RELEXXII - methylphenidate hydrochloride tablet, extended release
Vertical Pharmaceuticals, LLC

HIGHLIGHTS OF PRESCRIBING INFORMATION
These highlights do not include all the information needed to use RELEXXII® safely and effectively. See full prescribing information for RELEXXII®.

RELEXXII® (methylphenidate hydrochloride extended-release) tablets, USP for oral use CII
Initial U.S. Approval: 2000

WARNING: DRUG DEPENDENCE
See full prescribing information for complete boxed warning.
RELEXXII® 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.

INDICATIONS AND USAGE
RELEXXII® is a CNS stimulant indicated for the treatment of Attention Deficit Hyperactivity Disorder (ADHD) in children 6 years of age and older, adolescents, and adults up to the age of 65. (1)

DOSAGE AND ADMINISTRATION
- RELEXXII® should be taken once daily in the morning and swallowed whole with the aid of liquids. RELEXXII® should not be chewed or crushed. RELEXXII® may be taken with or without food. (2.1)
- For children and adolescents new to methylphenidate, the recommended starting dosage is 18 mg once daily. Dosage may be increased by 18 mg/day at weekly intervals and should not exceed 54 mg/day in children and 72 mg/day in adolescents. (2.2)
- For adult patients new to methylphenidate, the recommended starting dose is 18 or 36 mg/day. Dosage may be increased by 18 mg/day at weekly intervals and should not exceed 72 mg/day for adults. (2.2)
- For patients currently using methylphenidate, dosing is based on current dose regimen and clinical judgment. (2.3)

Dosage Forms and Strengths
Extended-release Tablet: 72 mg (3)

CONTRAINDICATIONS
- Known hypersensitivity to the product (4.1)
- Marked anxiety, tension, or agitation (4.2)
- Glaucoma (4.3)
- Tics or a family history or diagnosis of Tourette’s syndrome (4.4)
- Do not use RELEXXII® in patients currently using or within 2 weeks of using an MAO inhibitor (4.5)

WARNINGS AND PRECAUTIONS
- Serious Cardiovascular Events: 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. Sudden death, stroke, and myocardial infarction have been reported in adults taking stimulant drugs at usual doses for ADHD. Stimulant products generally should not be used in patients with known structural cardiac abnormalities, cardiomyopathy, serious heart rhythm abnormalities, coronary artery disease, or other serious heart problems. (5.1)
- Increase in Blood Pressure: Monitor patients for changes in heart rate and blood pressure and use with caution in patients for whom an increase in blood pressure or heart rate would be problematic. (5.1)
- Psychiatric Adverse Events: Use of stimulants may cause treatment-emergent psychotic or manic symptoms in patients with no prior history, or exacerbation of symptoms in patients with preexisting psychiatric illness. Clinical evaluation for Bipolar Disorder is recommended prior to stimulant use. Monitor for aggressive behavior. (5.2)
- Seizures: Stimulants may lower the convulsive threshold. Discontinue in the presence of seizures. (5.3)
- Priapism: cases of painful and prolonged penile erections and priapism have been reported with methylphenidate products. Immediate medical attention should be sought if signs or symptoms of painful or prolonged penile erections or priapism are observed. (5.4)
- Peripheral Vasculopathy, including Raynaud’s Phenomenon: 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. (5.5)
- Visual Disturbance: difficulties with accommodation and blurring of vision have been reported with stimulant treatment. (5.7)
- Long-Term Suppression of Growth: monitor height and weight at appropriate intervals in pediatric patients. (5.6)
- Gastrointestinal obstruction with preexisting GI narrowing. (5.8)
- Hematologic monitoring: Periodic CBC, differential, and platelet counts are advised during prolonged therapy. (5.9)

ADVERSE REACTIONS

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ADVERSE REACTIONS

The most common adverse reaction in double-blind clinical trials (>5%) in children and adolescents was abdominal pain upper. The most common adverse reactions in double-blind clinical trials (>5%) in adult patients were decreased appetite, headache, dry mouth, nausea, insomnia, anxiety, dizziness, weight decreased, irritability, and hyperhidrosis. (6.1 and 6.2)

The most common adverse reactions associated with discontinuation (≥1%) from either pediatric or adult clinical trials were anxiety, irritability, insomnia, and blood pressure increased. (6.3)

To report SUSPECTED ADVERSE REACTIONS, contact Vertical Pharmaceuticals, LLC at 1-877-482-3788 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

DRUG INTERACTIONS

- Do not use RELEXXII® in patients currently using or within 2 weeks of using an MAO inhibitor (7.1)
- RELEXXII® may increase blood pressure; use cautiously with vasopressors (7.2)
- Inhibition of metabolism of coumarin anticoagulants, anticonvulsants, and some antidepressants (7.3)

USE IN SPECIFIC POPULATIONS

- Caution should be exercised if administered to nursing mothers (8.3)
- Safety and efficacy has not been established in children less than six years old or elderly patients greater than 65 years of age (8.4 and 8.5)

See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.

Revised: 11/2019
FULL PRESCRIBING INFORMATION

WARNING: DRUG DEPENDENCE

RELEXXII® (methylphenidate hydrochloride extended-release tablets, USP) 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.

1 INDICATIONS AND USAGE

RELEXXII® is indicated for the treatment of Attention Deficit Hyperactivity Disorder (ADHD) in children 6 years of age and older, adolescents, and adults up to the age of 65 [see Clinical Studies (14)].

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; blurtin answers; can't wait turn; intrusive. The Combined Type requires both inattentive and hyperactive-impulsive criteria to be met.

1.1 Special Diagnostic Considerations
Specific etiology of this syndrome is unknown, and there is no single diagnostic test. Adequate diagnosis requires the use of medical and 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 patient and not solely on the presence of the required number of DSM-IV characteristics.

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

2 DOSAGE AND ADMINISTRATION

2.1 General Dosing Information
RELEXXII® should be administered orally once daily in the morning with or without food. RELEXXII® must be swallowed whole with the aid of liquids, and must not be chewed, divided, or crushed [see Patient Counseling Information (17)].

2.2 Patients New to Methylphenidate
The recommended starting dose of methylphenidate hydrochloride extended-release tablets for patients who are not currently taking methylphenidate or stimulants other than methylphenidate is 18 mg once daily for adolescents and 18 or 36 mg once daily for adults (see Table 1).

TABLE 1. Methylphenidate Hydrochloride Extended-release Tablets Recommended Starting Doses and Dose Ranges

<table>
<thead>
<tr>
<th>Patient Age</th>
<th>Recommended Starting Dose</th>
<th>Dose Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Children 6–12 years of age</td>
<td>18 mg/day</td>
<td>18 mg – 54 mg/day</td>
</tr>
<tr>
<td></td>
<td></td>
<td>18 mg – 72 mg/day</td>
</tr>
<tr>
<td>Adolescents 13–17 years of age</td>
<td>18 mg/day</td>
<td>not to exceed 2 mg/kg/day</td>
</tr>
<tr>
<td>Adults 18–65 years of age</td>
<td>18 or 36 mg/day</td>
<td>18 mg – 72 mg/day</td>
</tr>
</tbody>
</table>

2.3 Patients Currently Using Methylphenidate
The recommended dose of methylphenidate hydrochloride extended-release tablets for patients who are currently taking methylphenidate twice daily or three times daily at doses of 10 to 60 mg/day is
provided in Table 2. Dosing recommendations are based on current dose regimen and clinical judgment. Conversion dosage should not exceed 72 mg daily.

