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Metadate CD: Package Insert / Prescribing Info

Package insert / product label

Generic name: [methylphenidate hydrochloride](#)

Dosage form: capsule, extended release

Drug class: [CNS stimulants](#)

[Medically reviewed](#) by Drugs.com. Last updated on Mar 25, 2025.

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Rx Only

Once Daily

Drug Dependence

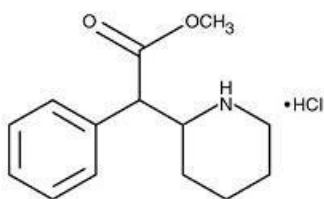
METADATE CD should be given cautiously to patients with a history of drug dependence or alcoholism. Chronic abusive use can lead to marked tolerance and psychological dependence with varying degrees of abnormal behavior. Frank psychotic episodes can occur, especially with parenteral abuse. Careful supervision is required during withdrawal from abusive use since severe depression may occur. Withdrawal following chronic therapeutic

use may unmask symptoms of the underlying disorder that may require follow-up.

Metadate CD Description

METADATE CD is a central nervous system (CNS) stimulant. The extended-release capsules comprise both immediate-release (IR) and extended-release (ER) beads such that 30% of the dose is provided by the IR component and 70% of the dose is provided by the ER component. METADATE CD is available in six capsule strengths containing 10 mg (3 mg IR; 7 mg ER), 20 mg (6 mg IR; 14 mg ER), 30 mg (9 mg IR; 21 mg ER), 40 mg (12 mg IR; 28 mg ER), 50 mg (15 mg IR; 35 mg ER), or 60 mg (18 mg IR; 42 mg ER) of methylphenidate hydrochloride for oral administration.

Chemically, methylphenidate HCl is d,l (racemic)-threo-methyl α -phenyl-2-piperidineacetate hydrochloride. Its empirical formula is $C_{14}H_{19}NO_2 \cdot HCl$. Its structural formula is:



Methylphenidate HCl USP is a white, odorless, crystalline powder. Its solutions are acid to litmus. It is freely soluble in water and in methanol, soluble in alcohol, and slightly soluble in chloroform and in acetone. Its molecular weight is 269.77.

METADATE CD also contains the following inert ingredients: Sugar spheres, povidone, hydroxypropylmethylcellulose and polyethylene glycol, ethylcellulose aqueous dispersion, dibutyl sebacate, gelatin, and titanium dioxide.

The individual capsules contain the following color agents:

10 mg capsules: FD&C Blue No. 2, FDA/E172 Yellow Iron Oxide

20 mg capsules: FD&C Blue No. 2

30 mg capsules: FD&C Blue No. 2, FDA/E172 Red Iron Oxide

40 mg capsules: FDA/E172 Yellow Iron Oxide

50 mg capsules: FD&C Blue No. 2, FDA/E172 Red Iron Oxide

Metadate CD - Clinical Pharmacology

Pharmacodynamics

Methylphenidate HCl is a central nervous system (CNS) stimulant. The mode of therapeutic action in Attention Deficit Hyperactivity Disorder (ADHD) is not known. Methylphenidate 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. Methylphenidate is a racemic mixture comprised of the d- and l-threo enantiomers. The d-threo enantiomer is more pharmacologically active than the l-threo enantiomer.

Pharmacokinetics

The pharmacokinetics of the METADATE CD methylphenidate hydrochloride formulation have been studied in healthy adult volunteers and in children with Attention Deficit Hyperactivity Disorder (ADHD).

Absorption And Distribution

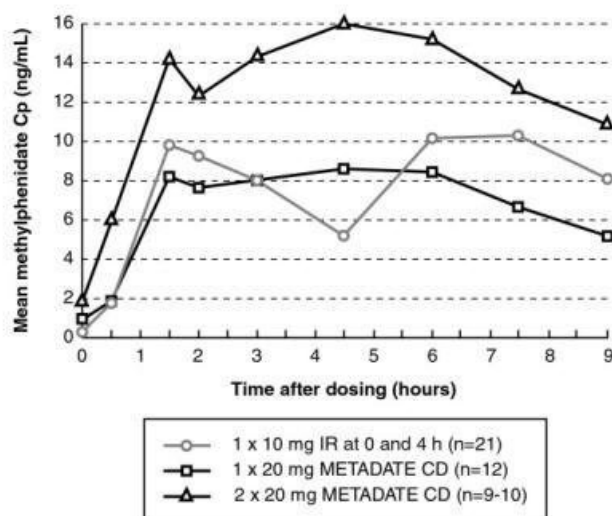
Methylphenidate is readily absorbed. METADATE CD has a plasma/time concentration profile showing two phases of drug release with a sharp, initial slope similar to a methylphenidate immediate-release tablet, and a second rising portion approximately three hours later, followed by a gradual decline. (See [Figure 1](#) below.)

Comparison Of Immediate Release (IR) And METADATE CD Formulations After Repeated Doses Of Methylphenidate HCl In Children With ADHD

METADATE CD was administered as repeated once-daily doses of 20 mg or 40 mg to children aged 7-12 years with ADHD for one week. After a dose of 20 mg, the mean (\pm SD) early C_{\max} was 8.6 (\pm 2.2) ng/mL, the later C_{\max} was 10.9 (\pm 3.9)* ng/mL and AUC_{0-9h} was 63.0 (\pm 16.8) ng·h/mL. The corresponding values after a 40 mg dose were 16.8 (\pm 5.1) ng/mL, 15.1 (\pm 5.8)* ng/mL and 120 (\pm 39.6) ng·h/mL, respectively. The early peak concentrations (median) were reached about 1.5 hours after dose intake, and the second peak concentrations (median) were reached about 4.5 hours after dose intake. The means for C_{\max} and AUC following a dose of 20 mg were slightly lower than those seen with 10 mg of the immediate-release formulation, dosed at 0 and 4 hours.

*25-30% of the subjects had only one observed peak (C_{\max}) concentration of methylphenidate.

FIGURE 1
Comparison of Immediate Release (IR) and METADATE CD Formulations
After Repeated Doses of Methylphenidate HCl in Children with ADHD



Dose Proportionality

Following single oral doses of 10-60 mg methylphenidate free base as a solution given to ten healthy male volunteers, C_{\max} and AUC increased proportionally with increasing doses. After the 60 mg dose, t_{\max} was reached 1.5 hours post-dose, with a mean C_{\max} of 31.8 ng/mL (range 24.7-40.9 ng/mL).

Following one week of repeated once-daily doses of 20 mg or 40 mg METADATE CD to children aged 7-12 years with ADHD, C_{\max} and AUC were proportional to the administered dose.

