# Treat schizophrenia

## COMPARABLE EFFICACY

Consistent results in head-to-head studies<sup>1-3</sup>



A 6-week, double-blind, randomized study of GEODON vs olanzapine and an 8-week, double-blind, randomized study of GEODON vs risperidone.

- BPRS core items include hallucinatory behavior, unusual thought content, conceptual disorganization, and suspiciousness
- Comparable efficacy was maintained in double-blind extension studies
  - —up to 1 year vs risperidone<sup>1</sup>
  - —up to 6 months vs olanzapine<sup>₄</sup>

GEODON is indicated for the treatment of schizophrenia and of acute manic or mixed episodes associated with bipolar disorder.

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.

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.

In short-term schizophrenia trials, 10% of GEODON-treated patients experienced a weight gain of  $\geq$ 7% of body weight vs 4% for placebo. In the same short-term trials, the most common adverse events were somnolence (14%) and respiratory tract infection (8%).

# with the body in mind

## WITHOUT COMPROMISING METABOLIC PARAMETERS

Significant results in switch studies<sup>1,5</sup>



Two 1-year open-label extensions of 6-week, open-label switch studies in patients suboptimally controlled due to partial response or poor tolerability.

Patients switching to GEODON from olanzapine and risperidone also experienced reductions in triglycerides<sup>5</sup>

In the acute head-to-head studies...

- In the GEODON vs olanzapine study, olanzapine significantly increased body weight (8 lb vs 2 lb for GEODON, P<0.0001)<sup>1,2</sup>
- In the GEODON vs risperidone study, risperidone increased body weight (2 lb vs 0 lb for GEODON, P<0.01)<sup>1,3</sup>





Please see brief summary of prescribing information on adjacent page.

#### BRIEF SUMMARY. See package insert for full prescribing information.

Increased Mortality in Elderly Patients with Dementia-Related Psychosis: Elderly patients with dementia-related psychosis treated with atypical antipsychotic 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 i chizophrenic patients. CONTRAINDICATIONS — OT Prolongation: Because of GEODON's dose-related prolongation of the QT interval and the known association

