# RISPERIDEX TABLET 0.5mg/1mg/2mg/4mg

(Referred to as Risperidone Tablets throughout this document) Risperidone

QUALITATIVE AND QUANTITATIVE COMPOSITION The tablets contain 0.5mg, 1mg, 2mg or 4mg risperidone

DOSAGE FORM

Dosade FOHm Film-coated tablets for oral use: Risperidex 0.5mg tablets are red, film-coated, round tablets, scored on one side. Risperidex 1mg Tablets are white, film-coated, capsule shaped tablets. Risperidex 4mg Tablets are white, film-coated, capsule shaped tablets. The tablets of 0.5 mg and 1 mg can be divided into equal halves.

For excipients, see List of Excipients.

### CLINICAL INFORMATION

Indications Risperidex Tablets are indicated for the treatment of a broad range of patients with schizophrenia, including first episode psychoses, acute schizophrenic exacerbations, chronic schizophrenia, and other psychotic conditions, in which positive symptoms (such as hallucinations, delusions, thought disturbances, hostility, suspiciousness), and/or negative symptoms (such as blunted affect, emotional and social withdrawal, poverty of speech) are prominent. Risperidex Tablets alleviate affective symptoms (such as depression, guilt feelings, anviety) associated with schizophrenia. Risperidex Tablets are also effective in maintaining the clinical improvement during continuation therapy in patients who have shown an initial treatment response. Risperidex Tablets are indicated for the short-term treatment of persistent aggression in patients with moderate to severe dementia of the Alzheimer's type unresponsive to non-pharmacological approaches and when there is a risk of harm to self or others. Risperidex Tablets are indicated for the treatment of behavioural disorders associated with autism (eg irritability, social withdrawal, stereotypic behaviour, hyperactivity and inappropriate speech) in children and adolescents. Risperidex Tablets are also indicated for bipolar mania. *Adjunctive therapy*: Risperidex Tablets are indicated as adjunctive therapy to mood stabilizers in the treatment of main cepisodes associated with bipolar disorders. These episodes are characterized by symptoms such as elevated, expansive or irritable mood, inflated self-esteem, decreased need for sleep, pressured speech, racing thoughts, distractibility, or poor judgment, including disruptive or aggressive behaviours. *Monotherapy*: Risperidex Tablets are indicated in the treatment of coute manic episodes associated with bipolar 1 disorder. The effectiveness of Risperidex Tablets for more than 12 weeks of treatment of an acute episode, and for the prevention of new manic episodes has not been estabilished. Risper Indications Risperidex Tablets are indicated for the treatment of a broad range of patients with

### Dosage and Administration

Dosage Schizophrenia Schizophrenia Switching from other antipsychotics When medically appropriate, gradual discontinuation of the previous treatment while Risperidex Tablets therapy is initiated is recommended. Also, if medically appropriate, when switching patients from depot antipsychotics, initiate Risperidex therapy in place of the next scheduled injection. The need for continuing existing anti-Parkinson medications should be re-evaluated periodically. re-evaluated periodically

Adults

Aduits Risperidex Tablets may be given once daily or twice daily. Risperidex Tablets may be given once daily or twice daily. Patients should start with 2 mg/day Risperidex Tablets. The dosage may be increased on the second day to 4 mg. From then on the dosage can be maintained unchanged, or further individualized, if needed. Most patients will benefit from daily doses between 4 and 6 mg. In some patients, a slower titration phase and a lower starting and maintenance dose may be appropriate. Doses above 10 mg/day have not been shown to be superior in efficacy to lower doses and may cause extravyramidal symptoms. Since the safety of doses above 16 mg/day has not been evaluated, doses above this level should not be used. A benzodiazepine may be added to Risperidex when additional sedation is required.

<u>Special populations</u> Elderly A starting dose of 0.5 mg twice daily is recommended. This dosage can be individually adjusted with 0.5 mg twice daily increments to 1 to 2 mg twice daily.

Children Experience in schizophrenia is lacking in children less than 15 years of age

Renal and liver disease A starting dose of 0.5 mg twice daily is recommended. This dose can be individually adjusted with 0.5 mg twice daily increments to 1 to 2 mg twice daily.

Adults



Adults Risperidex Tablets should be administered on a once daily scheuure, summing 2 or 3 mg. Dosage adjustments, if indicated, should occur at intervals of not less than 24 hours and in dosage increments of 1 mg per day. A floragy range between 2-6 mg per day is recommended. The physician who elects to use Risperidex Tablets for periods extending beyond 12 weeks should periodically re-evaluate the long-term usefulness of the drug for the individual patient. As with all symptomatic treatments, the continued use or Risperidex Tablets must be evaluated and justified on anonging basis. *Children* 

years of age. Aggression in patients with Dementia of the Alzheimer type A starting dose of 0.25 mg b.i.d. is recommended. This dosage can be individually adjusted by increments of 0.25 mg b.i.d., not more frequently than every other day, if needed. The optimum dose is 0.5 mg b.i.d. for most patients. Some patients, however, may

if needed. The optimum dose is 0.5 mg bi.d. for most patients. Some patients, however, may benefit from doses up to 1 mg bi.d. for most patients. Some patients, however, may benefit from doses up to 1 mg bi.d. for most patients. Some patients, however, may benefit from doses up to 1 mg bi.d. for most patients. Some patients, however, may considered. As with all symptomatic treatment beyond 12 weeks in patients with moderate to severe dementia of the Alzheimer type with agitation, aggression or psychotic symptoms. Once patients have reached their target dose, a once daily dosing regimen can be considered. As with all symptomatic treatments, the continued use of Risperidex Tablets must be evaluated and justified on an ongoing basis. **Conduct and other disruptive behaviour disorders (5-18 years of age)**. For patients >50 kg, a starting dose of 0.5 mg once daily is recommended. This dosage can be individually adjusted by increments of 0.5 mg once daily for most patients. Some other day, if needed. The optimum dose is 1 mg once daily not more frequently than every other day, if needed. The optimum dose is 0.5 mg once daily not more frequently than every other day, if needed. The optimum dose is 0.5 mg once daily not more frequently than every other day, if needed. The optimum dose is 0.5 mg once daily not more frequently than every other day, if needed. The optimum dose is 0.5 mg once daily not more frequently. Some patients, however, may benefit from 0.25 mg once daily while others may require 0.75 mg once daily.

once daily. As with all symptomatic treatments, the continued use of Risperidex Tablets must be evaluated and justified on an ongoing basis. Experience is lacking in children less than 5 years of age.

## Autism

Autism Pediatrics (5-17 years of age) The dosage of Risperidex Tablets should be individualized according to the needs and response of the patient. Dosing should be initiated at 0.25 mg per day for patients <20 kg and 0.5 mg per day for patients <20 kg. On Day 4, the dose may be increased by 0.25 mg for patients <20 kg and 0.5 mg for patients <20 kg.

