Dexmethylphenidate hydrochloride (5, 10, or 20 mg/day total dose), dl-threo-methylphenidate HCl (10, 20, or Dexmemylpinenidate nydrocnioride (5, 10, or 20 mg/day total dose), al-mreo-methylpinenidate Hcl (10, 20, or 40 mg/day total dose), and placebo were compared in a multicenter, 4-week, parallel group study in n=132 patients. Patients took the study medication twice daily, 3.5 to 5.5 hours between doses. Treatment was initiated with the lowest dose, and doses could be doubled at weekly intervals, depending on clinical response and tolerability, up to the maximum dose. The change from baseline to week 4 of the averaged score (an average of 2 ratings during the week) of the teacher's version of the SNAP-ADHD Rating Scale, a scale for assessing ADHD symptoms, was the primary outcome. Patients treated with dexmethylphenidate hydrochloride showed a statistical via regarders. statistically significant improvement in symptom scores from baseline over patients who received placebo

Figure 1 Mean Change from Baseline in Teacher SNAP-ADHD Scores in a 4-week Double-Blind



The other study, involving n=75 patients, was a multicenter, placebo-controlled, double-blind, 2-week tr withdrawal study in children who were responders during a 6-week, open label initial treatment period. Children took study medication twice a day separated by a 3.5 to 5.5 hour interval. The primary outcome was proportion of treatment failures at the end of the 2-week withdrawal phase, where treatment failure was defined as a rating of 6 (much worse) or 7 (very much worse) on the Investigator Clinical Global Impression - Improvement (CGI Patients continued on dexmethylphenidate hydrochloride showed a statistically significant lower rate of faili

Figure 2: Percent of Treatment Failures Following a 2 Week Double-Blind Placebo-Controlled Withdrawal



INDICATIONS AND USAGE

nidate hydrochloride tablets are indicated for the treatment of Attention Deficit Hyperactivity

The efficacy of dexmethylphenidate hydrochloride tablets in the treatment of ADHD was established in 2 controlled trials of patients aged 6 to 17 years of age who met DSM-IV criteria for ADHD (see Clinical Studies)

A diagnosis of ADHD (DSM-IV) implies the presence of hyperactive-impulsive or inattentive symptoms that cause impairment and were present before age 7 years. The symptoms must cause clinically significant impairment, e.g., in social, academic, or occupational functioning; and be present in 2 or more settings, e.g., school (or work) and at home. The symptoms must not be better accounted for by another mental disorder. For the inattentive type, at least 6 of the following symptoms must have persisted for at least 6 months: lack of attention to details/careless mistakes; lack of sustained attention; poor listener; failure to follow through on attention to details/careless inistakes, tack of sustained attention, poor insteller, raintie to follow infough of tasks; poor organization; avoids tasks requiring sustained mental effort; loses things; easily distracted; forgetful. For the Hyperactive-Impulsive Type, at least 6 of the following symptoms must have persisted for at least 6 months: fidgeting/squirming; leaving seat; inappropriate running/climbing; difficulty with quiet activities; "on the go," excessive talking; blurting answers; can't wait turn; intrusive. The Combined Type requires both inattentive and hyperactive-impulsive criteria to be met

Special Diagnostic Consideration

Specific etiology of this syndrome is unknown, and there is no single diagnostic test. Adequate diagnosis requires the use not only of medical but of special psychological, educational, and social resources. Learning may or may not be impaired. The diagnosis must be based upon a complete history and evaluation of the child and not solely on the presence of the required number of DSM-IV characteristics.

Dexmethylphenidate hydrochloride tablets are indicated as an integral part of a total treatment program fo ADHO that may include other measures (psychological, educational, social) for patients with this syndrome. Drug treatment may not be indicated for all patients with this syndrome. Stimulants are not intended for use in the patient who exhibits symptoms secondary to environmental factors and/or other primary psychiatric disorders, including psychosis. Appropriate educational placement is essential and psychosocial intervention is often helpful. When remedial measures alone are insufficient, the decision to prescribe stimulant medication will depend upon the physician's assessment of the chronicity and severity of the patient's symptoms.

The effectiveness of dexmethylphenidate hydrochloride tablets for long-term use, i.e., for more than 6 weeks, has not been systematically evaluated in controlled trials. Therefore, the physician who elects to use dexmethylphenidate hydrochloride tablets for extended periods should periodically re-evaluate the long-term usefulness of the drug for the individual patient (see DOSAGE AND ADMINISTRATION).