or international of an annumber of the second of the secon performed. An additive effect of GEODON and other drugs that protoro and other and be excluded. Therefore, GEODON should not performed. An additive effect of GEODON and other drugs that protor gibe OT interval cannot be excluded. Therefore, GEODON should not be given with dofetilide, sotalol, quinidine, other Class Ia and III anti-arrhythmics, mesoridazine, thioridazine, chlorpromazine, droperidol, pimozide, sparfloxacin, gatifloxacin, mostloxacin, halofantrine, mefloquine, pentamidine, arsenic trioxide, levomethadyl acetate, dolasetor resolute, produced, or facrolinus. GEODON is also contraindicated with drugs that have demonstrated OT prolongation as one of their pharmacodynamic effects and have this effect described in the full prescribing information as a contraindication or a boxed or bolded warning (see WARNINGS). GEODON is contraindicated in individuals with a known hypersensitivity to the product. WARNINGS — Increased (see WARNINGS), GEODON is contraindicated in individuals with a known hypersensitivity to the product, WARNINGS—Increased Mortality in Eldery Patients with Dementia-Related Psychosis: Eldery patients with dementia-related psychosis treated with atypical antipsychotic drugs are at an increased risk of death compared to placebo, GEODON (ziprasidone) is not approved for the treatment of patients with dementia-related psychosis (see Boxed Warning). OT Prolongation and Risk of Suddon Death: GEODON uses should be avoided in combination with other drugs that are known to prolong the OT, interval. Additionally, clinicians should be alert to the identification of other drugs that have been consistently observed to prolong the OT, interval. Additionally, clinicians should be alert to the identification of other drugs that have been consistently observed to prolong the OT, interval. Such drugs should not be prescribed with GEODON. A study directly comparing the OT/T, prolonging refer to GEODON with several other drugs effective in the treatment of schizophrenia was conducted in patient volunteers. The mean increase in OT, from baseline for GEDODN and for mapproximately to 1 a masc carater than for four of the commarator drugs (risperidone, Dardangine, and halonperido). but was 9 to 14 msec greater than for four of the comparator drugs (risperidone, olanzapine, quetiapine, and haloperido), but was approximately 14 msec less than the prolongation observed for thioridazine. In this study, the effect of GEODON on QT<sub>c</sub> length was not augmented by the presence of a metabolic inhibitor (keloconazole 200 mg bid). In placebo-controlled trials, GEODON increased the QT<sub>c</sub> interval compared to placebo by approximately 10 msec at the highest recommended daily dose of 160 mg. In clinical trials the electrocardiograms of 2,2888 (0.06%) GEDDDN patients and 1/440 (0.23%) placebo patients revealed QT, intervals exceeding the potentially clinically relevant threshold of 500 msec. In the GEDDN patients, neither case suggested a role of GEDDDN. Some drugs that protong the QTQT<sub>c</sub> interval have been associated with the occurrence of torsade de pointes and with sudden unexplained death. The relationship of QT prolongation to torsade de pointes is clearest for larger increases (20 msec and greater) but it is possible that smaller QT/QT<sub>c</sub> prolongations may also increase risk, or increase it in susceptible individuals, such as those with hypokalemia, hypomagnesemia, or genetic predisposition. Although torsade de pointes has not been observed in association with the use of GEODOM Inpuning inserting, or generic proving source and a strain of the pointers in a structure of a source and in the use of a course at recommended does in premarketing studies, experience is too limited to rule out an increase of its. A study evaluating the 01/01, prolonging effect of inframuscular GEDODN, with inframuscular haloperiol as a control, was conducted in patient volunteers. In the trial, ECGs were obtained at the time of maximum plasma concentration following two injections of GEDODN (20 mg then 30 mg) or haloperiol (7.5 mg then 10 mg) given four hours apart. Note that a 30 mg dose of inframuscular GEDODN is 50%, higher than the recommended therapeutic dose. The mean change in 01, from baseline was calculated for each drug using a sample-based correction that removes the effect of hear trate on the 01 interval. The mean increase in 01, from baseline for GEDODN was 4.6 mease following the first injection and 12, 8 msec following the second injection. The mean increase in 01, from baseline for GEDODN was 6.9 mease for the structure of the second injection. The mean increase in 01, from baseline for GEDODN was 6.9 mease 10, and the second in the second i tollowing the first injection and 14.7 msec following the second injection. In this study, no patient had a OT<sub>c</sub> interval exceeding 500 msec. As with other antipsychotic drugs and placebo, sudden unexplained deaths have been reported in patients taking GEODON at recommended doses. The premarketing experience for GEODON did not reveal an excess of mortality for GEODON compared to other recommended doses. The premarketing experience for GEDDON (did not reveal an excess of mortality for GEDDON compared to other antipsycholic drugs or placeho, but the extent of exposure was limited, especially for the drugs used as active controls and placeho. Nevertheless, GEDDON's larger prolongation of OT<sub>c</sub> length compared to several other antipsychotic drugs raises the possibility that the risk of sudden death may be greater for GEDDON than for other available drugs for treating schizophrenia. This possibility needs to be considered in deciding among alternative drug products. Certain iccumstances may increase the risk of the occurrence of torsade de pointes and/or sudden death in association with the use of drugs that prolong the OT, interval, including (1) bradycardia; (2) hypokalemia or hypomagnesmia; (3) encommittant use of other drugs that prolong the OT, interval; and (4) presence of congenital prolongation of the QT interval. GEDDON should also be avoided in patients with congenital long OT syndrome and in patients history of cardiac arritythmias (see CONTRAINDICATIONS, and see *Drug Interactions* under PRECAUTIONS). Its recommended that patients being considered for GEDDON treatment who are at risk to risginiticant electrolyte disturbances, hypokalemia in particular, have baseline serum potassium and magnesium measurements. Hypokalemia (and/or hypomagnesemia) may increase the risk of the over have baseline serum potassium and magnesium measurements. Hypokalemia (and/or hypomagnesemia) may increase the risk of OT prolongation and arhythmia. Hypokalemia may result from divinetic therapy, diarrhe, and other causes. Patients with live serum potassium and/or magnesium should be repleted with those electrolytes before proceeding with treatment. It is essential to periodically monitor serum electrolytes in patients for whom diuretic therapy is introduced during GEODON treatment. Persistently prolonged 01r, intervals may also increase the risk of further protoingation and arrhythmia. Jut it is not clear that routine screening ECG measures are effective in detecting such patients. Rather, GEODON should be avoided in patients with histories of significant cardiovascular illness, eg. 0T prolongation, recent acute myocardial infraction, uncompensatel heart failure, or cardiae arrhythmia. GEODON should be discontinued in patients who are found to have persistent 01r, measurements >500 msec. *Neuroleptic Malignant Syndrome (IMMS)*: A potential/ tatal symptorn complex sometimes referred to as Neuroleptic Malignant Syndrome (IMMS) has been reported in association with administration of antipsychotic drugs. The management of MMS Should include: (1) immediate discontinuation dantipsychotic drugs and other drugs not essential to concurrent therapy. (2) intensive symptomatic treatment and medical monitoring, and (3) treatment after concomitant sensions medical molitements for whom sensitic treatment and medical annitoring drug is there are available. concomitant serious medical problems for which specific treatments are available. If a patient requires antipsychotic drug treatment after recovery from NMS, the potential reintroduction of drug therapy should be carefully considered. The patient should be carefully monitored, since recurrences of NMS have been reported. **Tardive Dyskinesia (TD)**: A syndrome of potentially irreversible, involuntary, dyskinetic movements may develop in patients undergoing treatment with antipsychotic drugs. Although the prevalence of TD appears to be highes movements may develop in patients undergoing treatment with antipsychotic drugs. Atthough the prevalence of U appears to be nightest among the elderly especially elderly women, it is impossible to rely upon prevalence estimates to predict, at the inception of antipsychotic treatment, which patients are likely to develop TD. If signs and symptoms of TD appear in a patient on GEODON, drug discontinuation should be considered. Hyperglycermia and Diabetes Mellifus: Hyperglycermia-related adverse events, sometimes serious, have been reported in patients treated with advpical antipsychotics. There have been few reports of hyperglycermia or diabetes in patients treated with GEODON, and it is not known if GEODON is associated with these events. Patients treated with an adpical antipsychotic should be monitored for symptoms of hyperglycermia. **PRECAUTIONS — General:** <u>Bash</u>, in premarketing trials, about 5% of GEDOON patients developed rash ind/or urticaria, with discontinuation of treatment in about one-sixth of these cases. The occurrence of rash was dose related, although the and/or unicaria, with discontinuation of treatment in about one-som of these cases. In eccurrence or rash was dose related, although the finding might also be explained by longer exposure in higher-dose patients. Several patients with rash had signs and symptoms of associated systemic illness, e.g., elevated WBCs. Most patients improved promptly upon treatment with antihistamines or steroids and/or upon discontinuation of EEODON, and all patients were reported to recover completely. Upon appearance of rash for which an alternative etiology cannot be identified, GEODON should be discontinued. <u>Orthostatic Hypotension</u>: GEODON may induce orthostatic hypotension associated with dizziness, tachycardia, and, in some patients, syncope, especially during the initial dose-titration period, probably reflecting its  $\alpha_1$ -adrenergic antagonist properties. Syncope was reported in 0.5% of GEODON patients, GEODON should be used with particular caution in the distingtion of the initial dose-titration period, probably reflecting its  $\alpha_1$ -adrenergic antagonist properties. Syncope was reported in 0.5% of GEODON patients, GEODON should be used with particular caution in the distingtion of the disting ability with known cardiovascular disease (history of myocordial infarction on ischemic heart disease, heart failure or conduction abnormalities), cerebrovascular disease or conditions that would predispose patients to hypotension (dehydration, hypovolemia, and treatment with antihypertensive medications). <u>Seizures</u>: In clinical trials, seizures occurred in 0.4% of GEODON patients. There were confounding factors that may have contributed to seizures in many of these cases. As with other antipsychotic drugs, GEDOON should be used cautiously in patients with a history of seizures or with conditions that potentially lower the seizure threshold, e.g., Alzheimer's dementia. Conditions that lower the seizure threshold may be more prevalent in a population of 65 years or older. <u>Dysphagia</u>: <u>Esophageal</u> dysmotility Contains that tower we secure threshold may be inter-prevent that polynation to 5 years to user. <u>PSpinaget</u> costinged dysholding and aspiration have been associated with antipsycholic drug use. Aspiration pneumonia is a common cause of morbidity and mortality in elderly patients, in particular those with advanced Alzheimer's dementia, and GEODON and other antipsycholic drug use. Aspiration pneumonia is a common cause of morbidity and mortality in elderly patients, in particular those with advanced Alzheimer's dementia, and GEODON and other antipsycholic drug use. Aspiration pneumonia, **See** also **Boxed WARNING**. **Increased Mortality in Elderly Patients** with **Dementia-Related Psychosis**). <u>Hyperprolactinemia</u> As with other drugs that antagonize dopamine D<sub>2</sub> receptors, GEODON elevates protactin levels in humans. Tissue culture experiments indicate that approximately one third of human breast cancers, and the approximately one third of potential importance if the prescription of these drugs is contemplated in a patient thirt previously detected breast cancer. Neither clinical studies nor epidemiologic studies conducted to date have shown an association hetween chronic administration of this class of downe and two mergiones the intermoser, the auxielibha aideonasi concidend to the intermose the intermose the concidend to the concelluent of t of drugs and tumorigenesis in humans; the available evidence is considered too initiated to be conclusive at this time. <u>Potential for Coontive</u> and Motor Impairment: Somnolence was a commonly reported adverse event in GEODON patients. In the 4- and 6-week placebo-controlled trials, somnolence was reported in 14% of <u>GEODON</u> patients vs 7% of placebo patients. Somnolence led to discontinuation in 0.3% of patients in short-term clinical trials. Since GEODON has the potential to impair judgment, thinking, or motor skills, patients should be cautioned about performing activities requiring mental alertness, such as operating a motor vehicle (including automobiles) or operating heardrous machinery until they are reasonably certain that GEODON threary does not affect them adverse. Prainsim: One case of praipism was reported in the premarketing database. <u>Body Temperature Regulation</u>: Although not reported with GEODON in premarketing trials, discipution of the body's ability to reduce core body temperature has been attributed to antipsychotic agents. <u>Suicide</u>. The possibility of a suicide attempt is inherent in psychotic illness and close supervision of high-risk patients should accompany drug therapy. GEODON prescriptions should be written for the smallest quantity of capsules consistent with good patient management to reduce overdose risk.