≥20 kg. This dose should be maintained and response should be assessed at approximately Day 14. In socies that no endimining sufficient claphics include associated at upproximately pay in-only in patients not achieving sufficient clinical response should additional dose increases be considered. Dose increases may proceed at 22-week intervals in increments of 0.25 mg for patients -20 ko or 0.5 m of or patients -20 ko. discontinuation of all antipsychotic drugs should be considered. Extrapyramidal symptoms and psychostimulants – Caution is warranted in patients receiving both psychostimulants (e.g. methylphenidate) and risperidone concomitantly, as extrapyramidal symptoms could emerge when adjusting one or both medications. Gradual withdrawal of one or both treatments should be considered (see Interactions).

The extrapy and a symptoms could emerge when adjusting one or both medications. Gradual withdrawal of one or both treatments should be considered (see Interactions). Neuroleptic Malignant Syndrome (NMS) Neuroleptic Malignant Syndrome, characterized by hyperthermia, muscle rigidity, autonomic instability, altered consciousness and elevated serum creatine phosphokinase levels has been reported to occur with antipsychotics. Additional signs may include myoglobinuria (rhabdomyolysis) and acute renal failure. In this event, all antipsychotic drugs, including Risperidone Tablets, should be discontinued. Parkinson's Disease and Dementia with Lewy Bodies Physicians should weigh the risks versus the benefits when prescribing antipsychotics, including Risperidone Tablets, to patients with Parkinson's Disease or Dementia with Lewy Bodies (DLB) since both groups may be at increased risk of Neuroleptic Malignant Syndrome as well as having an increased sensitivity to antipsychotics, including Risperidone Tablets, to patients with Parkinson's Disease and Dementia with Lewy Bodies (DLB) since both groups may be at increased risk of Neuroleptic Malignant Syndrome as well as having an increased sensitivity to antipsychotics, including risperidone. Phyperglycemia and Diabetes Mellitus Hyperglycemia and Diabetes Mellitus Hyperglycemia and Diabetes Mellitus and exacerbation of pre-existing diabetes have been reported in patients with applicial antipsychotic use and glucose abnormalities is complicated by the possibility of an increased background risk of diabetes mellitus in the general population. Given these confounders, the relationship between atypical antipsychotics. Braditional the general population. Given these confounders, the relationship between atypical antipsychotics. Patients with an established diagnosis of diabetes mellitus, risk factors for diabetes (egidemiological studies suggest an increased risk of diabetes and hyperglycemia and babets, portex is not completely understood. Any patient treated with atypical anti

Weight Gain Significant weight gain has been reported. Monitoring weight gain is advisable when Risperidex Tablets are being used.

QT Interval As with other antipsychotics, caution should be exercised when Risperidone Tablets are prescribed in patients with a history of cardiac arrhythmias, in patients with congenital long QT syndrome and in concomitant use with drugs known to prolong the QT interval.

Priapism Drugs with alpha-adrenergic blocking effects have been reported to induce priapism. Priapism has been reported with Risperidone Tablets during postmarketing surveillance (see

Priapism has been reported with Risperidone Tablets during postmarketing surveillance (see Adverse Reactions). Body Temperature Regulation Disruption of the body's ability to reduce core body temperature has been attributed to antipsychotic agents. Appropriate care is advised when prescribing Risperidone Tablets to patients who will be experiencing conditions which may contribute to an elevation in core body temperature, e.g. exercising strenuously, exposure to extreme heat, receiving concomitant medication with anticholinergic activity, or being subject to dehydration. Antiemetic Effect An antiemetic effect was observed in preclinical studies with risperidone. This effect, if it course in burges may make the sing and symptomes of neuronage with certain durings or of

occurs in humans, may mask the signs and symptoms of overdosage with certain drugs or of conditions such as intestinal obstruction, Reye's syndrome, and brain tumor. Seizures

Seizures As with other antipsychotic drugs, Risperidex Tablets should be used cautiously in patients with a history of seizures or other conditions that potentially lower the seizure threshold. Intraoperative Floppy Iris Syndrome Intraoperative Floppy Iris Syndrome (IFIS) has been observed during cataract surgery in patients treated with medicines with alpha1a-adrenergic antagonist effect, including risperidone (see Adverse Reactions). IFIS may increase the risk of eye complications during and after the operation. Current or past use of medicines with alpha1a-adrenergic antagonist effect should be made known to the ophthalmic surgeon in advance of surgery. The potential benefit of stopping alpha1 blocking therapy prior to cataract surgery has not been established and must be weighed against the risk of stopping the antipsychotic therapy. Other

Other

Other See Dosage and Administration for specific dosage recommendations for elderly patients, for elderly patients with dementia, for patients with bipolar mania, for pediatric patients with conduct and other disruptive behavior disorders, and for patients with renal or hepatic impairment. For conduct disorder effects on sexual maturation and gonadal function in children and adolescents have not been evaluated beyond 12 months in relation to long-term treatment. Safety data beyond 12 months is lacking in relation to the effect of long-term treatment. Interactions Interactions

Interactions Pharmacodynamic-related Interactions Centrally-acting Drugs and Alcohol Given the primary CNS effects of Risperidone Tablets, they should be used with caution in combination with other centrally acting drugs or alcohol. Levodopa and Dopamine Agonists Risperidone Tablets may antagonize the effect of levodopa and other dopamine aconicts

agonists.

Pschostimulants The combined use of psychostimulants (e.g. methylphenidate) with risperidone can lead to the emergence of extrapyramidal symptoms upon change of either or both treatments (see Warnings and Precautions). Drugs with Hypotensive Effects Clinically significant hypotension has been observed postmarketing with concomitant use of risperidone and antihypertensive treatment. Drugs Known to Prolong the QT interval Caution is advised when prescribing Risperidone Tablets with drugs known to prolong the QT interval. Pharmacokinatic-related Interactione

 Drugs Nnown for Droing the Cri interval

 Caution is advised when prescribing Risperidone Tablets with drugs known to prolong the CP interval.

 Pharmacokinetic-related Interactions

 Food does not affect the absorption of Risperidex Tablets.

 Risperidone is mainly metabolized through CYP2D6, and to a lesser extent through CYP3A4. Both risperidone and its active metabolite 9-hydroxyrisperidone are substrates of P-glycoprotein (P-gp). Substances that modify CYP2D6 activity, or substances strongly inhibiting or inducing CYP3A4 and/or P-gp activity, may influence the pharmacokinetics of the risperidone active antipsychotic fraction.

 Strong CYP2D6 inhibitors
 Co-administration of Risperidex Tablets with a strong CYP2D6 inhibitor may increase the plasma concentrations of risperidone, but less so of the active antipsychotic fraction.

 Higher doses of a strong CYP2D6 inhibitor may elevate concentrations of the risperidone active antipsychotic fraction (e.g., paroxetine, see below). When concomitant paroxetine or another strong CYP2D6 inhibitor go Risperidex Tablets.

 CYP3A4 and/or P-gp Inhibitors
 Coadministration of Risperidex with a strong CYP3A4 and/or P-gp inhibitor may substantially elevate plasma concentrations of the risperidone active antipsychotic fraction. When concomitant itraconazole or another strong CYP3A4 and/or P-gp inhibitor is initiated or discontinued, the physician should re-evaluate the dosing of Risperidex Tablets.

