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 (model 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 curves of a typical 10 week controlled trial, the rate of death in drug-treated patients was ablented as 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

In the either careforescular (a __, heart aillum, sudden death) or intestings (a __, presuments) in nature, GEOLON (piprasforder) is not lapproved for the front or willbud proches is sentiated for the treatment of schizophranis and acute maintor made gloodes associated with biplicar disorder with or willbud proches between GEOLON (schozen feetback) in chips and the control in schizophranis parliens.

CONTRAINCATIONS—Of Prolongation Because of GEOLON's door related prolongation of the OT interest and the count of the count in schizophranis parliens.

CONTRAINCATIONS—Of Prolongation Because of GEOLON's door related prolongation of the OT interest and the count of the count in schizophranis parliens. Of the CONTRAINCATIONS—Of Prolongation Because of GEOLON's door related to the count of the

information and instructions in the Patient Information Sectionshould 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 measurements. Low serum potassium and magnesium should be repited before treatment. Patients who are started on diuretics during GEODON threatpy need periodic monitoring of serum potassium and magnesium. Discontinue GEODON in patients who find to have persistent QT, measurements >500 msec (see WARNINGS). Drug Interactions: (1) GEODON should not be used with any drug that prolongs represident OT, measurements >500 msec (see WARNINGS). Drug Interactions: (1) EEODON should not be used with any quigntar prolongs the OT interval. (2) Given the primary CNS effects of EEODON, caution should be used when its taken in combination with other central pacing drugs, (3) Because of its potential for inclusion hypotension. EEODON may enhance the effects of certain antihypotensive agents. (4) EEODON may antagonize the effects of levodopa and dopamine agonists. Effect of Other Drugs on GEODON; Carbernazepine, 200 mg bid for 21 days, resulted in a decrease of approximately 35% in the AUL of GEODON. Relocorazole a potent inhibitor of CYP3A4, 400 mg of for 5 days, in correcased the AUC and George of GEODON by about 35%-40%. Cimetione, 800 mg of for 2 days, die not affect GEODON pharmacokinetics. Population pharmacokinetic analysis of schizophrenic patients in controlled clinical trials has not revealed any clinically significant pharmacokinetic interactions with benzitropine, propranollo, or lorazepam. Effect of GEODON on Other Drugs, in vitro studies revealed little potential for GEODON interfere with the metabolism of drugs cleared primarily by CYP1A2, CYP2G3, CYP2C19, CYP2D6, and CYP3A4, and little potential for drug interactions with benzitropine, propranollo, or lorazepam. Effect of GEODON 00 mg bid off ont affect the pharmacokinetics of concomitantly administered c Impairment of returning checking a carcinogenicity studies were conducted with actually non-greams rate and UP-1 mice. In male mice there was no increase in incidence of turnor relative to controls, in female mice there were dose-related increases in his incidences of pituliary gland adenoma and carcinoma, and mammary gland adenomation at all doses tested. Increases in serum protective observed in a 1-month dielary study in female, but not male, mice. GEODON had no effect on serum protection mast in a 5-week dietary study at the doses that were used in the carcinogenicity study. The relevance for human risk of the findings of protection-mediated endocrine tumors in rodents is unknown (see <u>thyperprotectionems</u>). <u>Mutagenesis</u>: There was a reproducible mutagenic response in the Amera sassay in one strain of S. pyhimurumin in the absence of metabolic activation. Positive results were obtained in both the in vitro mammalian cell there was no increases in the incidence of all more relieble to controls, in fermae mich the west dods-related increases in stem protecting west pulsary glind address and cataconica, and marrianny gland address controlled and design and protecting and the protection of the protecti invitro, a factor of potential importance in the prescription of these drugs is contemplated in a patient with previously detected press career. Welshird cinical studies not expected in the year and motivation of this class of drugs and tumorigeness in humans; the available evidence is considered too limited to be conclusive at this time. Potential for Cognitive and Motor impairment; Somnolence was a commonly reported adverse event in GEODON patients in the 4- and 6-week placebo-controlled trails. Somnolence was reported in 14% of GEODON patients vs. 7% of placebo patients. Somnolence ele to discontinuation in 0.3% of patients in short-term clinical trails. Somnolence was reported in 14% of GEODON patients vs. 7% of placebo patients. Somnolence ele to discontinuation in 0.3% of patients in short-term clinical trails. Somnolence devas reported in 14% of GEODON patients vs. 7% of placebo patients. Somnolence devas reported in 14% of GEODON patients vs. 7% of placebo patients. Somnolence devas reported in 14% of GEODON patients vs. 7% of placebo patients. Somnolence devas reported in 14% of GEODON patients vs. 14% of GEODON patients vs. 14% of GEODON patients vs. 14% of GEODON (in the higher dose groups) at least twee activities requiring emental alterness, such as operating a motor verbice (including automotion of the premarketing previous patients) and the previous patients was reported in the premarketing previous patients. 14% of GEODON patients vs. 14% of GEODON (in the higher dose groups) at least twee that of the lowest intramuscular GEODON (in the higher dose groups) and at least twice that of the lowest intramuscular feeDOON (in the higher dose groups) and at least twice that of the lowest intramuscular feeDOON (in the higher dose groups) and at least twice that of the lowest intramuscular feed of the lowest in

Pizer U.S. Pharmaceuticals

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 \geq 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.