

HIGHLIGHTS OF PRESCRIBING INFORMATION
These highlights do not include all the information needed to use RISPERIDONE ORALLY DISINTEGRATING TABLETS safely and effectively. See full prescribing information for RISPERIDONE ORALLY DISINTEGRATING TABLETS.
Risperidone orally disintegrating tablets
Initial U.S. Approval: 1993

WARNING: INCREASED MORTALITY IN ELDERLY PATIENTS WITH DEMENTIA-RELATED PSYCHOSIS
See full prescribing information for complete boxed warning.
Elderly patients with dementia-related psychosis treated with antipsychotic drugs are at an increased risk of death.
Risperidone is not approved for use in patients with dementia-related psychosis. (5.1)
RECENT MAJOR CHANGES
Warnings and Precautions (5.8) 02/2017
Indications and Usage (2) 02/2017
Doseage and Administration (2.1) 02/2017
Clinical Pharmacology (12.1) 02/2017
Nonclinical Toxicology (13.1) 02/2017
Clinical Studies (14.1) 02/2017
Adverse Reactions (6.1) 02/2017
Other information (16.1) 02/2017
Other information (16.2) 02/2017

INDICATIONS AND USAGE
Risperidone is an atypical antipsychotic indicated for:
• Treatment of schizophrenia (1.1)
• As monotherapy or adjunctive therapy with lithium or valproate, for the treatment of acute manic or mixed episodes associated with Bipolar I Disorder (1.2)
• Treatment of irritability associated with autistic disorder (1.3)
DOSEAGE AND ADMINISTRATION
2.1 Recommended Daily Dosage
Table 1. Recommended Daily Dosage by Indication

Initial Dose	Titration Increments	Target Dose	Effective Dose Range
Schizophrenia: adults (2.1)	2 mg	4 to 8 mg	4 to 16 mg
Schizophrenia: adolescents (2.1)	0.5 mg	3 mg	1 to 6 mg
Bipolar mania: adults (2.2)	2 to 3 mg	1 to 6 mg	1 to 6 mg
Bipolar mania: children and adolescents (2.2)	0.5 mg	1 to 2.5 mg	1 to 6 mg

CONTRAINDICATIONS
Known hypersensitivity to risperidone, paliperidone, or to any excipients in risperidone. (4)
WARNINGS AND PRECAUTIONS
Cerebrovascular events, including stroke, in elderly patients with dementia-related psychosis: Risperidone is not approved for use in patients with dementia-related psychosis. (5.2)
Neuroleptic Malignant Syndrome: Manage with immediate discontinuation of risperidone and close monitoring. (5.3)
Tardive Dyskinesia: Consider discontinuing risperidone if clinically indicated. (5.4)
Metabolic Changes: Atypical antipsychotic drugs have been associated with metabolic changes that may increase cardiovascular/cerebrovascular risk. These metabolic changes include hyperglycemia, dyslipidemia, and weight gain. (5.5)

USE IN SPECIFIC POPULATIONS
Pregnancy: Based on animal data, may cause fetal harm. (8.1)
Nursing Mothers: Discontinue drug or nursing, taking into consideration the importance of drug to the mother. (8.3)
See 17 for PATIENT COUNSELING INFORMATION

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WARNING: INCREASED MORTALITY IN ELDERLY PATIENTS WITH DEMENTIA-RELATED PSYCHOSIS
Elderly patients with dementia-related psychosis treated with antipsychotic drugs are at an increased risk of death. Risperidone is not approved for the treatment of patients with dementia-related psychosis. (See Warnings and Precautions (5.1))
INDICATIONS AND USAGE
1.1 Schizophrenia
Risperidone is indicated for the treatment of schizophrenia. Efficacy was established in a short-term trial in adults, a 2-short-term trials in adolescents (ages 13 to 17 years), and one long-term maintenance trial in adults. (See Clinical Studies (14.1)).
1.2 Bipolar Mania
Risperidone is indicated for the treatment of acute manic or mixed episodes associated with Bipolar I Disorder. Efficacy was established in 2 short-term trials in adults and one short-term Adjunctive Therapy.
Risperidone adjunctive therapy with lithium or valproate is indicated for the treatment of acute manic or mixed episodes associated with Bipolar I Disorder. Efficacy was established in one short-term trial in adults. (See Clinical Studies (14.3)).
1.3 Irritability Associated with Autistic Disorder
Risperidone is indicated for the treatment of irritability associated with autistic disorder, including symptoms of aggression towards others, deliberate self-harm, temper tantrums, and quickly changing moods. Efficacy was established in 3 short-term trials in children and adolescents (ages 5 to 17 years). (See Clinical Studies (14.4)).
DOSEAGE AND ADMINISTRATION
Table 1. Recommended Daily Dosage by Indication

Initial Dose	Titration Increments	Target Dose	Effective Dose Range
Schizophrenia: adults (2.1)	2 mg	4 to 8 mg	4 to 16 mg
Schizophrenia: adolescents (2.1)	0.5 mg	3 mg	1 to 6 mg
Bipolar mania: adults (2.2)	2 to 3 mg	1 to 6 mg	1 to 6 mg
Bipolar mania: children and adolescents (2.2)	0.5 mg	1 to 2.5 mg	1 to 6 mg

CONTRAINDICATIONS
Known hypersensitivity to risperidone, paliperidone, or to any excipients in risperidone. (4)
WARNINGS AND PRECAUTIONS
Cerebrovascular events, including stroke, in elderly patients with dementia-related psychosis: Risperidone is not approved for use in patients with dementia-related psychosis. (5.2)
Neuroleptic Malignant Syndrome: Manage with immediate discontinuation of risperidone and close monitoring. (5.3)
Tardive Dyskinesia: Consider discontinuing risperidone if clinically indicated. (5.4)
Metabolic Changes: Atypical antipsychotic drugs have been associated with metabolic changes that may increase cardiovascular/cerebrovascular risk. These metabolic changes include hyperglycemia, dyslipidemia, and weight gain. (5.5)
USE IN SPECIFIC POPULATIONS
Pregnancy: Based on animal data, may cause fetal harm. (8.1)
Nursing Mothers: Discontinue drug or nursing, taking into consideration the importance of drug to the mother. (8.3)
See 17 for PATIENT COUNSELING INFORMATION

