

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use QUILLVANT XR® safely and effectively. See full prescribing information for QUILLVANT XR.

QUILLVANT XR® (methylphenidate hydrochloride) for extended-release oral suspension, CII
Initial U.S. Approval: 1955

WARNING: ABUSE AND DEPENDENCE

See full prescribing information for complete boxed warning.

- CNS stimulants, including QUILLVANT XR, have a high potential for abuse and dependence (5.1, 9.2, 9.3)
- Assess the risk of abuse prior to prescribing, and monitor for signs of abuse and dependence while on therapy (5.1, 9.2)

RECENT MAJOR CHANGES

Dosage and Administration (2.1, 2.4, 2.6) 6/2017

INDICATIONS AND USAGE

QUILLVANT XR is a central nervous system (CNS) stimulant indicated for the treatment of Attention Deficit Hyperactivity Disorder (ADHD). (1)

DOSE AND ADMINISTRATION

- Before administering the dose, vigorously shake bottle for at least 10 seconds. (2.2)
- May be taken with or without food. (2.3)
- For patients 6 years and above, recommended starting dose is 20 mg given orally once daily in the morning. Dosage may be increased weekly in increments of 10 mg to 20 mg per day. Daily dosage above 60 mg is not recommended. (2.2)
- Reconstitution instructions for the pharmacist: Tap bottle until powder flows freely. Remove bottle cap, add specified amount of water for reconstitution. Insert bottle adapter into neck of bottle. Replace bottle cap. Shake with vigorous back and forth motion for at least 10 seconds to prepare suspension. (2.6)

DOSE FORMS AND STRENGTHS

Extended-release oral suspension (after reconstitution with water); 25 mg per 5 mL (5 mg per mL). (3)

CONTRAINDICATIONS

- Known hypersensitivity to methylphenidate or product components. (4.1)
- Concurrent treatment with a monoamine oxidase inhibitor (MAOI), or use of an MAOI within the preceding 14 days. (4.2, 7.1)

WARNINGS AND PRECAUTIONS

- **Serious Cardiovascular Reactions:** Sudden death has been reported in association with CNS stimulants at recommended doses in children and adolescents with structural cardiac abnormalities or other serious heart problems. In adults, sudden death, stroke, and myocardial infarction have been reported. Avoid use in patients with known structural cardiac abnormalities, cardiomyopathy, serious heart arrhythmias, or coronary artery disease. (5.2)
- **Blood Pressure and Heart Rate Increases:** Monitor blood pressure and pulse. Consider the benefits and risks in patients for whom an increase in blood pressure or heart rate would be problematic. (5.3)
- **Psychiatric Adverse Reactions:** Use of CNS stimulants may cause psychotic or manic symptoms in patients with no prior history, or exacerbation of symptoms in patients with pre-existing psychiatric illness. Evaluate for bipolar disorder prior to QUILLVANT XR use. (5.4)
- **Priapism:** Cases of painful and prolonged penile erections or priapism have been reported with methylphenidate products. Immediate medical attention should be sought if signs or symptoms of prolonged penile erections or priapism are observed. (5.5)
- **Peripheral Vasculopathy, including Raynaud's Phenomenon:** CNS stimulants used to treat ADHD are associated with peripheral vasculopathy, including Raynaud's phenomenon. Careful observation for digital changes is necessary during treatment with ADHD stimulants. (5.6)
- **Long-Term Suppression of Growth:** Monitor height and weight at appropriate intervals in pediatric patients. (5.7)

ADVERSE REACTIONS

- **Common Adverse Reactions:** In clinical trials, the most common adverse reactions with methylphenidate products, at recommended doses, were: decreased appetite, decreased weight, decreased attention, decreased concentration, decreased school performance, decreased academic achievement, decreased social skills, decreased self-esteem, decreased self-confidence, decreased self-efficacy, decreased self-worth, decreased self-respect, decreased self-esteem, decreased self-confidence, decreased self-efficacy, decreased self-worth, decreased self-respect, decreased self-esteem, decreased self-confidence, decreased self-efficacy, decreased self-worth, decreased self-respect.

To report SUSPECTED ADVERSE REACTIONS, contact Tris Pharma, Inc. at 732-940-0358 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.