**TABLE 2. Recommended Dose Conversion from Methylphenidate Regimens to Methylphenidate Hydrochloride Extended-release Tablets**

<table>
<thead>
<tr>
<th>Previous Methylphenidate Daily Dose</th>
<th>Recommended Methylphenidate Hydrochloride Extended-release Tablets Starting Dose</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 mg Methylphenidate twice daily or three times daily</td>
<td>18 mg every morning</td>
</tr>
<tr>
<td>10 mg Methylphenidate twice daily or three times daily</td>
<td>36 mg every morning</td>
</tr>
<tr>
<td>15 mg Methylphenidate twice daily or three times daily</td>
<td>54 mg every morning</td>
</tr>
<tr>
<td>20 mg Methylphenidate twice daily or three times daily</td>
<td>72 mg every morning</td>
</tr>
</tbody>
</table>

Other methylphenidate regimens: Clinical judgment should be used when selecting the starting dose.

**2.4 Dose Titration**

Doses may be increased in 18-mg increments at weekly intervals for patients who have not achieved an optimal response at a lower dose. Daily dosages above 54 mg in children and 72 mg in adolescents have not been studied and are not recommended. Daily dosages above 72 mg in adults are not recommended. A 27 mg dosage strength is available for physicians who wish to prescribe between the 18 mg and 36 mg dosages.

**2.5 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 RELEXXII®. It is generally agreed, however, that pharmacological treatment of ADHD may be needed for extended periods.

The effectiveness of RELEXXII® for long-term use, i.e., for more than 7 weeks, has not been systematically evaluated in controlled trials. The physician who elects to use RELEXXII® 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.

**2.6 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.

**3 DOSAGE FORMS AND STRENGTHS**

RELEXXII® (methylphenidate hydrochloride extended-release tablets, USP) are available as 72 mg tablets which are blue with “TL710” imprinted in black ink.

**4 CONTRAINDICATIONS**

**4.1 Hypersensitivity to Methylphenidate**

Hypersensitivity reactions, such as angioedema and anaphylactic reactions, have been observed in patients treated with methylphenidate hydrochloride extended-release tablets. Therefore,
RELEXXII® is contraindicated in patients known to be hypersensitive to methylphenidate or other components of the product [see Adverse Reactions (6.6)].

4.2 Agitation
RELEXXII® is contraindicated in patients with marked anxiety, tension, and agitation, since the drug may aggravate these symptoms.

4.3 Glaucoma
RELEXXII® is contraindicated in patients with glaucoma.

4.4 Tics
RELEXXII® is contraindicated in patients with motor tics or with a family history or diagnosis of Tourette's syndrome [see Adverse Reactions (6.4)].

4.5 Monoamine Oxidase Inhibitors
RELEXXII® is contraindicated during treatment with monoamine oxidase (MAO) inhibitors, and also within a minimum of 14 days following discontinuation of a MAO inhibitor (hypertensive crises may result) [see Drug Interactions (7.1)].

5 WARNINGS AND PRECAUTIONS

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

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

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.

Hypertension and Other Cardiovascular Conditions
Stimulant medications cause a modest increase in average blood pressure (about 2 to 4 mm Hg) and average heart rate (about 3 to 6 bpm) [see Adverse Reactions (6.5)], and individuals may have larger increases. While the mean changes alone would not be expected to have short-term consequences, all patients should be monitored for larger changes in heart rate and blood pressure. Caution is indicated in treating patients whose underlying medical conditions might be compromised by increases in blood pressure or heart rate, e.g., those with preexisting hypertension, heart failure, recent myocardial infarction, or ventricular arrhythmia.

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

Preexisting Psychosis

Administration of stimulants may exacerbate symptoms of behavior disturbance and thought disorder in patients with a preexisting 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 patients without a prior history of psychotic illness or mania can be caused by stimulants at usual doses. If such symptoms occur, consideration should be given to a possible causal role of the stimulant, and discontinuation of treatment may be appropriate. In a pooled analysis of multiple short-term, placebo-controlled studies, such symptoms occurred in about 0.1% (4 patients with events out of 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 patients 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.

5.3 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.

5.4 Priapism

Prolonged and painful erections, sometimes requiring surgical intervention, have been reported with methylphenidate products, including methylphenidate hydrochloride extended release tablets, in both pediatric and adult patients [see Adverse Reactions (6.6)]. 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.

5.5 Peripheral Vasculopathy, including Raynaud's Phenomenon

Stimulants, including methylphenidate hydrochloride extended release tablets, used to treat ADHD are associated with peripheral vasculopathy, including Raynaud’s phenomenon. Signs and symptoms are usually intermittent and mild; however, very rare sequelae include digital ulceration and/or soft tissue breakdown. Effects of peripheral 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.

5.6 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 nonmedication treatment groups over 14 months, as well as in naturalistic subgroups of newly methylphenidate-treated and nonmedication-treated children over 36 months (to the ages of 10
to 13 years), suggests that consistently medicated children (i.e., treatment for 7 days per week throughout the year) have a temporary slowing in growth rate (on average, a total of about 2 cm less growth in height and 2.7 kg less growth in weight over 3 years), without evidence of growth rebound during this period of development. Published data are inadequate to determine whether chronic use of amphetamines may cause 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.

5.7 Visual Disturbance
Difficulties with accommodation and blurring of vision have been reported with stimulant treatment.

5.8 Potential for Gastrointestinal Obstruction
Because the RELEXXII® tablet is nondeformable and does not appreciably change in shape in the GI tract, RELEXXII® should not ordinarily be administered to patients with preexisting severe gastrointestinal narrowing (pathologic or iatrogenic, for example: esophageal motility disorders, small bowel inflammatory disease, "short gut" syndrome due to adhesions or decreased transit time, past history of peritonitis, cystic fibrosis, chronic intestinal pseudoobstruction, or Meckel's diverticulum). There have been rare reports of obstructive symptoms in patients with known strictures in association with the ingestion of drugs in nondeformable controlled-release formulations. Due to the controlled-release design of the tablet, RELEXXII® should be used only in patients who are able to swallow the tablet whole [see Patient Counseling Information (17)].

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

6 ADVERSE REACTIONS
The following are discussed in more detail in other sections of the labeling:
• Drug Dependence [see Box Warning]
• Hypersensitivity to Methylphenidate [see Contraindications (4.1)]
• Agitation [see Contraindications (4.2)]
• Glaucoma [see Contraindications (4.3)]
• Tics [see Contraindications (4.4)]
• Monoamine Oxidase Inhibitors [see Contraindications (4.5) and Drug Interactions (7.1)]
• Serious Cardiovascular Events [see Warnings and Precautions (5.1)]
• Psychiatric Adverse Events [see Warnings and Precautions (5.2)]
• Seizures [see Warnings and Precautions (5.3)]
• Priapism [see Warnings and Precautions (5.4)]
• Long-Term Suppression of Growth [see Warnings and Precautions (5.6)]
• Visual Disturbance [see Warnings and Precautions (5.7)]
• Potential for Gastrointestinal Obstruction [see Warnings and Precautions (5.8)]
• Hematologic Monitoring [see Warnings and Precautions (5.9)]

The most common adverse reaction in double-blind clinical trials (>5%) in pediatric patients (children and adolescents) was abdominal pain upper. The most common adverse reactions in double-blind clinical trials (>5%) in adult patients were decreased appetite, headache, dry mouth, nausea, insomnia, anxiety, dizziness, weight decreased, irritability, and hyperhidrosis [see Adverse Reactions (6.1)].

