

Risperidone

Amidrex OD-4

4 mg Orally Disintegrating Tablet
Antipsychotic



FORMULATION:
Each orally disintegrating tablet contains:
Risperidone USP _____ 4 mg

PRODUCT DESCRIPTION:
White to off-white coloured, round, biconcave orally disintegrating tablet with a scored tablet break on both sides plain.

PHARMACOLOGICAL PROPERTIES:
PHARMACODYNAMIC PROPERTIES:
Pharmacotherapeutic group: Other antipsychotics
Mechanism of action:

Risperidone is a selective monoaminergic antagonist with unique properties. It has a high affinity for serotonergic 5-HT₁ and dopaminergic D₂ receptors. Risperidone binds also to alpha-adrenergic receptors, and with lower affinity, to H₁-histaminergic and alpha₁-adrenoregic receptors. Risperidone has no affinity for cholinergic receptors. Although risperidone is a potent D₂ antagonist, which is considered to improve the positive symptoms of schizophrenia, it causes less depression of prolactin release in cats than classical antipsychotics. Balanced central serotonin and dopamine antagonism may reduce extrapyramidal side effect liability and extend the therapeutic activity to the active and inactive forms of schizophrenia.

Pharmacodynamic effects:
Schizophrenia
The efficacy of risperidone in the short-term treatment of schizophrenia was established in four studies in 10- to 18-week outpatients with over 2500 patients who met DSM-IV criteria for schizophrenia. In 6-week, placebo-controlled trial involving titration of risperidone in doses up to 16 mg/day administered twice daily, risperidone was superior to placebo on the Brief Psychiatric Rating Scale (BPRS) total score. In 8-week, placebo-controlled trial involving four fixed doses of risperidone (2 mg, 4 mg, 6 mg, and 8 mg daily), all four risperidone groups were superior to placebo on the Positive and Negative Syndrome scale (PANSS) total score. In 12-week, placebo-controlled trial involving five fixed doses of risperidone (0.4, 1, 2, 4, 8, and 16 mg/day administered twice-daily), the 4-, 8- and 16 mg/day risperidone dose groups were superior to the 1 mg/day risperidone group on PANSS total score. In a 4-week, placebo-controlled dose comparison trial involving two fixed doses of risperidone (4 and 8 mg/day administered once daily), both risperidone dose groups were superior to placebo on PANSS measures, including total PANSS and a response measure (>20% reduction in PANSS total score). In a longer-term trial, adult outpatients with schizophrenia were randomly assigned to 4-week treatment with risperidone. They were clinically stable for at least 4 weeks on an antipsychotic medicinal product and were randomized to 16 mg/day risperidone or placebo for 1 to 2 years of observation for relapse. Patients receiving risperidone experienced a significantly longer time to relapse over this time period compared to those receiving placebo.

Manic episodes in bipolar disorder
The efficacy of risperidone monotherapy in the acute treatment of manic episodes associated with bipolar disorder was evaluated in three double-blind, placebo-controlled monotherapy studies in approximately 620 patients who had bipolar I disorder, but not DSM-IV mania. In the three studies (Amidrex OD-4 starting dose 3 mg in two studies and 2 mg in one study) was shown to be significantly superior to placebo on the YMRS score. In a 12-week, placebo-controlled change from baseline in total Young Mania Rating Scale (YMRS) score at Week 3. Secondary efficacy outcomes were generally consistent with the primary outcome. The percentage of patients who achieved 50% in total YMRS score from baseline to the 3-week endpoint was significantly higher for risperidone than for placebo. One of the three studies included a haloperidol maintenance phase. Efficacy was maintained throughout the 9-week maintenance treatment period and was comparable between risperidone and haloperidol at Week 12. The efficacy of risperidone in comparison to mood stabilizers in the treatment of manic episodes was demonstrated in one of two 3-week double-blind studies in approximately 300 patients who met the DSM-IV criteria for bipolar I disorder. In one 3-week study, risperidone (2 mg starting dose 2 mg/day in addition to lithium or valproate was superior to lithium or valproate alone on the pre-specified primary endpoint, i.e., the change from baseline in YMRS total score. In the second study, risperidone (2 mg in two studies and 2 mg in one study) was shown to be significantly superior to placebo on the YMRS total score. A possible explanation for the failure of this study was induction of risperidone and carbamazepine combination treatment on the subtherapeutic levels of risperidone and 9-hydroxy-risperidone. When the carbamazepine group was excluded in a post-hoc analysis, risperidone combination treatment was superior to lithium or valproate alone in the reduction of YMRS total score.