Revised: 8/2018

FULL PRESCRIBING INFORMATION: CONTENTS*

WARNING: ABUSE AND DEPENDENCE

1 INDICATIONS AND USAGE

2 DOSAGE AND ADMINISTRATION

- 2.1 Pre-treatment Screening
- 2.2 General Dosing Information
- 2.3 Administration Instructions
- 2.4 Switching from other Methylphenidate Products
- 2.5 Dose Reduction and Discontinuation
- 2.6 Reconstitution Instructions for the Pharmacist

3 DOSAGE FORMS AND STRENGTHS

4 CONTRAINDICATIONS

- 4.1 Hypersensitivity to Methylphenidate or other Components of QUILLVANT XR
- 4.2 Monoamine Oxidase Inhibitors

5 WARNINGS AND PRECAUTIONS

- 5.1 Potential for Abuse and Dependence
- 5.2 Serious Cardiovascular Reactions
- 5.3 Blood Pressure and Heart Rate Increases
- 5.4 Psychiatric Adverse Reactions
- 5.5 Priapism
- 5.6 Peripheral Vasculopathy, including Raynaud's Phenomenon
- 5.7 Long-Term Suppression of Growth

6 ADVERSE REACTIONS

- 6.1 Clinical Trials Experience
- 6.2 Postmarketing Experience

7 DRUG INTERACTIONS

- 7.1 Clinically Important Drug Interactions

8 USE IN SPECIFIC POPULATIONS

- 8.1 Pregnancy
- 8.2 Lactation
- 8.4 Pediatric Use
- 8.5 Geriatric Use

9 DRUG ABUSE AND DEPENDENCE

- 9.1 Controlled Substance
- 9.2 Abuse
- 9.3 Dependence

10 OVERDOSAGE

11 DESCRIPTION

12 CLINICAL PHARMACOLOGY

- 12.1 Mechanism of Action
- 12.2 Pharmacodynamics
- 12.3 Pharmacokinetics

13 NONCLINICAL TOXICOLOGY

- 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

14 CLINICAL STUDIES

16 HOW SUPPLIED/STORAGE AND HANDLING

- 16.1 How Supplied
- 16.2 Storage and Handling

17 PATIENT COUNSELING INFORMATION

*Sections or subsections omitted from the full prescribing information are not listed.

FULL PRESCRIBING INFORMATION

WARNING: ABUSE AND DEPENDENCE

CNS stimulants, including QUILLVANT XR, other methylphenidate-containing products, and amphetamines, have a high potential for abuse and dependence. Assess the risk of abuse prior to prescribing, and monitor for signs of abuse and dependence while on therapy. See Warnings and Precautions (5.1), Drug Abuse and Dependence (9.2, 9.3).

1 INDICATIONS AND USAGE

QUILLVANT XR is indicated for the treatment of Attention Deficit Hyperactivity Disorder (ADHD) [see Clinical Studies (14)].

2 DOSAGE AND ADMINISTRATION

2.1 Pre-treatment Screening

Prior to treating children, adolescents, and adults with CNS stimulants including QUILLVANT XR, assess for the presence of cardiac disease (i.e., perform a careful history, family history of sudden death or ventricular arrhythmia, and physical exam) [see Warnings and Precautions (5.2)].

Assess the risk of abuse prior to prescribing, and monitor for signs of abuse and dependence while on therapy. Maintain careful prescription records, educate patients about abuse, monitor for signs of abuse and overdose, and periodically re-evaluate the need for QUILLVANT XR use [see Boxed Warning, Warnings and Precautions (5.1), Drug Abuse and Dependence (9)].

2.2 General Dosing Information

Before administering the dose, VIGOROUSLY SHAKE the bottle of QUILLVANT XR for at least 10 seconds, to ensure that the proper dose is administered.

The recommended starting dose of QUILLVANT XR for patients 6 years and above is 20 mg once daily in the morning. The dose may be titrated weekly in increments of 10 mg to 20 mg. Daily doses above 60 mg have not been studied and are not recommended. As with any CNS stimulant, during titration of QUILLVANT XR, the prescribed dose should be adjusted, if necessary, until a well-tolerated, therapeutic dose is achieved.

Pharmacologic treatment of ADHD may be needed for extended periods. Health care providers should periodically re-evaluate the long-term use of QUILLVANT XR, and adjust dosage as needed.

Patients should be advised to avoid alcohol while taking QUILLVANT XR [see Clinical Pharmacology (12.3)].

2.3 Administration Instructions

QUILLVANT XR should be orally administered once daily in the morning with or without food [see Clinical Pharmacology (12.3)].