The most common adverse reactions associated with discontinuation (≥1%) from either pediatric or adult clinical trials were anxiety, irritability, insomnia, and blood pressure increased [see Adverse Reactions (6.3)].

The development program for methylphenidate hydrochloride extended-release tablets included exposures in a total of 3906 participants in clinical trials. Children, adolescents, and adults with ADHD were evaluated in 6 controlled clinical studies and 11 open-label clinical studies (see Table 3). Safety was assessed by collecting adverse events, vital signs, weights, and ECGs, and by performing physical
examinations and laboratory analyses.

**Table 3. Methylphenidate Hydrochloride Extended-release Tablets Exposure in Double-Blind and Open-Label Clinical Studies**

<table>
<thead>
<tr>
<th>Patient Population</th>
<th>N</th>
<th>Dose Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Children</td>
<td>2216</td>
<td>18 to 54 mg once daily</td>
</tr>
<tr>
<td>Adolescents</td>
<td>502</td>
<td>18 to 72 mg once daily</td>
</tr>
<tr>
<td>Adults</td>
<td>1188</td>
<td>18 to 108 mg once daily</td>
</tr>
</tbody>
</table>

Adverse events during exposure were obtained primarily by general inquiry and recorded by clinical investigators using their own terminology. Consequently, to provide a meaningful estimate of the proportion of individuals experiencing adverse events, events were grouped in standardized categories using MedDRA terminology.

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.

Throughout this section, adverse reactions are reported. Adverse reactions are adverse events that were considered to be reasonably associated with the use of methylphenidate hydrochloride extended-release tablets based on the comprehensive assessment of the available adverse event information. A causal association for methylphenidate hydrochloride extended-release tablets often cannot be reliably established in individual cases. Further, because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in clinical trials of another drug and may not reflect the rates observed in clinical practice.

The majority of adverse reactions were mild to moderate in severity.

**6.1 Commonly Observed Adverse Reactions in Double-Blind, Placebo-Controlled Clinical Trials**

Adverse reactions in either the pediatric or adult double-blind adverse reactions tables may be relevant for both patient populations.

Children and Adolescents

Table 4 lists the adverse reactions reported in 1% or more of methylphenidate hydrochloride extended-release tablets-treated children and adolescent subjects in 4 placebo-controlled, double-blind clinical trials.

**Table 4. Adverse Reactions Reported by ≥1% of Methylphenidate Hydrochloride Extended-release Tablets-Treated Children and Adolescent Subjects in 4 Placebo-Controlled, Double-Blind Clinical Trials of Methylphenidate Hydrochloride Extended-release Tablets**

<table>
<thead>
<tr>
<th>System/Organ Class</th>
<th>Methylphenidate Hydrochloride Extended-release Tablets (n=321) %</th>
<th>Placebo (n=318) %</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gastrointestinal Disorders</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Abdominal pain upper</td>
<td>6.2</td>
<td>3.8</td>
</tr>
<tr>
<td>Vomiting</td>
<td>2.8</td>
<td>1.6</td>
</tr>
<tr>
<td><strong>General Disorders and Administration Site Conditions</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pyrexia</td>
<td>2.2</td>
<td>0.9</td>
</tr>
<tr>
<td><strong>Infections and Infestations</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Nasopharyngitis  
**Nervous System Disorders**  
Dizziness  
**Psychiatric Disorders**  
Insomnia*  
**Respiratory, Thoracic and Mediastinal Disorders**  
Cough  
Oropharyngeal pain  

* Terms of Initial insomnia (methylphenidate hydrochloride extended-release tablets =0.6%) and Insomnia (methylphenidate hydrochloride extended-release tablets =2.2%) are combined into Insomnia.

The majority of adverse reactions were mild to moderate in severity.

Adults

Table 5 lists the adverse reactions reported in 1% or more of methylphenidate hydrochloride extended-release tablets -treated adults in 2 placebo-controlled, double-blind clinical trials.

**Table 5. Adverse Reactions Reported by ≥1% of Methylphenidate Hydrochloride Extended-release Tablets -Treated Adult Subjects in 2 Placebo-Controlled, Double-Blind Clinical Trials**

<table>
<thead>
<tr>
<th>System/Organ Class Adverse Reaction</th>
<th>Methylphenidate Hydrochloride Extended-release Tablets (n=415) %</th>
<th>Placebo (n=212) %</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cardiac Disorders</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tachycardia</td>
<td>4.8</td>
<td>0</td>
</tr>
<tr>
<td>Palpitations</td>
<td>3.1</td>
<td>0.9</td>
</tr>
<tr>
<td><strong>Ear and Labyrinth Disorders</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vertigo</td>
<td>1.7</td>
<td>0</td>
</tr>
<tr>
<td><strong>Eye Disorders</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vision blurred</td>
<td>1.7</td>
<td>0.5</td>
</tr>
<tr>
<td><strong>Gastrointestinal Disorders</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dry mouth</td>
<td>14.0</td>
<td>3.8</td>
</tr>
<tr>
<td>Nausea</td>
<td>12.8</td>
<td>3.3</td>
</tr>
<tr>
<td>Dyspepsia</td>
<td>2.2</td>
<td>0.9</td>
</tr>
<tr>
<td>Vomiting</td>
<td>1.7</td>
<td>0.5</td>
</tr>
<tr>
<td>Constipation</td>
<td>1.4</td>
<td>0.9</td>
</tr>
<tr>
<td><strong>General Disorders and Administration Site Conditions</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Irritability</td>
<td>5.8</td>
<td>1.4</td>
</tr>
<tr>
<td><strong>Infections and Infestations</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper respiratory tract infection</td>
<td>2.2</td>
<td>0.9</td>
</tr>
<tr>
<td><strong>Investigations</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight decreased</td>
<td>6.5</td>
<td>3.3</td>
</tr>
<tr>
<td><strong>Metabolism and Nutrition Disorders</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Decreased appetite</td>
<td>25.3</td>
<td>6.6</td>
</tr>
<tr>
<td>Anorexia</td>
<td>1.7</td>
<td>0</td>
</tr>
<tr>
<td><strong>Musculoskeletal and Connective Tissue Disorders</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Muscle tightness</td>
<td>1.9</td>
<td>0</td>
</tr>
<tr>
<td><strong>Nervous System Disorders</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Headache</td>
<td>22.2</td>
<td>15.6</td>
</tr>
<tr>
<td>Dizziness</td>
<td>6.7</td>
<td>5.2</td>
</tr>
<tr>
<td>Tremor</td>
<td>2.7</td>
<td>0.5</td>
</tr>
<tr>
<td>Disorder</td>
<td>Incidence</td>
<td>Severity</td>
</tr>
<tr>
<td>--------------------------</td>
<td>-----------</td>
<td>----------</td>
</tr>
<tr>
<td>Paresthesia</td>
<td>1.2</td>
<td>0</td>
</tr>
<tr>
<td>Sedation</td>
<td>1.2</td>
<td>0</td>
</tr>
<tr>
<td>Tension headache</td>
<td>1.2</td>
<td>0.5</td>
</tr>
<tr>
<td><strong>Psychiatric Disorders</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Insomnia</td>
<td>12.3</td>
<td>6.1</td>
</tr>
<tr>
<td>Anxiety</td>
<td>8.2</td>
<td>2.4</td>
</tr>
<tr>
<td>Initial insomnia</td>
<td>4.3</td>
<td>2.8</td>
</tr>
<tr>
<td>Depressed mood</td>
<td>3.9</td>
<td>1.4</td>
</tr>
<tr>
<td>Nervousness</td>
<td>3.1</td>
<td>0.5</td>
</tr>
<tr>
<td>Restlessness</td>
<td>3.1</td>
<td>0</td>
</tr>
<tr>
<td>Agitation</td>
<td>2.2</td>
<td>0.5</td>
</tr>
<tr>
<td>Aggression</td>
<td>1.7</td>
<td>0.5</td>
</tr>
<tr>
<td>Bruxism</td>
<td>1.7</td>
<td>0.5</td>
</tr>
<tr>
<td>Depression</td>
<td>1.7</td>
<td>0.9</td>
</tr>
<tr>
<td>Libido decreased</td>
<td>1.7</td>
<td>0.5</td>
</tr>
<tr>
<td>Affect lability</td>
<td>1.4</td>
<td>0.9</td>
</tr>
<tr>
<td>Confusional state</td>
<td>1.2</td>
<td>0.5</td>
</tr>
<tr>
<td>Tension</td>
<td>1.2</td>
<td>0.5</td>
</tr>
<tr>
<td><strong>Respiratory, Thoracic and Mediastinal Disorders</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oropharyngeal pain</td>
<td>1.7</td>
<td>1.4</td>
</tr>
<tr>
<td><strong>Skin and Subcutaneous Tissue Disorders</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hyperhidrosis</td>
<td>5.1</td>
<td>0.9</td>
</tr>
</tbody>
</table>