 CYP3A4 and/or P-gp Inducers
 Co-administration of Risperidex Tablets with a strong CYP3A4 and/or P-gp inducer is initiated or discontinued, the physician should re-evaluate the dosing of Risperidex Tablets.

 CYP3A4 and/or P



In patients 2co dg of 0.5 mg of balances zev dgid of of exceed a total daily dose of 1.5 mg in patients <20 kg, 2.5 mg in patients >20 kg, or 3.5 mg in patients >45 kg. Doses below 0.25mg/day were not effective in clinical studies.

Doses of Risperidex Tablets in Pediatric Patients with Autistic Disorder (by total mg/day)

Weight Categories	Days 1-3	Days 4-14+	Increments if dose increases are needed	Dose Range
<20 kg	0.25 mg	0.5 mg	+0.25 mg at ≥2 week intervals	0.5 mg - 1.5 mg
≥20 kg	0.5 mg	1.0 mg	+0.5 mg at ≥2 week intervals	1.0 mg - 2.5 mg
			-	

\*Subjects weighing >45 kg may require higher doses; maximum dose studied was 3.5 mg/day For prescribers preferring to dose on a mg/kg/day basis the following guidance is provided.

Doses of Risperidex Tablets in Pediatric Patients with Autistic Disorder (by mg/kg/day)

Weight Categories	Days 1-3	Days 4-14+	Increments if dose increases are needed	Dose Range
All	0.01 mg/	0.02 mg/	+0.01 mg/kg/day	0.02 mg/kg/day-
	kg/day	kg/day	at ≥2 week intervals	0.06 mg/kg/day

Risperidex Tablets can be administered once daily or twice daily. Patients experiencing somnolence may benefit from a switch in dosing from once daily to either once daily at bedtime or twice daily. Once sufficient clinical response has been achieved and maintained, consideration may be

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Once sufficient clinical response has been achieved and maintained, consideration may be given to gradually lowering the dose to achieve the optimal balance of efficacy and safety.
Experience is lacking in children less than 5 years and limited in autistic adolescents.
Effectiveness for more than 8 weeks has not been systematically evaluated in double-blind, parallel-controlled clinical trials. Therefore, the physician who elects to use Risperidex.
Tablets for the treatment of behaviour, hyperactivity and inappropriated speech) in children and adolescents for extended periods should periodically re-evaluate the long term risks and benefits of the drug for the individual patient.
Retainst with renal impairment have less ability to eliminate the active antipsychotic fraction than normal adults. Patients with impaired hepatic function have increases in plasma concentration of the free fraction of risperidore.
Irrespective of the indication, starting and consecutive dosing should be halved, and dose titration should be slower for patients with renal or hepatic impairment.
Risperidex. Tablets should be used with caution in these groups of patients.

patients. Administration

Risperidex tablets are given as oral tablets.

Contraindications Risperidex Tablets are contraindicated in patients with a known hypersensitivity to the product.

the product. Warnings and Precautions Elderly Patients with Dementia Overall Mortality Elderly patients with dementia treated with atypical antipsychotic drugs have an increased mortality compared to placebo in a meta-analysis of 17 controlled trials of atypical antipsychotic drugs, including risperidone. In placebo-controlled trials of atypical antipsychotic arus, including risperidone. In placebo-controlled trials of atypical antipsychotic arus, including risperidone. In placebo-controlled trials of atypical antipsychotic arus, including risperidone. In placebo-controlled trials of atypical antipsychotic arus, including risperidone. In placebo-controlled trials of atypical antipsychotic arus, or an angel for the second second second (range) of patients who died was 86 years (range 67-100). Concomitant use with Furosemide In the risperidone placebo-controlled trials in elderly patients treated with furosemide plus risperidone [7.3%], mean age 80 years, range 75-97] when compared to patients treated with furosemide plus risperidone alone (3.1%; mean age 84 years, range 70-96), or furosemide alone (4.1%; mean age 80 years, range 67-90). The increase in mortality in patients treated with furosemide plus risperidone was observed in two of the four clinical trials. No pathophysiological mechanism has been identified to explain this finding, and no consistent pattern for cause of death observed. Nevertheless, caution should be exercised and the risks and benefits of this combination should be considered the decision to use. was no increased incidence of mortality among patients taking other diuretics as

prior to the decision to use. There was no increased incidence of mortality among patients taking other diuretics as concomitant medication with risperidone. Irrespective of treatment, dehydration was an overall risk factor for mortality and should therefore be carefully avoided in elderly patients

With demendia. Cerebrovascular Adverse Events (CAE) For specific dosage recommendations for elderly patients, patients with renal and liver disease and patients with dementia, see Dosage and Administration. Cerebrovascular adverse events (eg stroke, transient ischemic attack), including fatalities, were reported in patients (mean age 85 years range; range 73-97) in trials of risperidone in elderly patients with dementia-related psychosis. In placebo-controlled trials there was a significantly bindher incidence of cerebrovascular.

adverse events in patients with related psychological in placebo-controlled trials, there was a significantly higher incidence of cerebrovascular adverse events in patients treated with risperidone compared to patients treated with

Placebo. Risperidone Tablets are not approved for the treatment of patients with dementia-related

placebo. Risperidore Tablets are not approved for the treatment of patients with dementia-related psychosis. In placebo-controlled trials in elderly patients with dementia there was a significantly higher incidence (approximately 3-fold increased) of CAEs, such as stroke (including fatalities) and transient ischaemic attack in patients treated with Risperidex Tablets compared with patients treated with placebo (mean age 85 years; range 73 to 97). The pooled data from six placebo-controlled studies in mainly elderly patients (>65 years of age) with dementia showed that CAEs, (serious and non-serious, combined) occurred in 3.3% (33/100) of patients treated with risperidone and 1.2% (8/172) of patients treated with placebo. The odds ratio (95% exact confidence interval) was 2.96 (1.34, 7.50). The mechanism for this increased risk is not known. An increased risk cannot be excluded for other antipsychotics or other patient populations. Risperidex should be used with caution in patients with risk factors for stroke. The risk of CVAEs was higher in patients on risperidone with mixed or vascular type of dementia when compared to Alzheimer's dementia. Physicians are advised to assess the risks and benefits of the use of risperidone in elderly patients with dementia, taking into account risk predictors for stroke in the individual patient. Patients/caregivers should be cautioned to immediately report signs and symptoms of potential CVAEs such as sudden weakness or numbness in the face, arms or legs, and speech or vision problems. All treatment options should be considered without delay, including discontinuation of risperidone.

including discontinuation of risperidone.

Patients should be re-assessed regularly, and the need for continued treatment.