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 measurements. Low serum potassium and magnesium should be repleted before treatment. Patients who are started on diuretics during Record marks to make a series of the series after in more than the primary of the primary of the primary of the primary and the primary of t built of Logs, resulted in decrease of application of Sam The Pool Decodork. ReacdAcade, a puell in micro of PosA+, 400 mig of of 5 days, increased the AUC and Cmay of GeoDON by about 35%-40%. Climitians, 800 mg of 07 days, did not affect GEODON pharmacokinetics. Coadministration of 30 mL of Maakov din ot affect GEODON pharmacokinetics. Population pharmacokinetic analysis of schizophreni patients in controlled clinical triats has not revealed any clinically significant pharmacokinetic interactions with beartropine, of schizophreni patients in controlled clinical triats has not revealed any clinically significant pharmacokinetic interactions with beartropine, GEODON due to displacement. GEODON 40 mg bid administered oncommand with himm450 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 concomitanty administered orage. state ter or train attention of minimum parameters of the state of the there was no increase in incidence of tumors relatives to controls with the Uber were dose-related increases in the indicent pituitary gland adenoma and carcinoma, and mammary gland adenocarcinoma at all doses tested. Increases in the indicentes of observed in a 1-month dietary study in female, but not male, mice. GEODON had no effect or serum prolactin in rats in a 5-week dietary study at the does that were used in the carcinogenicity study. The relevance for human risk of the finding of protachin-mediated endocrine tumors in rodents is unknown (see <u>Hyperprolactinemia</u>). <u>Mutagenesis</u>: There was a reproducible mutagenic response in the Ames assay in one strain of *S. typhimurium* in the absence of metabolic activation. Positive results were obtained in both the in vitro mammalian cell In one stant of S. ppinnioun in the ausence of meloadia autoautor. Four estatic were testic were testi It is recommended that women receiving GEODON should not breast feed. **Pediatric Use:** The safety and effectiveness of GEODON in pediatric patients have not been established. **Geriatric Use:** Of the approximately 4500 patients treated with GEODON in clinical studies, 2.4% (109) were 65 years of age or over. In general, there was no indication of any different tolerability for GEODON or of reduced clearance of GEODON in the elderly compared to younger adults. Nevertheless, the presence of multiple factors that might increase the pharmacodynamic response to GEODON, or cause poorer lolerance or orthostasis, should lead to consideration of a lower starting dose, sower tituation, and careful monitoring during the initial dosing period for some elderly patients. **BUVERSE REATIONS**—**Adverse Findings Observed in Short-term**, **Placebo-Controlled Trials**: The following findings are based on the short-term placebo-controlled premarketing Trais for schizophrenia (a pool of two 6-week, and two 4-week fixed-dose trials) and bipolar mania (a pool of two 3-week fixed) the dose trials) in which GEODON was administered in doses ranging from 10 to 200 mg/day. *Adverse Events Associated with Discontinuation:* Schizophrenia: Approximately 4.1% (29/702) of GEODON-treated patients in short-term, placebo-controlled studies discontinued treatment Use to an adverse vent, compared with about 22% (6273) on placebo. The most common event associated with dropout was rash, including 7 dropouts for rash among GEODON patients (1%) compared to no placebo patients (see **PRECAUTIONS**). Bipolar Mania: Approximately 6.5% (18/279) of GEODON-treated patients in short-term, placebo-controlled studies discontinued treatment due to an adverse event, compared with about 3.7% (5/136) on placebo. The most common events associated with dropout in the GEODON-treated ablets even exatthisis, anxiety, depression, dizzines, dystonia, rash and vormiting, with 2 dropouts for each of these events among GEDDON patients vere akatthisia, anxiety, depression, dizzines, dystonia, rash and vormiting, with 2 dropouts for each of these events among GEDDON patients (1%) compared to one placebo patient each for dystonia and rash (1%) and no placebo patients for the remaining adverse events. Adverse Events at an Incidence ≥5% and at Least Twice the Rate of Placebo: The most commonly observed adverse events associated with GEODOV in schizophrenia triais were sonnoience (14%) and respiratory tracit interior (18%). The most commonly observed adverse events associated with the use of GEODON in bipolar mania triais were sonnoience (31%), extrapyramidal symptoms (31%), dizziness (16%), akathisia (10%), abnormal vision (6%), asthenia (6%), and vomiting (5%). The following list enumerates the treatment-emergent (10%), akamisia (10%), abnorma vision (x%), asimetia (x%), and worming (x%). The following ist enumerates the treatment-energient adverse events that occurred during acute therapy, including only these events that occurred during acute therapy, including only these events that occurred during acute therapy, including only these events that occurred during acute therapy, including only these events that occurred during acute therapy, including only these events that occurred during acute therapy, including only these events that occurred during acute therapy, including only these events that occurred during acute therapy, including only these events that occurred during acute therapy, including only these events that occurred during acute therapy, including only therapy, exercised acute during the acute acute during that greater incidence than in placebo. Schizophrenia: <u>Body as a Whole</u>—astherapy, extrapyranidal symptoms, somolence, akathisia, diriziness. <u>Bespiratory</u>—respiratory tract infection, thintits, cough increased. Skin and <u>Appendages</u>—rash, fungal dermatitis. <u>Special</u> <u>Sense</u>—ahonornal vision. Bipolar Mania: <u>Body as a Whole</u>—headache, astheria, accidental injury. <u>Cardiovascular</u>—hypertension. <u>Digestive</u>—nause, diarthea, dry mouth, vomithing, increased salivation, tongue edema, dysphagia, <u>Musculoskeletar</u>, unyalia, <u>Nervous</u>—sumplance extranyeranidal sense diarthera dry mouth, worthing, acathisia anyaito humesthesia carach ficienter Benzitano—hypertension. <u>Dependence</u>—nuese, unrinea, un induit, vonninitg, increased samaalun, longiereberta, unysinagia, <u>wiuscultoskeiteta</u>, <u>miscultoskeiteta</u>, <u>somolence, etranyariaida symptoms, dizzinese, akathisia, anviet, kypesthesia, speech disorder, Bespiratory</u>—pharyngitis, dyspnea, <u>Skin and Appendages</u>—fungal dermattis, <u>Special Senses</u>—abnormal vision. **Dase Dependency:** An analysis for dose response in the schizophrenia trials revealed an apparent relation of adverse event to dose for the following: asthenia, postural hypotension, anorexia, dry mouth, increased salvaidon, arthrafiaja, anviet, drizinese, dystonia, hypertonia, somolence, ermory, hinitis, rash, and abnormal vision. **Edrapyramidal Symptoms (EPS):** The incidence of reported EPS for GEODON patients in the short-term, placebo-controlled schizophrenia in the some explicit section of the following is an explicit section of the some event in the some event in the some event in the some event is some event in the some event is an event and event in the some event in the some event is an event event is an event event in the some event is an event event is an event event in the some event is an event event is an event event is an event event in the some event is an event event is an event event in the some event is an event even Lange primary of the second se Scale did not generally show a difference between GEDODN and placebo. *Vital Sign Changes*: GEDODN is associated with orthostatic hypotension (see PRECAUTIONS). *Weight Gain*: In short-term schizophrenia triaki, the proportions of patients meeting a weight gain (10%) vs placebo patients (4%). A median weight gain of 0.5 kg was observed in GEDODN patients wol.0 kg in placebo patients. Weight gain was reported as an adverse event in 0.4% of both GEDODN and placebo patients. During (ong-term therapy with GEDODN, a categorization of patients at baseline on the basis of body mass index (BMI) showed the greatest mean weight gain ortical weight gain of 1.4 kg for patients with a "high" BMI. *Bod Changes*: GEDODN is associated with a normal (23-27) or overweight (237) patients. There was a mean weight gain of 1.4 kg for patients with a "low" baseline BMI, 0.0 kg for patients with a "normal" BMI, and a 1.3 kg mean weight loss for patients with a "high" BMI. *EOG Changes*: GEDODN is associated with a nincrease in the 0.7, interval (see WARNINGS). In schizoprima triaks, GEDODN was associated with mean increase in heart rate of 1.4 beats per minute compared to a 0.2 beats per minute decrease arong placebo patients. *Other Adverse Events*: a Othese occurring in 1.1 dues 1.1/000 attests: infraueural dargerse events and these occurring in 1.1 dues 1.1/000 attests: infraueural dargerse events are those occurring in 1.1 dues 1.1/000 attests: infraueural dargerse events are three occurring in 1.1 due 1.1 duest are 1.1 duest are there are event are not base occurring in 1.1 duest 1.1 duest are there are events are those occurring in 1.1 duest 1.1 duest are there are events are those occurring in 1.1 duest 1.1 duest are there are events are those occurring in 1.1 duest 1.1 duest are there are events are those occurring in 1.1 duest 1.1 duest are there are events are those occurring in 1.1 duest 1.1 duest are there are events are those occurring in 1.1 duest 1.1 duest are there are events are those occurring in 1.1 duest 1.1 Frequent adverse events are those occurring in at least 1/100 patients; infrequent adverse events are those occurring in 1/100 to 1/1000 patients; rare events are those occurring in fewer than 1/1000 patients. Schizophrenia: <u>Body asa Whole</u>—Frequent addominal pain, flu syndrome, fever, accidental alli, accedenta, chills, photosensitivity reaction, flank pain, hypothermia, motor vehicle accident. <u>Zarifovascular</u> <u>System</u>—Frequent tachycardia, hypertension, postural hypotension; *Infrequent* bradycardia, angina pectoris, atrial fibrillation, <u>Rare</u>: first-<u>Ordern</u> Product, bundle branch block, pilotitis, <u>Digestive System</u> — Frequent: anorexia, vomiting: Infrequent: rectal hemorrhage, dysphagia, tongue edema; <u>Rare</u>: gum hemorrhage, jaundice, fecal impaction, gamma glutamyl transpeptidase increased, hematemesis, bysphagia, bruge event, Arake guint neironitage jaulituke, recamingecuoti, ganima guitaniny raispepudase inceased, ineriataeriness, cholestatic jaunice, hepatitis, hepatomega), leukoplakia of mouth, fatti yiver depositi, melena. Endocrine. — Arake: hypothyroidism, hyperthyroidism, thyroiditis. <u>Henric and Lymphatic System</u> — *Intrequent* anemia, ecchymosis, leukocytosis, leuk hypoglycemia, nyponatomia, nypoprotentana, glucos circular o contanto costa de hypoglycemic reaction, hypognagnesemia, katosis, respiratedory alkalosis. Musculoskeletta System — Frequent: myalgia; Infrequent:tenosynovitis, Rare: myopathy. <u>Nervous System</u> — Frequent: agitation, extrapyramidal syndrome, tremor, dystonia, hypertonia, dyskinesia, hostility, twitching, paresthesia, confusion, vertigo, hypokinesia, hyperkinesia, abnormal gait, oculogyric crisis, hypesthesia, oganizati, nousing, voluming, parestanti, ontasin, rugor hyporatisen, nyporatesa, anoning da, consolin erais, nyporatesa daza, annesa, convinei ngility, delirium, hypotonia, akinesia, dysarthra, withdrawals, nyporatesa, bayndrome, bucoglosad syndrome, choreathetosis, diplopia, incoordination, neuropathy, *Infrequent*: paralysis; *Rare*:myoclonus, nystagmus, torticollis, circumoral paresthesia, opisthotonos, reflexes increased, trismus. <u>Respiratory System — Frequent</u> dyspnea; *Infrequent*: pneumonia, epistaxis; *Rare*:hemoptysis, laryngismus <u>Skin and Appendages</u> — Infrequent: maculopapular rash, urticaria, alopecia, eczema, exfoliative dermatitis, contact dermatitis, vesiculobullous rash. <u>Special Senses</u> — Frequent: fungal dermatitis, Infrequent: conjunctivitis, dry eyes, tinnitus, topharitis, cataract, photophobia, Rare eye hemorrhage visual field defect keartiis, keratoconjunctivitis, grogenial <u>System</u> — Infrequent impotence, ahormal ejaculation, amenorrhea, hematuria, menorrhagia, female lactation, polyuria, urinary retention, metrorrhagia, male sexual dysfunction, anorgamia, glycosuria; Pare: g What does not an advect of the second according to the second at that of minimized and Econd in the inglet covery open plant does that that of the lowest intramuscular ECDDN group were headache (13%), nausea (12%), and sonnolence (20%). Adverse Events at an Incidence >1% in Short-Term Fixed-Dose Intramuscular Trials: The following list enumerates the treatment-emergent adverse events that occurred in 21% of GEODON platients (in the higher does groups) and at least twice that of the lowest intramuscular GEODON group. bad occurred in 21 % of decodoring patients (in the ingline close gloups) and a neast rive close the two the two simulations decodoring patients of the set of the se mg), the only symptoms reported were minimal sedation, slurring of speech, and transitory hypertension (BP 200/75).