Food Effects

In a study in adult volunteers to investigate the effects of a high-fat meal on the bioavailability of a dose of 40 mg, the presence of food delayed the early peak by approximately 1 hour (range -2 to 5 hours delay). The plasma levels rose rapidly following the food-induced delay in absorption. Overall, a high-fat meal increased the C_{\max} of METADATE CD by

about 30% and AUC by about 17%, on average (see [DOSAGE and ADMINISTRATION](#)).

After a single dose, the bioavailability (C_{\max} and AUC) of methylphenidate in 26 healthy adults was unaffected by sprinkling the capsule contents on applesauce as compared to the intact capsule. This finding demonstrates that a 20 mg METADATE CD Capsule, when opened and sprinkled on one tablespoon of applesauce, is bioequivalent to the intact capsule.

Metabolism And Excretion

In humans, methylphenidate is metabolized primarily via deesterification to alpha-phenyl-piperidine acetic acid (ritalinic acid). The metabolite has little or no pharmacologic activity.

In vitro studies showed that methylphenidate was not metabolized by cytochrome P450 isoenzymes, and did not inhibit cytochrome P450 isoenzymes at clinically observed plasma drug concentrations.

The mean terminal half-life ($t_{1/2}$) of methylphenidate following administration of METADATE CD ($t_{1/2}$ =6.8h) is longer than the mean terminal ($t_{1/2}$) following administration of methylphenidate hydrochloride immediate-release tablets ($t_{1/2}$ =2.9h) and methylphenidate hydrochloride sustained-release tablets ($t_{1/2}$ =3.4h) in healthy adult volunteers. This suggests that the elimination process observed for METADATE CD is controlled by the release rate of methylphenidate from the extended-release formulation, and that the drug absorption is the rate-limiting process.

Alcohol Effect

An in vitro study was conducted to explore the effect of alcohol on the release characteristics of methylphenidate from the METADATE CD 60 mg capsule dosage form. At an alcohol concentration of 40% there was an increase in the release rate of methylphenidate in the first hour, resulting in 84% of the methylphenidate being released. The results with the 60 mg capsule are considered to be representative of the other available capsule strengths. Patients should be advised to avoid alcohol while taking METADATE CD.

Special Populations

Gender

The pharmacokinetics of methylphenidate after a single dose of METADATE CD were similar between adult men and women.

Race

The influence of race on the pharmacokinetics of methylphenidate after METADATE CD administration has not been studied.

Age

The pharmacokinetics of methylphenidate after METADATE CD administration have not been studied in children less than 6 years of age.

Renal Insufficiency

There is no experience with the use of METADATE CD in patients with renal insufficiency. After oral administration of radiolabeled 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 renal clearance is not an important route of methylphenidate clearance, renal insufficiency is expected to have little effect on the pharmacokinetics of METADATE CD.

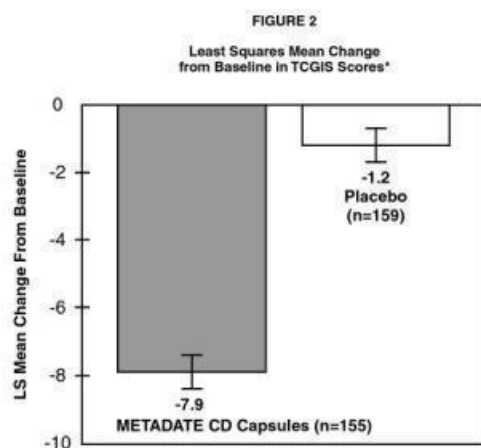
Hepatic Insufficiency

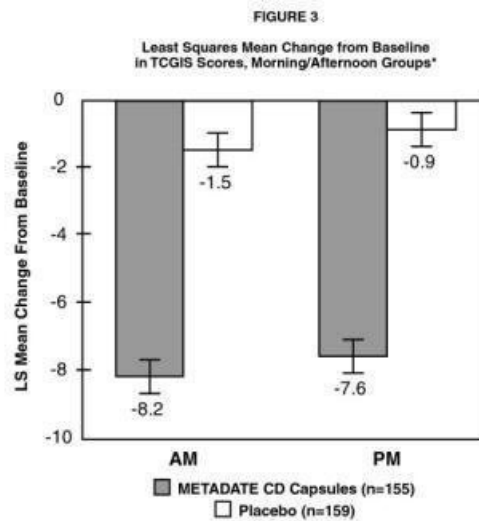
There is no experience with the use of METADATE CD in patients with hepatic insufficiency.

Clinical Studies

METADATE CD was evaluated in a double-blind, parallel-group, placebo-controlled trial in which 321 untreated or previously treated pediatric patients with a DSM-IV diagnosis of Attention Deficit Hyperactivity Disorder (ADHD), 6 to 15 years of age, received a single morning dose for up to 3 weeks. Patients were required to have the combined or predominantly hyperactive-impulsive subtype of ADHD; patients with the predominantly inattentive subtype were excluded. Patients randomized to the METADATE CD group received 20 mg daily for the first week. Their dosage could be increased weekly to a maximum of 60 mg by the third week, depending on individual response to treatment.

The patient's regular school teacher completed the teachers' version of the Conners' Global Index Scale (TCGIS), a scale for assessing ADHD symptoms, in the morning and again in the afternoon on three alternate days of each treatment week. The change from baseline of the overall average (i.e., an average of morning and afternoon scores over 3 days) of the total TCGIS scores during the last week of treatment was analyzed as the primary efficacy parameter. Patients treated with METADATE CD showed a statistically significant improvement in symptom scores from baseline over patients who received placebo. (See [Figure 2](#).) Separate analyses of TCGIS scores in the morning and afternoon revealed superiority in improvement with METADATE CD over placebo during both time periods. (See [Figure 3](#).) This demonstrates that a single morning dose of METADATE CD exerts a treatment effect in both the morning and the afternoon.





* FIGURES 2 & 3: Last observation carried forward analysis at week 3. Error bars represent the standard error of the mean.

Indications and Usage for Metadate CD

Attention Deficit Hyperactivity Disorder (ADHD)

METADATE CD (methylphenidate HCl, USP) Extended-Release Capsules are indicated for the treatment of Attention Deficit Hyperactivity Disorder (ADHD).

The efficacy of METADATE CD in the treatment of ADHD was established in one controlled trial of children aged 6 to 15 who met DSM-IV criteria for ADHD (see [CLINICAL PHARMACOLOGY](#)).