* Included doses up to 108 mg.

The majority of ADRs were mild to moderate in severity.

### 6.2 Other Adverse Reactions Observed in Methylphenidate Hydrochloride Extended-release Tablets Clinical Trials

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice.

This section includes adverse reactions reported by methylphenidate hydrochloride extended-release tablets -treated subjects in double-blind trials that do not meet the criteria specified for Table 4 or Table 5 and all adverse reactions reported by methylphenidate hydrochloride extended-release tablets -treated subjects who participated in open-label and postmarketing clinical trials.

**Blood and Lymphatic System Disorders:** Leukopenia

**Eye Disorders:** Accommodation disorder, Dry eye

**Vascular Disorders:** Hot flush

**Gastrointestinal Disorders:** Abdominal discomfort, Abdominal pain, Diarrhea

**General Disorders and Administrative Site Conditions:** Asthenia, Fatigue, Feeling jittery, Thirst

**Infections and Infestations:** Sinusitis

**Investigations:** Alanine aminotransferase increased, Blood pressure increased, Cardiac murmur, Heart rate increased

**Musculoskeletal and Connective Tissue Disorders:** Muscle spasms

**Nervous System Disorders:** Lethargy, Psychomotor hyperactivity, Somnolence

**Psychiatric Disorders:** Anger, Hypervigilance, Mood altered, Mood swings, Panic attack, Sleep disorder, Tearfulness, Tic

**Reproductive System and Breast Disorders:** Erectile dysfunction

**Respiratory, Thoracic and Mediastinal Disorders:** Dyspnea

**Skin and Subcutaneous Tissue Disorders:** Rash, Rash macular

**Vascular Disorders:** Hypertension
6.3 Discontinuation Due to Adverse Reactions

Adverse reactions in the 4 placebo-controlled studies of children and adolescents leading to discontinuation occurred in 2 methylphenidate hydrochloride extended-release tablets patients (0.6%) including depressed mood (1, 0.3%) and headache and insomnia (1, 0.3%), and 6 placebo patients (1.9%) including headache and insomnia (1, 0.3%), irritability (2, 0.6%), headache (1, 0.3%), psychomotor hyperactivity (1, 0.3%), and tic (1, 0.3%).

In the 2 placebo-controlled studies of adults, 25 methylphenidate hydrochloride extended-release tablets patients (6.0%) and 6 placebo patients (2.8%) discontinued due to an adverse reaction. Those events with an incidence of >0.5% in the methylphenidate hydrochloride extended-release tablets patients included anxiety (1.7%), irritability (1.4%), blood pressure increased (1.0%), and nervousness (0.7%). In placebo patients, blood pressure increased and depressed mood had an incidence of >0.5% (0.9%).

In the 11 open-label studies of children, adolescents, and adults, 266 methylphenidate hydrochloride extended-release tablets patients (7.0%) discontinued due to an adverse reaction. Those events with an incidence of >0.5% included insomnia (1.2%), irritability (0.8%), anxiety (0.7%), decreased appetite (0.7%), and tic (0.6%).

6.4 Tics

In a long-term uncontrolled study (n=432 children), the cumulative incidence of new onset of tics was 9% after 27 months of treatment with methylphenidate hydrochloride extended-release tablets.

In a second uncontrolled study (n=682 children) the cumulative incidence of new-onset tics was 1% (9/682 children). The treatment period was up to 9 months with mean treatment duration of 7.2 months.

6.5 Blood Pressure and Heart Rate Increases

In the laboratory classroom clinical trials in children (Studies 1 and 2), both methylphenidate hydrochloride extended-release tablets once daily and methylphenidate three times daily increased resting pulse by an average of 2 to 6 bpm and produced average increases of systolic and diastolic blood pressure of roughly 1 to 4 mm Hg during the day, relative to placebo. In the placebo-controlled adolescent trial (Study 4), mean increases from baseline in resting pulse rate were observed with methylphenidate hydrochloride extended-release tablets and placebo at the end of the double-blind phase (5 and 3 beats/minute, respectively). Mean increases from baseline in blood pressure at the end of the double-blind phase for methylphenidate hydrochloride extended-release tablets and placebo-treated patients were 0.7 and 0.7 mm Hg (systolic) and 2.6 and 1.4 mm Hg (diastolic), respectively. In one placebo-controlled study in adults (Study 6), dose-dependent mean increases of 3.9 to 9.8 bpm from baseline in standing pulse rate were observed with methylphenidate hydrochloride extended-release tablets at the end of the double-blind treatment vs. an increase of 2.7 beats/minute with placebo. Mean changes from baseline in standing blood pressure at the end of double-blind treatment ranged from 0.1 to 2.2 mm Hg (systolic) and -0.7 to 2.2 mm Hg (diastolic) for methylphenidate hydrochloride extended-release tablets and was 1.1 mm Hg (systolic) and -1.8 mm Hg (diastolic) for placebo. In a second placebo-controlled study in adults (Study 5), mean changes from baseline in resting pulse rate were observed for methylphenidate hydrochloride extended-release tablets and placebo-treated patients were -1.2 and -0.5 mm Hg (systolic) and 1.1 and 0.4 mm Hg (diastolic), respectively [see Warnings and Precautions (5.1)].