CONTRAINDICATIONS

Dexmethylphenidate hydrochloride tablets are contraindicated in patients with marked anxiety, tension, and agitation, since the drug may aggravate these symptoms.

Hypersensitivity to Methylphenidate

Dexmethylphenidate hydrochloride tablets are contraindicated in natients known to be hypersensitive to prientiate injurioritie Labres are confinintiated in patients shrowing to be uppersensitive to inidate or other components of the product. Hypersensitivity reactions, including angioedema and ic reactions, have been observed in patients treated with methylphenidate (see ADVERSE REACTIONS).

Dexmethylphenidate hydrochloride tablets are contraindicated in patients with glaucoma.

Tics

Dexmethylphenidate hydrochloride tablets are contraindicated in pat or diagnosis of Tourette's syndrome (see ADVERSE REACTIONS). cated in patients with motor tics or with a family history

Monoamine Oxidase Inhibitors

Dexmethylphenidate hydrochloride tablets are contraindicated during treatment with monoamine oxidase inhibitors, and also within a minimum of 14 days following discontinuation of a monoamine oxidase inhibitor (hypertensive crises may result).

Serious Cardiovascular Events

Sudden Death and Preexisting Structural Cardiac Abnormalities or Other Serious Heart Problems

Children and Adolescents

Sudden death has been reported in association with CNS stimulant treatment at usual doses in children and adolescents with structural cardiac abnormalities or other serious heart problems. Although some serious heart problems alone carry an increased risk of sudden death, stimulant products generally should not be used in children or adolescents with known serious structural cardiac abnormalities, cardiomyopathy, serious hear rhythm abnormalities, or other serious cardiac problems that may place them at increased vulnerability to the sympathomimetic effects of a stimulant drug.

Sudden death, stroke, and myocardial infarction have been reported in adults taking stimulant drugs at usual doses for ADHD. Although the role of stimulants in these adult cases is also unknown, adults have a greate likelihood than children of having serious structural cardiac abnormalities, cardiomyopathy, serious heart rhythm abnormalities, coronary artery disease, or other serious cardiac problems. Adults with such abnormalities should

Stimulant medications cause a modest increase in average blood pressure (about 2-4 mmHg) and average heart Stimulant medications cause a modest interacts in avertage fload pressure (about 2-4 mining) and average float rate (about 3-6 bpm), and individuals may have larger increases. While the mean changes alone would not be expected to have short-term consequences, all patients should be monitored for larger changes in heart rate and blood pressure. Caution is indicated in treating patients whose underlying medical conditions might be compromised by increases in blood pressure or heart rate, e.g., those with preexisting hypertension, heart failure, recent myocardial infarction, or ventricular arrhythmia.

Assessing Cardiovascular Status in Patients being Treated with Stimulant Medications

Children, adolescents, or adults who are being considered for treatment with stimulant medications should have a careful history (including assessment for a family history of sudden death or ventricular arrhythmia) and physical exam to assess for the presence of cardiac disease, and should receive further cardiac evaluation if findings suggest such disease (e.g., electrocardiogram and echocardiogram). Patients who develop symptoms such as exertional chest pain, unexplained syncope, or other symptoms suggestive of cardiac disease during stimulant treatment should undergo a prompt cardiac evaluation

Psychiatric Adverse Events

Preexisting Psychosis

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

Particular care should be taken in using stimulants to treat ADHD in patients with comorbid bipolar disorder because of concern for possible induction of a mixed/manic episode in such patients. Prior to initiating treatment with a stimulant, patients with comorbid depressive symptoms should be adequately screened to determine if with a stitution, patients with common depressive symptoms should be adequately sciented to determine in they are at risk for bipolar disorder; such screening should include a detailed psychiatric history, including a family history of suicide, bipolar disorder, and depression.