A diagnosis of Attention Deficit Hyperactivity Disorder (ADHD; DSM-IV) implies the presence of hyperactive-impulsive or inattentive symptoms that caused 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 two 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 six 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 tasks; poor organization; avoids tasks requiring sustained mental effort; loses things; easily distracted; forgetful. For the Hyperactive-Impulsive Type, at least six 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 Types requires both inattentive and hyperactive-impulsive criteria to be met.

Special Diagnostic Considerations

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.

Need For Comprehensive Treatment Program

METADATE CD is indicated as an integral part of a total treatment program for ADHD that may include other measures (psychological, educational, social) for patients with this syndrome. Drug treatment may not be indicated for all children with this syndrome. Stimulants are not intended for use in the child 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 child's symptoms.

Long-Term Use

The effectiveness of METADATE CD for long-term use, i.e., for more than 3 weeks, has not been systematically evaluated in controlled trials. Therefore, the physician who elects to use METADATE CD for extended periods should periodically re-evaluate the long-term usefulness of the drug for the individual patient (see [DOSAGE and ADMINISTRATION](#)).

Contraindications

Agitation

METADATE CD is contraindicated in patients with marked anxiety, tension and agitation, since the drug may aggravate these symptoms.

Hypersensitivity To Methylphenidate Or Other Excipients

METADATE CD is contraindicated in patients known to be hypersensitive to methylphenidate or other components of the product.

METADATE CD contains sucrose. Therefore, patients with rare hereditary problems of fructose intolerance, glucose-galactose malabsorption, or sucrase-isomaltase insufficiency should not take this medicine.

Glaucoma

METADATE CD is contraindicated in patients with glaucoma.

Tics

METADATE CD is contraindicated in patients with motor tics or with a family history or diagnosis of Tourette's syndrome (see [ADVERSE REACTIONS](#)).

Monoamine Oxidase Inhibitors

METADATE CD is 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).

Hypertension And Other Cardiovascular Conditions

METADATE CD is contraindicated in patients with severe hypertension, angina pectoris, cardiac arrhythmias, heart failure, recent myocardial infarction, hyperthyroidism or thyrotoxicosis (see [WARNINGS](#)).

Halogenated Anesthetics

There is a risk of sudden blood pressure increase during surgery. If surgery is planned, METADATE CD should not be taken on the day of the surgery.

Warnings

Serious Cardiovascular Events

Sudden Death And Pre-existing 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 heart rhythm abnormalities, or other serious cardiac problems that may place them at increased vulnerability to the sympathomimetic effects of a stimulant drug (see [CONTRAINDICATIONS](#)).

Adults

Sudden deaths, 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 greater 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 also generally not be treated with stimulant drugs (see [CONTRAINDICATIONS](#)).

Hypertension And Other Cardiovascular Conditions

Stimulant medications cause a modest increase in average blood pressure (about 2-4 mmHg) and average heart 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 pre-existing hypertension, heart failure, recent myocardial infarction, or ventricular arrhythmia (see [CONTRAINDICATIONS](#)).

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

Pre-Existing Psychosis

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

Bipolar Illness

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 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 and adolescents without 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 3482 exposed to methylphenidate or amphetamine for several weeks at usual doses) of stimulant-treated patients compared to 0 in placebo-treated patients.

Aggression

Aggressive behavior or hostility is often observed in children and adolescents with ADHD, and has been reported 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 or hostility.

Long-Term Suppression Of Growth

Careful follow-up of weight and height in children 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 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 EEG evidence of seizures. In the presence of seizures, the drug should be discontinued.

Priapism

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 sustained or frequent and painful erections should seek immediate medical attention.

Peripheral Vasculopathy, including Raynaud's phenomenon

Stimulants, including METADATE CD, 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 vasculopathy, including Raynaud's phenomenon, were observed in post-marketing reports at different times and at 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 treatment 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 Six Years Of Age

METADATE CD should not be used in children under six years, since safety and efficacy in this age group have not been established.

Precautions

Hematologic Monitoring

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

Drug Testing

METADATE CD contains methylphenidate which may result in a positive result during drug testing.

Information For Patients

Patients should be instructed to take one dose in the morning before breakfast. The patients should be instructed that the capsule may be swallowed whole, or alternatively, the capsule may be opened and the capsule contents sprinkled onto a small amount (tablespoon) of applesauce and given immediately, and not stored for future use. The capsules and the capsule contents must not be crushed or chewed.

Patients should be advised to avoid alcohol while taking METADATE CD. Consumption of alcohol while taking METADATE CD may result in a more rapid release of the dose of methylphenidate.

Priapism

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 METADATE CD 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 METADATE CD**
- Further clinical evaluation (e.g., rheumatology referral) may be appropriate for certain patients.

Prescribers or other health professionals should inform patients, their families, and their caregivers about the benefits and risks associated with treatment with methylphenidate and should counsel them in its appropriate use. A patient Medication Guide is available for METADATE CD. The prescriber or healthcare 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 the Medication Guide is reprinted at the end of this document. The Medication Guide may also be found in the full prescribing information for METADATE CD on <http://ucb-group.com/products/cns/equasym-metadate/> or by calling 1-866-822-0068.

Drug Interactions

Because of possible effects on blood pressure, METADATE CD should be used cautiously with pressor agents.

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

In theory, there is a possibility that the clearance of methylphenidate might be affected by urinary pH, either being increased with acidifying agents or decreased with alkalinizing agents. This should be considered when methylphenidate is given in combination with agents that alter urinary pH.

Halogenated Anesthetics

There is a risk of sudden blood pressure increase during surgery. If surgery is planned, METADATE CD should not be taken the day of the surgery.

Carcinogenesis, Mutagenesis, And Impairment Of Fertility

In a lifetime carcinogenicity study carried out in B6C3F1 mice, 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. This dose is approximately 30 times and 4 times the maximum recommended human dose of METADATE CD on a mg/kg and mg/m² basis, respectively. 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.

Methylphenidate did not cause any increases 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 22 times and 5 times the maximum recommended human dose of METADATE CD on a mg/kg and mg/m² basis, respectively.

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

Methylphenidate was not mutagenic in the in vitro Ames reverse mutation assay or in the in vitro mouse lymphoma cell forward mutation assay. Sister chromatid exchanges and chromosome aberrations were increased, indicative of a weak clastogenic response, in an in vitro assay in cultured Chinese Hamster Ovary cells. Methylphenidate was negative in vivo in males and females in the mouse bone marrow micronucleus assay.

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 up to 160 mg/kg/day, approximately 80-fold and 8-fold the highest recommended human dose of METADATE CD on a mg/kg and mg/m² basis, respectively.

Pregnancy

Teratogenic Effects

Pregnancy Category C

Methylphenidate has been shown to have teratogenic effects in rabbits when given in doses of 200 mg/kg/day, which is approximately 100 times and 40 times the maximum recommended human dose on a mg/kg and mg/m² basis, respectively.