6.6 Postmarketing Experience

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

Blood and Lymphatic System Disorders: Pancytopenia, Thrombocytopenia, Thrombocytopenic purpura

Cardiac Disorders: Angina pectoris, Bradycardia, Extrasystoles, Supraventricular tachycardia, Ventricular extrasystoles
Eye Disorders: Diplopia, Mydriasis, Visual impairment

General Disorders: Chest pain, Chest discomfort, Drug effect decreased, Hyperpyrexia, Therapeutic response decreased

Hepatobiliary Disorders: Hepatocellular injury, Acute hepatic failure

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

Investigations: Blood alkaline phosphatase increased, Blood bilirubin increased, Hepatic 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 convulsion, Dyskinesia, Serotonin syndrome in combination with serotonergic drugs

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

Reproductive System and Breast Disorders: Priapism

Skin and Subcutaneous Tissue Disorders: Alopecia, Erythema

Vascular Disorders: Raynaud's phenomenon

7 DRUG INTERACTIONS

7.1 MAO Inhibitors

RELEXXII® should not be used in patients being treated (currently or within the preceding 2 weeks) with MAO inhibitors [see Contraindications (4.5)].

7.2 Vasopressor Agents

Because of possible increases in blood pressure, RELEXXII® should be used cautiously with vasopressor agents [see Warnings and Precautions (5.1)].

7.3 Coumarin Anticoagulants, Antidepressants, and Selective Serotonin Reuptake Inhibitors

Human pharmacologic studies have shown that methylphenidate may inhibit the metabolism of coumarin anticoagulants, anticonvulsants (eg, phenobarbital, phenytoin, primidone), 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.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

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 harm to the fetus at oral doses up to 30 mg/kg/day, approximately 15-fold and 3-fold the maximum recommended human dose of methylphenidate hydrochloride extended-release tablets on a mg/kg and mg/m² basis, respectively. The approximate plasma exposure to methylphenidate plus its main metabolite PPAA in pregnant rats was 1–2 times that seen in trials in volunteers and patients with the maximum recommended dose of RELEXXII® based on the AUC.
The safety of methylphenidate for use during human pregnancy has not been established. There are no adequate and well-controlled studies in pregnant women. RELEXXII® should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

8.2 Labor and Delivery
The effect of RELEXXII® on labor and delivery in humans is unknown.

8.3 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 RELEXXII® is administered to a nursing woman.

In lactating female rats treated with a single oral dose of 5 mg/kg radiolabeled methylphenidate, radioactivity (representing methylphenidate and/or its metabolites) was observed in milk and levels were generally similar to those in plasma.

8.4 Pediatric Use
RELEXXII® should not be used in children under thirteen years, since safety and efficacy in this age group have not been established. Long-term effects of methylphenidate in children have not been well established.

8.5 Geriatric Use
RELEXXII® has not been studied in patients greater than 65 years of age.

9 DRUG ABUSE AND DEPENDENCE

9.1 Controlled Substance
Methylphenidate is a Schedule II controlled substance under the Controlled Substances Act.

9.2 Abuse
As noted in the Box Warning, RELEXXII® 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.

In two placebo-controlled human abuse potential studies, single oral doses of methylphenidate hydrochloride extended-release tablets were compared to single oral doses of immediate-release methylphenidate (IR MPH) and placebo in subjects with a history of recreational stimulant use to assess relative abuse potential. For the purpose of this assessment, the response for each of the subjective measures was defined as the maximum effect within the first 8 hours after dose administration.

In one study (n=40), both methylphenidate hydrochloride extended-release tablets (108 mg) and 60 mg IR MPH compared to placebo produced statistically significantly greater responses on the five subjective measures suggestive of abuse potential. In comparisons between the two active treatments, however, methylphenidate hydrochloride extended-release tablets (108 mg) produced variable responses on positive subjective measures that were either statistically indistinguishable from (Abuse Potential, Drug Liking, Amphetamine, and Morphine Benzedrine Group [Euphoria]) or statistically less than (Stimulation – Euphoria) responses produced by 60 mg IR MPH.

In another study (n=49), both doses of methylphenidate hydrochloride extended-release tablets (54 mg and 108 mg) and both doses of IR MPH (50 mg and 90 mg) produced statistically significantly greater responses compared to placebo on the two primary scales used in the study (Drug Liking, Euphoria). When doses of methylphenidate hydrochloride extended-release tablets (54 mg and 108 mg) were compared to IR MPH (50 mg and 90 mg), respectively, methylphenidate hydrochloride extended-release tablets produced statistically significantly lower subjective responses on these two scales than IR MPH. Methylphenidate hydrochloride extended-release tablets (108 mg) produced responses that were statistically indistinguishable from the responses on these two scales produced by IR MPH (50 mg). Differences in subjective responses to the respective doses should be considered in the context that only 22% of the total amount of methylphenidate in RELEXXII® is available for immediate release.
from the drug overcoat [see System Components and Performance (11.1)].

Although these findings reveal a relatively lower response to RELEXXII® on subjective measures suggestive of abuse potential compared to IR MPH at roughly equivalent total MPH doses, the relevance of these findings to the abuse potential of RELEXXII® in the community is unknown.

9.3 Dependence
As noted in the Box Warning, 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.

10 OVERDOSAGE

10.1 Signs and Symptoms
Signs and symptoms of RELEXXII® overdose, resulting principally from overstimulation of the CNS and from excessive sympathomimetic effects, may include the following: vomiting, agitation, muscle twitching, convulsion, grand mal convulsion, confusional state, hallucinations (auditory and/or visual), hyperhidrosis, headache, pyrexia, tachycardia, palpitations, heart rate increased, sinus arrhythmia, hypertension, rhabdomyolysis, mydriasis, and dry mouth.

10.2 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 pyrexia.

Efficacy of peritoneal dialysis or extracorporeal hemodialysis for RELEXXII® overdose has not been established.

The prolonged release of methylphenidate from RELEXXII® should be considered when treating patients with overdose.

10.3 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.

11 DESCRIPTION
RELEXXII® is a central nervous system (CNS) stimulant. RELEXXII® for once-a-day oral administration contains 72 mg of methylphenidate HCl USP and is designed to have a 12-hour duration of effect. Chemically, methylphenidate HCl is d,l (racemic) methyl α-phenyl-2-piperidineacetate hydrochloride. Its empirical formula is C₁₄H₁₉NO₂•HCl. Its structural formula is:

![Structural formula of methylphenidate HCl](image)
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.

RELEXXII® also contains the following inactive ingredients: black iron oxide, cellulose acetate, colloidal silicon dioxide, ferrosoferric oxide, hypromellose, lactose monohydrate, magnesium stearate, phosphoric acid, polyethylene glycol, polyethylene oxide, sodium chloride, succinic acid, titanium dioxide, triacetin and FD&C Blue #1 Aluminum Lake.

