Increased Mortality in Elderly Patients with Dementia-Related Psychosis: Elderly patients with dementia-related psychosis treated with atypical antipsycholic drugs are at an increased risk of death compared to placebo. Analyses of seventeen placebo controlled trials (modal duration of 10 weeks) in these patients revealed a risk of death in the drug-treated patients of between 1.6 to 1.7 times that seen in placebo-treated patients. Over the course of a typical 10 week controlled trial, the rate of death in drug-treated patients was about 4.5%, compared to a rate of about 2.6% in the placebo group. Although the causes of death were varied, most of the deaths appeared to be either cardiovascular (e.g., heart failure, sudden death) or infectious (e.g., pneumonia) in nature. GEODON (ziprasidone) is not approved for the treatment of patients with Dementia-Related Psychosis.

INDICATIONS—GEODON Capsules is indicated for the treatment of schizophrenia and acute manic or mixed episodes associated with bipolar disorder with or without psychotic features. GEODON® (ziprasidone mesylate) for Injection is Indicated for acute agitation in sechizophrenia entitlet.

schizophranic patients.

CONTRAINDICATIONS—*GT Prolongation*: Because of GEODON's dose-related prolongation of the OT interval and the known association of tatal arrhythmias with OT prolongation by some other drugs, GEODON is contraindicated in patients with a known history of OT prolongation (including congenital long OT syndrome), with recent acute mycoardia infarction, or with uncompensated heart failure (see WARNINGS). Pharmacokineticipharmacodynamics studies between GEODON and other drugs that prolong the OT interval have not been performed. An additive effect of GEODON and other drugs that prolong the OT interval cannot be excluded. Therefore, GEODON should not of statal arrhymmics with a prolongation by some correct arranges. Dev. Durk so contraintaction in patients with a known instituty of the prolongation (including congenital long OT syndrome), with recent acute myocardia infraction in patients with a known institution of the given with dotalide, social quinction, other diseases and ill anti-arrhythmics, mesoridazine, thioriodazine, chioriomazine, droperidod, primozide, spaniosain, galifoxacin, mostifoxacin, indicated with drugs that have demonstrated OT prolongazine, droperidod, primozide, spaniorie effects and have thus effected escribide in the full prescribing information as contraindication as contraindications as contraindication as contraindications as contraindication as contraindications as contraindication as contraindicated in individuals with a known hypersensitivity to the product. WARNINGS—Increased Martality in Etichry Patients with bementia-related psychosis treated with a special analysis of the product of the product of the contraint of t intervals may also increase the risk of further protongation and arrhythmia, but it is not clear that routine screening ECB measures are effective in detecting such patients. Bather, GEDDOM should be avoided in patients with histories of significant cardiovasculfiless, e.g., OT protongation, recent acute myocardial infarction, uncompensated heart failure, or cardiac arrhythmia, ECB measures are effective in detecting such patients who are found to have persistent OT, measurements > 500 mesc. Neurolegite Malignant Syndrome (NMS): A potentially fatal symptom complex sometimes referred to as Neurolegite Malignant Syndrome (NMS) has been reported in association with administration of antipsychotic drugs. The management of NMS should include: (1) immediate discontinuation of antipsychotic drugs. The management of NMS should include: (1) immediate discontinuation of antipsychotic drugs and other drugs not essential to concurrent therapy; (2) intensive symptomatic treatment and medical monitoring; and (3) treatment of any concomitant serious medical problems for which specific treatments are available. (1) a patient requires antipsychotic drug treatment of any concomitant serious medical problems for which specific treatments are available. (1) a patient should be carefully normolized, since recurrences of NMS have been reported. Tardiva byskinesis (17D): A syndrome of optentially irreversible, involuntary, dyskinetic movements may develop in patients undergoing treatment with antipsychotic drugs. Although the prevalence of TD appears to be highest among the edderly, especially elderly volvement, its imposition to prevalence estimates to predict, at the inception of antipsychotic reatment, with patients treated with applical antipsychotic should be monitored, in the patients that the patients of the properties in patients treated with applical antipsychotic should be monitored for symptoms of the properties in patients treated with application and psychotic should be monitored for symptoms of the pregration and psycho wind between a systems services and a contracting the prescription of these drugs is an aniagonize operation between the prescription of these drugs is contemplated in a patient with previously debeted breast cancer are prolactin dependent in vitro, a factor of potential importance if the prescription of these drugs is contemplated in a patient with previously debeted breast cancer are prolactin dependent in vitro, a factor of potential importance if the prescription of these drugs is contemplated in a patient with previously debeted breast cancer are prolaction dependent in vitro, a factor of potential importance in the prescription of these drugs is contemplated in a patient with previously debeted breast cancer are prolaction debeted in the previously debeted by a continued to deconcisive at this time. Potential for Cognitive and Mojor Impairment. Somnolence was seporated in 14% of EEDOND patients vs 7% of placebo patients. Somnolence let of discontinuation in 0.3% of patients in short-term clinical trials. Since EEOOND patients vs 7% of placebo patients. Somnolence let of discontinuation in 0.3% of patients in short-term clinical trials. Since EEOOND patients vs 7% of placebo patients. Somnolence let of discontinuation in 0.3% of patients in short-term clinical trials. Since EEOOND has the potential to impair judgment, thinking, or motor skills, patients should be actioned about performing activities requiring mental alertiness, such as operating a motor vehicle (including automobility or operating hazardous machinery until they are reasonably certain that GEOON therapy does not affect them adversely. <u>Pragism:</u> One case of priapism was reported in the premarketing that deals are should accompany drug up the prays (EEOON) as in patients with Certain to an appreciation of the premated contracting and activities of a distribution of the services of the contraction of the services of the services of the contraction of the services of the contraction of the services of the services of the services of the servic