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WARNING: INCREASED MORTALITY IN ELDERLY PATIENTS WITH DEMENTIA-RELATED PSYCHOSIS
Elderly patients with dementia-related psychosis treated with antipsychotic drugs are at an increased risk of death. Risperidone is not approved for the treatment of patients with dementia-related psychosis. (See Warnings and Precautions (5.1))
INDICATIONS AND USAGE
1.1 Schizophrenia
Risperidone is indicated for the treatment of schizophrenia. Efficacy was established in a short-term trial in adults, a 2-short-term trials in adolescents (ages 13 to 17 years), and one long-term maintenance trial in adults. (See Clinical Studies (14.1)).
1.2 Bipolar Mania
Risperidone is indicated for the treatment of acute manic or mixed episodes associated with Bipolar I Disorder. Efficacy was established in 2 short-term trials in adults and one short-term Adjunctive Therapy.
Risperidone adjunctive therapy with lithium or valproate is indicated for the treatment of acute manic or mixed episodes associated with Bipolar I Disorder. Efficacy was established in one short-term trial in adults. (See Clinical Studies (14.3)).
1.3 Irritability Associated with Autistic Disorder
Risperidone is indicated for the treatment of irritability associated with autistic disorder, including symptoms of aggression towards others, deliberate self-harm, temper tantrums, and quickly changing moods. Efficacy was established in 3 short-term trials in children and adolescents (ages 5 to 17 years). (See Clinical Studies (14.4)).
DOSEAGE AND ADMINISTRATION
Table 1. Recommended Daily Dosage by Indication

Initial Dose	Titration Increments	Target Dose	Effective Dose Range
Schizophrenia: adults (2.1)	2 mg	4 to 8 mg	4 to 16 mg
Schizophrenia: adolescents (2.1)	0.5 mg	3 mg	1 to 6 mg
Bipolar mania: adults (2.2)	2 to 3 mg	1 to 6 mg	1 to 6 mg
Bipolar mania: children and adolescents (2.2)	0.5 mg	1 to 2.5 mg	1 to 6 mg

Severe Renal or Hepatic Impairment in Adults: Use a lower starting dose of 0.5 mg twice daily. May increase to dosages above 1.5 mg twice daily at intervals of at least one week or longer.

2.1 Schizophrenia
Usual Initial Dose
Risperidone can be administered once or twice daily. Initial dosing is 2 mg per day. May increase

the dose at intervals of 24 hours or greater, in increments of 1 to 2 mg per day, as tolerated, to a recommended dose of 4 to 8 mg per day. In some patients, slower titration may be appropriate. Efficacy was also demonstrated in a range of 4 mg to 16 mg per day. However, doses above 6 mg per day for twice daily dosing were not demonstrated to be more efficacious than lower doses, were associated with more extrapyramidal symptoms and other adverse effects, and are generally not recommended. In a single study supporting once-daily dosing, the efficacy results were associated with more adverse events. Doses higher than 6 mg per day have not been studied. Patients experiencing persistent somnolence may benefit from administering half the daily dose twice daily.

Maintenance Therapy
While it is unknown how long a patient with schizophrenia should remain on risperidone, the effectiveness of long-term use of risperidone, the safety of a 24-hour dosing regimen was demonstrated in a controlled trial in adult patients who had been clinically stable for at least 4 weeks and were then followed for a period of 1 to 2 years (see Clinical Studies (14.1)). Both adult and adolescent patients who respond acutely should generally be maintained on their effective dose beyond the initial response. Patients should be periodically reassessed to determine the need for maintenance treatment.

Reinitiation of Therapy in Patients Previously Discontinued
Although there are no data to specifically address reinitiation of treatment, it is recommended that patients who are discontinued from risperidone, the initial titration schedule should be followed.
Switching From Other Antipsychotics
There are no systematically collected data to specifically address switching schizophrenic patients from other antipsychotics to risperidone, or treating patients with concomitant antipsychotics.

2.2 Bipolar Mania
Usual Dose
The initial dose range is 2 mg to 3 mg per day. The dose may be adjusted at intervals of 24 hours or greater, in increments of 1 mg per day. The effective dose range is 1 mg to 6 mg per day, as studied in the short-term, placebo-controlled trials. In these trials, short-term (3 week) maintenance studies in flexible-dose studies such as carbamazepine are discontinued (see Clinical Studies (14.2, 14.3)). Risperidone doses higher than 6 mg per day were not studied.
Pediatrics
The initial dose is 0.5 mg once daily, administered as a single-daily dose in the morning or evening. The dose may be adjusted at intervals of 24 hours or greater, in increments of 0.5 mg or 1 mg per day, as tolerated, to the recommended target dose of 1 mg to 3 mg per day. Although efficacy has been demonstrated in studies of pediatric patients with bipolar mania at doses between 0.5 mg and 6 mg per day, no additional benefit was observed above 2.5 mg per day antipsychotic use and adverse effects associated with more adverse events. Doses higher than 6 mg per day have not been studied.

Maintenance Therapy
While it is unknown how long a patient with schizophrenia should remain on risperidone, the effectiveness of long-term use of risperidone, the safety of a 24-hour dosing regimen was demonstrated in a controlled trial in adult patients who had been clinically stable for at least 4 weeks and were then followed for a period of 1 to 2 years (see Clinical Studies (14.1)). Both adult and adolescent patients who respond acutely should generally be maintained on their effective dose beyond the initial response. Patients should be periodically reassessed to determine the need for maintenance treatment.

Reinitiation of Therapy in Patients Previously Discontinued
Although there are no data to specifically address reinitiation of treatment, it is recommended that patients who are discontinued from risperidone, the initial titration schedule should be followed.
Switching From Other Antipsychotics
There are no systematically collected data to specifically address switching schizophrenic patients from other antipsychotics to risperidone, or treating patients with concomitant antipsychotics.

2.3 Irritability Associated with Autistic Disorder – Pediatrics (Children and Adolescents)
Usual Dose
The initial dose range is 2 mg to 3 mg per day. The dose may be adjusted at intervals of 24 hours or greater, in increments of 1 mg per day. The effective dose range is 1 mg to 6 mg per day, as studied in the short-term, placebo-controlled trials. In these trials, short-term (3 week) maintenance studies in flexible-dose studies such as carbamazepine are discontinued (see Clinical Studies (14.2, 14.3)). Risperidone doses higher than 6 mg per day were not studied.
Pediatrics
The initial dose is 0.5 mg once daily, administered as a single-daily dose in the morning or evening. The dose may be adjusted at intervals of 24 hours or greater, in increments of 0.5 mg or 1 mg per day, as tolerated, to the recommended target dose of 1 mg to 3 mg per day. Although efficacy has been demonstrated in studies of pediatric patients with bipolar mania at doses between 0.5 mg and 6 mg per day, no additional benefit was observed above 2.5 mg per day antipsychotic use and adverse effects associated with more adverse events. Doses higher than 6 mg per day have not been studied.