prescriptions should be written for the smallest quantity of capsules consistent with good patient management to reduce overdose risk. <u>GEODON is an other with carta concommating systemic and services in linest</u>. <u>GEODON is an other with carta concommating systemic and services in linest</u>. <u>GEODON is an other with carta concommating systemic and services in linest</u>. <u>GEODON is an other with carta concommating systemic and services in linest</u>. <u>GEODON is an other with carta concommating systemic and services in linest</u>. <u>GEODON is an other with carta concommating systemic and services in linest</u>. <u>GEODON is an other with carta concommating systemic and services in linest</u>. <u>GEODON is an other with carta concommating is a service with iteration of cardina carta in the services in linest</u>. <u>GEODON is an other with a recent history of myocardial infarction or unstable heart</u>. <u>GEODON is an other with a recent history of myocardial infarction or unstable heart</u>. <u>MARNINGS and Orthostatic Hypotension with GEODON.</u> <u>Referencess</u>. 1. Data on file. <u>Pizer Inc.</u>, New York, NY. 2. Simpson GM, Glick ID, Weiden PJ, Romano SJ, Siu CO. Randomized, controlled, double-bilind multicenter comparison of the efficacy and tolerability of ziprasidone versus singeridone in patients with an interfer comparison of the efficacy and tolerability of ziprasidone versus singeridone in patients with an interfer contral singer singeridone in schizophrenia or schizopfrenia or schizo Revised May 2005