2.4 Switching from other Methylphenidate Products

If switching from other methylphenidate products, discontinue that treatment, and titrate with QUILLVANT XR using the above titration schedule.

QUILLVANT XR®

(methylphenidate hydrochloride) for extended-release oral suspension

2.5 Dose Reduction and Discontinuation

If paradoxical aggravation of symptoms or other adverse effects occur, reduce dosage, if necessary, discontinue the drug. QUILLVANT XR should be periodically discontinued to assess the child's condition. If improvement is not observed after appropriate dosage adjustment over a one-month period, the drug should be discontinued.

2.6 Reconstitution Instructions for the Pharmacist

QUILLVANT XR is supplied as a powder for oral suspension which must be reconstituted with water prior to dispensing. Preparation instructions: Tap bottle until powder flows freely. Remove bottle cap, and add specified amount of water to the bottle (see Table 1 below). Fully insert bottle adapter into neck of bottle [see Instructions for Use, Figures F and G]. Replace bottle cap. Shake with vigorous back and forth motion for at least 10 seconds to prepare suspension.

Table 1. Product Reconstitution Instructions

| Amount of drug in bottle | Amount of water to add to bottle | Final reconstituted volume (yield) |
|--------------------------|----------------------------------|------------------------------------|
| 300 mg | 5.3 mL | 60 mL |
| 600 mg | 10.5 mL | 120 mL |
| 750 mg | 13.1 mL | 150 mL |
| 900 mg | 15.8 mL | 180 mL |

Store reconstituted QUILLVANT XR at 25°C (77°F); excursions permitted from 15° to 30°C (59° to 86°F). Dispense in original packaging (bottle in carton) with bottle adapter inserted and with enclosed oral dosing dispenser. QUILLVANT XR is stable for up to 4 months after reconstitution.

3 DOSAGE FORMS AND STRENGTHS

Extended-release oral suspension (after reconstitution with water); 25 mg per 5 mL (5 mg per mL).

4 CONTRAINDICATIONS

4.1 Hypersensitivity to Methylphenidate or other Components of QUILLVANT XR

QUILLVANT XR is contraindicated in patients known to be hypersensitive to methylphenidate, or other components of QUILLVANT XR. Hypersensitivity reactions such as angioedema and anaphylactic reactions have been reported in patients treated with other methylphenidate products [see Adverse Reactions (6.2)].

4.2 Monoamine Oxidase Inhibitors

QUILLVANT XR is contraindicated during treatment with monoamine oxidase inhibitors (MAOIs), and also within 14 days following discontinuation of treatment with a monoamine oxidase inhibitor (MAOI), because of the risk of hypertensive crisis [see Drug Interactions (7.1)].

5 WARNINGS AND PRECAUTIONS

5.1 Potential for Abuse and Dependence

CNS stimulants, including QUILLVANT XR, other methylphenidate-containing products, and amphetamines, have a high potential for abuse and dependence. Assess the risk of abuse prior to prescribing, and monitor for signs of abuse and dependence while on therapy [see Drug Abuse and Dependence (9.2, 9.3)].

5.2 Serious Cardiovascular Reactions

Stroke and myocardial infarction have occurred in adults treated with CNS stimulants at recommended doses. Sudden death has occurred in children and adolescents with structural cardiac abnormalities and other serious cardiac problems, and in adults taking CNS stimulants at recommended doses for ADHD. Avoid use in patients with known structural cardiac abnormalities, cardiomyopathy, serious cardiac arrhythmias, coronary artery disease, or other serious cardiac problems. Further evaluate patients who develop exertional chest pain, unexplained syncope, or arrhythmias during treatment with QUILLVANT XR.

5.3 Blood Pressure and Heart Rate Increases

CNS stimulants cause an increase in blood pressure (mean increase approximately 2 to 4 mm Hg) and heart rate (mean increase approximately 3 to 6 bpm). Individuals may have larger increases. Monitor all patients for hypertension and tachycardia.

5.4 Psychiatric Adverse Reactions

Exacerbation of Pre-Existing Psychosis

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

Induction of a Manic Episode in Patients with Bipolar Disorder

CNS stimulants may induce a manic or mixed episode in patients. Prior to initiating treatment, screen patients for risk factors for developing a manic episode (e.g., comorbid or history of depressive symptoms or a family history of suicide, bipolar disorder, or depression).