Patients should be re-assessed regularly, and the need for continued treatment. **Orthostatic Hypotension** Due to the alpha-blocking activity of risperidone, (orthostatic) hypotension can occur, especially during the initial dose-tifration period. Clinically significant hypotension has been observed postmarketing with concomitant use of risperidone and antihyportensive treatment. Risperidone Tablets should be used with caution in patients with known cardiovascular disease (e.g. heart failure, myocardial infarction, conduction abnormalities, dehydration, hypovolemia, or cerebrovascular disease), and the dosage should be gradually tirated as recommended (see *Dosage and Administration*). A dose reduction should be considered if hypotension occurs

récommendéd (see Dosage and Administration). A dose reduction should be considered if hypotension occurs.
 Leukopenia, Neutropenia, and Agranulocytosis
 Events of leucopenia, neutropenia, and agranulocytosis have been reported with antipsychotic agents, including Risperidone Tablets. Agranulocytosis has been reported very arely (<1/10,000 patients) during post-marketing surveillance.</li>
 Patients with a history of a clinically significant low white blood cell count (WBC) or a drug-induced leukopenia/neutropenia should be monitored during the first few months of therapy and discontinuation of risperidone should be considered at the first sign of a clinically significant decline in WBC in the absence of other causative factors.
 Patients with clinically significant neutropenia should be carefully monitored for fever or other symptoms or signs of infection and treated promptly if such symptoms or signs occur.
 Patients with clinically significant neutropenia should be carefully monitored for fever or other symptoms or signs of infection and treated promptly if such symptoms or signs occur.
 Patients with severe neutropenia (absolute neutrophi lout < 1 x 109L) should discontinue Risperidone Tablets and have their WBC followed until recovery.</li>
 Mous Thromboembolism (VTE) have been reported with antipsychotic drugs. Since patients treated with antipsychotics often present with acquired risk factors for VTE, all possible risk factors for VTE should be identified before and during treatment with Risperidone Tablets and preventive measures undertake.
 Tardie Dyskinesia/Extrapyramidal Symptoms (TD/EPS)
 Drugs with dopamine receptor antagonistic properties have been associated with the induction of tardive dyskinesia characterized by rhythmical involuntary movements, predominantly of the tongue and/or face. It has been reported that the occurrence of extrapyramidal symptoms is a risk factor for the evelopme

Interaction studies have only been performed in adults. The relevance of the results from these studies in pediatric patients is unknown. Examples

Examples Examples of drugs that may potentially interact or that were shown not to interact with risperidone are listed below: Antibacterials: - Erythromycin, a CYP3A4 inhibitor, does not change the pharmacokinetics of risperidone and the active antipsychotic fraction. - Rifampicin, a strong CYP3A4 inducer and a P-gp inducer, decreased the plasma concentrations of the active antipsychotic fraction.

Anticholinesterases: Donepezil and galantamine, both CYP2D6 and CYP3A4 substrates, do not show a clinically relevant effect on the pharmacokinetics of risperidone and the active antipsychotic fraction.

relevant effect on the pharmacokinetics of risperidone and the active antipsychotic fraction. Antiepileptics: - Carbamazepine, a strong CYP3A4 inducer and P-gp inducer, has been shown to decrease the plasma levels of the active antipsychotic fraction of risperidone. - Topiramate modestly reduced the bioavailability of risperidone, but not that of the active antipsychotic fraction. Therefore, this interaction is unlikely to be of clinical significance. - Risperidex Tablets do not show a clinically relevant effect on the pharmacokinetics of

valproate or topiramate. Antifungals:

Animumas: - Irraconazole, a strong CYP3A4 inhibitor and a P-gp inhibitor, at a dosage of 200mg/day increased the plasma concentrations of the active antipsychotic fraction by about 70%, at

Increased the plasma concentrations of the active antipsychotic fraction by about 70%, at risperiodne does of 2 to 8mg/day.
 Ketoconazole, a strong CYP3A4 inhibitor and a P-gp inhibitor, at a dosage of 200mg/day increased the plasma concentrations of risperidone and decreased the plasma concentration of 9-hydroxyrisperidone.
 Antipsychotics:
 Phenothiazines, may increase the plasma concentrations of risperidone but not those of the active antipsychotic fraction.

the active antipsycholic fraction. - Aripiprazole, a CYP2D6 and CYP3A4 substrate: There is insufficient clinical evidence to evaluate the effect of risperidone, on the pharmacokinetics of the sum of aripiprazole and its active metabolite, dehydroaripiprazole. Antivirals:

Protease inhibitors: No formal study data are available; however, since ritonavir is a strong CYP3A4 inhibitor and a weak CYP2D6 inhibitor, ritonavir and ritonavir-boosted protease inhibitors potentially raise concentrations of the risperidone active antipsychotic fraction. *Beta-Blockers*:

Some beta-blockers may increase the plasma concentrations of risperidone but not those of the active antipsychotic fraction.

Calcium Channel Blockers:

Calcium Channel Blockers: - Verapamil, a moderate inhibitor of CYP3A4 and an inhibitor of P-gp, increases the plasma concentration of risperidone and the active antipsychotic fraction. Digitalis Glycosides: - Risperidone does not show a clinically relevant effect on the pharmacokinetics of digoxin. Diuretics: - Furosemide: See section on Warnings and Precautions regarding increased mortality in elderly patients with dementia concomitantly receiving furosemide. Gastrointestinal Drugs: - H2-receiving antaponists: Cimetificing and raniticing both weak inhibitors of

- H2-receptor antagonists: Cimetidine and ranitidine, both weak inhibitors of CYP2D6 and CYP3A4, increased the bioavailability of risperidone, but only marginally that of the active antipsychotic fraction.

Lithium: - Risperidone does not show a clinically relevant effect on the pharmacokinetics of lithium. SSRIs and Tricyclic Antidepressants: - Fluoxetine, a strong CYP2D6 inhibitor, increases the plasma concentration of risperidone, but less so of the active antipsychotic fraction. Paroxetine, a strong CYP2D6 inhibitor, increases the plasma concentrations of risperidone, but, at dosages up to 20mg/day, less so of the active antipsychotic fraction. However, higher doses of paroxetine may elevate concentrations of the risperidone active antipsychotic fraction.

antipsychotic fraction. - Tricyclic antidepressants may increase the plasma concentrations of risperidone but not those of the active antipsychotic fraction. Amytriptyline does not affect the pharmacokinetics of risperidone or the active antipsychotic fraction. - Sertraline, a weak inhibitor of CYP206, and fluvoxarnine, a weak inhibitor of CYP304, at dosages up to 100mg/day are not associated with clinically significant changes in concentrations of the risperidone active antipsychotic fraction. However, doses higher than 100mg/day of sertraline or fluvoxamine may elevate concentrations of the risperidone active antipsychotic fraction. active antipsychotic fraction.

active antipsychotic fraction. Pregnancy and Breast-feeding Pregnancy The safety of Risperidex Tablets for use during human pregnancy has not been established. A retrospective observational cohort study based on a US claims database compared the risk of congenital malformations for live births among women with and without antipsychotic use during the first trimester of pregnancy. The risk of congenital malformations with risperidone, after adjusting for confounder variables available in the database, was elevated compared to no antipsychotic exposure (relative risk=1.26, 95% Cl: 1.02-1.56). No biological mechanism has been identified to explain these findings and teratogenic effects have not been observed in non-clinical studies. Based on the findings of this single observational study, a causal relationship between in vitro exposure to risperidone and congenital malformations has not been established. been established.