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Important Safety Information for ZYPREXA® (olanzapine)

Increased Mortality in Elderly Patients with Dementia-Related Psychosis

Elderly patients with dementia-related psychosis treated with atypical antipsychotic 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 drugtreated 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 drugtreated 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 (eg, heart failure, sudden death) or infectious (eg, pneumonia) in nature. ZYPREXA is not approved for the treatment of elderly patients with dementia-related psychosis.

**Cerebrovascular adverse events (CVAE), including stroke, in elderly patients with dementia**—Cerebrovascular adverse events (eg, stroke, transient ischemic attack), including fatalities, were reported in trials of ZYPREXA in elderly patients with dementia-related psychosis. In placebo-controlled trials, there was a significantly higher incidence of CVAE in patients treated with ZYPREXA compared to patients treated with placebo. ZYPREXA is not approved for the treatment of elderly patients with dementia-related psychosis.

**Hyperglycemia and diabetes mellitus**—Hyperglycemia, in some cases associated with ketoacidosis, coma, or death, has been reported in patients treated with atypical antipsychotics including ZYPREXA. All patients taking atypicals should be monitored for symptoms of hyperglycemia. Persons with diabetes who are started on atypicals should be monitored regularly for worsening of glucose control; those with risk factors for diabetes should undergo baseline and periodic fasting blood glucose testing. Patients who develop symptoms of hyperglycemia during treatment should undergo fasting blood glucose testing.

**Neuroleptic malignant syndrome (NMS)**—As with all antipsychotic medications, a rare and potentially fatal condition known as NMS has been reported with olanzapine. If signs and symptoms appear, immediate discontinuation is recommended.

Tardive dyskinesia (TD)—As with all antipsychotic medications, prescribing should be consistent with the need to minimize the risk of TD. If its signs and symptoms appear, discontinuation should be considered.

**Orthostatic hypotension**—In premarketing schizophrenia trials, some patients taking ZYPREXA may have experienced orthostatic hypotension associated with dizziness, tachycardia, and, in some cases, syncope (15/2500, 0.6%).

**Seizures**—Occurred infrequently in premarketing clinical trials (22/2500, 0.9%). ZYPREXA should be used cautiously in patients with a history of seizures or with conditions that lower the seizure threshold.

**Effect on prolactin**—Modest elevations of prolactin were seen with ZYPREXA in acute-phase schizophrenia trials (incidence 34% vs 13% with placebo), although mean changes from baseline to endpoint were not statistically significantly different between olanzapine and placebo. Some patients may have persisting modest prolactin elevations.

Transient, asymptomatic elevations of hepatic transaminase— In placebo-controlled schizophrenia trials, clinically significant ALT (SGPT) elevations (≥3 times the upper limit of the normal range) were observed in 2% (6/243) of patients exposed to ZYPREXA compared to none (0/115) of the placebo patients. None of these patients developed jaundice. Rare postmarketing reports of hepatitis have been received. Very rare cases of cholestatic or mixed liver injury have also been reported in the postmarketing period. Periodic assessment of transaminases is recommended in patients with significant hepatic disease.

**Special populations, elderly**—Esophageal dysmotility and aspiration have been associated with antipsychotic drug use. Olanzapine should be used with caution in patients at risk for aspiration pneumonia. In 5 studies in elderly patients with dementia-related psychosis, adverse events reported more commonly with olanzapine than with placebo were falls, somnolence, peripheral edema, abnormal gait, urinary incontinence, lethargy, increased weight, asthenia, pyrexia, pneumonia, dry mouth, and visual hallucinations. Olanzapine should be used with caution in elderly patients with dementia. Olanzapine is not approved for treatment of patients with dementia-related psychosis.

**Drug interactions**—Coadministration of diazepam or ethanol with ZYPREXA may potentiate orthostatic hypotension. Lower doses of ZYPREXA should be considered in patients receiving concomitant therapy with fluvoxamine.

**Medication dispensing and prescribing errors** have occurred between ZYPREXA<sup>®</sup> (olanzapine) and Zyrtec<sup>®</sup> (cetirizine HCI). These errors could result in unnecessary adverse events or potential relapse in patients suffering from schizophrenia or bipolar disorder. To reduce the potential for dispensing errors, please write ZYPREXA clearly.

The most common treatment-emergent adverse events associated with ZYPREXA (vs placebo) in 6-week acute-phase schizophrenia trials were somnolence (26% vs 15%), dizziness (11% vs 4%), weight gain (6% vs 1%), personality disorder (COSTART term for nonaggressive objectionable behavior; 8% vs 4%), constipation (9% vs 3%), akathisia (5% vs 1%), and postural hypotension (5% vs 2%).

The most common treatment-emergent adverse events associated with ZYPREXA (vs placebo) in 3- and 4-week bipolar mania trials were somnolence (35% vs 13%), dry mouth (22% vs 7%), dizziness (18% vs 6%), asthenia (15% vs 6%), constipation (11% vs 5%), dyspepsia (11% vs 5%), increased appetite (6% vs 3%), and tremor (6% vs 3%).

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# FIGHT TOBREAK THE CYCLE

Some of my patients suffer from schizophrenia. They live a painful cycle, from emergency clinic, to community mental health center, then back to the street.

Where, all too often, the slow decline begins again. It's an illness of setbacks and bitter disappointments. People have given up on some of my patients. Sometimes even the patients give up.

My job isn't just to treat them.

But to be their constant reminder that every day of improvement is worth fighting for.

And I will not give up on them.

ZYPREXA is approved for the treatment of schizophrenia, for acute bipolar mania, and for maintenance treatment in bipolar disorder.

For Important Safety Information, including boxed warning, see adjacent pages and Brief Summary of Prescribing Information.



WARNING: <u>Increased Mortality in Elderly Patients with Dementia-Related Psychosis</u>—Elderly patients with dementia-related psychosis treated with atypical antipsychotic 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 (eg, heart failure, sudden death) or infectious (eg, pneumonia) in nature. ZYPREXA is not approved for the treatment of patients with dementia-related psychosis.

INDICATIONS AND USAGE: ZYPREXA and ZYPREXA Zydis are indicated for short- and long-term treatment of schizophenia, for acute manic and mixed episodes of bipolar I disorder, and for maintenance treatment in bipolar disorder. The use of ZYPREXA for extended periods should be periodically re-evaluated as to the long-term usefulness of the drug for the individual patient. ZYPREXA IntraMuscular is indicated for treatment of agitation associated with schizophrenia and bipolar I mania.