A reproduction study in rats revealed no evidence of teratogenicity at an oral dose of 58 mg/kg/day. However, this dose, which caused some maternal toxicity, resulted in decreased postnatal pup weights and survival when given to the dams from day one of gestation through the lactation period. This dose is approximately 30 fold and 6 fold the maximum recommended human dose of METADATE CD on a mg/kg and mg/m² basis, respectively.

There are no adequate and well-controlled studies in pregnant women. METADATE CD should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

Nursing Mothers

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

Pediatric Use

The safety and efficacy of METADATE CD in children under 6 years old have not been established. Long-term effects of methylphenidate in children have not been well established (see [WARNINGS](#)).

Adverse Reactions/Side Effects

The premarketing development program for METADATE CD included exposures in a total of 228 participants in clinical trials (188 pediatric patients with ADHD, 40 healthy adult subjects). These participants received METADATE CD 20, 40, and/or 60 mg/day. The 188 patients (ages 6 to 15) were evaluated in one controlled clinical study, one controlled, crossover clinical study, and one uncontrolled clinical study. Safety data on all patients are included in the discussion that follows. Adverse reactions were assessed by collecting adverse events, results of physical examinations, vital signs, weights, laboratory analyses, and ECGs.

Adverse events during exposure were obtained primarily 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 listings that follow, COSTART 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 METADATE CD

Adverse Events Associated With Discontinuation Of Treatment

In the 3-week placebo-controlled, parallel-group trial, two METADATE CD-treated patients (1%) and no placebo-treated patients discontinued due to an adverse event (rash and pruritus; and headache, abdominal pain, and dizziness, respectively).

Adverse Events Occurring At An Incidence Of 5% Or More Among METADATE CD-Treated Patients

Table 1 enumerates, for a pool of the three studies in pediatric patients with ADHD, at METADATE CD doses of 20, 40, or 60 mg/day, the incidence of treatment-emergent adverse events. One study was a 3-week placebo-controlled, parallel-group trial, one study was a controlled, crossover trial, and the third study was an open titration trial. The table includes only those events that occurred in 5% or more of patients treated with METADATE CD where the incidence in patients treated with METADATE CD was greater than 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 investigators. The cited figures, however, do provide the prescribing physician with some basis for estimating the relative contribution of drug and non-drug factors to the adverse event incidence rate in the population studied.

TABLE 1 Incidence of Treatment-Emergent Events¹ in a Pool of 3-4 Week Clinical Trials of METADATE CD

Body System	Preferred Term	METADATE CD (n=188)	Placebo (n=190)
General	Headache	12%	8%
	Abdominal pain (stomach ache)	7%	4%
Digestive System	Anorexia (loss of appetite)	9%	2%
Nervous System	Insomnia	5%	2%

¹: Events, regardless of causality, for which the incidence for patients treated with METADATE CD was at least 5% and greater than the incidence among placebo-treated patients. Incidence has been rounded to the nearest whole number.

Adverse Events With Other Marketed Methylphenidate HCl Products

Nervousness and insomnia are the most common adverse reactions reported with other methylphenidate products. Other reactions include hypersensitivity (including skin rash, urticaria, fever, arthralgia, exfoliative dermatitis, erythema multiforme with histopathological findings of necrotizing vasculitis, and thrombocytopenic purpura); anorexia; nausea; dizziness; palpitations; headache; dyskinesia; drowsiness; blood pressure and pulse changes, both up and down; tachycardia; angina; cardiac arrhythmia; abdominal pain; weight loss during prolonged therapy. There have been rare reports of Tourette's Syndrome and obsessive-compulsive disorder. Toxic psychosis has been reported. Although a definite causal relationship has not been established, the following have been reported in patients taking this drug: instances of abnormal liver function, ranging from transaminase elevation to severe hepatic injury; isolated cases of cerebral arteritis and/or occlusion; leucopenia and/or anemia; transient depressed mood; a few instances of scalp hair loss. Very rare reports of neuroleptic malignant syndrome (NMS) have been reported, and, in most of these, patients were concurrently receiving therapies associated with NMS. In a single report, a ten 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 response to either drug alone, or some other cause.

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.

Postmarketing Experience

In addition to the adverse events listed above, the following have been reported in patients receiving METADATE CD worldwide. The list is alphabetized: abnormal behavior, aggression, anxiety, bruxism, cardiac arrest, depression, fixed drug eruption, hyperactivity, irritability, libido changes, migraine, obsessive-compulsive disorder, peripheral coldness, Raynaud's phenomenon, reversible ischaemic neurological deficit, rhabdomyolysis, serotonin syndrome in combination with serotonergic drugs, sudden death, suicidal behavior (including completed suicide), and thrombocytopenia. Data are insufficient to support an estimation of incidence or establish causation.

Drug Abuse and Dependence

Controlled Substance Class

METADATE CD, 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 information.

Overdosage

Signs And Symptoms

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, dryness of mucous membranes, and rhabdomyolysis.

Recommended Treatment

Treatment consists of appropriate supportive measures. The patient must be protected against self-injury 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 or extracorporeal hemodialysis for METADATE CD overdosage has not been established.

The prolonged release of methylphenidate from METADATE CD should be considered when treating patients with overdose.

Poison Control Center

As with the management of all overdose, 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 overdose with methylphenidate.

Metadate CD Dosage and Administration

METADATE CD is administered once daily in the morning, before breakfast.

METADATE CD may be swallowed whole with the aid of liquids, or alternatively, the capsule may be opened and the capsule contents sprinkled onto a small amount (tablespoon) of applesauce and given immediately, and not stored for future use. Drinking some fluids, e.g. water, should follow the intake of the sprinkles with applesauce. The capsules and the capsule contents must not be crushed or chewed (see [PRECAUTIONS: Information for Patients](#)). Patients should be advised to avoid alcohol while taking Metadate CD.

Dosage should be individualized according to the needs and responses of the patient.

Initial Treatment

The recommended starting dose of METADATE CD is 20 mg once daily. Dosage may be adjusted in weekly 10-20 mg increments to a maximum of 60 mg/day taken once daily in the morning, depending upon tolerability and degree of efficacy observed. Daily dosage above 60 mg is not recommended.

Maintenance/Extended Treatment

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

Dose Reduction And Discontinuation

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 one-month period, the drug should be discontinued.

How is Metadate CD supplied

METADATE CD (methylphenidate HCl, USP) Extended-Release Capsules are available in six strengths:

10 mg, green/white capsules, imprinted with "UCB 579" in white letters on the green cap, and "10 mg" in black letters on the white body of the capsule.