Resistant aggression in dementia
The efficacy of risperidone in the treatment of Behavioural and Psychological Symptoms of Dementia (BPSD), which includes wandering, disturbance of sleep, aggression, agitation, hyperactivity, and affective disturbances was demonstrated in three double-blind, placebo-controlled studies in 1150 elderly patients with moderate to severe dementia. In the three studies, risperidone (2 mg starting dose 2 mg and 2 mg/day. Two flexible-dose studies included risperidone dose groups in the range of 0.5 to 4 mg/day and 0.5 to 2 mg/day, respectively. In the third study, risperidone was superior to placebo in all three effectiveness in treating aggression and less consistently in treating agitation and psychosis. The efficacy of risperidone was also confirmed in the Behavioural Pathology in Alzheimer's Disease Rating Scale (BEHAVE-AD) and the Cohen-Mansfield Agitation Inventory (CMAI). The treatment effect was maintained over 12 weeks of follow-up. The State Examination (MMSE) score (and consequently of the severity of dementia); of sedative properties of risperidone; of the presence or absence of psychotic; and of the type of dementia, i.e., organic, vascular, or mixed.

Conduct disorder
The efficacy of risperidone in the short-term treatment of disruptive behaviours was demonstrated in two double-blind placebo-controlled studies in approximately 1000 patients with disruptive behaviours. The diagnosis of disruptive behaviour disorders (DBD) and borderline intellectual functioning or mild or moderate mental retardation/learning disabilities in the two studies was confirmed by DSM-IV criteria. Risperidone was significantly superior to placebo on the pre-specified primary endpoint, i.e., the change from baseline in the Conduct Problem subscale of the Conner's Child Behavior Inventory (C-DBI) at week 6.

PHARMACOKINETIC PROPERTIES:
Absorption
Risperidone is completely absorbed after oral administration, reaching peak plasma concentrations 2 to 4 hours after dosing. The absolute bioavailability of risperidone is 70% (CV=25%). The relative oral bioavailability of risperidone from a tablet is 94% (CV=10%) compared with a solution. The absorption of risperidone is not affected if risperidone can be given with or without meals. Steady-state of risperidone is reached within 1 day in most patients. Steady-state of 9-hydroxy-risperidone is reached within 5 days of dosing.

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 90%, that of 9-hydroxy-risperidone is 95%.

Biotransformation and elimination
Risperidone is metabolized by CYP2D6 to 9-hydroxy-risperidone, which has a similar pharmacological activity to risperidone. Risperidone plus 9-hydroxy-risperidone form the active antipsychotic fraction. CYP2D6 is subject to genetic polymorphism. Extensive CYP2D6 metabolizers convert risperidone to 9-hydroxy-risperidone, whereas poor CYP2D6 metabolizers convert it much more slowly. Although extensive metabolizers have lower plasma concentrations of risperidone and higher concentrations than poor metabolizers, the pharmacokinetics of risperidone and 9-hydroxy-risperidone combined (i.e., the active antipsychotic fraction) is similar in both groups. The elimination half-life in extensive and poor metabolizers of CYP2D6.