been established. Although, in experimental animals, risperidone did not show direct reproductive toxicity, some indirect, prolactin- and CNS-mediated effects were observed. Neonates exposed to antipsychotic drugs (including Risperidex Tablets) during the third trimester of pregnancy are at risk for extrapyramidal and/or withdrawal symptoms that may vary in severity following delivery. These symptoms in the neonates may include agitation, hypertonia, hypotonia, tremor, somnolence, respiratory distress, or feeding disorder. Risperidex Tablets should only be used during pregnancy if the benefits outweigh the risks. **Breast-feeding** 

Breast-feeding In animal studies, risperidone and 9-hydroxy-risperidone are excreted in the milk. It has been In animal studies, isspendone and 9-hydroxy-isspendone are also excreted in the mink. It has been demonstrated that risperidone and 9-hydroxy-isspendone are also excreted in human breast milk. Therefore, women receiving Risperidone Tablets should not breast-feed. Effects on Ability to Drive and Use Machines Risperidex Tablets may interfere with activities requiring mental alertness. Therefore, patients should be advised not to drive or operate machinery until their individual susceptibility is known. Adverse Reactions

Adverse Reactions Throughout this section, adverse reactions are presented. Adverse reactions are adverse events that were considered to be reasonably associated with the use of risperidone based on the comprehensive assessment of the available adverse event information. A causal relationship with risperidone usually 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 the clinical trials of another drug and may not reflect the rates observed in clinical practice.

The clinical trials of another drug and may not a fund at line to be directly compared to takes in the clinical trials of another drug and may not reflect the rates observed in clinical practice. **Clinical Trial Data** The safety of risperidone was evaluated from a clinical trial database consisting of 9803 patients exposed to one or more doses of risperidone for the treatment of various psychiatric disorders in adults, elderly patients with dementia, and pediatrics. Of these 9803 patients (2637 were patients who received risperidone while participanting in double-blind, placebo-controlled trials. The conditions and duration of treatment with risperidone varied greatly and included (in overlapping categories) double-blind, fixed- and flexible-dose, placebo- or active-controlled studies and open-label phases of studies, inpatients and outpatients, and short-term (up to 12 weeks) and longer-term (up to 3 years) exposures. The majority of all adverse reactions were mild to moderate in severity. **Double-Blind, Placebo-**Controlled Data - **Adult Patients** Adverse reactions reported by ≥1% of risperidone-treated adult patients in nine 3-to 8-week double-blind, placebo-controlled truits are shown in Table 1.

Table 1. Adverse Reactions Reported by ≥1% of risperidone -Treated Adult Patients in

Double-Dillio Flacebo-Controlled Studies			
System/Organ Class Adverse Reaction	Risperidone Tablets ≤8mg/day(N=853) %	Risperidone Tablets >8-16mg/ day (N=198) %	Placebo (N=687) %
Infections and Infestations			
Nasopharyngitis	2.1	4.0	1.7
Upper respiratory tract infection	1.5	2.5	1.5
Sinusitis	0.7	1.5	0.6
Urinary tract infection	0.5	2.5	0.1
Blood and Lymphatic System Disorders			
Anemia	0.1	1.0	0.1
Immune System Disorders			
Hypersensitivity	0.1	1.0	0.1

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Psychiatric Disorders			
Insomnia	16.2	25.3	13.2
Anxiety	7.7	11.1	4.4
Nervousness	0.5	1.0	0.1
Nervous System Disorders			
Parkinsonism*	19.3	17.2	7.9
Akathisia*	9.8	10.1	2.7
Somnolence	6.8	1.5	2.0
Dizziness	6.3	3.5	3.9
Sedation	4.6	3.0	1.3
Tremor*	4.2	2.5	2.5
Dystonia*	3.8	3.5	1.0
Lethargy	2.6	0	1.3
Dizziness postural	1.2	0	0.1
Dyskinesia*	1.2	2.0	0.9
Syncope	0.4	1.0	0
Eye Disorders			
Vision blurred	2.1	1.0	0.7
Ear and Labyrinth Disorders			
Ear pain	0.1	1.0	0.3
Cardiac Disorders			
Tachycardia	1.1	2.5	0.1
Vascular Disorders			
Orthostatic hypotension	1.3	0.5	0.1
Hypotension	0.2	1.0	0.3
Respiratory, Thoracic and Mediastinal Disorders			
Nasal congestion	2.0	6.1	1.3
Dyspnea	0.8	2.0	0
Epistaxis	0.5	1.5	0.1
Sinus congestion	0.5	1.0	0.6
Gastrointestinal Disorders			
Nausea	6.4	4.0	2.6
Constipation	4.6	9.1	3.6
Dyspepsia	4.3	6.1	2.6
Vomiting	3.9	4.5	3.8
Diarrhea	2.3	0.5	1.9
Salivary hypersecretion	2.3	1.0	0.4
Dry mouth	2.1	0	1.0
Abdominal discomfort	1.5	1.0	0.9
Abdominal pain	1.1	0.5	0.7
Stomach discomfort	1.1	1.0	0.6
Abdominal pain upper	0.7	1.0	0.1
Skin and Subcutaneous			
Tissue Disorders			
Rash	0.8	3.5	0.9
Dry skin	0.5	2.5	0.3
Dandruff	0.2	1.0	0
Seborrheic dermatitis	0.2	1.0	0
Hyperkeratosis	0	1.0	0.3
Musculoskeletal and Connec- tive Tissue Disorders			
Back pain	2.5	1.0	1.6
Arthralgia	1.5	2.5	0.6
Pain in extremity	1.2	1.0	2.2
Renal and Urinary Disorders			
Urinary incontinence	0.2	1.0	0.3
Reproductive System and Breast Disorders			
Ejaculation failure	0.4	1.0	0
General Disorders			
Fatigue	2.3	1.0	1.0
Asthenia	1.3	0.5	0.6
Pyrexia	1.3	1.0	0.7
Chest pain	0.8	1.5	0.4
Investigations			
Blood creatine phosphokinase			
increased	0.4	1.5	0.1
Heart rate increased	0.2	15	01

\*Parkinsonism includes extrapyramidal disorder, musculoskeletal stiffness, Parkinsonism, cogwheel rigidity, akinesia, bradykinesia, hypokinesia, masked facies, muscle rigidity, and Parkinson's disease. Akathisia includes akathisia and restlessness. Dystonia includes dystonia, muscle spasms, muscle contractions involuntary, muscle contracture, oculogyration, torgue paralysis. Tremor includes tremor and Parkinsonian rest tremor. Dyskinesia includes dyskinesia, muscle twitching, chorea, and choreoathetosis.

# Double-Blind, Placebo-Controlled Data - Elderly Patients with Dementia Adverse reactions reported by ≥1% of risperidone-treated elderly patients with dementia in six 4-to 12-week double-blind, placebo-controlled trials are shown in

Table 2

Table 2 includes only those adverse reactions that are either not listed in Table 1 or those adverse reactions that occurred at ≥2 times the frequency of the adverse reactions listed in Table 1.