information and instructions in the Patient Information Section should be discussed with patients. Laboratory Tests: Patients being considered for GEODON treatment who are at risk of significant electrolyte disturbances should have baseline serum potassium and magnesium for GEDDON treatment who are at risk of significant electrolyte disturbances should have baseline serum potassium and magnesium measurements. Low serum potassium and magnesium simulations are repleted effore treatment. Patients who are started on the discount of the present o pharmacokinetics. Coadiministration of 30 mL of Maalax did not affect GEODON pharmacokinetics. Population pharmacokinetic analysis of schizophrenic patients in controlled chinical trials has not revealed any clinically significant pharmacokinetic interactions with proparaniol, or lorazepam. Effect of GEODON on Other Drugs: In witro studies revealed little potential for GEODON to Interfere with the metabolism of drugs cleared primarity by CYP18.4 CYP205.4 CYP205.4 CYP205.4 CYP205.4 The potential for GEODON to the potential for drug interactions with GEODON due to displacement. GEODON 40 mg bid administered concomitantly with Inthium 450 mg bid for 7 days did not affect the steady-state level or renal clearance of lithium. GEODON 20 mg bid did not affect the pharmacokinetics of concomitantly administered contraceptive, exhibit, estimated in the metabolism of deviamentary phara, a CYP206 model substrate, to its major metabolite, destrophan. There was no statistically significant change in the urinary destromethorphan deviator phara in Carcinogenesis, languagesis, Impairment of Fertility: Lifetime carcinogenicity studies were conducted with EEODON in Long Evans rats and CD-1 mice. In male metabolism destreases and contraces the pharages of the process of the proces There was no statistically significant change in the urinary dexfromethorphan/dexfrorphan ratio. Carcinagenesis, Impairment of Fartility: Lifetime carcinogenicity studies were conducted with GEODON in Long Evans rats and CD-1 mice. In male mice, there was no increase in incidence of tumors relative to controls. In female mice there were dose-related increases in the incidences of pfutuary gland adenoma and carcinoma, and mammary gland adenocarcinoma at all doses tested. Increases in serum prolactin were observed in a 1-month delary study in lemale, but not male, mice. GEODON had no effect on serum prolactin in ratis in a 5-week detary study at the doses that were used in the carcinogenicity study. The relevance for human risk of the findings of prolactin-mediated endocrine tumors in rodents is unknown (see Hypergrolactinemia). Mutagenesis: There was a reproducible mutagenic response in the Ames assay in one strain of S. hyphimurium in the absence of metabolic activation. Positive results were obtained in both the in vitro mammalian cell gene mutation assay and the in vitro chromosomal aberation assay in human lymphocytes. Impairment of Fertility, GEODON increased time to copulation in Spraque-Dawley ratis in two fertility and early embryonic development studies at doses of 10 to 16 mg/kg/day (2 times the MRHD on a mg/m² basis). The reventile of the MRHD on a mg/m² basis). There was no effect on fertility at dearly on a mg/m² basis). There was no effect on fertility at dearly on a mg/m² basis). There was no effect on fertility at dearly on the potential benefit justifies the potential risk to the fetus. Labar and Belivery. The effect of ECDON should be used during pregnancy—Pregnancy Category C: There are no adequate and well-controlled studies in pregnant women. GCDON should be used during pregnancy—Pregnancy Category C: There are no adequate and well-controlled studies in pregnant women. GCDON on labor and delivery in humans is unknown. Mixing Mothers: its not known whether, and if so in what amount. GCDON on Schloppinent Approximately 4 "his (24" (AL) offset Universities) an including of dropouts for rain among GEOLON patients (1"h) compared to no placebo patients (see PRECAUTIONS). Bipour Maina; Approximately 5.6" (1872) of GEOLON related patients in short-term, placebo controlled studies controlled variety of the Approximately 5.6" (1872) of GEOLON related patients in short-term, placebo controlled studies controlled variety of the Approximately 5.6" (1872) of GEOLON related patients in short-term, placebo controlled studies controlled variety of the Approximately 5.6" (1872) of GEOLON related patients in short-term, placebo controlled studies controlled variety of the Approximately 5.6" (1872) of GEOLON related patients in short-term, placebo controlled studies controlled variety of the Approximately of the Approximately of GEOLON in short of Warriety of the Approximately of GEOLON in short of Warriety of Warriety of GEOLON in short of Warriety of Warriety of GEOLON in short of Warriety of Warriety of Warriety of Warriety of Warriety of Warriety of GEOLON in Short of Warriety of War