Another metabolic pathway of risperidone is N-dealkylation. *In vitro* studies in human liver microsomes have demonstrated that at the relevant concentration does not substantially inhibit the metabolism of risperidone metabolized by cytochrome P-450 isozymes, including CYP2A₆, CYP2A₆, CYP2A₆, CYP2B₆, CYP2C₈, CYP2C₉, CYP2C₁₉, and CYP3A₄. 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 remainder is inactive metabolites. After oral administration to psychotic patients, risperidone is eliminated with a half-life of about 20 hours. The elimination half-life of 9-hydroxy-risperidone and of the active antipsychotic fraction is 24 hours.

Elimination
Risperidone plasma concentrations are dose-proportional within the therapeutic range. The elimination half-life of risperidone is 20 hours. A single-dose study showed on average a 43% higher active antipsychotic fraction plasma concentration in patients with renal insufficiency. In 60% were observed 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 35%.

Pharmacokinetics in children
The pharmacokinetics of risperidone, 9-hydroxy-risperidone and the active antipsychotic fraction in children are similar to those in adults. A population pharmacokinetic analysis revealed no apparent effect of gender, race or smoking habits on the pharmacokinetics of risperidone or of the active antipsychotic fraction.

INDICATIONS:
Risperidone (Amidrex OD-4) is indicated for the treatment of schizophrenia. Risperidone (Amidrex OD-4) is indicated for the treatment of moderate to severe manic episodes associated with bipolar disorders. Risperidone (Amidrex OD-4) is indicated for the short-term treatment (up to 6 weeks) of persistent and disabling symptoms of moderate to severe Alzheimer's dementia unresponsive to non-pharmacological approaches and when there is a risk of harm to self or others.

Risperidone (Amidrex OD-4) is indicated for the short-term symptomatic treatment (up to 6 weeks) of persistent aggression in conduct disorder in children and adolescents with moderate to severe disruptive behaviour disorder with or without intellectual disability, with or without intellectual functioning or mental retardation diagnosed according to DSM-IV criteria, in whom the severity of aggressive or other disruptive behaviours is such that pharmacological treatment. Pharmacological treatment should be an integral part of a more comprehensive treatment programme, including psychosocial and educational interventions. Risperidone (Amidrex OD-4) is prescribed by a specialist in child neurology and child and adolescent psychiatry or psychiatrists well familiar with the treatment of conduct disorder in children and adolescents.

DOSEAGE AND ADMINISTRATION:

Schizophrenia
Adults
Risperidone (Amidrex OD-4) may be given once daily or twice daily. Patients should start with 2 mg/day of risperidone. The dosage may be increased on the second day to 4 mg. Subsequently, the dosage can be increased, unchanged or reduced, to a maximum of 16 mg/day. 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 demonstrated superior efficacy to doses of 10 mg/day and may increase the risk of side effects and symptoms. Safety of doses above 16 mg/day has not been evaluated, and are therefore not recommended.

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.

Pediatric population
Risperidone is not recommended for use in children below age 18 with schizophrenia due to a lack of data on efficacy. Manic episodes in bipolar disorder

Risperidone (Amidrex OD-4) should be administered on a once daily schedule, starting with 2 mg risperidone. Dosage adjustments, if indicated, should occur at intervals of not less than 4 hours and in dose increments of 1 mg per day. Risperidone can be administered in flexible doses over a range of 0.5 mg per day to optimize each patient's level of efficacy and tolerability. Daily doses over 6 mg risperidone have not been investigated in patients with manic episodes.

All symptoms of manic episodes, the continued use of Amidrex OD-4 must be evaluated and justified on an ongoing basis.

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. Since clinical experience in elderly is limited, caution should be exercised.

Pediatric population
Risperidone (Amidrex OD-4) is not recommended for use in children below age 18 with bipolar mania due to a lack of data on efficacy. Persistent aggression in patients with moderate to severe Alzheimer's dementia

A starting dose of 0.25 mg twice daily is recommended. This dosage can be individually adjusted by increments of 0.25 mg twice daily, not more than once daily, until the optimum dose is 0.5 mg twice daily for most patients. Some patients, however, may benefit from doses up to 1 mg twice daily. Risperidone (Amidrex OD-4) should not be used in patients with moderate to severe Alzheimer's dementia. During treatment, patients must be evaluated frequently and regularly, and the need for continuing treatment reassessed.