Emergence of New Psychotic or Manic Symptoms

Treatment emergent psychotic or manic symptoms, e.g., hallucinations, delusional thinking, or mania in children Treatment emergent psycholoc or maint symptomis, e.g., nanuclinations, delusional mining, or maint in cliniden and adolescents without a prior history of psychotic illness or mania can be caused by stimulants at usual doses. If such symptoms occur, consideration should be given to a possible causal role of the stimulant, and discontinuation of treatment may be appropriate. In a pooled analysis of multiple short-term, placebo-controlled studies, such symptoms occurred in about 0.1% (4 patients with events out of 3,482 exposed to methylphenidate or amphetamine for several weeks at usual doses) of stimulant-treated patients compared to 0 in placebo-treated patients.

sive behavior or hostility is often observed in children and adolescents with ADHD, and has been rep in clinical trials and the postmarketing experience of some medications indicated for the treatment of ADHD. Although there is no systematic evidence that stimulants cause aggressive behavior or hostility, patients beginning treatment for ADHD should be monitored for the appearance of or worsening of aggressive behavior

Careful follow-up of weight and height in children ages 7 to 10 years who were randomized to either methylphenidate or nonmedication treatment groups over 14 months, as well as in naturalistic subgroups of newly methylphenidate-treated and nonmedication treated children over 36 months (to the ages of 10 to 13 years), suggests that consistently medicated children (i.e., treatment for 7 days per week throughout the year) have 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 period of development. Published data are inadequate to determine whether chronic use of amphetamines may cause a similar suppression of growth, however, it is anticipated that they likely have this effect as well. Therefore, growth should be monitored during treatment with stimulants, and patients who are not growing or gaining height or weight as expected may need to have their treatment interrupted.

Seizures

There is some clinical evidence that stimulants may lower the convulsive threshold in patients with prior history of seizures, in patients with prior EEG abnormalities in absence of seizures, and, very rarely, in patients without a history of seizures and no prior FEG evidence of seizures. In the presence of seizures, the drug should be

Prolonged and painful erections, sometimes requiring surgical intervention, have been reported with methylphenidate products in both pediatric and adult patients. Priapism was not reported with drug initiation

but developed after some time on the drug, often subsequent to an increase in dose. Priapism has also appeared during a period of drug withdrawal (drug holidays or discontinuation). Patients who develop abnormally ined or frequent and painful erections should seek immediate medical attention

Perinheral Vasculonathy, Including Raynaud's Phenome

Stimulants, including dexmethylphenidate hydrochloride tablets, used to treat ADHD are associated with peripheral vasculopathy, including Raynaud's phenomenon. Signs and symptoms are usually intermittent and mild; however, very rare sequelae include digital ulceration and/or soft tissue breakdown. Effects of peripheral and therapeutic doses in all age groups throughout the course of treatment. Signs and symptoms generally improve after reduction in dose or discontinuation of drug. Careful observation for digital changes is necessary during treating with ADHD stimulants. Further clinical evaluation (e.g., rheumatology referral) may be appropriate for certain patients.

Visual Disturbance

Difficulties with accommodation and blurring of vision have been reported with stimulant treatment

Use in Children Under 6 Years of Age

Dexmethylphenidate hydrochloride tablets should not be used in children under 6 years, since safety and efficacy in this age group have not been established.

DRUG DEPENDENCE

exmethylphenidate hydrochloride tablets should be given cautiously to patients with a history of drug ependence or alcoholism. Chronic, abusive use can lead to marked tolerance and psychological ependence with varying degrees of abnormal behavior. Frank psychotic episodes can occur, especially with parenteral abuse. Careful supervision is required during drug withdrawal from abusive use since severe lepression may occur. Withdrawal following chronic therapeutic use may unmask symptoms of the underlying disorder that may require follow-up.

PRECAUTIONS

Periodic CBC, differential, and platelet counts are advised during prolonged therapy.

Information for Patients

Prescribers or other health professionals should inform patients, their families, and their caregivers about the benefits and risks associated with treatment with dexmethylphenidate and should counsel them in its appropriate use. A patient Medication Guide is available for dexmethylphenidate hydrochloride tablets. The prescriber or health professional should instruct patients, their families, and their caregivers to read the Medication Guide and should assist them in understanding its contents. Patients should be given the opportunity to discuss the contents of the Medication Guide and to obtain answers to any questions they may have. The complete text of nts of the Medication Guide and to obtain answers to any question the Medication Guide is reprinted at the end of this docu

Advise patients, caregivers, and family members of the possibility of painful or prolonged penile erections (priapism). Instruct the patient to seek immediate medical attention in the event of priapism

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

- Instruct patients beginning treatment with dexmethylphenidate hydrochloride tablets 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 nations to call their physician immediately with any signs of unexplained wounds appearing on fingers or toes while taking dexmethylphenidate hydrochloride tablets
 Further clinical evaluation (e.g. rheumatology referral) may be appropriate for certain patients.