Table 2. Adverse Reactions Reported by ≥1% of risperidone-Treated Elderly Patients with Dementia in Double-Blind Placebo-Controlled Studies: Adverse Reactions Not Listed in Table 1 or Reported at ≥ 2 Times the Frequency of

Adverse Reactions Listed in Table 1.			
System/Organ Class Adverse Reaction	Risperidone Tablets (N=1009) %	PLACEBO (N=712) %	
Infections and Infestations			
Urinary tract infection	12.9	10.3	
Pneumonia	3.1	2.4	
Cellulitis	1.1	1.3	
Metabolism and Nutrition Disorders			
Decreased appetite	2.3	1.4	
Psychiatric Disorders			
Confusional state	2.7	0.1	
Nervous System Disorders			
Lethargy	7.6	2.2	
Transient ischemic attack	1.6	0.6	
Depressed level of consciousness	1.3	0.3	
Drooling	1.3	0	
Cerebrovascular accident	1.1	0.4	
Eye Disorders			
Conjunctivitis	2.7	1.1	
Vascular Disorders			
Hypotension	2.2	1.4	
Respiratory, Thoracic and Mediastinal Disorders			
Cough	4.6	3.1	
Rhinorrhea	1.5	0.8	
Gastrointestinal Disorders			
Dysphagia	1.5	1.3	
Fecaloma	1.1	0.4	
Skin and Subcutaneous Tissue Disorders			
Erythema	4.0	4.6	
Musculoskeletal and Connective Tissue Disorders			
Posture abnormal	1.8	0.8	
Joint swelling	1.5	0.3	
General Disorders			
Edema peripheral	7.7	3.9	
Pyrexia	4.0	1.8	
Gait disturbance	3.5	1.5	
Pitting edema	1.5	0.3	
Investigations			
Body temperature increased	2.6	0.8	

General Disorders and Admnistration Site Conditions: Gait abnormal, Edema\*, Pain

Injury, Poisoning and Procedural Complications: Fall

Impury, Poisoning and Procedural Complexities, Fail \*Insomnia includes: initial insomnia, middle insomnia; Akathisia includes: hyperkinesia, restless legs syndrome, restlessness; Dyskinesia includes: athetosis, chorea, choreoathetosis, movement disorder, muscle twitching, mycolonus; Dystonia includes: blepharospasm, cervical spasm, emprosthotonus, facial spasm, hypertonia, laryngospasm, muscle contractions involuntary, mytotonia, oculogyration, opisthotonus, oropharyngeal spasm, pleurothotonus, risus sardonicus, tetany, tongue paralysis, tongue spasm, torticollis, extrapyramidal symptoms, glabellar reflex abnormal, muscle rigidity, muscle tightness, musculoskeletal stiffness; Edema includes: generalized edema, edema peripheral, pitting edema.

<sup>14</sup>Frequencies calculated based on a pooled dataset of the 23 double-blind, placebo-controlled pivotal studies - 9 in adults, 6 in elderly patients with dementia, and 8 in pediatric

controlled pirotal studies - 9 in adults, 6 in elderly patients with dementia, and 8 in pediatric patients. Adverse reactions reported with risperidone and/or paliperidone by < 1% of risperidone-treated subjects in a pooled dataset of 23 double-blind, placebo-controlled pivotal studies (9 in adults, 6 in elderly patients with dementia, and 8 in pediatric patients) are shown in Table 4b.

Table 4b. Additional Adverse Reactions Reported with Risperidone and/or Paliperidone by < 1% of risperidone-treated Subjects<sup>1</sup> (The Terms within each System Organ Class are Sorted Alphabetically)

System/Organ Class: Adverse Reaction Infections and Infestations: Acarodermatitis, Bronchitis, Cystitis, Ear Infection, Eye Infection, Infection, Localised Infection, Onychomycosis, Respiratory Tract Infection, Tonsillitis, Viral Infection

Blood and Lymphatic System Disorders: Eosinophil Count Increased, Hematocrit Decreased, Neutropenia, White Blood Cell Count Decreased Endocrine Disorders: Glucose Urine Present, Hyperprolactinemia

Metabolism and Nutrition Disorders: Anorexia, Blood Cholesterol Increased, Blood Triglycerides Increased, Hyperglycemia, Polydipsia, Weight Decreased Psychiatric Disorders: Blunted Affect, Depression, Libido Decreased, Nightmare, Diso Discreters: Blunted Affect, Depression, Libido Decreased, Nightmare,

Sleep Disorder Nervous System Disorders: Cerebrovascular Disorder, Convulsion\*, Coordination Abnormal, Diabetic Coma, Hypoesthesia, Loss of Consciousness, Paresthesia, Psychomotor Hyperactivity, Tardive Dyskinesia, Unresponsive to Stimuli Eye Disorders: Dry Eye, Eye Rolling, Eyelid Margin Crusting, Glaucoma, Lacrimation Increased, Ocular Hyperemia Ear and Labyrinth Disorders: Tinnitus, Vertigo Cardiac Disorders: Atrioventricular Block, Bradycardia, Conduction Disorder, Electrocardiogram Abnormal, Electrocardiogram QT Prolonged, Sinus Arrhythmia

Vascular Disorders: Flushing Respiratory, Thoracic and Mediastinal Disorders: Dysphonia, Hyperventilation, Pneumonia Aspiration, Rales, Respiratory Disorder, Respiratory Tract Congestion, Whereing Vheezing

Gastrointestinal Disorders: Cheilitis, Fecal Incontinence, Flatulence, Gastroenteritis,

Swillen Tongue, Toshaches, Greinias, recarineorinence, Flaudence, Gastoenen Hepatobiliary Disorders: Garma-Glutamyltransferase Increased, Hepatic Enzyme Increased, Transaminases Increased Skin and Subcutaneous Tissue Disorders: Eczema, Skin Discoloration, Skin

Disorder, Skin Lesion Musculoskeletal and Connective Tissue Disorders: Joint Stiffness. Muscular

Musculoskeletal and Connective Tissue Disorders: Joint Stiffness, Muscular Weakness, Rhabdomyolysis Renal and Urinary Disorders: Dysuria Reproductive System and Breast Disorders: Amenorrhoea, Breast Disorder Ejaculation Disorder, Erectile Dysfunction, Gynecomastia, Menstrual Disorder', Sexual Dysfunction, Vaginal Discharge

General Disorders and Administration Site Conditions: Body Temperature Decreased, Chills, Discomfort, Drug Withdrawal Syndrome, Face Edema, Malaise, Peripheral Coldness, Thirst

Injury, Poisoning and Procedural Complications: Procedural Pain

\*Convulsion includes: Grand mal convulsion; Menstrual disorder includes: Menstruation

Trequiar, Oligomenorrhea.
 Frequencies calculated based on a pooled dataset of the 23 double-blind, placebo-controlled pivotal studies - 9 in adults, 6 in elderly patients with dementia, and 8 in pediatric

Controlled process and the second structure of the sec

Table 4c. Additional Adverse Reactions Reported with risperidone and/or paliperidone in Other Clinical Trials but Not Reported by risperidone-treated Subjects in Trials Listed in Tables 4a and 4b<sup>1</sup>. (The Terms within each System Organ Class are Sorted Alphabetically)

System/Organ Class: Adverse Reaction

Immune System Disorders: Anaphylactic reaction

Metabolism and Nutrition Disorders: Hyperinsulinemia Psychiatric Disorders: Anorgasmia

Nervous System Disorders: Head Titubation, Neuroleptic Malignant Syndrome Eye Disorders: Eye Movement Disorder, Photophobia

Cardiac Disorders: Postural Orthostatic Tachycardia Syndrom Gastrointestinal Disorders: Intestinal Obstruction Skin and Subcutaneous Tissue Disorders: Drug Eruption, Urticaria Reproductive System and Breast Disorders: Breast Discomfort, Breast Engorgement, Breast Enlargement, Menstruation Delayed

General Disorders and Administration Site Conditions: Induration

Frequencies of adverse reactions listed in Tables 4a and 4b were calculated from

the 23 double-blind, placebo-controlled pivotal studies 9 in adults, 6 in elderly patients with dementia, and 8 in pediatric patients. The adverse reactions listed in the table above were not observed in these studies, but were observed in other, nonpivotal clinical studies with Risperidex or in clinical studies with another risperidone- or paliperidone-containing product.