Conduct disorder
Children and adolescents from 5 to 18 years of age
For subjects 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, until the optimum dose is 1 mg once daily for most patients. Some patients, however, may benefit from 0.5 mg once daily while others may require higher doses. This dosage can be individually adjusted by increments of 0.25 mg once daily, not more than once daily, if needed. The optimum dose is 0.5 mg once daily for most patients. Some patients, however, may benefit from 0.25 mg once daily while others may require higher doses. This dosage can be individually adjusted by increments of 0.25 mg once daily, not more than once daily.

As with all symptomatic treatments, the continued use of Risperidone (Amidrex OD-4) must be evaluated and justified on an ongoing basis.

Renal and hepatic impairment
Patients with renal impairment have less ability to eliminate the active antipsychotic fraction. In addition, patients with moderate to severe renal impairment with impaired hepatic function have increases in plasma concentration of the free fraction of risperidone.

Renal and hepatic impairment
Patients with renal impairment have less ability to eliminate the active antipsychotic fraction than adults with normal renal function. Patients with impaired hepatic function have increases in plasma concentration of the free fraction of risperidone.

Renal and hepatic impairment
Patients with renal impairment have less ability to eliminate the active antipsychotic fraction than adults with normal renal function. Patients with impaired hepatic function have increases in plasma concentration of the free fraction of risperidone (See Dosage and Administration).

Concomitant use with furosemide
In the Risperidone placebo-controlled trials in elderly patients with dementia, a high percentage of patients taking other diuretics as concomitant treatment with risperidone (Amidrex OD-4) were also taking thiazide diuretics used in low dose) was not associated with similar findings.

Neurophysiological mechanism has been identified to explain this finding, and no consistent pattern for cause of death observed.

Concomitant use with furosemide
In the Risperidone placebo-controlled trials in elderly patients with dementia, a high percentage of patients taking other diuretics as concomitant treatment with risperidone (Amidrex OD-4) were also taking thiazide diuretics used in low dose) was not associated with similar findings.

Neurophysiological mechanism has been identified to explain this finding, and no consistent pattern for cause of death observed.

Concomitant use with furosemide
In the Risperidone placebo-controlled trials in elderly patients with dementia, a high percentage of patients taking other diuretics as concomitant treatment with risperidone (Amidrex OD-4) were also taking thiazide diuretics used in low dose) was not associated with similar findings.

Neurophysiological mechanism has been identified to explain this finding, and no consistent pattern for cause of death observed.

Concomitant use with furosemide
In the Risperidone placebo-controlled trials in elderly patients with dementia, a high percentage of patients taking other diuretics as concomitant treatment with risperidone (Amidrex OD-4) were also taking thiazide diuretics used in low dose) was not associated with similar findings.

Neurophysiological mechanism has been identified to explain this finding, and no consistent pattern for cause of death observed.

Concomitant use with furosemide
In the Risperidone placebo-controlled trials in elderly patients with dementia, a high percentage of patients taking other diuretics as concomitant treatment with risperidone (Amidrex OD-4) were also taking thiazide diuretics used in low dose) was not associated with similar findings.

Neurophysiological mechanism has been identified to explain this finding, and no consistent pattern for cause of death observed.

Concomitant use with furosemide
In the Risperidone placebo-controlled trials in elderly patients with dementia, a high percentage of patients taking other diuretics as concomitant treatment with risperidone (Amidrex OD-4) were also taking thiazide diuretics used in low dose) was not associated with similar findings.

Neurophysiological mechanism has been identified to explain this finding, and no consistent pattern for cause of death observed.

Concomitant use with furosemide
In the Risperidone placebo-controlled trials in elderly patients with dementia, a high percentage of patients taking other diuretics as concomitant treatment with risperidone (Amidrex OD-4) were also taking thiazide diuretics used in low dose) was not associated with similar findings.