Drug Interactions

Methylphenidate may decrease the effectiveness of drugs used to treat hypertension. Because of possible effects on blood pressure, dexmethylphenidate hydrochloride should be used cautiously with pressor agent

pharmacologic studies have shown that racemic methylphenidate may inhibit the metabolism of coumarin anticoagulants, anticonvulsants (e.g., phenobarbital, phenytoin, primidone), and some antidepressants (tricyclics and selective serotonin reuptake inhibitors). Downward dose adjustments of these drugs may be required when given concomitantly with methylphenidate. It may be necessary to adjust the dosage and monitor plasma drug concentration (or, in the case of coumarin, coagulation times), when initiating or discontinuing

Carcinogenesis, Mutagenesis, Impairment of Fertility

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 at a daily dose of approximately 60 mg/kg/day. Hepatoblastoms are latively rare rodent malignant tumor type. There was no increase in total malignant hepatic tumors mouse strain used is sensitive to the development of hepatic tumors, and the significance of these results. humans is unknown.

mic 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.

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

Dexmethylphenidate was not mutagenic in the *in vitro* Ames reverse mutation assay, the *in vitro* mouse

Racemic methylphenidate was not mutagenic in the *in vitro* Ames reverse mutation assay or the *in vitro* mouse lymphoma cell forward mutation assay, and was negative in vivo in the mouse bone marrow micronic assay. However, sister chromatid exchanges and chromosome aberrations were increased, indicative of a weak clastogenic response, in an *in vitro* assay of racemic methylphenidate in cultured Chinese Hamster Ovary (CHO)

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.

Pregnancy

Pregnancy Category C

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 teratogenic activity was found in either the rat or rabbit study; however, delayed fetal skeletal ossification was observed at the highest dose literal first at of Tabult study, indever, clearly extended to the control was observed at the injuriest dose level in rats. When dexmethylphenidate was administered to rats throughout pregnancy and lactation at doses of up to 20 mg/kg/day, postweaning 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 (AUCs) of dexmethylphenidate in pregnant rats and rabbits were approximately 5 and 1 times, respectively, those in adults dosed with the maximum recommended human dose of 20 mg/day.



Hydrochloride lablets

GROUP Prepared by: suzannea Date: 05/04/2015 Job No.: Flat size: 16 25 x 12 25 Fold size: 1.25 x 1.25 Type size: Rev. Date: 05/04/2015 Cust. Part No.: PI8610000202 PO No. Description: Dexmethylphenidate HCI Tabs_Gavis_4-15

Manufactured by: Novel Laboratories, Inc. Somerset, NJ 08873

GAVIS Pharmaceuticals, LLC

PIR61000000

Somerset, NJ 08873

MEDICATION GUIDE

Dexmethylphenidate (dex meth ill fen i date) Hydrochloride Tablets CII

Read the Medication Guide that comes with dexmethylphenidate hydrochloride tablets before you or your child starts taking it and each time you get a refill. There may be new information. This Medication Guide does not take the place of talking to your doctor about your or your child's treatment with dexmethylphenidate hydrochloride tablets.

What is the most important information I should know about dexmethylphenidate hydrochloride tablets:

The following have been reported with use of dexmethylphenidate hydrochloride and other stimu

Heart-related problems:

- sudden death in patients who have heart problems or heart defects
- stroke and heart attack in adults increased blood pressure and heart rate

Tell your doctor if you or your child have any heart problems, heart defects, high blood pressure, or a fan

our doctor should check you or your child carefully for heart problems before starting dexmethylphenida

our doctor should check your or your child's blood pressure and heart rate regularly during treatment w

Call your doctor right away if you or your child has any signs of heart problems such as chest pain

ness of breath, or fainting while taking dexmethyl

. Mental (Psychiatric) problems:

- new or worse behavior and thought problems
- new or worse bipolar illness
- new or worse aggressive behavior or hostilit

· new psychotic symptoms (such as hearing voices, believing things that are not true, are suspicious

ell your doctor about any mental problems you or your child have, or about a family history of suicid