Hisperidex or in clinical studies with another rispendone- or palipendone-containing product. **Postmarketing Data** Adverse events first identified as adverse reactions during postmarketing experience with risperidone and/or paliperidone are included in Table 5. In each table, the frequencies are provided according to the following convention: very common  $\geq 1/10$ ; common  $\geq 1/1000$ ; to <1/10; uncommon  $\geq 1/1000$  to <1/1000; rare  $\geq 1/10000$  to <1/1000; very rare <1/10000, including isolated reports. In Table 5, adverse reactions are presented by frequency category based on spontaneous renorting rates.

reporting rates

Table 5. Adverse Reactions Identified During Risperidone and/or Paliperidone (The Freque Rates with Risperidone)	Postmarketing Experience with ency Is Based on Spontaneous Reporting
System/Organ Class	
Blood and Lymphatic Disorders	Very rare: Agranulocytosis, Thrombocytopenia
Endocrine Disorders	Very rare: Inappropriate antidiuretic hormone secretion
Metabolism and Nutrition disorders	Very rare: Diabetes mellitus, Diabetic ketoacidosis, Hypoglycemia, Water intoxication
Psychiatric Disorders	Very rare: Catatonia, Mania, Somnambulism (sleep walking), Sleep- related eating disorder
Nervous System Disorders	Very rare: Dysgeusia
Eye Disorders	Very rare: Floppy iris syndrome (intraoperative)
Cardian Disordara	Von crore Atrial fibrillation

### Body temperature increased 2.6

Double-Blind, Placebo-Controlled Data - Pediatric Patients Adverse reactions reported by ≥1% of risperidone-treated pediatric patients in eight 3-to 8-week double-blind, placebo-controlled trials are shown in Table 3. Table 3 includes only those adverse reactions that are either not listed in Table 1 or those adverse reactions that occurred at  $\ge 2$  times the frequency of the adverse reactions listed in Table 1.

Table 3. Adverse Reactions Reported by ≥1% of risperidone -Treated Pediatric Patients in Double-Blind Placebo-Controlled Studies: Adverse Reactions Not Listed in Table 1 or Reported at ≥2 Times the Frequency of Adverse Reactions Listed in Table 1.

Adverse Reactions Listed in Table 1.			
System/Organ Class Adverse Reaction	Risperidone Tablets ≤3mg/day (N=344) %	Risperidone Tablets >3-6 mg/day (N=95) %	PLACEBO (N=349) %
Infections and Infestations			
Upper respiratory tract infection	5.2	2.1	3.4
Rhinitis	3.5	1.1	3.2
Influenza	1.7	0	1.7
Metabolism and Nutrition Disorders			
Increased appetite	17.2	3.2	7.2
Psychiatric Disorders			
Middle insomnia	1.7	0	0.9
Listless	0.9	1.1	0
Nervous System Disorders			
Somnolence	26.5	15.8	7.7
Headache	22.4	21.1	14.9
Sedation	20.1	14.7	4.0
Dizziness	81	13.7	2.3
Tremor	6.1	8.4	1.0
Drooling	10.1	0.4	1.1
Diooning	4.5	1.1	0
Disturbance in attention	1.5	1.1	0.6
Disturbance in attention	0.9	1.1	0.6
Balance disorder	0.9	1.1	0
Hypersomnia	0.6	1.1	0.9
Cardiac Disorders			
Palpitations	0.6	2.1	0
Respiratory, Thoracic and Mediastinal Disorders			
Cough	8.7	3.2	6.6
Rhinorrhea	4.9	2.1	3.4
Epistaxis	3.8	4.2	1.7
Pharyngolaryngeal pain	3.8	2.1	1.7
Pulmonary congestion	0.3	1.1	0.3
Gastrointestinal Disorders			
Vomiting	13.7	8.4	9.2
Abdominal pain upper	8.4	6.3	4.6
Diarrhea	6.7	2.1	6.0
Salivary hypersecretion	3.5	6.3	0.9
Stomach discomfort	2.9	0	1.4
Abdominal pain	2.3	2.1	0.6
Skin and Subcutaneous Tissue Disorders			
Pruritus	1.2	0	0
Acne	0.9	1.1	0
Musculoskeletal and Connective Tissue Disorders			
Myalgia	1.2	1.1	0.9
Neck pain	0.3	1.1	0.3
Renal and Urinary Disorders			
Enuresis	6.4	1.1	5.2
Urinary incontinence	2.0	0	1.4
Pollakiuria	1.5	1.1	0.3
Reproductive System and Breast Disorders			0.0
Galactorrhea	0.6	2.1	0
General Disorders			
Fatigue	19.2	18.9	4.9
Pyrexia	8.4	3.2	6.3
Feeling abnormal	1.2	0	0
Sluggishness	0.9	1.1	0
Chest discomfort	0.3	11	0
Investigations	4.0	0.1	0.0
vveight increased	4.9	2.1	0.9
Blood prolactin increased	3.8	0	0.3

Name Date

Clinical Trial Data Paliperidone is the active metabolite of risperidone, therefore the adverse reaction profiles of these compounds (including both the oral and injectable formulations) are relevant to one another. Hence, a comprehensive listing of adverse reactions across paliperidone and insperidone products provides relevant safety information for these related products. Adverse reactions detected for one formulation of risperdone or paliperidone were considered as relevant safety information for the other formulation of the same compound unless the adverse reaction was unique to either the formulation or the route of administration. Adverse reactions for one compound that were not listed for the other compound were also added to the label for the other compound unless no meaningful new safety information could be derived from the additional adverse reactions. (i.e. the term was vague or the medical concept was already found in the current label). All adverse reactions and their frequencies of occurrence in patients on risperidone are reflected in the Adverse Reactions tables below.