#### CONTRAINDICATIONS: Known hypersensitivity to olanzapine

WARNINGS: Increased Mortality in Elderly Patients with Dementia-Related Psychosis—Elderly patients with WARNINGS: <u>increased Mortainty in Elderly Patients with Dementia-Helated Psychosis—Elderly patients with dementia-related psychosis treated with atypical antipsychotic drugs are at an increased risk of death compared to placebo. ZYPREXA is not approved for the treatment of patients with dementia-related psychosis (see BOX WARNING). In placebo-controlled clinical trials of elderly patients with dementia-related psychosis, the incidence of death in olanzapine-treated patients (3.5%) was significantly greater than placebo-treated patients (1.5%). <u>Cerebrovascular Adverse Events. Including Stroke, in Elderly Patients with Dementia</u>—Cerebrovascular adverse events (eg, stroke, transient ischemic attack), including fatalities, were reported in patients in trials of olanzapine in elderly natients with dementia-related by sychosis. In accebo-controlled trials there was a significantly biober</u>

in elderly patients with dementia-related psychosis. In placebo-controlled trials, there was a significantly higher incidence of cerebrovascular adverse events in patients treated with olarzapine compared to patients treated with placebo. Olanzapine is not approved for the treatment of patients with dementia-related psychosis.

<u>Hyperglycemia and Diabetes Mellitus</u>—Hyperglycemia, in some cases associated with ketoacidosis, coma, or death, has been reported in patients treated with atypical antipsychotics including olanzapine. Assessment of the relationship between atypical antipsychotic use and glucose abnormalities is complicated by the possibility of an increased background risk of diabetes in patients with schizophrenia and the increasing incidence of diabetes mellitus in the general population. Patients diagnosed with diabetes who are started on atypical antipsychotics should be monitored regularly for worsening of glucose control. Patients with risk factors for diabetes who are starting treatment with atypicals should have fasting blood glucose (FBG) testing at baseline and periodically

Starting treatment. Any patient treated with atypicals should be monitored for symptoms of hyperglycemia. Patients who develop symptoms of hyperglycemia during treatment with atypicals should undergo FBG testing. <u>Neuroleptic Mailgnant Syndrome (NMS)</u>—Potentially fatal NMS has been reported in association with administration of antipsychotic drugs, including olarazpine. See complete prescribing information for information or management of NMS. Patients requiring antipsychotic drug treatment after recovery from NMS should be carefully monitored since recurrences have been reported. <u>Tardive Dyskinesia (TD)</u>—Potentially irreversible TD may develop in patients treated with antipsychotic drugs.

Although the prevalence of TD appears to be highest among the elderly, especially elderly women, it is impossible to predict which patients are more likely to develop the syndrome. If signs and symptoms of TD appear, consider drug discontinuation.

PRECAUTIONS: <u>Hemodynamic Effects</u>—Olanzapine may induce orthostatic hypotension associated with dizziness; tachycardia; and in some patients, syncope. Hypotension, bradycardia with/without hypotension, tachycardia, and syncope were also reported during the clinical trials with intranuscular olanzapine for injection. Incidence of syncope was 0.6%, 15/2500 with oral olanzapine in phase 2-3 trials and 0.3%, 2/722 with intranuscular olanzapine for injection in clinical trials. Three normal volunteers in phase 1 studies with intranuscular olanzapine experienced hypotension, bradycardia, and sinus pauses of up to 6 seconds that protensoruly coefficient of a protect the aurity operating on the second share on a protein second second second back of the second se spontaneously resolved (in 2 cases the events occurred on intramuscular olanzapine, and in 1 case, on oral olanzapine). The risk for this sequence of events may be greater in nonpsychiatric patients compared to psychiatric patients who are possibly more adapted to certain effects of psychotropic drugs. Patients should remain recumbent if drowsy or dizzy after injection with intramuscular olanzapine for injection until examination has indicated they are not experiencing postural hypotension, bradycardia, and/or hypoventilation. Olanzapine should be used with particular caution in patients with known cardiovascular disease (history of myocardia infarction or ischemia, heart failure, or conduction abnormalities), cerebrovascular disease, and conditions which would predispose patients to hypotension (dehydration, hypovolemia, and treatment with which would preusoble patients to hypotension (denydration, hypotension and/or bradycardia might put antihypertensive medications) where the occurrence of syncope, or hypotension and/or bradycardia might put them at increased medical risk. Caution is necessary in patients receiving treatment with other drugs having effects that can induce hypotension, bradycardia, respiratory or CNS depression (see Drug Interactions). Concomitant administration of intramuscular olarappine and parenteral benzodiazepine has not been studied and is not recommended. If such combination treatment is considered, careful evaluation of clinical status for

and is the recommendeu. If such combination in reactively is considered, careful evaluation of clinical status in secessive sedation and cardiorespiratory depression is recommended. <u>Seizures</u>—During premarketing testing, seizures occurred in 0.9% (22/2500) of olanzapine-treated patients, regardless of causality. Use cautiously in patients with a history of seizures or with conditions that potentially lower the seizure threshold.

<u>Hyperprolactinemia</u>—Like other drugs that antagonize dopamine D2 receptors, olanzapine elevates prolactin levels; a modest elevation persists during chronic administration. Tissue culture experiments indicate that approximately one third of human breast cancers are prolactin dependent in vitro. However, neither clinical nor epidemiologic studies have shown an association between chronic administration of this class of drugs and tumorigenesis in humans; the available evidence is inconclusive.

tumorigenesis in humans; the available evidence is inconclusive. <u>Transaminase Elevations</u>—In placebo-controlled studies, clinically significant ALT (SGPT) elevations ( $\ge$ 3 times the upper limit of normal) were observed in 2% (6/243) of patients exposed to olanzapine compared to no (0/115) placebo patients. None of these patients experienced jaundice. Among about 2400 patients with baseline SGPT  $\ge$ 0 IU/L, 2% (50/2381) had asymptomatic SGPT elevations to  $\ge$ 200 IU/L. Most were transient changes that tended to normalize while olanzapine treatment was continued. Among 2500 patients in oral olanzapine trials, about 1% (23/2500) discontinued treatment due to transaminase increases. Rare postmarketing reports of hepatitis have been received. Very rare cases of cholestatic or mixed liver injury have also been reported in the nostmarketing pariod. Exercise cautions in a patient who have since and symptimes of bapatic imagirment. nepatrits have been received. Very rare cases of choiestatic or mixed liver injury have also been reported in the postmarketing period. Exercise caution in patients who have signs and symptoms of hepatic impairment; preexisting conditions associated with limited hepatic functional reserve; or concomitant treatment with potentially hepatotoxic drugs (see Laboratory Tests, below). <u>Potential for Cognitive and Motor Impairment</u>—Somnolence was a commonly reported, dose-related adverse event in premarketing trials (olarzapine 26% vs placebo 15%). Somnolence led to discontinuation in 0.4% (9/2500) of patients in the crail premarketing database. <u>Body Temperature Regulation</u>—Use appropriate care when prescribing olanzapine for patients who will be evention conditions thar way contribute to an elevation in core how/t temperature.