Call your doctor right away if you or your child have any new or worsening mental symptoms or proble idate hydrochloride tablets, especially seeing or hearing things that are not while taking dexr real, believing things that are not real, or are suspicious

B. Circulation problems in fingers and toes [Peripheral vasculopathy, including Raynaud's phenomeno

- ngers or toes may feel numb, cool, painful, and/or may change color from pale, to blue, to red . Tell your doctor if you have or your child has numbness, pain, skin color change, or sensitivity nperature in your fingers or toes
- Call your doctor right away if you have or your child has any signs of unexplained wounds appear on fingers or toes while taking dexmethylphenidate hydrochloride tablets

What are dexmethylphenidate hydrochloride tablets?

Dexmethylphenidate hydrochloride tablets are a central nervous system stimulant prescription medicine. They are used for the treatment of attention deficit and hyperactivity disorder (ADHD). Dexmethylphen

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

nidate hydrochloride tablets are a federally controlled substance (CII) because they car be abused or lead to dependence. Keep dexmethylphenidate hydrochloride tablets in a safe place to prevent misuse and abuse. Selling or giving away dexmethylphenidate hydrochloride tablets may harm others, and is against the law

Tell your doctor if you or your child have (or have a family history of) ever abused or been dependent alcohol, prescription medicines or street drugs.

Who should not take dexmethylphenidate hydrochloride tablets?

- Dexmethylphenidate hydrochloride tablets should not be taken if you or your child are very anxious, tense, or agitated
- have an eye problem called glaucoma
- have tics or Tourette's syndrome, or a family history of Tourette's syndrome. Tics are hard to control repeated
- are taking or have taken within the past 14 days an anti-depression medicine called a monoamine oxidase inhibitor or MAOI. · are allergic to anything in dexmethylphenidate hydrochloride tablets. See the end of this Medication Guide for
- a complete list of ingredients. Dexmethylphenidate hydrochloride tablets should not be used in children less than 6 years old because it has lss. 04/2015

Dexmethylphenidate hydrochloride tablets may not be right for you or your child. Before starting

dexmethylphenidate hydrochloride tablets tell your or your child's doctor about all health conditions (or a family history of) including:

· heart problems, heart defects, high blood pressure

Racemic methylphenidate has been shown to have teratogenic effects in rabbits when given in doses of 200 Blood/lymphatic: leukopenia and/or anemia mg/kg/day throughout organogenesis

Adequate and well-controlled studies in pregnant women have not been conducted. Dexmethylphenidate de tablets should be used during pregnancy only if the potential benefit justifies the potential risk to

Nursing Mothers

It is not known whether dexmethylphenidate is excreted in human milk. Because many drugs are excreted in human milk, caution should be exercised if dexmethylphenidate hydrochloride is administered to a nursing woman.

The safety and efficacy of dexmethylphenidate hydrochloride in children under 6 years old have not been established, Long-term effects of dexmethylphenidate hydrochloride in children have not been well established (see WARNINGS).

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 13-14), decreased spontaneous locomotor activity was observed in males and females previously treated with 50 mg/kg/day (approximately 6 times the maximum recommended human dose [MRHD] of racemic methylphenidate on a mg/m² basis) or greater, and a deficit in the acquisition of a specific learning task was seen in females exposed to the highest dose (12 times the racemic MRHD on a mg/m² basis). The no effect level for juvenile neurobehavioral development in rats was 5 mg/kg/day (half the racemic MRHD on a mg/m² basis). The clinical significance of the long-term behavioral effects observed in rats is unknown.

ADVERSE REACTIONS

The premarketing development program for dexmethylphenidate hydrochloride included exposures in a total of 696 participants in clinical trials (684 patients, 12 healthy adult subjects). These participants received dexmethylphenidate hydrochloride 5, 10, or 20 mg/day. The 684 ADHD patients (ages 6 to 17 years) were evaluated in 2 controlled clinical studies, 2 clinical pharmacology studies, and 2 uncontrolled long-term safety studies. Safety data on all nationts are included in the discussion that follows. Adverse reactions were assessed γ collecting adverse events, and results of physical examinations, vital sign and body weight me

Adverse events during exposure were primarily obtained by general inquiry and recorded by clinical investigators using terminology of their own choosing. Consequently, it is not possible to provide a meaningful estimate of the proportion of individuals experiencing adverse events without first grouping similar types of events into a smaller number of standardized event categories. In the tables and tabulations that follow, standard COSTART dictionary terminology has been used to classify reported adverse events.