Table 4a. Additional Adverse Reactions Reported with Risperidone and/or Paliperidone by ≥1% of risperidone-treated Subjects' (The Terms within each System Organ Class are Sorted Alphabetically)
System/Organ Class: Adverse Reaction
Psychiatric Disorders: Agitation, Insomnia*
Nervous System Disorders: Akathisia*, Dyskinesia*, Dystonia*, Parkinsonism*
Vascular Disorders: Hypertension
Musculoskeletal and Connective Tissue Disorders: Musculoskeletal pain

ardiac Disorders Very rare: Atrial fibrillatior Very rare: Deep vein thrombosis, Pulmonary embolism Vascular Disorders Respiratory, Thoracic, and Mediastinal Very rare: Sleep apnea syndrome Disorders **Gastrointestinal Disorders** Very rare: Pancreatitis, Ileus Very rare: Jaundice Hepatobiliary Disorders Very rare: Angioedema, Alopecia, Stevens-Johnson syndrome/Toxic Skin and Subcutaneous Tissue Disorders epidermal necrolysis Renal and Urinary Disorders Very rare: Urinary retention Pregnancy, Puerperium and Perinatal Conditions Very rare: Drug withdrawal syndrome neonatal Reproductive System and Breast Disorders Very rare: Priapism Very rare: Hypothermia General Disorders

# Overdose

 Overdose
 Symptoms and Signs

 In general, reported signs and symptoms have been those resulting from an exaggeration of the drug's known pharmacological effects. These include drowsiness and sedation, tachycardia and hypotension, and extrapyramidal symptoms. In overdose, QT-prolongation and convulsions have been reported.

 In general, reported signs and symptoms have been those resulting from an exaggeration of the drug's known pharmacological effects. These include drowsiness and sedation, tachycardia and hypotension, and extrapyramidal symptoms. In overdose, QT-prolongation and convulsions have been reported.

 In case of acute overdosage, the possibility of multiple drug involvement should be considered.

 Teatment

 Establish and maintain a clear airway and ensure adequate oxygenation and ventilation.

 Administration of activated charcoal together with a laxative should be considered. The possibility of obtundation, seizures, or dystonic reaction of the head and neck following should commence immediately and should include continuous electrocardiographic monitoring to detect possible arrhythmias. If antiarrhythmic therapy is administered. Orlonging effects that might be additive to those of risperidone. Similarly, it is reasonable to expect that the alpha-blocking properties of bretylium might be additive to those of risperidone, resulting in problematic hypotension.

 There is no specific antidote to Risperidone Tablets. Therefore, appropriate supportive measures should be instituted. Hypotension and circulatory collapse should be treated with appropriate measures such as intravenous fluids and/ or sympathomimetic agents. In case of severe extrapyramidal symptoms, anticholinerigc meadication should be admininstered. Close medical s

monitoring should continue until the patient recovers. PHARMACOLOGICAL PROPERTIES Pharmacotynamic Properties Pharmacotynamic Properties Pharmacotherapeutic group: Other antipsychotics, ATC code: N05AX08 Mechanism of Action Risperidone is a selective monoaminergic antagonist with unique properties. It has a high affinity for serotoninergic 5-HT2 and dopaminergic D2 receptors. Risperidone binds also to alpha1-adrenergic receptors. Risperidone has no affinity for cholinergic receptors. Althougf risperidone is a potent D2 antagonist, which is considered to improve the positive symptoms of schizophrenia, it causes less depression of motor activity and induction of catalepsy than classical neuroleptics. Balanced central serotonin and dopamine antagonism may reduce extrapyramidal side effect liability and extend the therapeutic activity to the negative and affective symptoms of schizophrenia. Pharmacokinetic Properties Absorption

### Absorption

Risperidone is completely absorbed after oral administration, reaching peak plasma concentrations within 1 to 2 hours. The absorption is not affected by food and thus risperidone can be given with or without meals.

risperidone can be given with or without meals. **Distribution** Risperidone is rapidly distributed. The volume of distribution is 1-2 l/kg. In plasma, risperidone is bound to albumin and alpha1-acid glycoprotein. The plasma protein binding of risperidone is 88%, that of 9-hydroxy-risperidone is 77%. One week after administration, 70% of the dose is excreted in the urine and 14% in the feces. In urine, risperidone plus 9-hydroxy-risperidone represent 35-45% of the dose. The reparidone is inardin and the feces. remainder is inactive metabolites.

### Metabolism

Metabolism Risperidone is metabolized by CYP 2D6 to 9-hydroxy-risperidone, which has a similar pharmacological activity as risperidone. Risperidone plus 9-hydroxy-risperidone form the active antipsychotic fraction. Another metabolic pathway of risperidone is N-dealkylation. Elimination After oral administration to psychotic patients, risperidone is eliminated with a half-life of about 3 hours. The elimination half-life of 9-hydroxy-risperidone and of the active antipsychotic fraction is 24 hours. Dose Proportionality Steady-state of risperidone is reached within 1 day in most patients. Steady-state of 9-hydroxy-risperidone is reached within 4-5 days of dosing. Risperidone plasma concentrations are dose-proportional within the therapeutic dose-range. Special Populations

concertifications are dose-proportional within the therapeutic dose-range. Special Populations Pediatrics The pharmacokinetics of risperidone, 9-hydroxy-risperidone and the active antipsychotic fraction in children are similar to those in adults. Renal and Hepatic Impairment A single-dose study showed higher active plasma concentrations and a reduced clearance of the active antipsychotic fraction by 30% in the elderly and 60% in patients with renal insufficiency. Risperidone plasma concentrations were normal in patients with liver insufficiency, but the mean free fraction of risperidone in plasma was increased by about 3%. 35%

30%. NON-CLINICAL INFORMATION In (sub) chronic toxicity studies, in which dosing was started in sexually immature rats and dogs, dose-dependent effects were present in male and female genital tract and mammary gland. These effects were related to the increased serum prolactin levels, resulting from the dopamine D2-receptor blocking activity of risperidone. In a toxicity study with juvenile rats, increased pup mortality and a delay in physical development was observed. In a 40-week study with juvenile dogs, sexual maturation was delayed. Long bone growth was not affected at a dose similar to the maximum human dose in adolescents (6 mg/day); effects were observed at a dose 4-fold (on an AUC basis) or 7-fold (on a mg/m2 basis) the maximum human dose in adolescents. All other safety data relevant to the prescriber have been included in the appropriate section.

PHARMACEUTICAL INFORMATION

PHARMACEUTICAL INFORMATION List of excipients: Tablet core: Lactose monohydrate, sodium laurilsulfate, maize starch, povidone, microcrystalline cellulose, colloidal anhydrous silica, magnesium stearate. Film-coating: Carnauba wax For 0.5mg Only: Opadry 02B34775 Red which contains: hypromellose, titanium dioxide, iron oxide red, macrogol. For 1mg, 2mg and 4mg: Opadry Y-1-7000 White which contains: hypromellose, titanium dioxide, macronol

For 1mg, 2mg and 4mg: Opadry Y-1-7000 White which contains. hypromenose, utameno dioxide, macrogol. Incompatibilities: None Shell life: 2 years Special precautions for storage: Do not store above 30°C. Nature and contents of container: The tablets are packed in ACLAR-coated PVC blisters, sealed with aluminum foil. The blisters are packed in actionary to contain either 20, 28 or 60 tablets per pack. Not all pack sizes may be marketed. Instructions for use/handling: No special requirements.

MANUFACTURED BY: Dexcel Ltd, 1 Dexcel Street, Or-Akiva, 3060000, Israel

LAST DATE OF REVISION OF THE TEXT: March 2023

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