New Psychotic or Manic Symptoms

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

5.5 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 during discontinuation). Patients who develop abnormally sustained or frequent and painful erections should seek immediate medical attention.

5.6 Peripheral Vasculopathy, including Raynaud's Phenomenon

CNS stimulants, including QUILLVANT XR, 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 doses in the course of treatment. Signs and symptoms generally improve after reduction in dose or discontinuation of drug. Careful observation of digital changes is necessary during treatment with ADHD stimulants. Further clinical evaluation (e.g., rheumatology referral) may be appropriate for certain patients.

5.7 Long-Term Suppression of Growth

CNS stimulants have been associated with weight loss and slowing of growth rate in pediatric patients. Careful follow-up of weight and height in pediatric patients 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 pediatric patients over 36 months to the ages 10 to 13 years, suggests that consistently medicated pediatric patients (i.e., treatment for 7 days per week throughout the study) 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.

5.8 Geriatric Use

QUILLVANT XR has not been studied in patients over the age of 65 years.

9 DRUG ABUSE AND DEPENDENCE

9.1 Controlled Substance

QUILLVANT XR contains methylphenidate, a Schedule II controlled substance.

9.2 Abuse

CNS stimulants including QUILLVANT XR, other methylphenidate-containing products, and amphetamines have a high potential for abuse. Abuse is characterized by impaired control over drug use, continued use despite harm, and craving. Signs and symptoms of CNS stimulant abuse include increased heart rate, respiratory rate, blood pressure, and/or sweating, dilated pupils, hyperactivity, restlessness, insomnia, decreased appetite, loss of coordination, tremors, flushed skin, vomiting, and/or abdominal pain. Anxiety, psychosis, hostility, aggression, suicidal or homicidal ideation have also been observed. Abusers of CNS stimulants may chew, snort, inject, or use other unapproved routes of administration which can result in overdose and death [see Overdosage (10)].

To reduce the abuse of CNS stimulants including QUILLVANT XR, assess the risk of abuse prior to prescribing. After prescribing, keep careful prescription records, educate patients and their families about abuse and on proper storage and disposal of CNS stimulants, monitor for signs of abuse while on therapy, and re-evaluate the need for QUILLVANT XR use.

9.3 Dependence

Tolerance

Tolerance (a state of adaptation in which exposure to a drug results in a reduction of the drug's desired and/or undesired effects over time) can occur during chronic therapy with CNS stimulants including QUILLVANT XR.

Dependence

Physical dependence (a state of adaptation manifested by a withdrawal syndrome produced by abrupt cessation, rapid dose reduction, or administration of an antagonist) can occur in patients treated with CNS stimulants including QUILLVANT XR. Withdrawal symptoms after abrupt cessation following prolonged high-dosage administration of CNS stimulants include dysphoric mood, fatigue, vivid, unpleasant dreams, insomnia or hypersomnia, increased appetite, and psychomotor retardation or agitation.

10 OVERDOSAGE

Consult with a Certified Poison Control Center (1-800-222-1222) for up-to-date guidance and advice on the management of overdose with methylphenidate. Signs and symptoms of acute methylphenidate overdose, resulting principally from overstimulation of the CNS and from excessive sympathomimetic effects, may include the following: nausea, vomiting, diarrhea, restlessness, anxiety, agitation, tremors, hyperreflexia, muscle twitching, convulsions (may be followed by coma), euphoria, confusion, hallucinations, delirium, sweating, flushing, headache, hyperpyrexia, palpitations, tachycardia, arrhythmias, hypertension, hypotension, tachypnea, mydriasis, dryness of mucous membranes, and rhabdomyolysis.

11 DESCRIPTION

QUILLVANT XR is a powder that, after reconstitution with water, forms an extended-release oral suspension formulation of methylphenidate intended for once daily oral administration. QUILLVANT XR contains approximately 25% immediate-release and 80% extended-release methylphenidate. After reconstitution, QUILLVANT XR is available in a 25 mg per 5 mL (5 mg per mL) extended-release oral suspension.

Methylphenidate HCl is a central nervous system (CNS) stimulant. The chemical name is methyl α -phenyl-2-piperidineacetate hydrochloride, and its structural formula is shown in Figure 1.