USP Dissolution Test Pending

11.1 System Components and Performance

RELEXXII® uses osmotic pressure to deliver methylphenidate HCl at a controlled rate. The system, which resembles a conventional tablet in appearance, comprises an osmotically active bilayer core surrounded by a semipermeable membrane with an immediate-release drug overcoat. The bilayer core is composed of a drug layer containing the drug and excipients, and a push layer containing osmotically active components. There is a precision-laser drilled orifice on the drug-layer end of the tablet. In an aqueous environment, such as the gastrointestinal tract, the drug overcoat dissolves within one hour, providing an initial dose of methylphenidate. Water permeates through the membrane into the tablet core. As the osmotically active polymer excipients expand, methylphenidate is released through the orifice. The membrane controls the rate at which water enters the tablet core, which in turn controls drug delivery. Furthermore, the drug release rate from the system increases with time over a period of 6 to 7 hours due to the drug-concentration gradient incorporated into the two drug layers of core of RELEXXII®. The biologically inert components of the tablet remain intact during gastrointestinal transit and are eliminated in the stool as a tablet shell along with insoluble core components. It is possible that RELEXXII® may be visible on abdominal x-rays under certain circumstances, especially when digital enhancing techniques are utilized.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

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.

12.2 Pharmacodynamics

Methylphenidate is a racemic mixture comprised of the d- and l-isomers. The d-isomer is more pharmacologically active than the l-isomer.

12.3 Pharmacokinetics

Absorption

Methylphenidate is readily absorbed. Following oral administration of methylphenidate hydrochloride extended-release tablets, plasma methylphenidate concentrations increase rapidly, reaching an initial maximum at about 1 hour, followed by gradual ascending concentrations over the next 5 to 9 hours, after which a gradual decrease begins. Mean times to reach peak plasma concentrations across all doses of methylphenidate hydrochloride extended-release tablets occurred between 6 and 10 hours.

Methylphenidate hydrochloride extended-release tablets once daily minimizes the fluctuations between peak and trough concentrations associated with immediate-release methylphenidate three times daily (see Figure 1). The relative bioavailability of methylphenidate hydrochloride extended-release tablets once daily and methylphenidate three times daily in adults is comparable.

Figure 1. Mean methylphenidate plasma concentrations in 36 adults, following a single dose of methylphenidate hydrochloride extended-release tablets 18 mg once daily and immediate-release methylphenidate 5 mg three times daily administered every 4 hours.
The mean single-dose pharmacokinetic parameters in 36 healthy adults following the administration of methylphenidate hydrochloride extended-release tablets 18 mg once daily and methylphenidate 5 mg three times daily are summarized in Table 6.

TABLE 6. Pharmacokinetic Parameters (Mean ± SD) After Single Dose in Healthy Adults

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Methylphenidate Hydrochloride Extended-release Tablets (18 mg once daily) (n=36)</th>
<th>Methylphenidate (5 mg three times daily) (n=35)</th>
</tr>
</thead>
<tbody>
<tr>
<td>C&lt;sub&gt;max&lt;/sub&gt; (ng/mL)</td>
<td>3.7 ± 1.0</td>
<td>4.2 ± 1.0</td>
</tr>
<tr>
<td>T&lt;sub&gt;max&lt;/sub&gt; (h)</td>
<td>6.8 ± 1.8</td>
<td>6.5 ± 1.8</td>
</tr>
<tr>
<td>AUC&lt;sub&gt;inf&lt;/sub&gt; (ng·h/mL)</td>
<td>41.8 ± 13.9</td>
<td>38.0 ± 11.0</td>
</tr>
<tr>
<td>t&lt;sub&gt;1/2&lt;/sub&gt; (h)</td>
<td>3.5 ± 0.4</td>
<td>3.0 ± 0.5</td>
</tr>
</tbody>
</table>

The pharmacokinetics of methylphenidate hydrochloride extended-release tablets were evaluated in healthy adults following single- and multiple-dose administration (steady state) of doses up to 144 mg/day. The mean half-life was about 3.6 hours. No differences in the pharmacokinetics of methylphenidate hydrochloride extended-release tablets were noted following single and repeated once-daily dosing, indicating no significant drug accumulation. The AUC and t<sub>1/2</sub> following repeated once-daily dosing are similar to those following the first dose of methylphenidate hydrochloride extended-release tablets in a dose range of 18 to 144 mg.

Dose Proportionality

Following administration methylphenidate hydrochloride extended-release tablets in single doses of 18, 36, and 54 mg/day to healthy adults, C<sub>max</sub> and AUC<sub>(0–inf)</sub> of d-methylphenidate were proportional to dose, whereas l-methylphenidate C<sub>max</sub> and AUC<sub>(0–inf)</sub> increased disproportionately with respect to dose. Following administration of methylphenidate hydrochloride extended-release tablets, plasma...
concentrations of the l-isomer were approximately 1/40 the plasma concentrations of the d-isomer.

In healthy adults, single and multiple dosing of once-daily methylphenidate hydrochloride extended-release tablets doses from 54 to 144 mg/day resulted in linear and dose-proportional increases in $C_{\text{max}}$ and $AUC_{\text{inf}}$ for total methylphenidate (MPH) and its major metabolite, $\alpha$-phenyl-piperidine acetic acid (PPAA). There was no time dependency in the pharmacokinetics of methylphenidate. The ratio of metabolite (PPAA) to parent drug (MPH) was constant across doses from 54 to 144 mg/day, both after single dose and upon multiple dosing.

In a multiple-dose study in adolescent ADHD patients aged 13 to 16 administered their prescribed dose (18 to 72 mg/day) of methylphenidate hydrochloride extended-release tablets, mean $C_{\text{max}}$ and $AUC_{\text{TAU}}$ of d- and total methylphenidate increased proportionally with respect to dose.

**Distribution**

Plasma methylphenidate concentrations in adults and adolescents decline biexponentially following oral administration. The half-life of methylphenidate in adults and adolescents following oral administration of methylphenidate hydrochloride extended-release tablets was approximately 3.5 hours.

**Metabolism and Excretion**

In humans, methylphenidate is metabolized primarily by de-esterification to PPAA, which has little or no pharmacologic activity. In adults the metabolism of methylphenidate hydrochloride extended-release tablets once daily as evaluated by metabolism to PPAA is similar to that of methylphenidate three times daily. The metabolism of single and repeated once-daily doses of methylphenidate hydrochloride extended-release tablets is similar.

After oral dosing of radiolabeled methylphenidate in humans, about 90% of the radioactivity was recovered in urine. The main urinary metabolite was PPAA, accounting for approximately 80% of the dose.

**Food Effects**

In patients, there were no differences in either the pharmacokinetics or the pharmacodynamic performance of methylphenidate hydrochloride extended-release tablets when administered after a high-fat breakfast. There is no evidence of dose dumping in the presence or absence of food.

**Alcohol Effect**

*In-vitro* studies were conducted to explore the effect of alcohol on the release characteristics of methylphenidate from RELEXXII®. At alcohol concentrations up to 40%, there was no increased release of methylphenidate in the first two hours.

**Special Populations**

**Gender**

In healthy adults, the mean dose-adjusted $AUC_{(0-\text{inf})}$ values for methylphenidate hydrochloride extended-release tablets were 36.7 ng·h/mL in men and 37.1 ng·h/mL in women, with no differences noted between the two groups.

**Race**

In adults receiving methylphenidate hydrochloride extended-release tablets, dose-adjusted $AUC_{(0-\text{inf})}$ was consistent across ethnic groups; however, the sample size may have been insufficient to detect ethnic variations in pharmacokinetics.

**Age**

Increase in age resulted in increased apparent oral clearance (CL/F) (58% increase in adolescents compared to children). Some of these differences could be explained by body-weight differences among these populations. This suggests that subjects with higher body weight may have lower exposures of total methylphenidate at similar doses.