NDC 53014-579-07 Bottle of 100 Capsules

20 mg, blue/white capsules, imprinted with "UCB 580" in white letters on the blue cap, and "20 mg" in black letters on the

white body of the capsule.

NDC 53014-580-07 Bottle of 100 Capsules

30 mg, reddish-brown/white capsules, imprinted with "UCB 581" in white letters on the reddish-brown cap, and "30 mg" in black letters on the white body of the capsule.

NDC 53014-581-07 Bottle of 100 Capsules

40 mg, yellow ivory/white capsules, imprinted with "UCB 582" in black letters on the yellow ivory cap, and "40 mg" in black letters on the white body of the capsule.

NDC 53014-582-07 Bottle of 100 Capsules

50 mg, purple/white capsules, imprinted with "UCB 583" in white letters on the purple cap, and "50 mg" in black letters on the white body of the capsule.

NDC 53014-583-07 Bottle of 100 Capsules

60 mg, white/white capsules, imprinted with "UCB 584" in black letters on the white cap, and "60 mg" in black letters on the white body of the capsule.

NDC 53014-584-07 Bottle of 100 Capsules

Store at 25°C (77°F); excursions permitted to 15°-30°C (59°-86°F) [See USP Controlled Room Temperature].

Keep out of the reach of children.

References

American Psychiatric Association. Diagnostic and Statistical Manual of Mental Disorders. American Psychiatric Association 1994. 4th ed. Washington D.C.

For Medical Information

Contact: Medical Affairs Department

Phone: (866) 822-0068

Fax: (770) 970-8859

Marketed by UCB, Inc.

Smyrna, GA 30080

Made in USA

Rev. 10/2016

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Medication Guide

METADATE CD®

(methylphenidate HCl, USP) Extended-Release Capsules CII

Read the Medication Guide that comes with METADATE CD 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 METADATE CD.

What is the most important information I should know about Metadate CD?

The following have been reported with use of methylphenidate HCl, USP and other stimulant medicines.

1. 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 family history of these problems.

Your doctor should check you or your child carefully for heart problems before starting METADATE CD.

Your doctor should check your or your child's blood pressure and heart rate regularly during treatment with METADATE CD.

Call your doctor right away if you or your child has any signs of heart problems such as chest pain, shortness of breath, or fainting while taking METADATE CD.

2. Mental (Psychiatric) problems:

All Patients

- **new or worse behavior and thought problems**
- **new or worse bipolar illness**
- **new or worse aggressive behavior or hostility**

Children and Teenagers

- **new psychotic symptoms (such as hearing voices, believing things that are not true, are suspicious) or new manic symptoms**

Tell your doctor about any mental problems you or your child have, or about a family history of suicide, bipolar illness, or depression.

Call your doctor right away if you or your child have any new or worsening mental symptoms or problems while taking METADATE CD, especially seeing or hearing things that are not real, believing things that are not real, or are suspicious.

3. Circulation Problems in fingers and toes (Peripheral vasculopathy, including Raynaud's phenomenon): fingers 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 to temperature in your fingers or toes.
- **Call your doctor right away if you have or your child has any signs of unexplained wounds appearing on fingers or toes while taking METADATE CD.**

What Is METADATE CD?

METADATE CD is a central nervous system stimulant prescription medicine. **It is used for the treatment of Attention-Deficit Hyperactivity Disorder (ADHD).**

METADATE CD may help increase attention and decrease impulsiveness and hyperactivity in patients with ADHD.

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

METADATE CD is a federally controlled substance (CII) because it can be abused or lead to dependence. Keep METADATE CD in a safe place to prevent misuse and abuse. Selling or giving away METADATE CD 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 on alcohol, prescription medicines or street drugs.

Who should not take METADATE CD?

METADATE CD 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 movements or sounds.
- have severe high blood pressure or a heart problem
- have hyperthyroidism
- are taking or have taken within the past 14 days an antidepressant medicine called a monoamine oxidase inhibitor or MAOI.
- are allergic to anything in METADATE CD. See the end of this Medication Guide for a complete list of ingredients.

METADATE CD should not be used in children less than 6 years old because it has not been studied in this age group.

METADATE CD may not be right for you or your child. Before starting METADATE CD tell your or your child's doctor about all health conditions (or a family history of) including:

- heart problems, heart defects, high blood pressure
- mental problems including psychosis, mania, bipolar illness, or depression
- tics or Tourette's syndrome
- seizures or have had an abnormal brain wave test (EEG)
- circulation problem in fingers and toes

Tell your doctor if you or your child is pregnant, planning to become pregnant, or breastfeeding.

Can METADATE CD 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. METADATE CD 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 METADATE CD.

Your doctor will decide whether METADATE CD 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 and pharmacist.

Do not start any new medicine while taking METADATE CD without talking to your doctor first.

How should METADATE CD be taken?

- **Take METADATE CD exactly as prescribed.** Your doctor may adjust the dose until it is right for you or your child.
- Take METADATE CD once each day in the morning before breakfast. METADATE CD is an extended release capsule. It releases medicine into your body throughout the day.
- METADATE CD can be taken with or without food.
- Swallow METADATE CD capsules whole with water or other liquids. If you cannot swallow the capsule, open it and sprinkle the medicine over a spoonful of applesauce. Swallow the applesauce and medicine mixture without chewing. Follow with a drink of water or other liquid. **Never chew or crush the capsule or the medicine inside the capsule.**
- METADATE CD should not be taken with alcohol. This may result in a more rapid release of the dose of METADATE CD.
- From time to time, your doctor may stop METADATE CD treatment for a while to check ADHD symptoms.
- Your doctor may do regular checks of the blood, heart, and blood pressure while taking METADATE CD. Children should have their height and weight checked often while taking METADATE CD. METADATE CD treatment may be stopped if a problem is found during these check-ups.
- **If you or your child takes too much METADATE CD or overdoses, call your doctor or poison control center right away, or get emergency treatment.**

What are possible side effects of METADATE CD?

See "**What is the most important information I should know about METADATE CD?**" for information on reported heart and mental problems.

Other serious side effects include:

- slowing of growth (height and weight) in children
- seizures, 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 evaluated by a doctor immediately.

Common side effects include:

- headache
- decreased appetite
- stomach ache
- nervousness
- trouble sleeping
- dizziness

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

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 METADATE CD?

- Store METADATE CD in a safe place at room temperature, 59 to 86°F (15 to 30°C). Protect from moisture.
- **Keep METADATE CD and all medicines out of the reach of children.**

General information about METADATE CD

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. Do not use METADATE CD for a condition for which it was not prescribed. Do not give METADATE CD to other people, even if they have the same condition. It may harm them and it is against the law.