Maintenance Therapy
While it is unknown how long a patient with schizophrenia should remain on risperidone, the effectiveness of long-term use of risperidone, the safety of a 24-hour dosing regimen was demonstrated in a controlled trial in adult patients who had been clinically stable for at least 4 weeks and were then followed for a period of 1 to 2 years (see Clinical Studies (14.1)). Both adult and adolescent patients who respond acutely should generally be maintained on their effective dose beyond the initial response. Patients should be periodically reassessed to determine the need for maintenance treatment.

Reinitiation of Therapy in Patients Previously Discontinued
Although there are no data to specifically address reinitiation of treatment, it is recommended that patients who are discontinued from risperidone, the initial titration schedule should be followed.
Switching From Other Antipsychotics
There are no systematically collected data to specifically address switching schizophrenic patients from other antipsychotics to risperidone, or treating patients with concomitant antipsychotics.

2.4 Dosing in Patients with Severe Renal or Hepatic Impairment
Patients with severe renal impairment (CL_{CR} <30 mL/min) or hepatic impairment (10–15 points on Child Pugh System), the initial starting dose is 0.5 mg twice daily. The dose may be increased in increments of 0.5 mg or less, administered twice daily. For doses above 1.5 mg twice daily, increase in intervals of one week or greater (see Use in Specific Populations (8.6 and 8.7)).
2.5 Dose Adjustments for Specific Drug Interactions
When risperidone is co-administered with enzyme inducers (e.g., carbamazepine), the dose of risperidone should be increased up to double the patient's usual dose. It may be necessary to increase the risperidone dose when enzyme inducers such as carbamazepine are discontinued (see Drug Interactions (7.1)). Similar effect may be expected with co-administration of risperidone with other enzyme inducers (e.g., phenytoin, rifampin, and phenobarbital). When fluoxetine or paroxetine is co-administered with risperidone, the dose of risperidone should be reduced. The risperidone dose should not exceed 8 mg per day in adults when co-administered with these drugs. When initiating therapy, risperidone should be titrated slowly. It may be necessary to increase the risperidone dose when enzyme inhibitors such as fluoxetine or paroxetine are discontinued (see Drug Interactions (7.1)).

3.1 Dosage for Use of Risperidone Orally Disintegrating Tablets
Tablet Accessing
Risperidone Orally Disintegrating Tablets 0.5 mg and 1 mg
Risperidone Orally Disintegrating Tablets 0.5 mg and 1 mg are supplied both in blister packs of 4 and blister packs of 10 tablets.
Do not open the blister until ready to administer. For single tablet removal, separate one of the four blister units by tearing apart at the perforations. DO NOT push the tablet through the foil because this could damage the tablet. Peel back at pull tab to expose the tablet.
Risperidone Orally Disintegrating Tablets 2 mg, 3 mg and 4 mg
Risperidone Orally Disintegrating Tablets 2 mg, 3 mg and 4 mg are supplied in blister pack of 4 tablets each.
Do not open the blister until ready to administer. For single tablet removal, separate one of the four blister units by tearing apart at the perforations. DO NOT push the tablet through the foil, because this could damage the tablet. Peel back at pull tab to expose the tablet.

3.2 Dosage Forms and Strengths
Risperidone Orally Disintegrating Tablets USP are available in the following strengths and colors: 0.5 mg (yellow), 1 mg (white), 2 mg (orange), and 3 mg (pink). All are flat, oval, film coated bevelled tablets and debossed on one side (“R” and the other side “01”, “02”, “03”, “04”, or “05” according to their respective strengths.
4. CONTRAINDICATIONS
Known hypersensitivity to risperidone, paliperidone, or to any excipients in risperidone. (4)
5. WARNINGS AND PRECAUTIONS
5.1 Increased Mortality in Elderly Patients with Dementia-Related Psychosis
Elderly patients with dementia-related psychosis treated with antipsychotic drugs are at an increased risk of death. Analyses of 17 placebo-controlled trials of duration 10 weeks or longer in elderly patients taking atypical antipsychotic drugs, revealed a risk of death in drug-treated patients between 1.6 to 1.7 times the risk of death in placebo-treated patients. Over the course of a typical 10-week controlled trial, the rate of death in drug-treated patients was about 4.5%, compared to a rate of about 2.8% in the placebo group. Although the causes of death were varied, most of the deaths appeared to be either cardiovascular (e.g., heart failure, sudden death) or infectious (e.g., pneumonia) in nature. Observational studies suggest that, similar to atypical antipsychotic drugs, treatment with atypical antipsychotic drugs is associated with increased mortality. The extent to which the findings of increased mortality in observational studies may be attributed to the antipsychotic drug as opposed to some characteristic(s) of the patients is not clear.
In two of four placebo-controlled trials in elderly patients with dementia-related psychosis, an increased incidence of mortality was observed in patients treated with risperidone plus risperidone when compared to patients treated with risperidone alone or with placebo plus risperidone. No pathological mechanism has been identified to explain this finding, and no consistent pattern for cause of death was observed.
Risperidone is not approved for the treatment of dementia-related psychosis (see Boxed Warning).