The pharmacokinetics of methylphenidate hydrochloride extended-release tablets have not been studied in children less than 6 years of age.

RELEXXII® has not been studied and is not recommended for children under 13 years of age, see *Patients New to Methylphenidate (2.2)*
Renal Insufficiency
There is no experience with the use of methylphenidate hydrochloride extended-release tablets 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 PPAA. Since renal clearance is not an important route of methylphenidate clearance, renal insufficiency is expected to have little effect on the pharmacokinetics of methylphenidate hydrochloride extended-release tablets.

Hepatic Insufficiency
There is no experience with the use of methylphenidate hydrochloride extended-release tablets in patients with hepatic insufficiency.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, and Impairment of Fertility

Carcinogenesis
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 methylphenidate hydrochloride extended-release tablets 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 methylphenidate hydrochloride extended-release tablets 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.

Mutagenesis
Methylphenidate was not mutagenic in the in vitro Ames reverse mutation assay or 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.

Impairment of Fertility
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 methylphenidate hydrochloride extended-release tablets on a mg/kg and mg/m² basis, respectively.

14 CLINICAL STUDIES
Methylphenidate hydrochloride extended-release tablets was demonstrated to be effective in the treatment of Attention Deficit Hyperactivity Disorder (ADHD) in 4 randomized, double-blind, placebo-controlled studies in children and adolescents and 2 double-blind placebo-controlled studies in adults who met the Diagnostic and Statistical Manual 4th edition (DSM-IV) criteria for ADHD.

14.1 Children
Three double-blind, active- and placebo-controlled studies were conducted in 416 children aged 6 to 12 years. The controlled studies compared methylphenidate hydrochloride extended-release tablets
given once daily (18, 36, or 54 mg), methylphenidate given three times daily over 12 hours (15, 30, or 45 mg total daily dose), and placebo in two single-center, 3-week crossover studies (Studies 1 and 2) and in a multicenter, 4-week, parallel-group comparison (Study 3). The primary comparison of interest in all three trials was methylphenidate hydrochloride extended-release tablets versus placebo.

Symptoms of ADHD were evaluated by community schoolteachers using the Inattention / Overactivity with Aggression (IOWA) Conners scale. Statistically significant reduction in the Inattention / Overactivity subscale versus placebo was shown consistently across all three controlled studies for methylphenidate hydrochloride extended-release tablets. The scores for methylphenidate hydrochloride extended-release tablets and placebo for the three studies are presented in Figure 2.

**Figure 2:** Mean Community School Teacher IOWA Conners Inattention/Overactivity Scores with methylphenidate hydrochloride extended-release tablets once daily (18, 36, or 54 mg) and placebo. Studies 1 and 2 involved a 3-way crossover of 1 week per treatment arm. Study 3 involved 4 weeks of parallel-group treatments with a Last Observation Carried Forward analysis at week 4. Error bars represent the mean plus standard error of the mean.

In Studies 1 and 2, symptoms of ADHD were evaluated by laboratory schoolteachers using the SKAMP laboratory school rating scale. The combined results from these two studies demonstrated statistically significant improvements in attention and behavior in patients treated with methylphenidate hydrochloride extended-release tablets versus placebo that were maintained through 12 hours after dosing. Figure 3 presents the laboratory schoolteacher SKAMP ratings for methylphenidate hydrochloride extended-release tablets and placebo.

**Figure 3:** Laboratory School Teacher SKAMP Ratings: Mean (SEM) of Combined Attention (Studies 1 and 2)
14.2 Adolescents

In a randomized, double-blind, multicenter, placebo-controlled trial (Study 4) involving 177 patients, methylphenidate hydrochloride extended-release tablets was demonstrated to be effective in the treatment of ADHD in adolescents aged 13 to 18 years at doses up to 72 mg/day (1.4 mg/kg/day). Of 220 patients who entered an open 4-week titration phase, 177 were titrated to an individualized dose (maximum of 72 mg/day) based on meeting specific improvement criteria on the ADHD Rating Scale and the Global Assessment of Effectiveness with acceptable tolerability. Patients who met these criteria were then randomized to receive either their individualized dose of methylphenidate hydrochloride extended-release tablets (18 – 72 mg/day, n=87) or placebo (n=90) during a two-week double-blind phase. At the end of this phase, mean scores for the investigator rating on the ADHD Rating Scale demonstrated methylphenidate hydrochloride extended-release tablets was statistically significantly superior to placebo.

14.3 Adults

Two double-blind, placebo-controlled studies were conducted in 627 adults aged 18 to 65 years. The controlled studies compared methylphenidate hydrochloride extended-release tablets administered once daily and placebo in a multicenter, parallel-group, 7-week dose-titration study (Study 5) (36 to 108 mg/day) and in a multicenter, parallel-group, 5-week, fixed-dose study (Study 6) (18, 36, and 72 mg/day).

Study 5 demonstrated the effectiveness of methylphenidate hydrochloride extended-release tablets in the treatment of ADHD in adults aged 18 to 65 years at doses from 36 mg/day to 108 mg/day based on the change from baseline to final study visit on the Adult ADHD Investigator Rating Scale (AISRS). Of 226 patients who entered the 7-week trial, 110 were randomized to methylphenidate hydrochloride extended-release tablets and 116 were randomized to placebo. Treatment was initiated at 36 mg/day and patients continued with incremental increases of 18 mg/day (36 to 108 mg/day) based on meeting specific improvement criteria with acceptable tolerability. At the final study visit, mean change scores (LS Mean, SEM) for the investigator rating on the AISRS demonstrated methylphenidate hydrochloride extended-release tablets was statistically significantly superior to placebo.

\[\text{Swanson, Kotkin, Agler, M-Fynn, and Pelham}\]
Study 6 was a multicenter, double-blind, randomized, placebo-controlled, parallel-group, dose-response study (5-week duration) with 3 fixed-dose groups (18, 36, and 72 mg). Patients were randomized to receive methylphenidate hydrochloride extended-release tablets administered at doses of 18 mg (n=101), 36 mg (n=102), 72 mg/day (n=102), or placebo (n=96). All three doses of methylphenidate hydrochloride extended-release tablets were statistically significantly more effective than placebo in improving CAARS (Conners’ Adult ADHD Rating Scale) total scores at double-blind end point in adult subjects with ADHD.

15 REFERENCES

16 HOW SUPPLIED/STORAGE AND HANDLING
RELEXXII® (methylphenidate hydrochloride extended-release tablets, USP) are available as 72 mg blue tablets with “TL710” imprinted in black ink.

The tablets are supplied:

- 72 mg 100-count bottle NDC 68025-084-10
- 72 mg 30-count bottle NDC 68025-084-30

Storage and Handling
Store at 25°C (77°F); excursions permitted to 15-30°C (59-86°F) [see USP Controlled Room Temperature]. Protect from humidity.

17 PATIENT COUNSELING INFORMATION
Advise the patient to read the FDA-approved patient labeling (Medication Guide).

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** [see Warnings and Precautions (5.4)].