Neurophysiological mechanism has been identified to explain this finding, and no consistent pattern for cause of death observed.

Concomitant use with furosemide
In the Risperidone placebo-controlled trials in elderly patients with dementia, a high percentage of patients taking other diuretics as concomitant treatment with risperidone (Amidrex OD-4) were also taking thiazide diuretics used in low dose) was not associated with similar findings.

Neurophysiological mechanism has been identified to explain this finding, and no consistent pattern for cause of death observed.

Concomitant use with furosemide
In the Risperidone placebo-controlled trials in elderly patients with dementia, a high percentage of patients taking other diuretics as concomitant treatment with risperidone (Amidrex OD-4) were also taking thiazide diuretics used in low dose) was not associated with similar findings.

Neurophysiological mechanism has been identified to explain this finding, and no consistent pattern for cause of death observed.

Concomitant use with furosemide
In the Risperidone placebo-controlled trials in elderly patients with dementia, a high percentage of patients taking other diuretics as concomitant treatment with risperidone (Amidrex OD-4) were also taking thiazide diuretics used in low dose) was not associated with similar findings.

Neurophysiological mechanism has been identified to explain this finding, and no consistent pattern for cause of death observed.

Concomitant use with furosemide
In the Risperidone placebo-controlled trials in elderly patients with dementia, a high percentage of patients taking other diuretics as concomitant treatment with risperidone (Amidrex OD-4) were also taking thiazide diuretics used in low dose) was not associated with similar findings.

Neurophysiological mechanism has been identified to explain this finding, and no consistent pattern for cause of death observed.

Concomitant use with furosemide
In the Risperidone placebo-controlled trials in elderly patients with dementia, a high percentage of patients taking other diuretics as concomitant treatment with risperidone (Amidrex OD-4) were also taking thiazide diuretics used in low dose) was not associated with similar findings.

Neurophysiological mechanism has been identified to explain this finding, and no consistent pattern for cause of death observed.

Concomitant use with furosemide
In the Risperidone placebo-controlled trials in elderly patients with dementia, a high percentage of patients taking other diuretics as concomitant treatment with risperidone (Amidrex OD-4) were also taking thiazide diuretics used in low dose) was not associated with similar findings.

Neurophysiological mechanism has been identified to explain this finding, and no consistent pattern for cause of death observed.

Concomitant use with furosemide
In the Risperidone placebo-controlled trials in elderly patients with dementia, a high percentage of patients taking other diuretics as concomitant treatment with risperidone (Amidrex OD-4) were also taking thiazide diuretics used in low dose) was not associated with similar findings.

Neurophysiological mechanism has been identified to explain this finding, and no consistent pattern for cause of death observed.

Concomitant use with furosemide
In the Risperidone placebo-controlled trials in elderly patients with dementia, a high percentage of patients taking other diuretics as concomitant treatment with risperidone (Amidrex OD-4) were also taking thiazide diuretics used in low dose) was not associated with similar findings.

Neurophysiological mechanism has been identified to explain this finding, and no consistent pattern for cause of death observed.

Concomitant use with furosemide
In the Risperidone placebo-controlled trials in elderly patients with dementia, a high percentage of patients taking other diuretics as concomitant treatment with risperidone (Amidrex OD-4) were also taking thiazide diuretics used in low dose) was not associated with similar findings.

Neurophysiological mechanism has been identified to explain this finding, and no consistent pattern for cause of death observed.

Concomitant use with furosemide
In the Risperidone placebo-controlled trials in elderly patients with dementia, a high percentage of patients taking other diuretics as concomitant treatment with risperidone (Amidrex OD-4) were also taking thiazide diuretics used in low dose) was not associated with similar findings.