5.2 Cerebrovascular Adverse Reactions, Including Stroke, in Elderly Patients with Dementia-Related Psychosis
Cerebrovascular adverse reactions (e.g., stroke, transient ischemic attack), including fatalities, were reported in patients (mean age 85 years; range 73-93) in trials of risperidone in elderly patients with dementia-related psychosis. There was a statistically significant increase in higher incidence of cerebrovascular adverse events in patients treated with risperidone compared to patients treated with placebo. Risperidone is not approved for the treatment of patients with dementia-related psychosis. (See Boxed Warning and Warnings and Precautions (5.1))
5.3 Neuroleptic Malignant Syndrome
Antipsychotic drugs including risperidone can cause a potentially fatal symptom complex referred to as Neuroleptic Malignant Syndrome (NMS). Clinical manifestations of NMS include hyperreflexia, muscle rigidity, altered mental status, and autonomic instability (irregular pulse or blood pressure, tachycardia, diaphoresis, and cardiac dysrhythmia). Additional signs may include elevated creatine phosphokinase (CPK), myoglobinuria, rhabdomyolysis, and acute renal failure.
The diagnostic evaluation of patients with this syndrome is complicated. In arriving at a diagnosis, it is important to identify cases in which the clinical presentation includes both serious medical illness (e.g., pneumonia, septicemia, infection, etc.) and untreated or inadequately treated extrapyramidal signs and symptoms (EPS). Other important considerations in the differential diagnosis include central anticholinergic toxicity, heat stroke, drug fever, and primary central nervous system pathology.
The management of NMS should include: (1) immediate discontinuation of antipsychotic drugs and other drugs not essential to concurrent therapy; (2) intensive symptomatic treatment and medical monitoring; and (3) treatment of any concomitant serious medical problems for which specific treatments are available. There is no general agreement about specific pharmacological treatment regimens for uncomplicated NMS.
If a patient requires antipsychotic drug treatment after recovery from NMS, the potential reintroduction of drug therapy should be carefully considered. The patient should be carefully monitored, since recurrences of NMS have been reported.

5.4 Tardive Dyskinesia
A syndrome of potentially irreversible, involuntary, dyskinetic movements may develop in patients treated with antipsychotic drugs. The risk of developing tardive dyskinesia and the likelihood that it will become irreversible are believed to increase as the duration of treatment and the total cumulative dose of antipsychotic drugs administered to the patient increase. However, the syndrome can develop, although much less commonly, after relatively brief treatment periods at low doses.
It is not known treatment for established cases of tardive dyskinesia, although the syndrome may remit, partially or completely, if antipsychotic treatment is withdrawn. Antipsychotic treatment, itself, however, may suppress (or partially suppress) the signs and symptoms of the syndrome and thereby may possibly mask the underlying process. The effect that symptomatic suppression has upon the long-term course of the syndrome is unknown.
Given these considerations, prescribe risperidone in a manner that is most likely to minimize the occurrence of tardive dyskinesia. Chronic antipsychotic treatment should generally be reserved for patients who suffer from a chronic illness that: (1) is known to respond to antipsychotic drugs, and (2) for whom alternative, equally effective, but potentially less harmful treatments are not available or appropriate. In patients who do require chronic treatment, the smallest dose and the shortest duration of treatment producing a satisfactory clinical response should be sought. The need for continued treatment should be reassessed periodically.
If signs and symptoms of tardive dyskinesia appear in a patient treated with risperidone, consider drug discontinuation. However, some patients may require treatment with risperidone despite the presence of the syndrome.

5.5 Metabolic Changes
Atypical antipsychotic drugs have been associated with metabolic changes that may increase cardiovascular/cerebrovascular risk. These metabolic changes include hyperglycemia, dyslipidemia, and weight gain. While all of the drugs in the class have been shown to reduce these metabolic changes, each drug has its own specific risk profile.
Hyperglycemia and Diabetes Mellitus
Hyperglycemia and diabetes mellitus, in some cases extreme and associated with ketoacidosis or hyperosmolar coma or death, have been reported in patients treated with atypical antipsychotics including risperidone. Assessment of the relationship between atypical antipsychotic use and hyperglycemia-related events is complicated by the increased background risk of diabetes mellitus in patients with schizophrenia and the increasing incidence of diabetes mellitus in the general population. Given these confounders, the relationship between atypical antipsychotic use and hyperglycemia-related events is not completely understood. However, epidemiological studies suggest an increased risk of treatment-emergent hyperglycemia-related adverse events in patients treated with the atypical antipsychotics. Patients with an established diagnosis of diabetes mellitus who are started on atypical antipsychotics, including risperidone, should be monitored regularly for worsening of glucose control. Patients with risk factors for diabetes mellitus (e.g., obesity, family history of diabetes) who are starting treatment with atypical antipsychotics, including risperidone, should undergo fasting blood glucose testing at the beginning of treatment and periodically during treatment. Any patient treated with atypical antipsychotics, including risperidone, should be monitored for signs and symptoms of hyperglycemia, including increased thirst, polydipsia, polyuria, weakness, patients who develop symptoms of hyperglycemia during treatment with atypical antipsychotics, including risperidone, should undergo fasting blood glucose testing. In some cases, hyperglycemia has resolved when the atypical antipsychotic, including risperidone, was discontinued, however, some patients required continuation of anti-diabetic treatment despite discontinuation of risperidone.
Pooled data from three double-blind, placebo-controlled schizophrenia studies and four double-blind, placebo-controlled bipolar monotherapy studies are presented in Table 2.

Table 2. Change in Random Glucose From Seven Placebo-Controlled, 3- to 6-Week, Fixed-Dose Studies in Children and Adolescents with Schizophrenia or Bipolar Mania

	Risperidone		Placebo	
	Mean change from baseline (mg/dL)	95% CI	Mean change from baseline (mg/dL)	95% CI
Serum Glucose	-1.5	0.8	0.6	0.6
Proportion of patients with shifts				
Serum Glucose	0.6%	0.4%	0%	0%
($<$ 100 mg/dL to \geq 200 mg/dL)	(3/252)	(2/202)	(0/198)	(0/198)

In longer-term, controlled and uncontrolled studies, risperidone was associated with a mean change in fasting glucose of +2.8 mg/dL at Week 24 (n=151) and +4.1 mg/dL (n=50). Data from the placebo-controlled 3- to 6-week study in children and adolescents with schizophrenia (13-17 years of age), bipolar mania (10-17 years of age), or autistic disorder (5 to 17 years of age) are presented in Table 3.
Table 3. Change in Fasting Glucose From Three Placebo-Controlled, 3- to 6-Week, Fixed-Dose Studies in Children and Adolescents with Schizophrenia (13-17 Years of Age), Bipolar Mania (10-17 Years of Age), or Autistic Disorder (5 to 17 Years of Age)

	Risperidone		Placebo	
	Mean change from baseline (mg/dL)	95% CI	Mean change from baseline (mg/dL)	95% CI
Serum Glucose	-1.7	-1.2	1.3	2.8
Proportion of patients with shifts				
Serum Glucose	0%	0.8%	0%	0%
($<$ 100 mg/dL to \geq 126 mg/dL)	(0/64)	(4/120)	(0/120)	(0/120)

In longer-term, uncontrolled, open-label extension pediatric studies, risperidone was associated with a mean change in fasting glucose of +5.2 mg/dL at Week 24 (n=119).
Diabetes Mellitus
Undesirable alterations in lipids have been observed in patients treated with atypical antipsychotics.
Pooled data from 7 placebo-controlled, 3- to 6-week, fixed- or flexible-dose studies in adult subjects with schizophrenia or bipolar mania are presented in Table 4.