Circulation Problems in Fingers and Toes [Peripheral Vasculopathy, including Raynaud’s Phenomenon]
Instruct patients beginning treatment with RELEXXII® 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 RELEXXII®.**

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

General Considerations
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 RELEXXII®. The prescriber or health professional should instruct patients, their families, and their caregivers to read the Medication Guide and should assist them in understanding its contents. Patients should be given the opportunity to discuss the contents of the Medication Guide and to obtain answers to any questions they may have.

Administration Instructions
Patients should be informed that RELEXXII® should be swallowed whole with the aid of liquids.
Tablets should not be chewed, divided, or crushed. The medication is contained within a nonabsorbable shell designed to release the drug at a controlled rate. The tablet shell, along with insoluble core components, is eliminated from the body; patients should not be concerned if they occasionally notice in their stool something that looks like a tablet.

Driving or Operating Heavy Machinery
Stimulants may impair the ability of the patient to operate potentially hazardous machinery or vehicles. Patients should be cautioned accordingly until they are reasonably certain that RELEXXII® does not adversely affect their ability to engage in such activities.

Vertical Pharmaceuticals, LLC
Bridgewater, NJ 08807

www.verticalpharma.com
1-877-482-3788
200301-01

Patent numbers:
US 9,855,258
US 9,827,234
US 9,707,217
US 10,265,308 B2

MEDICATION GUIDE
RELEXXII® ([RE-LEX-EE])
(methylphenidate hydrochloride) extended-release tablets, USP CII

Read the Medication Guide that comes with RELEXXII® 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 RELEXXII®.

What is the most important information I should know about RELEXXII®?
The following have been reported with use of methylphenidate HCl 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 has 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 RELEXXII®.
Your doctor should check your or your child's blood pressure and heart rate regularly during treatment with RELEXXII®.

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 RELEXXII®.
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 has any new or worsening mental symptoms or problems
while taking RELEXXII®, especially seeing or hearing things that are not real, believing things that are not
real, or are suspicious.

3. Painful and prolonged erections (priapism)
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.

4. 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 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 RELEXXII®.

What Is RELEXXII®?
RELEXXII® is a central nervous system stimulant prescription medicine. It is used for the treatment
of attention deficit and hyperactivity disorder (ADHD). RELEXXII® may help increase attention
and decrease impulsiveness and hyperactivity in patients with ADHD.

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

RELEXXII® is a federally controlled substance (CII) because it can be abused or lead to dependence.
Keep RELEXXII® in a safe place to prevent misuse and abuse. Selling or giving away RELEXXII® 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 RELEXXII®?
RELEXXII® should not be taken if you or your child:
• is 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.
• is taking or have taken within the past 14 days an antidepressation medicine called a monoamine
  oxidase inhibitor or MAOI.
• is allergic to anything in RELEXXII®. See the end of this Medication Guide for a complete list of
  ingredients.

RELEXXII® should not be used in children less than 13 years old because it has not been studied in this
age group.
RELEXXII® may not be right for you or your child. Before starting RELEXXII®, tell your or your child's doctor about all health conditions (or a family history of) including:

- heart problems, heart defects, or 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 problems in fingers and toes
- esophagus, stomach, or small or large intestine problems

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

Can RELEXXII® 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. RELEXXII® 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 RELEXXII®.

Your doctor will decide whether RELEXXII® can be taken with other medicines.

Especially tell your doctor if you or your child takes:

- antidepressant 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 RELEXXII® without talking to your doctor first.

How should RELEXXII® be taken?

- Take RELEXXII® exactly as prescribed. Your doctor may adjust the dose until it is right for you or your child.
- Do not chew, crush, or divide the tablets. Swallow RELEXXII® whole with water or other liquids. Tell your doctor if you or your child cannot swallow RELEXXII® whole. A different medicine may need to be prescribed.
- RELEXXII® can be taken with or without food.
- Take RELEXXII® once each day in the morning. RELEXXII® is an extended-release tablet. It releases medication into your or your child's body throughout the day.
- The RELEXXII® does not dissolve completely in the body after all the medicine has been released. You or your child may sometimes notice the empty tablet in a bowel movement. This is normal.
- From time to time, your doctor may stop RELEXXII® treatment for a while to check ADHD symptoms.
- Your doctor may do regular checks of the blood, heart, and blood pressure while taking RELEXXII®. Children should have their height and weight checked often while taking RELEXXII®. RELEXXII® treatment may be stopped if a problem is found during these check-ups.
- If you or your child takes too much RELEXXII® or overdoses, call your doctor or poison control center right away, or get emergency treatment.

What are possible side effects of RELEXXII®?

See "What is the most important information I should know about RELEXXII®?" 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
• blockage of the esophagus, stomach, small or large intestine in patients who already have a narrowing in any of these organs

Common side effects include:

- decrease appetite
- dry mouth
- trouble sleeping
- dizziness
- stomach ache
- increased sweating
- headache
- nausea
- anxiety
- weight loss
- irritability

Stimulants may impair the ability of you or your child to operate potentially hazardous machinery or vehicles. You or your child should exercise caution until you or your child is reasonably certain that RELEXXII® does not adversely affect your or your child's ability to engage in such activities.

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.

You may also report side effects to Vertical Pharmaceuticals, LLC at 1-877-482-3788.

How should I store RELEXXII®?

Store RELEXXII® in a safe place at room temperature, 59 to 86°F (15 to 30°C). Protect from moisture.

- Keep RELEXXII® and all medicines out of the reach of children.

General information about RELEXXII®

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. Do not use RELEXXII® for a condition for which it was not prescribed. Do not give RELEXXII® 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 RELEXXII®, if you would like more information, talk with your doctor. You can ask your doctor or pharmacist for information about RELEXXII® that was written for healthcare professionals. For more information about RELEXXII® call 1-877-482-3788.

What are the ingredients in RELEXXII®?

Active Ingredient: methylphenidate HCl

Inactive Ingredients: black iron oxide, cellulose acetate, colloidal silicon dioxide, ferrosferric oxide, hypromellose, lactose monohydrate, magnesium stearate, phosphoric acid, polyethylene glycol, polyethylene oxide, sodium chloride, succinic acid, titanium dioxide, triacetin, and FD&C Blue #1 Aluminum Lake.

This Medication Guide has been approved by the U.S. Food and Drug Administration.
RELEXXII® 72 mg 100 count Bottle Label
NDC 68025-084-10

Each tablet contains: 72 mg methylphenidate hydrochloride, USP
Usual Dosage: See accompanying prescribing information.
Store at 20°C to 25°C (68°F to 77°F).
[See USP Controlled Room Temperature.] Protect from moisture and humidity.
Dispense in tight containers (USP).
Keep out of reach of children.

RELEXXII® 72 mg 30 count Bottle Label
NDC 68025-084-30

Each tablet contains: 72 mg methylphenidate hydrochloride, USP
Usual Dosage: See accompanying prescribing information.
Store at 20°C to 25°C (68°F to 77°F).
[See USP Controlled Room Temperature.] Protect from moisture and humidity.
Dispense in tight containers (USP).
Keep out of reach of children.

RELEXXII methylphenidate hydrochloride tablet, extended release

Product Information

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Active Ingredient/Active Moiety
### Ingredient Name

- **METHYLPHENIDATE HYDROCHLORIDE** (UNII: 4B3SC438Hi) (METHYLPHENIDATE - METHYLPHENIDATE HYDROCHLORIDE) 72 mg

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**Labeler** - Vertical Pharmaceuticals, LLC (173169017)