Parkinson's disease and dementia with Lewy bodies
Physicians should weigh the risks versus the benefits when prescribing antipsychotics, including Risperidone (Amidrex OD-4), to patients with Parkinson's Disease or Dementia with Lewy Bodies (DLB). Parkinson's Disease may worsen with risperidone. Both groups may be at increased risk of Neuroleptic Malignant Syndrome as well as having an increased sensitivity to antipsychotic medicinal products; these patients were excluded from clinical trials. Manifestation of this increased sensitivity can include confusion, obtundation, postural instability with frequent falls, and additional extrapyramidal symptoms.

Hyperglycaemia and diabetes mellitus
Hyperglycaemia, diabetes mellitus, and exacerbation of pre-existing diabetes have been reported during treatment with Risperidone (Amidrex OD-4). In some cases, a decrease in body weight has been reported which may be a predisposing factor. Association with ketoacidosis has been reported very rarely and rarely with diabetic ketoacidosis. Risperidone is not considered a clinically significant weight utilised antipsychotic guidelines. Patients treated with any atypical antipsychotic, including Risperidone (Amidrex OD-4), should be monitored for symptoms (such as polydipsia, polyuria, polyphagia and weakness) and patients with diabetes mellitus should be monitored regularly for worsening of glucose control.

Weight gain
Significant weight has been reported with Risperidone (Amidrex OD-4) use. Weight should be monitored regularly.

Hyperprolactinaemia
Hyperprolactinaemia is a common side effect of treatment with antipsychotics. Risperidone (Amidrex OD-4) is not considered a clinically significant prolactin-related side-effects (e.g. gynaecomastia, menstrual disorders, anovulation, prolactin disorder, decreased libido, erectile dysfunction, and galactorrhea).

Tissue culture studies suggest that cell growth in human breast tumors may be stimulated by prolactin. There is no association between the administration of antipsychotics has so far been demonstrated in clinical and epidemiological studies, caution is recommended in patients with a history of breast cancer. Risperidone (Amidrex OD-4) should be used with caution in patients with pre-existing hyperprolactinaemia and in patients with possible prolactin-dependent tumours.

QT prolongation
QT prolongation has very rarely been reported post-marketing. As with other antipsychotics, caution should be exercised when risperidone is prescribed in patients with known cardiovascular disease, family history of QT prolongation, bradycardia, or other conditions that may increase the risk of QT prolongation, and in concomitant use with medicines known to prolong the QT interval.

Seizures
Risperidone (Amidrex OD-4) should be used cautiously in patients with a history of seizures or other conditions that potentially lower the seizure threshold.

Priapism
Priapism may occur with Risperidone (Amidrex OD-4) treatment due to its alpha-adrenergic blocking effects.

Body temperature regulation
Disruption of the body's ability to reduce core body temperature has been reported to an extent that is appropriate for the clinical setting when prescribing Risperidone (Amidrex OD-4) to patients who will be experiencing conditions which may contribute to an elevation in core body temperature, such as strenuous physical exertion, heat, or heat, receiving concomitant treatment with anticholinergic activity, or being subject to dehydration.

Antiemetic effect
An antiemetic effect has not been observed in preclinical studies with risperidone. This effect, if it occurs in humans, may mask the signs and symptoms of overdose with certain medicines or of conditions such as renal and hepatic impairment, and brain tumour.

Renal and hepatic impairment
Patients with renal impairment have less ability to eliminate the active antipsychotic fraction than adults with normal renal function. Patients with impaired hepatic function have increases in plasma concentration of the free fraction of risperidone (See Dosage and Administration).

Renal and hepatic impairment
Patients with renal impairment have less ability to eliminate the active antipsychotic fraction than adults with normal renal function. Patients with impaired hepatic function have increases in plasma concentration of the free fraction of risperidone (See Dosage and Administration).

Renal and hepatic impairment
Patients with renal impairment have less ability to eliminate the active antipsychotic fraction than adults with normal renal function. Patients with impaired hepatic function have increases in plasma concentration of the free fraction of risperidone (See Dosage and Administration).