Table 2. Common Adverse Reactions occurring in $\geq 2\%$ of subjects on QUILLVANT XR and greater than placebo during the controlled cross-over phase

| Adverse reaction | QUILLVANT XR N= 45 | Placebo N= 45 |
|--------------------|--------------------|---------------|
| Affectability | 9% | 2% |
| Excitation | 4% | 0 |
| Initial insomnia | 2% | 0 |
| Tic | 2% | 0 |
| Decreased appetite | 2% | 0 |
| Vomiting | 2% | 0 |
| Motion sickness | 2% | 0 |
| Eye pain | 2% | 0 |
| Rash | 2% | 0 |

6.2 Postmarketing Experience

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

Blood and Lymphatic System Disorders: Pancytopenia, Thrombocytopenia, Thrombocytopenic purpura
Cardiac Disorders: Angina pectoris, Bradycardia, Extrasystole, Supraventricular tachycardia, Ventricular extrasystole
Viral Disorders: Diplopia, Mydriasis, Visual impairment
General Disorders: Chest pain, Chest discomfort, Hyperpyrexia

QUILLVANT XR®

(methylphenidate hydrochloride) for extended-release oral suspension

Hepatobiliary Disorders: Severe hepatocellular injury

Immune System Disorders: Hypersensitivity reactions such as Angioedema, Anaphylactic reactions, Auricular swelling, Bullous conditions, Exfoliative conditions, Urticaria, Pruritus NEC, Rashes, Eruptions, and Exanthema NEC

Investigations: Alkaline phosphatase increased, Bilirubin increased, Helic enzyme increased, Platelet count decreased, White blood cell count abnormal

Musculoskeletal, Connective Tissue and Bone Disorders: Arthralgia, Myalgia, Muscle twitching, Rhabdomyolysis

Nervous System Disorders: Convulsion, Grand mal convolution, Dyskinesia, Serotonin syndrome in combination with serotonergic agents

Psychiatric Disorders: Disorientation, Hallucination, Hallucination auditory, Hallucination visual, Libido changes, Mania

Urogenital System: Priapism

Skin and Subcutaneous Tissue Disorders: Alopecia, Erythema

Vascular Disorders: Raynaud's phenomenon

7 DRUG INTERACTIONS

7.1 Clinically Important Drug Interactions

MAOI Inhibitors

Do not administer QUILLVANT XR concomitantly with monoamine oxidase inhibitors (MAOIs) or within 14 days after discontinuing MAOI treatment. Concomitant use of MAOIs and CNS stimulants can cause hypertensive crisis. Potential outcomes include death, stroke, myocardial infarction, aortic dissection, ophthalmological complications, eclampsia, pulmonary edema, and renal failure.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

There are limited published studies and small case series that report on the use of methylphenidate in pregnant women; however, the data are insufficient to inform any drug-associated risks. There are clinical considerations [see Clinical Considerations]. No teratogenic effects were observed in embryo-fetal development studies with oral administration of methylphenidate to pregnant rats and rabbits during organogenesis at doses 2 and 11 times, respectively, the maximum recommended human dose (MRHD). However, spina bifida was observed in rabbits at a dose 40 times the MRHD [see Data].

In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2% to 4% and 15% to 20%, respectively.

Clinical Considerations

Fetal/Neonatal adverse reactions
CNS stimulant medications, such as QUILLVANT XR, can cause vasoconstriction and thereby decrease placental perfusion. No fetal and/or neonatal adverse reactions have been reported with the use of therapeutic doses of methylphenidate during pregnancy; however, premature delivery and low birth weight infants have been reported in amphetamine-dependent mothers.

Data

Animal Data
In studies conducted in rats and rabbits, methylphenidate was administered orally at doses of up to 75 and 200 mg/kg/day, respectively, during the period of organogenesis. Teratogenic effects (increased incidence of fetal spina bifida) were observed in rats at the highest dose, which is approximately 40 times the maximum recommended human dose (MRHD) on a mg/m² basis. The no effect level for embryo-fetal development in rabbits was 60 mg/kg/day (11 times the MRHD on a mg/m² basis). There was no evidence of specific teratogenic activity in rats; although, increased incidences of fetal skeletal variations were seen at the highest dose (7 times the MRHD on a mg/m² basis), which is approximately 6 times the maximum recommended human dose (MRHD) on a mg/m² basis. The no effect level for embryo-fetal development in rats was 25 mg/kg/day (2 times the MRHD on a mg/m² basis).