<u>Dysphagia</u>—Esophageal dysmotility and aspiration have been associated with antipsychotic drug use. <u>Aspiration</u> pneumonia is a common cause of morbidity and mortality in patients with advanced Alzheimer's disease.

Olanzapine and other antipsychotic drugs should be used cautiously in patients at risk for aspiration pneumonia. <u>Suicide</u>—The possibility of a suicide attempt is inherent in schizophrenia and in bipolar disorder, and close supervision of high-risk patients should accompany drug therapy. Prescriptions for olanzapine should be written for the smallest quantity of tablets consistent with good patient management.

tor the smallest quantity of tablets consistent with good patient management. <u>Use in Patients with Concomitant Illnesses</u>—Olanzapine should be used with caution in patients with clinically significant prostatic hypertrophy, narrow angle glaucoma, or a history of paralytic ileus. In 5 placebo-controlled studies in elderly patients with dementia-related psychosis (n=1184), these treatment-emergent adverse events were reported with olanzapine at an incidence of ≥2% and significantly greater than with placebo: falls, somnolence, peripheral edema, abnormal gait, urinary incontinence, lethargy, increased weight, asthenia, pyrexia, pneumonia, dry mouth, visual hallucinations. Discontinuation due to adverse events was significantly greater with olanzapine than placebo (13% vs 7%). Elderly patients with dementia-related psychosis treated with olanzapine at an increased risk of death compared to placebo.

Olanzapine is not approved for treatment of patients with dementia-related psychosis. If the prescriber elects to treat this patient population, vigilance should be exercised (*see* BOX WARNING *and* WARNINGS). Because of the risk of orthostatic hypotension with olanzapine, use caution in cardiac patients (*see* 

Hemodynamic Effects) Information for Patients-See full prescribing information for information to discuss with patients taking olanzanine

Laboratory Tests-Periodic assessment of transaminases is recommended in patients with significant hepatic disease

Interactions—Use caution when olarzapine is taken in combination with other centrally acting drugs and alcohol. Olarzapine may enhance the effects of certain antihypertensive agents. Olarzapine may antagonize the effects of levodopa and dopamine agonists. Agents that induce CYP1A2 or glucuronyl transferase erzymes (e.g., omegracole, rifampin) may cause an increase in olarzapine clearance. Inhibitors of CYP1A2 could potentially inhibit olarzapine clearance. Although olarzapine is metabolized by multiple enzyme systems,

potentially initial values and the second s of oranzapine. Carbamazepine (200 mg bid) causes an approximately 50% increase in the creatance or of oranzapine. Higher daily doess of carbamazepine may cause an even greater increase in olanzapine clearance. Neither ethanol (45 mg/70 kg single dose) nor warfarin (20 mg single dose) had an effect on olanzapine pharmacokinetics. Fluoxetine at 60 mg (single or multiple doses) causes a small increase in the C<sub>max</sub> of olanzapine and a small decrease in olanzapine clearance; however, the impact of this factor is small in comparison to the overall variability between individuals, and dose modification is not routinely recommended. Fluvoxamine decreases the clearance of olanzapine; lower doses of olanzapine should be considered in patients receiving fluvoxamine concomitantly. In vitro data suggest that a clinically significant pharmacokinetic interaction between olanzapine and valproate is unlikely.

pharmacokinetic interaction between olanzapine and valproate is unlikely. Olanzapine is unlikely to cause clinically important drug interactions mediated by the enzymes CYP1A2, CYP2C9, CYP2C19, CYP2D6, and CYP3A. Single doses of olanzapine did not affect the pharmacokinetics of imipramine/desipramine or warfarin. Multiple doses of olanzapine did not influence the kinetics of diazeparn/N-desmethyldiazepam, lithium, ethanol, or biperiden. However, coadministration of either diazeparn or ethanol potentiated the orthostatic hypotension observed with olanzapine. Multiple doses of olanzapine did not affect the pharmacokinetics of theophylline or its metabolites. Co-administration of intramuscular lorazepam and intramuscular olanzapine for injection added to the somnolence observed with either drug alone (see Hearodynamic Effect).

The initial decide of the second seco In this study there was a high incidence of early mortalities in males in the 30/20 mg/kg/d group. The incidence of mammary gland adenomas and adenocarcinomas was significantly increased in female mice and rats given olanzapine at 0.5 and 2 times the MHDOD respectively (mg/m² basis). In other studies, serum prolactin measurements of olanzapine showed elevations up to 4-fold in rats at the same doses used in the carcinogenicity studies. The relevance for human risk of the finding of prolactin mediated endocrine tumors in rodents is unknown. No evidence of mutagenic potential for olanzapine has been found. In rats, relitivity (females) and mating performance (males and females) were affected at doses 1.5-11 times the MHDOD (mg/m² basis). Distrous was prolonged and estrous delayed at 0.6 times the MHDOD (mg/m² basis); therefore, olanzapine may produce a delay in ovulation. <u>Prognancy Category C</u>—There are no adequate and well-controlled studies in pregnant women. Olanzapine should be used in pregnancy only if the potential benefit justifies the potential risk to the fetus. Labor and Delivery. Nursing Mothers—Parturition in rats was not affected by a donzapine; its effect on labor

Labor and Delivery. Nursing Mothers—Parturition in rats was not affected by olarnapine; its effect on labor and delivery in humans is unknown. In a study in lactating, healthy women, olanzapine; its effect on labor milk. Mean infant dose at steady state was estimated to be 1.8% of the maternal dose. It is recommended that women receiving olanzapine should not breast-feed. <u>Use in Pediatric and Geriatric Patients</u>—Safety and effectiveness in pediatric patients have not been

stabilished. In premarketing clinical trials in patients with schizophrenia, there was no indication of any different tolerability of olanzapine in the elderly compared to younger patients. Studies in elderly patients with dementia-related psychosis have suggested there may be a different tolerability profile in these patients. Elderly patients The product psychosis have suggested infer indy be a different oferability profile in these patients. Each patients with dementia-related psychosis treated with olarazapine are at an increased risk of death compared to placebo. Olanzapine is not approved for treatment of patients with dementia-related psychosis. If the prescriber elects to treat these patients, vigilance should be exercised. Consider a lower starting does for any geriatric patient in the presence of factors that might decrease pharmacokinetic clearance or increase the pharmacokinetic clearance or increa

ADVERSE REACTIONS: The following findings are based on a clinical trial database consisting of 8661 patients with approximately 4165 patient-years of exposure to oral olanzapine and 722 patients with exposure to intramuscular olanzapine for injection, including patients with schizophrenia, bipolar mania, or Alzheimer's disease (oral olanzapine trials) and patients with agitation associated with schizophrenia, bipolar I disorder (manic or mixed episodes), or dementia (intramuscular olanzapine for injection trials). See the full prescribing (manic of mixed episodes), or dementia (miramiscular olarizatine for miceton mais), see inter full preschoing information for details on these trials. Certain portions of the discussion below relating to dose-dependent adverse events, vital sign changes, weight gain, laboratory changes, and ECG changes are derived from studies in patients with schizophrenia and have not been duplicated for bipolar mania or agitation; however, this information is also generally applicable to bipolar mania and agitation. <u>Associated with Discontinuation</u>—Overall three was no difference in discontinuations due to adverse events