The stated frequencies of adverse events represent the proportion of individuals who experienced, at least once, a treatment-emergent adverse event of the type listed. An event was considered treatment emergent if it occurred for the first time or worsened while receiving therapy following baseline evaluation.

Adverse Findings in Clinical Trials with Dexmethylphenidate Hydrochloride

Adverse Events Associated with Discontinuation of Treatmen

No dexmethylphenidate hydrochloride-treated patients discontinued due to adverse events in 2 placebocontrolled trials. Overall, 50 of 684 children treated with dexmethylphenidate hydrochloride (7.3%) exp an adverse event 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).

Adverse Events Occurring at an Incidence of 5% or More Among Dexmethylphenidate Hydrochloride-Treated

Table 1 enumerates treatment-emergent adverse events for 2, placebo-controlled, parallel group trials in children with ADHO at dexmethylphenidate hydrochloride doses of 5, 10, and 20 mg/day. The table includes only those events that occurred in 5% or more of patients treated with dexmethylphenidate hydrochloride where the incidence in patients treated with dexmethylphenidate hydrochloride was at least twice the incidence in placebo-treated patients. The prescriber should be aware that these figures cannot be used to predict the incidence of adverse events in the course of usual medical practice where patient characteristics and other factors differ from those which prevailed in the clinical trials. Similarly, the cited frequencies cannot be compared with figures obtained from other clinical investigations involving different treatments, uses, and inve The cited figures, however, do provide the prescribing physician with some basis for estimating the contribution of drug and non-drug factors to the adverse event incidence rate in the population studied

Table 1 Treatment-Emergent Adverse Events 1 Occurring During Double-Blind Treatment in

Clinical Trials of Dexmethylphenidate Hydrochloride						
Body System	Preferred Term	Dexmethylphenidate Hydrochloride	Placebo			
		(n=79)	(n=82)			
Body as a Whole						
	Abdominal Pain	15%	6%			
	Fever	5%	1%			
Digestive System						
	Anorexia	6%	1%			
	Nausea	9%	1%			

T Events, regardless of causality, for which the incidence for patients treated with dexmethylphenidate hydrochloride was at least 5% and twice the incidence among placebo-treated patients. Incidence has been rounded to the nearest whole number

Adverse Events from Postmarketing Experience

The following additional adverse reactions have been identified during postapproval use of dexmethylphenidate hydrochloride extended-release tablets. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency:

Musculoskeletal: rhahdomyolysis

Immune System Disorders: hypersensitivity reactions, including angioedema and anaphylaxis

Adverse Events with Other Methylphenidate HCI Product

Nervousness and insomnia are the most common adverse reactions reported with other methylphenidate products. In children, loss of appetite, abdominal pain, weight loss during prolonged therapy, insomnia, and tachycardia may occur more frequently; however, any of the other adverse reactions listed below may also

Other reactions include:

Cardiac: angina, arrhythmia, palpitations, pulse increased or decreased, tachycardia

Immune: hypersensitivity reactions including skin rash, urticaria, fever, arthralgia, exfoliative dermatitis erythema multiforme with histopathological findings of necrotizing vasculitis, and thrombocytopenic purpura

Nervous System: dizziness, drowsiness, dyskinesia, headache, rare reports of Tourette's syndrome, toxic

Vascular: blood pressure increased or decreased, cerebral arteritis and/or occlusion

Although a definite causal relationship has not been established, the following have been reported in patients taking methylphagidate:

Store at 25°C (77°F); excursions permitted 15°C-30°C (59°F-86°F).

Hepatobiliary: abnormal liver function, ranging from transaminase elevation to hepatic coma

Side 1 4/29/15

Psychiatric: transient depressed mood, aggressive behavior, libido change

Skin/subcutaneous: scalp hair loss Urogenital System: priapism

Very rare reports of neuroleptic malignant syndrome (NMS) have been received, and, in most of these, patients were concurrently receiving therapies associated with NMS. In a single report, a 10-year-old boy who had been taking methylphenidate for approximately 18 months experienced an NMS-like event within 45 minutes of ingesting his first dose of venlafaxine. It is uncertain whether this case represented a drug-drug interaction, a

In children, loss of appetite, abdominal pain, weight loss during prolonged therapy, insomnia, and tachycardia may occur more frequently; however, any of the other adverse reactions listed above may also occur.