Concomitant use with furosemide
In the Risperidone placebo-controlled trials in elderly patients with dementia, a high percentage of patients taking other diuretics as concomitant treatment with risperidone (Amidrex OD-4) were also taking thiazide diuretics used in low dose) was not associated with similar findings.

Neurophysiological mechanism has been identified to explain this finding, and no consistent pattern for cause of death observed.

Concomitant use with furosemide
In the Risperidone placebo-controlled trials in elderly patients with dementia, a high percentage of patients taking other diuretics as concomitant treatment with risperidone (Amidrex OD-4) were also taking thiazide diuretics used in low dose) was not associated with similar findings.

Neurophysiological mechanism has been identified to explain this finding, and no consistent pattern for cause of death observed.

Concomitant use with furosemide
In the Risperidone placebo-controlled trials in elderly patients with dementia, a high percentage of patients taking other diuretics as concomitant treatment with risperidone (Amidrex OD-4) were also taking thiazide diuretics used in low dose) was not associated with similar findings.

Neurophysiological mechanism has been identified to explain this finding, and no consistent pattern for cause of death observed.

Concomitant use with furosemide
In the Risperidone placebo-controlled trials in elderly patients with dementia, a high percentage of patients taking other diuretics as concomitant treatment with risperidone (Amidrex OD-4) were also taking thiazide diuretics used in low dose) was not associated with similar findings.

Neurophysiological mechanism has been identified to explain this finding, and no consistent pattern for cause of death observed.

Concomitant use with furosemide
In the Risperidone placebo-controlled trials in elderly patients with dementia, a high percentage of patients taking other diuretics as concomitant treatment with risperidone (Amidrex OD-4) were also taking thiazide diuretics used in low dose) was not associated with similar findings.

Neurophysiological mechanism has been identified to explain this finding, and no consistent pattern for cause of death observed.

Concomitant use with furosemide
In the Risperidone placebo-controlled trials in elderly patients with dementia, a high percentage of patients taking other diuretics as concomitant treatment with risperidone (Amidrex OD-4) were also taking thiazide diuretics used in low dose) was not associated with similar findings.

Neurophysiological mechanism has been identified to explain this finding, and no consistent pattern for cause of death observed.

Concomitant use with furosemide
In the Risperidone placebo-controlled trials in elderly patients with dementia, a high percentage of patients taking other diuretics as concomitant treatment with risperidone (Amidrex OD-4) were also taking thiazide diuretics used in low dose) was not associated with similar findings.

Neurophysiological mechanism has been identified to explain this finding, and no consistent pattern for cause of death observed.

Concomitant use with furosemide
In the Risperidone placebo-controlled trials in elderly patients with dementia, a high percentage of patients taking other diuretics as concomitant treatment with risperidone (Amidrex OD-4) were also taking thiazide diuretics used in low dose) was not associated with similar findings.

Neurophysiological mechanism has been identified to explain this finding, and no consistent pattern for cause of death observed.

Concomitant use with furosemide
In the Risperidone placebo-controlled trials in elderly patients with dementia, a high percentage of patients taking other diuretics as concomitant treatment with risperidone (Amidrex OD-4) were also taking thiazide diuretics used in low dose) was not associated with similar findings.

Neurophysiological mechanism has been identified to explain this finding, and no consistent pattern for cause of death observed.

Concomitant use with furosemide
In the Risperidone placebo-controlled trials in elderly patients with dementia, a high percentage of patients taking other diuretics as concomitant treatment with risperidone (Amidrex OD-4) were also taking thiazide diuretics used in low dose) was not associated with similar findings.

Neurophysiological mechanism has been identified to explain this finding, and no consistent pattern for cause of death observed.

Concomitant use with furosemide
In the Risperidone placebo-controlled trials in elderly patients with dementia, a high percentage of patients taking other diuretics as concomitant treatment with risperidone (Amidrex OD-4) were also taking thiazide diuretics used in low dose) was not associated with similar findings.