Table 4. Change in Random Lipids from Seven Placebo-Controlled, 3- to 6-Week, Fixed- or Flexible-Dose Studies in Adult Subjects with Schizophrenia or Bipolar Mania

	Risperidone		
	Mean change from baseline (mg/dL)	n=742	n=156
Cholesterol	0.6	6.9	1.8
Change from baseline			
Triglycerides	-1.83	-3.9	-1.23
Change from baseline			
Cholesterol	2.7%	4.3%	6.3%
($<$ 200 mg/dL to \geq 240 mg/dL)	(10/368)	(22/156)	(6/96)
Triglycerides	1.1%	2.7%	2.5%
($<$ 500 mg/dL to \geq 500 mg/dL)	(2/180)	(8/301)	(3/121)

Proportion of patients with shifts

Cholesterol 2.4% (1/42) 3.8% (3/80)
LDL ($<$ 100 mg/dL to \geq 200 mg/dL) 0% (0/16) 0% (0/16)
HDL ($>$ 40 mg/dL to $<$ 40 mg/dL) 0% (0/19) 0% (0/20)
Triglycerides 1.5% (1/65) 7.1% (8/113)
Change from baseline -9.0 -2.6

In longer-term, uncontrolled, open-label extension pediatric studies, risperidone was associated with a mean change in weight of +5.5 kg at Week 24 (n=748) and +8.0 kg at Week 48 (n=242).

Data on mean changes in body weight and the proportion of subjects meeting a weight gain criterion of 7% or greater from nine placebo-controlled, 3- to 6-week, fixed-dose studies in children and adolescents with schizophrenia (13-17 years of age), bipolar mania (10-17 years of age), autistic disorder (5-17 years of age), or other psychiatric disorders (5-17 years of age) are presented in Table 7.

Table 7. Mean Change in Body Weight (kg) and the Proportion of Subjects with 27% Gain in Body Weight From Nine Placebo-Controlled, 3- to 6-Week, Fixed-Dose Studies in Children and Adolescents with Schizophrenia (13-17 Years of Age), Bipolar Mania (10-17 Years of Age), Autistic Disorder (5 to 17 Years of Age), or Other Psychiatric Disorders (5-17 Years of Age)

	Risperidone		
	Mean change from baseline (mg/dL)	n=742	n=156
Cholesterol	0.6	6.9	1.8
Change from baseline			
Triglycerides	-1.83	-3.9	-1.23
Change from baseline			
Cholesterol	2.7%	4.3%	6.3%
($<$ 200 mg/dL to \geq 240 mg/dL)	(10/368)	(22/156)	(6/96)
Triglycerides	1.1%	2.7%	2.5%
($<$ 500 mg/dL to \geq 500 mg/dL)	(2/180)	(8/301)	(3/121)

Proportion of patients with shifts

Cholesterol 2.4% (1/42) 3.8% (3/80)
LDL ($<$ 100 mg/dL to \geq 200 mg/dL) 0% (0/16) 0% (0/16)
HDL ($>$ 40 mg/dL to $<$ 40 mg/dL) 0% (0/19) 0% (0/20)
Triglycerides 1.5% (1/65) 7.1% (8/113)
Change from baseline -9.0 -2.6

In longer-term, uncontrolled, open-label extension pediatric studies, risperidone was associated with a mean change in weight of +4.3 kg at Week 24 (n=395) and +5.3 kg at Week 48 (n=203).

Data on mean changes in body weight and the proportion of subjects meeting the criteria of 27% or greater from nine placebo-controlled, 3- to 6-week, fixed-dose studies in children and adolescents with schizophrenia (13-17 years of age), bipolar mania (10-17 years of age), autistic disorder (5-17 years of age), or other psychiatric disorders (5-17 years of age) are presented in Table 7.

Table 7. Mean Change in Body Weight (kg) and the Proportion of Subjects with 27% Gain in Body Weight From Nine Placebo-Controlled, 3- to 6-Week, Fixed-Dose Studies in Children and Adolescents with Schizophrenia (13-17 Years of Age), Bipolar Mania (10-17 Years of Age), Autistic Disorder (5 to 17 Years of Age), or Other Psychiatric Disorders (5-17 Years of Age)

	Risperidone		
	Mean change from baseline (mg/dL)	n=742	n=156
Cholesterol	0.6	6.9	1.8
Change from baseline			
Triglycerides	-1.83	-3.9	-1.23
Change from baseline			
Cholesterol	2.7%	4.3%	6.3%
($<$ 200 mg/dL to \geq 240 mg/dL)	(10/368)	(22/156)	(6/96)
Triglycerides	1.1%	2.7%	2.5%
($<$ 500 mg/dL to \geq 500 mg/dL)	(2/180)	(8/301)	(3/121)

Proportion of patients with shifts

Cholesterol 2.4% (1/42) 3.8% (3/80)
LDL ($<$ 100 mg/dL to \geq 200 mg/dL) 0% (0/16) 0% (0/16)
HDL ($>$ 40 mg/dL to $<$ 40 mg/dL) 0% (0/19) 0% (0/20)
Triglycerides 1.5% (1/65) 7.1% (8/113)
Change from baseline -9.0 -2.6

In longer-term, uncontrolled, open-label extension pediatric studies, risperidone was associated with a mean change in weight of +4.3 kg at Week 24 (n=395) and +5.3 kg at Week 48 (n=203).

Data on mean changes in body weight and the proportion of subjects meeting the criteria of 27% or greater from nine placebo-controlled, 3- to 6-week, fixed-dose studies in children and adolescents with schizophrenia (13-17 years of age), bipolar mania (10-17 years of age), autistic disorder (5-17 years of age), or other psychiatric disorders (5-17 years of age) are presented in Table 7.