DRUG ABUSE AND DEPENDENCE

Controlled Substance Class

Dexmethylphenidate hydrochloride, like other methylphenidate products, is classified as a Schedule II controlled substance by Federal regulation

Abuse, Dependence, and Tolerance

See WARNINGS for boxed warning containing drug abuse and dependence infor

Signs and symptoms of acute methylphenidate overdosage, resulting principally from overstimulation of the CNS and from excessive sympathomimetic effects, may include the following: vomiting, agitation, tremors, hyperreflexia, muscle twitching, convulsions (may be followed by coma), euphoria, confusion, hallucinations, delirium, sweating, flushing, headache, hyperpyrexia, tachycardia, palpitations, cardiac arrhythmias, hypertension, mydriasis, and dryness of mucous membranes. Rhabdomyolysis has also been reported in overdose.

Recommended Treatment

Treatment consists of appropriate supportive measures. The patient must be protected against self-injury and readment consists of appropriate supportive measures. The patient must be protected against earlingly and against external stimuli that would aggravate overstimulation already present. Gastric contents may be evacuated by gastric lavage as indicated. Before performing gastric lavage, control agitation and seizures if present and protect the airway. Other measures to detoxify the gut include administration of activated charcoal and a cathartic. Intensive care must be provided to maintain adequate circulation and respiratory exchange; external cooling procedures may be required for hyperpyrexia.

Efficacy of peritoneal dialysis for dexmethylphenidate hydrochloride overdosage has not been established.

As with the management of all overdosage, the possibility of multiple drug ingestion should be considered. The physician may wish to consider contacting a poison control center for up-to-date information on the management of overdosage with methylphenidate.

DOSAGE AND ADMINISTRATION

Dexmethylphenidate hydrochloride tablets are administered twice daily, at least 4 hours apart. Dexmethylphenidate hydrochloride tablets may be administered with or without food. Dosage should be individualized according to the needs and responses of the patient.

(2.5 mg twice daily). Dosage may be adjusted in 2.5 to 5 mg increments to a maximum of 20 mg/day (10 mg twice daily). In general, dosage adjustments may proceed at approximately weekly intervals.

hylphenidate, or for patients who are on stimulants other than methylphenidate, is 5 mg/day

The recommended starting dose of dexmethylphenidate hydrochloride tablets for patients who are not currently

Patients Currently Using Methylphenidate

For patients currently using methylphenidate, the recommended starting dose of dexmethylphenidate chloride tablets is half the dose of racemic methylphenidate. The maximum recommended dose is 20

Maintenance/Extended Treatment

There is no body of evidence available from controlled trials to indicate how long the patient with ADHD shouldbe treated with dexmethylphenidate hydrochloride tablets. It is generally agreed, however, that pharmacological treatment of ADHD may be needed for extended periods. Nevertheless, the physician who elects to use dexmethylphenidate hydrochloride tablets for extended periods in patients with ADHD should periodically re-evaluate the long-term usefulness of the drug for the individual patient with periods off medication to assess the patient's functioning without pharmacotherapy. Improvement may be sustained when the drug is either temporarily or permanently discontinued.

If paradoxical aggravation of symptoms or other adverse events occur, the dosage should be reduced, or, if necessary, the drug should be discontinued.

If improvement is not observed after appropriate dosage adjustment over a 1-month period, the drug should

HOW SUPPLIED

2.5 mg Tablets: blue, round, flat-faced, beveled-edged tablet, debossed with "862" on one side and "n" on the

ottles of 30	NDC 43386-862-03
ottles of 100	NDC 43386-862-01
ottles of 1000	NDC 43386-862-10

5 mg Tablets: yellow, round, flat-faced, beveled-edged tablet, debossed with "860" on one side and "n" on the

Bottles of 30	NDC 43386-860-03
Bottles of 100	NDC 43386-860-01
Bottles of 1000	NDC 43386-860-10

10 mg Tablets: White, round, flat-faced, beveled-edged tablet, debossed with "861" on one side and "n" on the

Bottles of 30	NDC	43386-861-03	
Bottles of 100	NDC	43386-861-01	
Bottles of 1000	NDC	43386-861-10	

mental problems including psychosis, mania, bipolar illness, or depression

tics or Tourette's syndrome

seizures or have had an abnormal brain wave test (EEG)

Tell your doctor if you or your child is pregnant, planning to become pregnant, or breast-fee

Can dexmethylphenidate hydrochloride tablets be taken with other medicines?