This Medication Guide summarizes the most important information about METADATE CD. If you would like more information, talk with your doctor. You can ask your doctor or pharmacist for information about METADATE CD that was written for healthcare professionals. For more information about METADATE CD call 1-866-822-0068.

What are the ingredients in METADATE CD?

Active Ingredient: methylphenidate HCl

Inactive Ingredients: sugar spheres, povidone, hydroxypropylmethylcellulose and polyethylene glycol, ethylcellulose aqueous dispersion, dibutyl sebacate, gelatin, and titanium dioxide.

The individual capsules contain the following coloring agents:

10 mg capsules: FD&C Blue No. 2, FDA/E172 Yellow Iron Oxide

20 mg capsules: FD&C Blue No. 2

30 mg capsules: FD&C Blue No. 2, FDA/E172 Red Iron Oxide

40 mg capsules: FDA/E172 Yellow Iron Oxide

50 mg capsules: FD&C Blue No. 2, FDA/E172 Red Iron Oxide

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

Marketed by UCB, Inc.

Smyrna, GA 30080

Made in USA

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Rev. 06/2014

PRINCIPAL DISPLAY PANEL - 10 mg Capsule Bottle Label

NDC 53014-579-07

Once Daily

Metadate CD®

(methylphenidate HCl, USP)

Extended-Release Capsules

CII

100 Capsules

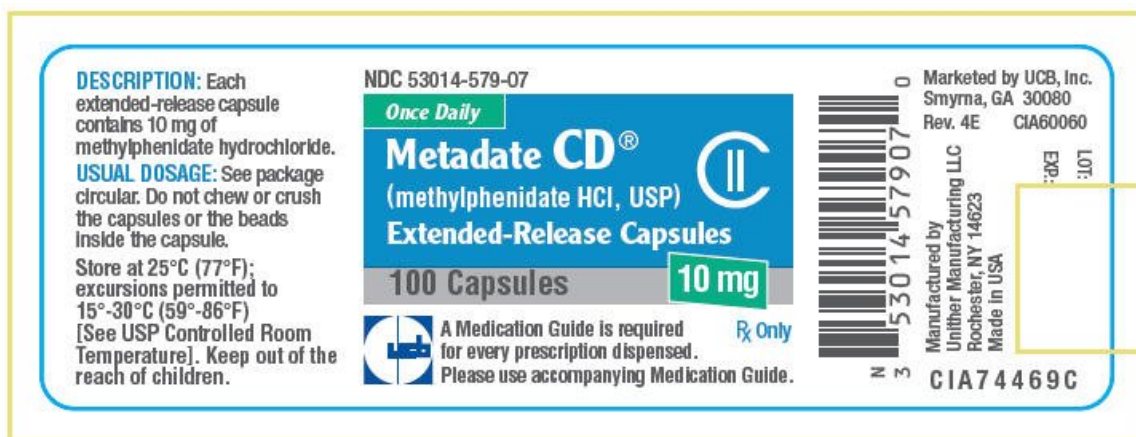
10 mg

Rx Only

ucb

**A Medication Guide is required
for every prescription dispensed.**

Please use accompanying Medication Guide.



PRINCIPAL DISPLAY PANEL - 20 mg Capsule Bottle Label

NDC 53014-580-07

Once Daily

Metadate CD®
(methylphenidate HCl, USP)
Extended-Release Capsules

II

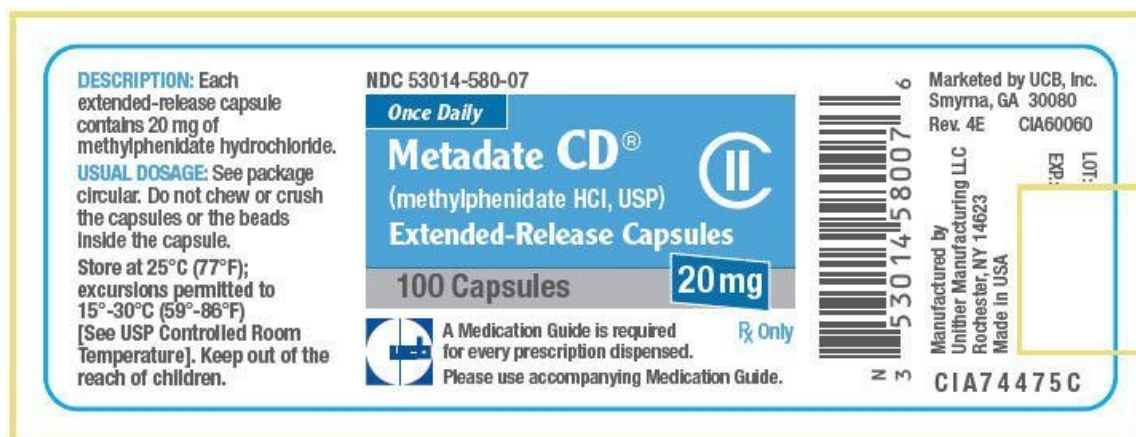
100 Capsules
20 mg

Rx Only

ucb

**A Medication Guide is required
for every prescription dispensed.**

Please use accompanying Medication Guide.



PRINCIPAL DISPLAY PANEL - 30 mg Capsule Bottle Label

NDC 53014-581-07

Once Daily

Metadate CD®

(methylphenidate HCl, USP)

Extended-Release Capsules

CII

100 Capsules

30 mg

Rx Only

A Medication Guide is required
for every prescription dispensed.

Please use accompanying Medication Guide.

ucb


DESCRIPTION: Each extended-release capsule contains 30 mg of methylphenidate hydrochloride.

USUAL DOSAGE: See package circular. Do not chew or crush the capsules or the beads inside the capsule.

Store at 25°C (77°F); excursions permitted to 15°-30°C (59°-86°F) [See USP Controlled Room Temperature]. Keep out of the reach of children.

NDC 53014-581-07


Once Daily

Metadate CD® 
(methylphenidate HCl, USP)
Extended-Release Capsules

100 Capsules **30 mg**


Rx Only

A Medication Guide is required for every prescription dispensed.
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Made in USA

Manufactured by
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Rochester, NY 14623



3 53014 58107 3

CIA74476C

LOT:
EXP:

PRINCIPAL DISPLAY PANEL - 40 mg Capsule Bottle Label

NDC 53014-582-07

Once Daily

Metadate CD®

(methylphenidate HCl, USP)

Extended-Release Capsules

CII

100 Capsules

40 mg

Rx Only

**A Medication Guide is required
for every prescription dispensed.**

Please use accompanying Medication Guide.

ucb

DESCRIPTION: Each extended-release capsule contains 40 mg of methylphenidate hydrochloride.