Table 7. Mean Change in Body Weight (kg) and the Proportion of Subjects with 27% Gain in Body Weight From Nine Placebo-Controlled, 3- to 6-Week, Fixed-Dose Studies in Children and Adolescents with Schizophrenia (13-17 Years of Age), Bipolar Mania (10-17 Years of Age), Autistic Disorder (5 to 17 Years of Age), or Other Psychiatric Disorders (5-17 Years of Age)

	Risperidone		
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Blood and Lymphatic System Disorders: anemia, granulocytopenia, neutropenia
 Cardiac Disorders: sinus bradycardia, sinus tachycardia, atrioventricular block first degree, bundle branch block left, bundle branch block right, atrioventricular block
 Endocrine Disorders: hypothyroidism, diabetes mellitus, hyperparathyroidism
 Eye Disorders: ocular hyperemia, eye discharge, conjunctivitis, eye rolling, eyelid edema, eye swelling, eyelid margin crusting, dry eye, lacrimation increased, photophobia, glaucoma, visual acuity reduced
 Gastrointestinal Disorders: dysphagia, fecaloma, fecal incontinence, gastritis, lip swelling, oral candidiasis, glossitis
 General Disorders: edema peripheral, thirst, gait disturbance, influenza-like illness, pitting edema, chills, sluggishness, malaise, chest discomfort, face edema, discomfort, generalized edema, drug withdrawal syndrome, peripheral edoedema, feeling abnormal
 Immune System Disorders: drug hypersensitivity
 Infections and Infestations: pneumonia, influenza, ear infection, viral infection, pharyngitis, tonsillitis, bronchitis, eye infection, local infection, cystitis, cellulitis, otitis media, onychomycosis, acrodermatitis, bronchopneumonia, respiratory tract infection, tracheobronchitis, otitis media chronic
 Investigations: body temperature increased, blood protein increased, alanine aminotransferase increased, electrocardiogram abnormal, esophagogal count increased, white blood cell count decreased, blood glucose increased, hemoglobin decreased, hematocrit decreased, body temperature decreased, blood pressure decreased, transaminases increased
 Metabolism and Nutrition Disorders: decreased appetite, polydipsia, anorexia
 Musculoskeletal and Connective Tissue Disorders: joint stiffness, joint swelling, musculoskeletal chest pain, posture abnormal, myalgia, neck pain, muscular weakness, rhabdomyolysis
 Nervous System Disorders: balance disorder, disturbance in attention, dysarthria, unresponsive to stimuli, depressed level of consciousness, movement disorder, transient ischemic attack, coordination abnormal, cerebellovascular accident, speech disorder, syncope, loss of consciousness, hypoxemia, tardive dyskinesia, dyskinesia, cerebral ischemia, cerebrovascular disorder, neuroleptic malignant syndrome, diabetic coma, head titubation
 Psychiatric Disorders: agitation, blurred affect, confusional state, middle insomnia, nervousness, sleep disorder, listlessness, libido decreased, and anorgasmia
 Renal and Urinary Disorders: anuresis, dysuria, polyuria, urinary incontinence
 Reproductive System and Breast Disorders: menstruation irregular, amenorrhea, gynecomaastia, galactorrhea, vaginal discharge, menstrual disorder, erectile dysfunction, retrograde ejaculation, ejaculation disorder, sexual dysfunction, breast enlargement
 Respiratory, Thoracic, and Mediastinal Disorders: wheezing, pneumonia aspiration, sinus dysrhythmia, productive cough, pulmonary congestion, respiratory tract congestion, rales, respiratory disorder, hyperventilation, nasal edema
 Skin and Subcutaneous Tissue Disorders: erythema, skin discoloration, skin lesion, pruritus, skin disorder, rash erythematous, rash papular, rash generalized, rash maculopapular, acne, hives/urticaria, seborrheic dermatitis
 Vascular Disorders: hypotension, flushing
 Discontinuations: Due to Adverse Reactions

Schizophrenia - Adults
 Approximately 7% (39/564) of risperidone-treated patients in double-blind, placebo-controlled trials discontinued treatment due to an adverse reaction, compared with 4% (10/225) who were receiving placebo. The adverse reactions associated with discontinuation in 2 or more discontinuing patients were:

Risperidone	Placebo	
(N=366)	(N=225)	
Dizziness	1.4%	0%
Nausea	1.4%	0%
Vomiting	0.8%	0%
Parkinsonism	0.8%	0%
Sonolence	0.8%	0%
Dystonia	0.5%	0%
Agitation	0.5%	0%
Abdominal pain	0.5%	0%
Orthostatic hypotension	0.3%	0.5%
Alakisia	0.3%	2.0%

Discontinuation for extrapyramidal symptoms (including Parkinsonism, akathisia, dystonia, and tardive dyskinesia) was 1% in placebo-treated patients, and 3.4% in active control-treated patients (double-blind, placebo- and active-controlled trial).

Schizophrenia - Pediatrics
 Approximately 7% (7/106), of risperidone-treated patients discontinued treatment due to an adverse reaction in a double-blind, placebo-controlled trial, compared with 4% (2/54) placebo-treated patients. The adverse reactions associated with discontinuation for at least one (N=1) of the following patients were dizziness (2%), somnolence (1%), sedation (1%), lethargy (1%), anxiety (1%), balance disorder (1%), hypotension (1%), and palpitation (1%).

Bipolar Mania - Adults
 In double-blind, placebo-controlled trials with risperidone as monotherapy, approximately 6% (25/448) of risperidone-treated patients discontinued treatment due to an adverse event, compared with approximately 5% (19/424) of placebo-treated patients. The adverse reactions associated with discontinuation in risperidone-treated patients were:

Risperidone	Placebo	
(N=448)	(N=424)	
Parkinsonism	0.4%	0%
Lethargy	0.2%	0%
Dizziness	0.2%	0%
Alanine aminotransferase increased	0.2%	0.2%
Aspartate aminotransferase increased	0.2%	0.2%

Bipolar Mania - Pediatrics
 In a double-blind, placebo-controlled trial 12% (13/111) of risperidone-treated patients discontinued due to an adverse reaction, compared with 7% (4/58) of placebo-treated patients. The adverse reactions associated with discontinuation in more than one risperidone-treated pediatric patient were nausea (3%), somnolence (2%), sedation (2%), and vomiting (2%).