Neurophysiological mechanism has been identified to explain this finding, and no consistent pattern for cause of death observed.

Concomitant use with furosemide
In the Risperidone placebo-controlled trials in elderly patients with dementia, a high percentage of patients taking other diuretics as concomitant treatment with risperidone (Amidrex OD-4) were also taking thiazide diuretics used in low dose) was not associated with similar findings.

Neurophysiological mechanism has been identified to explain this finding, and no consistent pattern for cause of death observed.

Concomitant use with furosemide
In the Risperidone placebo-controlled trials in elderly patients with dementia, a high percentage of patients taking other diuretics as concomitant treatment with risperidone (Amidrex OD-4) were also taking thiazide diuretics used in low dose) was not associated with similar findings.

Neurophysiological mechanism has been identified to explain this finding, and no consistent pattern for cause of death observed.

Concomitant use with furosemide
In the Risperidone placebo-controlled trials in elderly patients with dementia, a high percentage of patients taking other diuretics as concomitant treatment with risperidone (Amidrex OD-4) were also taking thiazide diuretics used in low dose) was not associated with similar findings.

Neurophysiological mechanism has been identified to explain this finding, and no consistent pattern for cause of death observed.

Concomitant use with furosemide
In the Risperidone placebo-controlled trials in elderly patients with dementia, a high percentage of patients taking other diuretics as concomitant treatment with risperidone (Amidrex OD-4) were also taking thiazide diuretics used in low dose) was not associated with similar findings.

Neurophysiological mechanism has been identified to explain this finding, and no consistent pattern for cause of death observed.

Concomitant use with furosemide
In the Risperidone placebo-controlled trials in elderly patients with dementia, a high percentage of patients taking other diuretics as concomitant treatment with risperidone (Amidrex OD-4) were also taking thiazide diuretics used in low dose) was not associated with similar findings.

Neurophysiological mechanism has been identified to explain this finding, and no consistent pattern for cause of death observed.

Concomitant use with furosemide
In the Risperidone placebo-controlled trials in elderly patients with dementia, a high percentage of patients taking other diuretics as concomitant treatment with risperidone (Amidrex OD-4) were also taking thiazide diuretics used in low dose) was not associated with similar findings.

Neurophysiological mechanism has been identified to explain this finding, and no consistent pattern for cause of death observed.

Concomitant use with furosemide
In the Risperidone placebo-controlled trials in elderly patients with dementia, a high percentage of patients taking other diuretics as concomitant treatment with risperidone (Amidrex OD-4) were also taking thiazide diuretics used in low dose) was not associated with similar findings.

Antifungals
itraconazole, a strong CYP3A4 inhibitor and a P-gp inhibitor, at a dosage of 200 mg/day increased the plasma concentrations of the active antipsychotic fraction by about 70%, at risperidone doses of 2 to 8 mg/day.

Ketoconazole, a strong CYP3A4 inhibitor and a P-gp inhibitor, at a dosage of 200 mg/day increased the plasma concentrations of risperidone and decreased the plasma concentrations of 9-hydroxyrisperidone.

Antipsychotics
The pharmacokinetics may increase the plasma concentrations of risperidone but not those of the active antipsychotic fraction.

Effect of other medicinal products on the pharmacokinetics of risperidone
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 risperidone and the active antipsychotic fraction.

Antipsychotics
Aripiprazole, a CYP2D6 and CYP3A4 substrate: Risperidone tablets or injections did not affect the pharmacokinetics of the sum of aripiprazole and its active metabolite, desmethylaripiprazole.

PREGNANCY AND LACTATION:
Pregnancy
There are no adequate data from the use of risperidone in pregnant women for establishing a risk to the foetus. Risperidone was not teratogenic in animal studies but other types of reproductive toxicity were seen. The potential risk for humans is unknown. Therefore, risperidone (Amidrex OD-4) should not be used during pregnancy unless clearly necessary. If discontinuation during pregnancy is necessary, it should be noted as abrupt.