USUAL DOSAGE: See package circular. Do not chew or crush the capsules or the beads inside the capsule.

Store at 25°C (77°F); excursions permitted to 15°-30°C (59°-86°F) [See USP Controlled Room Temperature]. Keep out of the reach of children.

NDC 53014-582-07

Once Daily


Metadate CD[®]
(methylphenidate HCl, USP)

Extended-Release Capsules

100 Capsules **40 mg**

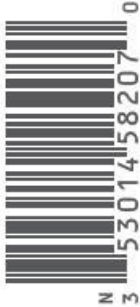
Rx Only

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Rev. 3E CIA60052

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Rochester, NY 14623



53014582070

CIA74477B

LOT:
EXP:

PRINCIPAL DISPLAY PANEL - 50 mg Capsule Bottle Label

NDC 53014-583-07

Once Daily

Metadate CD[®]
(methylphenidate HCl, USP)
Extended-Release Capsules

CII

100 Capsules
50 mg

Rx Only

ucb

**A Medication Guide is required
for every prescription dispensed.**

Please use accompanying Medication Guide.

DESCRIPTION: Each extended-release capsule contains 50 mg of methylphenidate hydrochloride.

USUAL DOSAGE: See package circular. Do not chew or crush the capsules or the beads inside the capsule.

Store at 25°C (77°F); excursions permitted to 15°-30°C (59°-86°F) [See USP Controlled Room Temperature]. Keep out of the reach of children.

NDC 53014-583-07

Once Daily


Metadate CD®
(methylphenidate HCl, USP)

Extended-Release Capsules

100 Capsules


50 mg

Rx Only

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PT# 4001494
Rev. 4E

Manufactured by
Unither Manufacturing LLC
Rochester, NY 14623
Made in USA


N 3 53014 58307 7
CIA74480C

LOT:
EXP:

PRINCIPAL DISPLAY PANEL - 60 mg Capsule Bottle Label

NDC 53014-584-07

Once Daily

Metadate CD®
(methylphenidate HCl, USP)
Extended-Release Capsules

CII

100 Capsules
60 mg

Rx Only

ucb

A Medication Guide is required
for every prescription dispensed.

Please use accompanying Medication Guide.

DESCRIPTION: Each extended-release capsule contains 60 mg of methylphenidate hydrochloride.

USUAL DOSAGE: See package circular. Do not chew or crush the capsules or the beads inside the capsule.

Store at 25°C (77°F); excursions permitted to 15°-30°C (59°-86°F) [See USP Controlled Room Temperature]. Keep out of the reach of children.

NDC 53014-584-07

Once Daily


Metadate CD®
(methylphenidate HCl, USP)

Extended-Release Capsules

100 Capsules


60 mg

Rx Only

 A Medication Guide is required for every prescription dispensed. Please use accompanying Medication Guide.

Marketed by
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Smyrna, GA 30080
PT# 4001494
Rev. 4E

Manufactured by
Unither Manufacturing LLC
Rochester, NY 14623
Made in USA


N 3 53014 58407 4
CIA74481C

LOT:
EXP:

METADATE CD
methylphenidate hydrochloride capsule, extended release

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:53014-579
Route of Administration	ORAL	DEA Schedule	CII

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
methylphenidate hydrochloride (UNII: 4B3SC438HI) (methylphenidate - UNII:207ZZ9QZ49)	methylphenidate hydrochloride	10 mg

Inactive Ingredients

Ingredient Name	Strength
POVIDONE, UNSPECIFIED (UNII: FZ989GH94E)	
HYPROMELLOSE, UNSPECIFIED (UNII: 3NXW29V3WO)	
POLYETHYLENE GLYCOL, UNSPECIFIED (UNII: 3WJQ0SDW1A)	
ETHYLCELLULOSE, UNSPECIFIED (UNII: 7Z8S9VYZ4B)	
dibutyl sebacate (UNII: 4W5IH7FLNY)	
GELATIN, UNSPECIFIED (UNII: 2G86QN327L)	
titanium dioxide (UNII: 15FIX9V2JP)	
FD&C Blue No. 2 (UNII: L06K8R7DQK)	
Ferric Oxide Yellow (UNII: EX438O2MRT)	

Product Characteristics

Color	WHITE (white) , GREEN (green)	Score	no score
Shape	CAPSULE	Size	14mm
Flavor		Imprint Code	UCB;579;10;mg

Contains

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:53014-579-07	100 in 1 BOTTLE, PLASTIC; Type 0: Not a Combination Product	08/12/2003	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA021259	08/12/2003	

METADATE CD
methylphenidate hydrochloride capsule, extended release

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:53014-580
Route of Administration	ORAL	DEA Schedule	CII

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
methylphenidate hydrochloride (UNII: 4B3SC438HI) (methylphenidate - UNII:207ZZ9QZ49)	methylphenidate hydrochloride	20 mg

Inactive Ingredients

Ingredient Name	Strength
POVIDONE, UNSPECIFIED (UNII: FZ989GH94E)	
HYPROMELLOSE, UNSPECIFIED (UNII: 3NXW29V3WO)	
POLYETHYLENE GLYCOL, UNSPECIFIED (UNII: 3WJQ0SDW1A)	
ETHYLCELLULOSE, UNSPECIFIED (UNII: 7Z8S9VYZ4B)	
dibutyl sebacate (UNII: 4W5IH7FLNY)	
GELATIN, UNSPECIFIED (UNII: 2G86QN327L)	
titanium dioxide (UNII: 15FIX9V2JP)	
FD&C Blue No. 2 (UNII: L06K8R7DQK)	

Product Characteristics

Color	BLUE (blue) , WHITE (white)	Score	no score
Shape	CAPSULE	Size	16mm
Flavor		Imprint Code	UCB;580;20;mg

Contains

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:53014-580-07	100 in 1 BOTTLE, PLASTIC; Type 0: Not a Combination Product	02/18/2003	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA021259	02/18/2003	

METADATE CD
methylphenidate hydrochloride capsule, extended release

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:53014-581
Route of Administration	ORAL	DEA Schedule	CII

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
methylphenidate hydrochloride (UNII: 4B3SC438HI) (methylphenidate - UNII:207ZZ9QZ49)	methylphenidate hydrochloride	30 mg