Intrinsically Active Receptors
 The effects of risperidone in pediatric patients treated for irritability associated with autistic disorder (N = 156), one risperidone-treated patient discontinued due to an adverse reaction (Parkinsonism), and one placebo-treated patient discontinued due to an adverse event.
Dose Dependency of Adverse Reactions in Clinical Trials
 Extrapyramidal Symptoms
 Data from two double-blind trials in adults with schizophrenia provided evidence of dose-relatedness for extrapyramidal symptoms associated with risperidone treatment.

Two methods were used to measure extrapyramidal symptoms (EPS) in an 8-week trial comparing 4 fixed doses of risperidone (2.6, 10, and 16 mg/day), including (1) a Parkinsonism score (mean change from baseline) from the Extrapyramidal Symptom Rating Scale, and (2) incidence of spontaneous complaints of EPS:

Dose Groups	Placebo	Risperidone 2 mg	Risperidone 6 mg	Risperidone 10 mg	Risperidone 16 mg
Parkinsonism	1.2	0.9	1.8	2.4	2.6
EPS Incidence	13%	17%	21%	21%	35%

Similar methods were used to measure extrapyramidal symptoms (EPS) in an 8-week trial comparing 5 fixed doses of risperidone (1, 4, 8, 12, and 16 mg/day):

Dose Groups	Risperidone 1 mg	Risperidone 4 mg	Risperidone 8 mg	Risperidone 12 mg	Risperidone 16 mg
Parkinsonism	0.6	1.7	2.4	2.9	4.1
EPS Incidence	7%	12%	17%	18%	20%

Dystonia
 Classic Effect: Symptoms of dystonia, prolonged abnormal contractions of muscle groups, may occur in susceptible individuals during the first few days of treatment. Dystonic symptoms include spasm of the neck muscles, sometimes progressing to tightness of the throat, swallowing difficulty, difficulty breathing, and/or protrusion of the tongue. While these symptoms can occur at low doses, they may occur with greater severity with high potency and at higher doses of first-generation antipsychotics. An elevated risk of acute dystonia is observed in males and younger age groups.

Other Adverse Reactions
 A checklist was administered for side effects from a large study comparing 5 fixed doses of risperidone (1, 4, 8, 12, and 16 mg/day) were explored for dose-relatedness of adverse events. A Cochran-Armitage Test for trend in these data revealed a positive trend (p<0.05) for the following adverse reactions: somnolence, vision abnormal, dizziness, palpitations, weight increase, erectile dysfunction, ejaculation disorder, sexual function abnormal, fatigue, and skin discoloration.

Changes in Body Weight
 Weight gain was observed in short-term, controlled trials and longer-term uncontrolled studies in adult and pediatric patients (see Warnings and Precautions (5.3), Adverse Reactions (9), and Adverse Reactions (9.4)).

Changes in ECG Parameters
 Between-group comparisons for pooled placebo-controlled trials in adults revealed no statistically significant differences between risperidone and placebo in mean changes from baseline in ECG parameters, including QT, QTc, and PR intervals, and heart rate. When all risperidone doses were pooled from randomized controlled trials in several indications, there was a mean increase in heart rate of 1 beat per minute compared to no change for placebo patients. In short-term schizophrenia trials, higher doses of risperidone (8-16 mg/day) were associated with a similar increase in heart rate compared to placebo (4-8 beats per minute). In pooled placebo-controlled acute mania trials in children and adolescents (aged 10–17 years), there were no significant changes in ECG parameters, other than the effect of risperidone to transiently increase pulse rate (< 6 beats per minute). In two controlled schizophrenia trials in adolescents (aged 13–17 years), there were no clinically meaningful changes in ECG parameters including corrected QT intervals between treatment groups or within treatment groups over time.

7 DRUG INTERACTIONS
7.1 Pharmacokinetic-related Interactions

The dose of risperidone should be adjusted when used in combination with CYP2D6 enzyme inhibitors (e.g., fluoxetine, and paroxetine) and enzyme inducers (e.g., carbamazepine) (see Table 16 and Dosage and Administration (2.5)). Dose adjustment is not recommended for risperidone when co-administered with ranitidine, cimetidine, amiripryline, or erythromycin (see Table 18).

Table 18 Summary of Effect of Coadministered Drugs on Exposure to Active Moiety (Risperidone + 9-Hydroxyrisperidone) in Healthy Subjects or Patients with Schizophrenia

Coadministered Drug	Dosing Schedule	Effect on Active Moiety (Risperidone + 9-Hydroxyrisperidone) (Ratio)*	Risperidone Dose Recommendation		
Enzyme (CYP2D6) Inhibitors	Coadministered Drug	Risperidone AUC	C _{max}		
Fluoxetine	20 mg/day	2 or 3 mg twice daily	1.4	1.5	Re-evaluate dosing. Do not exceed 8 mg/day.
Paroxetine	10 mg/day	4 mg/day	1.3	-	Re-evaluate dosing.
	20 mg/day	4 mg/day	1.8	-	Do not exceed 8 mg/day.
	40 mg/day	4 mg/day	1.6	-	Do not exceed 8 mg/day.
Enzyme (CYP3A) Inducers	Coadministered Drug	Risperidone AUC	C _{max}		
Carbamazepine	573 + 168 mg/day	3 mg twice daily	0.51	0.55	Titrate dose upwards.
					Do not exceed twice the patient's usual dose.
Enzyme (CYP3A) Inhibitors	Coadministered Drug	Risperidone AUC	C _{max}		
Ranitidine	150 mg twice daily	1 mg single dose	1.2	1.4	Dose adjustment not needed.
Cimetidine	400 mg twice daily	1 mg single dose	1.1	1.3	Dose adjustment not needed.
Erythromycin	500 mg four times daily	1 single dose	1.1	0.94	Dose adjustment not needed.
Other Drugs	Coadministered Drug	Risperidone AUC	C _{max}		
Amiripryline	50 mg twice daily	3 mg twice daily	1.2	1.1	Dose adjustment not needed.

*Change relative to reference.
 Effect of Risperidone on Other Drugs

Lithium

Repeated oral doses of risperidone (3 mg twice daily) did not affect the exposure (AUC) or peak plasma concentrations (C_{max}) of lithium (N=13). Dose adjustment for lithium is not recommended.