8.2 Lactation

Risk Summary

Published literature reports that methylphenidate is present in human milk, which resulted in infant doses of 0.16% to 0.7% of the maternal weight-adjusted dosage and a milk/plasma ratio ranging between 1.1 and 2.7. There are no reports of adverse effects on the breastfed infant and no effects on milk production. Long-term developmental effects on infants from CNS stimulant exposure are unknown. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for QUILLVANT XR and any potential adverse effects on the breastfed infant from QUILLVANT XR or from the underlying maternal condition.

Clinical Considerations

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

8.4 Pediatric Use

The safety and effectiveness of QUILLVANT XR have been established in pediatric patients ages 6 to 17 years. Use of QUILLVANT XR in pediatric patients 6 to 12 years of age is supported by one adequate and well-controlled study [see Clinical Studies (12)]. Use in 12 to 17 year olds is supported by the adequate and well-controlled studies of QUILLVANT XR in younger pediatric patients and additional pharmacokinetic data in adolescents, along with safety information from other methylphenidate-containing products. The long-term efficacy of methylphenidate in pediatric patients has not been established. Safety and efficacy in pediatric patients below the age of 6 years have not been established.

Long-Term Suppression of Growth

Growth should be monitored during treatment with CNS stimulants, including QUILLVANT XR. Children who are not growing or gaining weight as expected may need to have their treatment interrupted [see Warnings and Precautions (5.7)].

Juvenile Animal Data

Rats treated with methylphenidate early in the postnatal period through sexual maturation demonstrated a decrease in spontaneous locomotor activity in adulthood. A deficit in acquisition of a specific learning task was observed in females only. The doses at which these findings were observed are at least 6 times the maximum recommended human dose (MRHD) on a mg/m² basis.

In the study conducted in young rats, methylphenidate was administered orally at doses of up to 100 mg/kg/day for 9 weeks, starting early in the postnatal period (postnatal day 7) and continuing through sexual maturity (postnatal week 10). When these animals were tested as adults (postnatal weeks 13 to 14), decreased spontaneous locomotor activity was observed in males and females previously treated with 50 mg/kg/day (approximately 6 times the maximum recommended human dose (MRHD) on a mg/m² basis) or greater, and a deficit in the acquisition of a specific learning task was observed in females exposed to the highest dose (12 times the MRHD on a mg/m² basis). The no effect level for juvenile neurobehavioral development in rats was 5 mg/kg/day (half the MRHD on a mg/m² basis). The clinical significance of the long-term behavioral effects observed in rats is unknown.



Medication Guide

QUILLIVANT XR® (\kwil-ə-vant\ (methylphenidate hydrochloride) for extended-release oral suspension CII

What is the most important information I should know about QUILLIVANT XR?

QUILLIVANT XR is a federally controlled substance (CII) because it can be abused or lead to dependence. Keep QUILLIVANT XR in a safe place to prevent misuse and abuse. Selling or giving away QUILLIVANT XR may harm others, and is against the law.

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

The following have been reported with use of methylphenidate hydrochloride 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 health care provider if you or your child have any heart problems, heart defects, high blood pressure, or a family history of these problems.

Your health care provider should check you or your child carefully for heart problems before starting QUILLIVANT XR.

Your health care provider should check your or your child's blood pressure and heart rate regularly during treatment with QUILLIVANT XR.

Call your health care provider right away if you or your child has any signs of heart problems such as chest pain, shortness of breath, or fainting while taking QUILLIVANT XR.

2. Mental (Psychiatric) problems:

- new or worse behavior and thought problems
- new or worse bipolar illness
- new psychotic symptoms (such as hearing voices, believing things that are not true, are suspicious) or new manic symptoms

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

Call your health care provider right away if you or your child have any new or worsening mental symptoms or problems while taking QUILLIVANT XR, 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
- Fingers or toes may change color from pale, to blue, to red

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

Call your health care provider right away if you have or your child has any signs of unexplained wounds appearing on fingers or toes while taking QUILLIVANT XR.

What is QUILLIVANT XR?

QUILLIVANT XR is a central nervous system stimulant prescription medicine. QUILLIVANT XR is a liquid medicine that you take by mouth.

It is used for the treatment of Attention Deficit Hyperactivity Disorder (ADHD). QUILLIVANT XR may help increase attention and decrease impulsiveness and hyperactivity in people with ADHD.

It is not known if QUILLIVANT XR is safe and effective in children under 6 years of age.