References: 1. Daniel DG, Polkin SG, Reves KR, Swift RH, Harrigan EP. Intramuscular (IM) ziprasidone 20 mg is effective in reducing acute agitation associated with psychosis: a double-blind, randomized train. Psychopharmacology. 2001;155:128-134. 2. Lesem MD, Zajecka JM, Swift RH, Reves KR, Harrigan EP. Intramuscular representation of special control of the psychosis: a double-blind, randomized train. Psychopharmacology. 2001;155:128-134. 2. Lesem MD, Zajecka JM, Swift RH, Reves KR, Harrigan EP. Intramuscular representation of special control of the psychopharmacology. 2005;178:514-523. 4. Brook S, Lucey JV, Gunn KP, for the Ziprasidone and Schizophrenia and schizophren

Control acute agitation with

GEODON® for Injection | ziprasidone mesylate |

In schizophrenia. . .

Rapid control* with low EPS1-4

- Low incidence of movement disorders¹⁻⁴
- Smooth transition, with continued improvement, from IM to oral therapy^{3,4}
- May be used concomitantly with benzodiazepines^{2,3,5}

*In 2 pivotal studies vs control, significance was achieved at the 2-hour primary end point (10 mg study) and at the 4-hour primary end point (20 mg study).



GEODON for Injection is indicated for the treatment of acute agitation in schizophrenic patients for whom treatment with GEODON is appropriate and who need intramuscular antipsychotic medication for rapid control of the agitation.

Elderly patients with dementia-related psychosis treated with atypical antipsychotic drugs are at an increased risk of death compared to placebo. GEODON is not approved for the treatment of patients with dementia-related psychosis.

GEODON is contraindicated in patients with a known history of QT prolongation, recent acute myocardial infarction, or uncompensated heart failure, and should not be used with other QT-prolonging drugs. **GEODON** has a greater capacity to prolong the QT_c interval than several antipsychotics. In some drugs, QT prolongation has been associated with torsade de pointes, a potentially fatal arrhythmia. In many cases this would lead to the conclusion that other drugs should be tried first.

As with all antipsychotic medications, a rare and potentially fatal condition known as neuroleptic malignant syndrome (NMS) has been reported with GEODON. NMS can cause hyperpyrexia, muscle rigidity, diaphoresis, tachycardia, irregular pulse or blood pressure, cardiac dysrhythmia, and altered mental status. If signs and symptoms appear, immediate discontinuation, treatment, and monitoring are recommended.

Prescribing should be consistent with the need to minimize tardive dyskinesia (TD), a potentially irreversible dose- and duration-dependent syndrome. If signs and symptoms appear, discontinuation should be considered since TD may remit partially or completely.

Hyperglycemia-related adverse events, sometimes serious, have been reported in patients treated with atypical antipsychotics. There have been few reports of hyperglycemia or diabetes in patients treated with GEODON, and it is not known if GEODON is associated with these events. Patients treated with an atypical antipsychotic should be monitored for symptoms of hyperglycemia.

Precautions include the risk of rash, orthostatic hypotension, and seizures. In fixed-dose, pivotal studies, the most commonly observed adverse events associated with the use of GEODON for Injection (incidence ≥5%) and observed at a rate in the higher GEODON dose groups (10 mg, 20 mg) of at least twice that of the lowest GEODON dose group (2 mg control) were somnolence (20%), headache (13%), and nausea (12%).

Please see brief summary of prescribing information on adjacent page.