Tell your doctor about all of the medicines that you or your child take including prescription and nonprescription medicines, vitamins, and herbal supplements. Dexmethylphenidate hydrodome medicines may interact with each other and cause serious side effects. Sometimes medicines will need to be adjusted while taking dexmethylphenidate hydrochloride tablets.

Your doctor will decide whether dexmethylphenidate hydrochloride tablets can be taken with other medicines.

Especially tell your doctor if you or your child takes:

- anti-depression medicines including MAOIs seizure medicines
- blood thinner medicines
- blood pressure medicines
- · cold or allergy medicines that contain decongestants

Know the medicines that you or your child takes. Keep a list of your medicines with you to show your doctor

Do not start any new medicine while taking dexmethylphenidate hydrochloride tablets without talking to

v should dexmethylphenidate hydrochloride tablets be taken?

- Take dexmethylphenidate hydrochloride tablets exactly as prescribed. Your doctor may adjust the dose until it is right for you or your child.
- Take dexmethylphenidate hydrochloride tablets twice a day, at least 4 hours apart.
- Dexmethylphenidate hydrochloride tablets can be taken with or without food.
 From time to time, your doctor may stop dexmethylphenidate hydrochloride tablets treatment for a while to
- Vour doctor may do regular checks of the blood, heart, and blood pressure while taking dexmethylphenidate hydrochloride tablets. Children should have their height and weight checked often while taking dexmethylphenidate hydrochloride tablets. Dexmethylphenidate hydrochloride tablets treatment may be
- stopped if a problem is found during these check-ups. • If you or your child takes too much dexmethylphenidate hydrochloride tablets or overdoses, call you r or poison control center right away, or get emergency treatment

What are possible side effects of dexmethylphenidate hydrochloride tablets?

See "What is the most important information I should know about dexmethylphenidate hydrochloride tablets?" for information on reported heart and mental problems

- Serious allergic reactions (symptoms can be difficulty breathing, swelling of the face, neck and throat, rashes
- and hives, fever) slowing of growth (height and weight) in children
- selzures, mainly in patients with a history of seizures
 eyesight changes or blurred vision
 Painful and prolonged erections (priapism) have occurred with methylphenidate. If you or your child develop priapism, seek medical help right away. Because of the potential for lasting damage, priapism should be

Common side effects include:

evaluated by a doctor immediately

nausea

Talk to your doctor if you or your child has side effects that are bothersome or do not go away This is not a complete list of possible side effects. Ask your doctor or pharmacist for more information.

How should I store dexmethylphenidate hydrochloride tablets? Store dexmethylphenidate hydrochloride tablets in a safe place at room temperature, 59°F to 86°F (15°C to

Keep dexmethylphenidate hydrochloride tablets and all medicines out of the reach of children

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. Do not use dexmethylphenidate hydrochloride tablets for a condition for which it was not prescribed. Do not give dexmethylphenidate hydrochloride tablets to other people, even if they have the same condition. It may harn

This Medication Guide summarizes the most important information about dexmethylphenidate hydrochic tablets. If you would like more information, talk with your doctor. You can ask your doctor or pharmacist for information about dexmethylphenidate hydrochloride tablets that was written for healthcare professionals

For more information about dexmethylphenidate hydrochloride tablets call 1-866-403-7592.

What are the ingredients in dexmethylphenidate hydrochloride tablets?

Inactive Ingredients: citric acid anhydrous, lactose monohydrate, magnesium stearate, microcrys cellulose, pregelatinized starch, sodium starch glycolate, and FD&C Blue No.1 (2.5 mg tablets), D&C Yellow #10 (5 mg tablets); the 10 mg tablet contains no dye

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

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

Manufactured for GAVIS Phar

Manufactured by Novel Laboratories, Inc. Somerset, NJ 08873 MG8610000202

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