Do not take QUILLIVANT XR if you or your child:

- are allergic to methylphenidate hydrochloride, or any of the ingredients in QUILLIVANT XR. See the end of this Medication Guide for a complete list of ingredients in QUILLIVANT XR.
- are taking or have taken within the past 14 days a type of anti-depression medicine called a monoamine oxidase inhibitor (MAOI).



QUILLIVANT XR may not be right for you or your child. Before starting QUILLIVANT XR tell your or your child's health care provider 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
- circulation problems in fingers and toes
- if you are pregnant or plan to become pregnant. It is not known if QUILLIVANT XR will harm your unborn baby. Talk to your health care provider if you are pregnant or plan to become pregnant.
- if you are breastfeeding or plan to breast feed. QUILLIVANT XR passes into your breast milk. You and your doctor should decide if you will take QUILLIVANT XR or breast feed.

Tell your health care provider about all of the medicines that you or your child take including prescription and nonprescription medicines, vitamins, and herbal supplements. QUILLIVANT XR 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 QUILLIVANT XR.

Your health care provider will decide whether QUILLIVANT XR can be taken with other medicines.

Especially tell your health care provider if you or your child takes:

- anti-depression medicines including MAOIs

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

Do not start any new medicine while taking QUILLIVANT XR without talking to your health care provider first.

How should QUILLIVANT XR be taken?

- Read the step-by-step instructions for using QUILLIVANT XR extended-release suspension at the end of this Medication Guide.
- Take QUILLIVANT XR exactly as prescribed. Your health care provider may adjust the dose, if needed, until it is right for you or your child. During dose adjustment, you or your child may still have ADHD symptoms.
- QUILLIVANT XR should be used with the oral dosing dispenser provided with the product. If the oral dosing dispenser is missing or not provided, please contact your pharmacist for a replacement.
- Check and make sure that the QUILLIVANT XR bottle contains liquid medicine. If QUILLIVANT XR is in powder form, do not use it. Return it to your pharmacist.
- Check and make sure that the bottle adapter was fully inserted into the bottle by the pharmacist. If the bottle adapter is not fully inserted, insert the adapter into the bottle.
- Take QUILLIVANT XR 1 time each day in the morning. QUILLIVANT XR is an extended-release suspension. It releases medicine into your body throughout the day.
- QUILLIVANT XR can be taken with or without food. Taking QUILLIVANT XR with food may shorten the time it takes for the medicine to start working.
- From time to time, your health care provider may stop QUILLIVANT XR treatment for a while to check ADHD symptoms.
- Your health care provider may do regular checks of the blood, heart, and blood pressure while taking QUILLIVANT XR.
- Children should have their height and weight checked often while taking QUILLIVANT XR. QUILLIVANT XR treatment may be stopped if a problem is found during these check-ups.
- In case of poisoning call your poison control center at 1-800-222-1222 right away, or go to the nearest hospital emergency room.
- If a dose is missed, you or your child should talk to your health care provider about dosing.

What should I avoid while taking QUILLIVANT XR?

- QUILLIVANT XR should not be taken with MAOI medicines. Do not start taking QUILLIVANT XR if you stopped taking an MAOI in the last 14 days.
- Do not drink alcohol while taking QUILLIVANT XR. This may cause a faster release of your methylphenidate dose.



What are the possible side effects of QUILLIVANT XR?

QUILLIVANT XR may cause serious side effects, including:

- See "What is the most important information I should know about QUILLIVANT XR?" for information on reported heart and mental problems.

Other serious side effects include:

- painful and prolonged erections (priapism) have occurred with methylphenidate. If you or your child develop priapism seek medical help right away. Because priapism can cause long lasting damage, it should be checked by a health care provider right away.
- slowing of growth (height and weight) in children

The most common side effects of QUILLIVANT XR include:

- decreased appetite
- trouble sleeping
- nausea
- vomiting
- indigestion
- stomach pain
- weight loss
- anxiety
- dizziness
- irritability
- mood swings
- fast heart beat
- increased blood pressure

These are not all the possible side effects of QUILLIVANT XR.

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

How should I store QUILLIVANT XR?

- Store QUILLIVANT XR in a safe place at 59°F to 86°F (15°C to 30°C).
- Keep QUILLIVANT XR and all medicines out of the reach of children.

General information about the safe and effective use of QUILLIVANT XR

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

You can ask your pharmacist or health care provider for information about QUILLIVANT XR that was written for health care professionals.

What are the ingredients in QUILLIVANT XR?