Inactive Ingredients

Ingredient Name	Strength
POVIDONE, UNSPECIFIED (UNII: FZ989GH94E)	
HYPROMELLOSE, UNSPECIFIED (UNII: 3NXW29V3WO)	
POLYETHYLENE GLYCOL, UNSPECIFIED (UNII: 3WJQ0SDW1A)	
ETHYLCELLULOSE, UNSPECIFIED (UNII: 7Z8S9VYZ4B)	
dibutyl sebacate (UNII: 4W5IH7FLNY)	
GELATIN, UNSPECIFIED (UNII: 2G86QN327L)	
titanium dioxide (UNII: 15FIX9V2JP)	
FD&C Blue No. 2 (UNII: L06K8R7DQK)	
FERRIC OXIDE RED (UNII: 1K09F3G675)	

Product Characteristics

Color	RED (reddish-brown) , WHITE (white)	Score	no score
Shape	CAPSULE	Size	18mm
Flavor		Imprint Code	UCB;581;30;mg
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:53014-581-07	100 in 1 BOTTLE, PLASTIC; Type 0: Not a Combination Product	07/22/2003	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA021259	07/22/2003	

METADATE CD
methylphenidate hydrochloride capsule, extended release

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:53014-582
Route of Administration	ORAL	DEA Schedule	CII

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
methylphenidate hydrochloride (UNII: 4B3SC438HI) (methylphenidate - UNII:207ZZ9QZ49)	methylphenidate hydrochloride	40 mg

Inactive Ingredients

Ingredient Name	Strength
POVIDONE, UNSPECIFIED (UNII: FZ989GH94E)	
HYPROMELLOSE, UNSPECIFIED (UNII: 3NXW29V3WO)	
POLYETHYLENE GLYCOL, UNSPECIFIED (UNII: 3WJQ0SDW1A)	
ETHYLCELLULOSE, UNSPECIFIED (UNII: 7Z8S9VYZ4B)	
dibutyl sebacate (UNII: 4W5IH7FLNY)	
GELATIN, UNSPECIFIED (UNII: 2G86QN327L)	
titanium dioxide (UNII: 15FIX9V2JP)	
Ferric Oxide Yellow (UNII: EX438O2MRT)	

Product Characteristics

Color	YELLOW (yellow) , WHITE (ivory/white)	Score	no score
Shape	CAPSULE	Size	19mm
Flavor		Imprint Code	UCB;582;40;mg
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:53014-582-07	100 in 1 BOTTLE, PLASTIC; Type 0: Not a Combination Product	03/21/2006	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA021259	03/21/2006	

METADATE CD
methylphenidate hydrochloride capsule, extended release

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:53014-583
Route of Administration	ORAL	DEA Schedule	CII

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
methylphenidate hydrochloride (UNII: 4B3SC438HI) (methylphenidate - UNII:207ZZ9QZ49)	methylphenidate hydrochloride	50 mg

Inactive Ingredients

Ingredient Name	Strength
POVIDONE, UNSPECIFIED (UNII: FZ989GH94E)	
HYPROMELLOSE, UNSPECIFIED (UNII: 3NXW29V3WO)	
POLYETHYLENE GLYCOL, UNSPECIFIED (UNII: 3WJQ0SDW1A)	
ETHYLCELLULOSE, UNSPECIFIED (UNII: 7Z8S9VYZ4B)	
dibutyl sebacate (UNII: 4W5IH7FLNY)	
GELATIN, UNSPECIFIED (UNII: 2G86QN327L)	
titanium dioxide (UNII: 15FIX9V2JP)	
FD&C Blue No. 2 (UNII: L06K8R7DQK)	
Ferric Oxide Red (UNII: 1K09F3G675)	

Product Characteristics

Color	PURPLE (purple) , WHITE (white)	Score	no score
Shape	CAPSULE	Size	22mm
Flavor		Imprint Code	UCB;583;50;mg

Contains

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:53014-583-07	100 in 1 BOTTLE, PLASTIC; Type 0: Not a Combination Product	03/21/2006	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA021259	03/21/2006	

METADATE CD
methylphenidate hydrochloride capsule, extended release

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:53014-584
Route of Administration	ORAL	DEA Schedule	CII

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
methylphenidate hydrochloride (UNII: 4B3SC438HI) (methylphenidate - UNII:207ZZ9QZ49)	methylphenidate hydrochloride	60 mg

Inactive Ingredients

Ingredient Name	Strength
POVIDONE, UNSPECIFIED (UNII: FZ989GH94E)	
HYPROMELLOSE, UNSPECIFIED (UNII: 3NXW29V3WO)	
POLYETHYLENE GLYCOL, UNSPECIFIED (UNII: 3WJQ0SDW1A)	
ETHYLCELLULOSE, UNSPECIFIED (UNII: 7Z8S9VYZ4B)	
dibutyl sebacate (UNII: 4W5IH7FLNY)	
GELATIN, UNSPECIFIED (UNII: 2G86QN327L)	
titanium dioxide (UNII: 15FIX9V2JP)	

Product Characteristics

Color	WHITE (white/white capsules)	Score	no score
Shape	CAPSULE	Size	22mm
Flavor		Imprint Code	UCB;584;60;mg

Contains

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:53014-584-07	100 in 1 BOTTLE, PLASTIC; Type 0: Not a Combination Product	03/21/2006	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA021259	03/21/2006	

Frequently asked questions

- [What are the brands of methylphenidate?](#)
- [Jornay PM vs other methylphenidate formulations - how do they compare?](#)
- [What is metilfenidato used for?](#)
- [Ritalin vs Vyvanse - What's the difference between them?](#)
- [Concerta vs Adderall - What's the difference between them?](#)
- [How is Cotempla XR-ODT different to other brands of methylphenidate?](#)

More about Metadate CD (methylphenidate)

- [Check interactions](#)
- [Compare alternatives](#)
- [Pricing & coupons](#)
- [Reviews \(42\)](#)
- [Drug images](#)
- [Latest FDA alerts \(4\)](#)
- [Side effects](#)
- [Dosage information](#)
- [During pregnancy](#)
- [Generic availability](#)
- [Drug class: CNS stimulants](#)
- [Breastfeeding](#)

Professional resources

- [Methylphenidate monograph](#)
- [Methylphenidate Tablets \(FDA\)](#)

Other brands

[Concerta](#), [Ritalin](#), [Jornay PM](#), [Ritalin LA](#), ... +9 more

Related treatment guides

- [ADHD](#)

[Medical Disclaimer](#)

Availability

Rx Prescription only

Pregnancy & Lactation

🚰 Risk data available

CSA Schedule*

2 High potential for abuse

Approval History

📅 Drug history at FDA

WADA Class

🏊 Anti-Doping Classification



User Reviews & Ratings

7.2 / 10

[42 Reviews](#)

Images

Metadate CD 10 mg (UCB 579 10 mg)



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