Valproate

Repeated oral doses of risperidone (4 mg once daily) did not affect the pre-dose or average plasma concentrations and exposure (AUC) of valproate (in three divided doses) compared to placebo (N=21). However, there was a 20% increase in valproate peak plasma concentration (C_{max}) after concomitant administration of risperidone. Dose adjustment for valproate is not recommended.

Dipoin

Risperidone (0.25 mg twice daily) did not show a clinically relevant effect on the pharmacokinetics of dipoin. Dose adjustment for dipoin is not recommended.

7.2 Pharmacodynamic-related Interactions

Centrally-Acting Drugs and Alcohol

Because the primary CNS effects of risperidone, caution should be used when risperidone is taken in combination with other centrally-acting drugs and alcohol.

Drugs with Hypotensive Effects

Because of its potential for inducing hypotension, risperidone may enhance the hypotensive effects of other therapeutic agents with this potential.

Levodopa and Dopamine Agonists

Risperidone may antagonize the effects of levodopa and dopamine agonists.

Clonidine

Chronic administration of clonidine with risperidone may decrease the clearance of risperidone.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Pregnancy Category C

Risk Summary

Adequate and well-controlled studies with risperidone have not been conducted in pregnant women. Neonates exposed to antipsychotic drugs (including risperidone) during the third trimester of pregnancy are at risk for extrapyramidal and/or withdrawal symptoms following delivery. There was no increase in the incidence of malformations in embryo-fetal studies in rats and rabbits at 0.4-6 times MHRD. Increased pup mortality was noted at all doses in perinatal studies in rats. Risperidone should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

Lactation

Risperidone is excreted in human milk. Because of the potential for adverse effects on nursing infants and because of the potential for effects on milk production, nursing should be discontinued during therapy with risperidone.

Use in Nursing Mothers

Because of the potential for adverse effects on nursing infants and because of the potential for effects on milk production, nursing should be discontinued during therapy with risperidone.

Use in Pediatric Patients

Risperidone is approved for the treatment of schizophrenia in pediatric patients in Sprague-Dawley Wistar rats (0.63-10 mg/kg or 0.4 to 6 times the maximum recommended human dose (MRHD) on a mg/m² body surface area basis) and in one Segment I study in New Zealand rabbits (0.31-5 mg/kg or 0.4 to 6 times the MRHD on a mg/m² body surface area basis). There were no significant differences in pharmacokinetics between these studies or between sexes.

Use in Geriatric Patients

There was no effect dose for increased rat pup mortality. In one Segment II study, there was an increase in stillborn rat pups at a dose of 2.5 mg/kg or 1.5 times the MRHD on a mg/m² body surface area basis, in a cross-fostering study in Wistar rats; toxic effects on the fetus or pups were observed, as indicated by a decrease in the number of live pups and an increase in the number of dead pups at birth (Day 0), and a decrease in birth weight in pups of drug-treated dams. In addition, there was an increase in deaths by Day 1 among pups with treated dams, regardless of whether or not the pups were cross-fostered. Risperidone also appeared to impair maternal behavior in that pup body weight gain and survival (from Day 1 to 4 of lactation) were reduced in pups born to control but reared by drug-treated dams. These effects were all noted at the one dose of risperidone tested, i.e., 5 mg/kg or 3 times the MRHD on a mg/m² body surface area basis.

Use in Pediatric Patients

Risperidone and 9-hydroxyrisperidone are present in human breast milk. Because of the potential for serious adverse reactions in nursing infants from risperidone, a decision should be made whether to discontinue nursing or to discontinue the drug, taking into account the importance of the drug to the mother.

8.4 Pediatric Use

Approved Pediatric Indications

Schizophrenia

The efficacy and safety of risperidone in the treatment of schizophrenia were demonstrated in 417 adolescents, aged 13-17 years, in two short-term (6 and 8 weeks), respectively double-blind controlled trials (see Indications and Usage (1.1), Adverse Reactions (6.1), and Clinical Studies (14.1)). Additional safety and efficacy information was also assessed in one long-term (6-month) open-label extension study in 294 of these adolescents. Risperidone also appeared to impair maternal behavior in that pup body weight gain and survival (from Day 1 to 4 of lactation) were reduced in pups born to control but reared by drug-treated dams. These effects were all noted at the one dose of risperidone tested, i.e., 5 mg/kg or 3 times the MRHD on a mg/m² body surface area basis.

Bipolar I Disorder

The efficacy and safety of risperidone in the short-term treatment of acute manic or mixed episodes associated with Bipolar I Disorder in 169 children and adolescents patients, aged 10-17 years, were demonstrated in one double-blind, placebo-controlled, 3-week trial (see Indications and Usage (1.2), Adverse Reactions (6.1), and Clinical Studies (14.2)).

Safety and Effectiveness of risperidone in children less than 10 years of age with bipolar disorder have not been established.

Autistic Disorder

The efficacy and safety of risperidone in the treatment of irritability associated with autistic disorder were established in two 8-week, double-blind, placebo-controlled studies in 156 children and adolescents patients, aged 5 to 16 years (see Indications and Usage (1.3), Adverse Reactions (6.1), and Clinical Studies (14.4)). Additional safety information was also assessed in a long-term (6-month) open-label extension study in 294 of these adolescents.

Use in Geriatric Patients

Weight gain has been observed in children and adolescents during treatment with risperidone. Clinical monitoring of weight is recommended during treatment.

Use in Pediatric Patients

Data derive from short-term placebo-controlled trials and longer-term uncontrolled studies in pediatric patients (aged 5 to 17 years) with schizophrenia, bipolar disorder, autistic disorder, or other psychiatric disorders. In the short-term trials (3 to 6 weeks), the mean weight gain for risperidone-treated patients was 2.5 kg, compared to 0.6 kg in placebo-treated patients. In these trials, approximately 33% of the risperidone group had weight gain ≥2%, compared to 7% in the placebo group. In longer-term, uncontrolled, open-label pediatric studies, the mean weight gain was 4.2 kg at Week 24 and 8 kg at Week 48 (see Warnings and Precautions (5.3) and Adverse Reactions (6.1)).

Tardive Dyskinesia

In clinical trials in 1885 children and adolescents treated with risperidone, 2.0 (0.1%) patients were reported to have tardive dyskinesia, which resolved on discontinuation of risperidone (see Warnings and Precautions (5.4)).

Use in Pediatric Patients

Weight gain has been observed in children and adolescents during treatment with risperidone. Clinical monitoring of weight is recommended during treatment.

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