Active Ingredient: methylphenidate hydrochloride

Inactive Ingredients: sodium polystyrene sulfonate, povidone, triacetin, polyvinyl acetate, sucrose, anhydrous trisodium citrate, anhydrous citric acid, sodium benzoate, sucralose, poloxamer 188, corn starch, xanthan gum, talc, banana flavor, and silicon dioxide.

For more information, go to www.quillivantxr.com or call (732) 940-0358.

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

This product's label may have been updated. For current full prescribing information, please visit www.trispharma.com.

Distributed by:

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A subsidiary of Tris Pharma, Inc., Monmouth Junction, NJ 08852

Manufactured by:
Tris Pharma, Inc.
Monmouth Junction, NJ 08852

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Instructions for Use

QUILLIVANT XR® (\kwil-ə-vant\ (methylphenidate hydrochloride) for extended-release oral suspension CII

Read this Instructions for Use before using QUILLIVANT XR and each time you get a refill. There may be new information. This leaflet does not take the place of talking with the health care provider about your or your child's medical condition or treatment.

Figure A



Figure C



Figure E

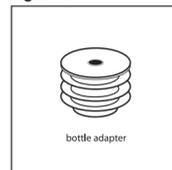


Figure G

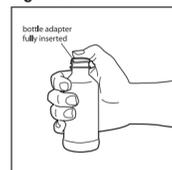


Figure I

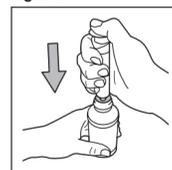


Figure K

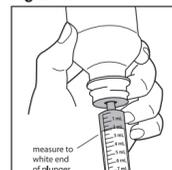


Figure M



Step 1. Remove the QUILLIVANT XR bottle and oral dosing dispenser from the box (See Figure A). If the oral dosing dispenser is missing or not provided, please contact your pharmacist for a replacement.

Step 3. Shake the bottle well (up and down) for at least 10 seconds before each use (See Figure C).

Step 4 (continued). If bottle adapter (See Figure E) has not been inserted by the pharmacist into the bottle, insert adapter into the bottle as shown (See Figure F and Figure G).

After the bottle adapter has been fully inserted into the bottle (See Figure G), it should not be removed. If the bottle adapter has not been inserted and is missing from the box, contact your pharmacist.

The bottle adapter must be fully inserted and should be even with the mouth of the bottle and must remain in place to allow the child resistant cap to work the right way.

Step 6. Insert tip of the oral dosing dispenser into the upright bottle and push the plunger all the way down (See Figure I).

Step 7 (continued). Measure the number of mL of medicine from the white end of the plunger (See Figure K).

Step 10. Cap the bottle tightly. Store the bottle upright at 59°F to 86°F (15°C to 30°C) (See Figure M).

Step 2. Check and make sure that the QUILLIVANT XR bottle contains liquid medicine (See Figure B). If QUILLIVANT XR is still in powder form, do not use it. Return it to your pharmacist.

Step 4. Uncap the bottle and check that the bottle adapter has been fully inserted into the bottle (See Figure D).

Figure F

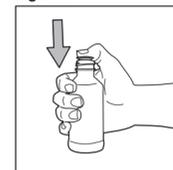


Figure H

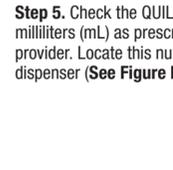


Figure J

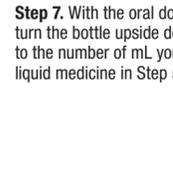


Figure L

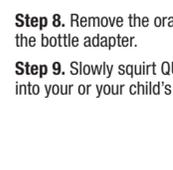
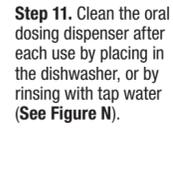


Figure N



These Instructions for Use have been approved by the U.S. Food and Drug Administration. This product's label may have been updated. For current full prescribing information, please visit www.trispharma.com.

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Figure B

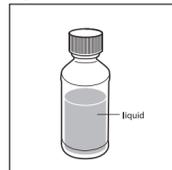


Figure D



Figure H

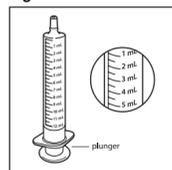


Figure J

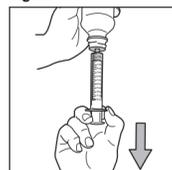


Figure L



Figure N