Associated with Discontinuation—Overall there was no difference in discontinuations due to adverse events in placebo-controlled oral olanzapine trials (olanzapine vs placebo: schizophrenia, 5% vs 6%; bipolar mania monotherapy, 2% vs 2%; bipolar mania cotherapy, 11% [olanzapine plus lithium or valproate] vs 2% [lithium or valproate alone]); or in placebo-controlled intramuscular olanzapine for injection trials (olanzapine for injection, 0.4%; blacebo 0%). Discontinuations in oral schizophrenia trials due to increases in SGPT were considered to be drug related (olanzapine 2% vs placebo 0%); see PRECAUTIONS). <u>Commonly Observed Adverse Events</u>—In 6-week, placebo-controlled, premarketing schizophrenia trials, the most common treatment-emergent adverse events associated with oral olanzapine (incidence ±5% and olanzapine incidence at least twice that for placebo.

above to incidence at least twice that for placebo were: postural hypotension, constipation, weight gain, dizziness, personality disorder (COSTART term for nonaggressive objectionable behavior), and akathisia. In 3- and 4-week placebo-controlled bipolar mania monotherapy trials, the most common treatment-emergent adverse events associated with oral olanzapine were: asthenia, dry mouth, constipation, dyspepsia, increased appetite, somnolence, dizziness, and tremor. In short-term bipolar mania combination therapy trials, the most common treatment-emergent adverse events observed with olanzapine plus lithium or valproate were dry mouth, weight gain, increased appetite, dizziness, back pain, constipation, speech disorder, increased salivation amnesia, and paresthesia. In 24-hour placebo-controlled trials of intramuscular olanzapine for injection for

amnesia, and paresthesia. In 24-hour placebo-controlled trials of intramuscular olarazpine for injection for agitation associated with schizophrenia or bipolar mania, sommolence was the one adverse event observed at an incidence of ≥5% and at least twice that for placebo (olarazpine for injection 6%, placebo 3%). <u>Adverse Events with an Incidence =2% in Oral Monotherapy Trials</u>—The following treatment-emergent events were reported at an incidence of ≥5% with oral olarazpine (does ≥2.5 mg/d), and at greater incidence with olarazpine than with placebo in short-term placebo-controlled trials (olarazpine N=532, placebo N=294): **Body as a Whole**—accidental injury, asthenia, fever, back pain, chest pair. **Cardiovascular**—postural hypotension, tachycardia, hypertension; **Digestive**—dry mouth, constipation, dyspepsia, vomiting, increased appetite; **Hemic and Lymphatic**—ecchymosis; **Metabolic and Nutritional**—weight gain, peripheral edema; dizeness, sbnormal gait, tremor, akathisia, hypertonia, articulation impairment; **Respiratory**—thinitis, cough increased, harvnoitis; **Scecial Senses**—amblyonia: **Lingentiat**, **microarko increas**, **under there**, **under there there** 

increased, pharyngitis; **Special Senses**—amblyopia; **Urgenital**—urinary incontinence, urinary tract infection. <u>Adverse Events with an Incidence ≥2% in Oral Combination Therapy Trials</u>—The following treatment-emergent events were reported at an incidence of ≥2% with oral olanzapine (doses ≥5 mg/d) plus lithium or emergent events were reported at an incidence of ≥2% with oral olanzapine (doses ≥5 mg/d) plus lithium or valproate (N=229), and at a greater incidence than with placebo opus lithium or valproate (N=115) in short-term placebo-controlled trials: Body as a Whole—asthenia, back pain, accidental injury, chest pain; Cardiovascular—hypertension; Digestive—dry mouth, increased appetite, thirst, constipation, increased salivation; Metabolic and Nutritional—weight gain, peripheral edema, edema; Nervous System—somnoleora, remor, depression, dizziness, speech disorder, amesia, paresthesia, apathy, confusion, euphoria, incoordination; Respiratory—pharyngitis, dyspnea; Skin and Appendages—sweating, acne, dry skin; Special Senses—amblyopia, abnormal vision; Urogenital—dysmenorrhea, vaginitis. Adverse Vents with an Incidence of ≥1% in Intramuscular Trials—The following treatment-emergent adverse events were reported at an incidence of s1% with intramuscular olanzapine for injection (2.5 - 10 mg/injection) and at incidence greater than placebo in short-term, placebo-controlled trials in agitated patients with schizophrenia or bipolar mania: Body as a Whole—asthenia; Cardiovascular—hypotension, postural hypotension; Nervous System—somnolence, dizziness, tremor.

ZYPREXA® Olanzapine Tablets ZYPREXA® ZYDIS® Olanzapine Orally Disintegrating Tablets ZYPREXA® IntraMuscular Olanzapine for Injection

<u>Dose Dependency of Adverse Events in Short-Term. Placebo-Controlled Trials—Extrapyramidal</u> Symptoms—In an acute-phase controlled clinical trial in schizophrenia, there was no significant difference in ratings scales incidence between any dose of oral olanzapine (5+2.5, 10+2.5, or 15+2.5) mg/d) and placebo for parkinsonism (Simpson-Angus Scale total score >3) or akathisia (Barnes Akathisia global score  $\geq$ 2). In the same trial, only akathisia events (spontaneously reported COSTART Anamisa global social statistically significant differences from placebo in transmission of patients reported out of the statistical significant greater adverse events incidence of patients reporting any extrapyramidal event was significantly greater than placebo. The incidence of patients reporting any extrapyramidal event was significantly greater than placebo only with the highest dose of oral olanzapine (15+2.5 mg/d). In controlled clinical trials of intramuscular olanzapine for injection, there were no statistically significant differences from placebo in occurrence of any treatment-emergent extrapyramidal event was significant by the more solved by the solution of the sol extrapyramidal symptoms, assessed by either rating scales incidence or spontaneously reported se events

Other Adverse Events—Dose-relatedness of adverse events was assessed using data from a clinical trial involving 3 fixed oral dosage ranges compared with placebo. The following treatment-emergent events showed a statistically significant trend: asthenia, dry mouth, nausea, somnolence, tremor. <u>Vital Sign Changes</u>—Oral olanzapine was associated with orthostatic hypotension and tachycardia in

Linical trials. Intramuscular olarazpine for injection was associated with orthotatin hypotension, and tachycardia in clinical trials (see PRECAUTIONS). <u>Weight Gain</u>—In placebo-controlled 6-week schizophrenia studies, weight gain was reported in 5.6%

<u>Weight Gain</u>—In placebo-controlled 6-week schizophrenia studies, weight gain was reported in 5.6% of oral olarzapine patients (average 2.8-kg gain) compared to 0.8% of placebo patients (average 0.4-kg loss); 29% of olarzapine patients gained >7% of their baseline weight, compared to 3% of placebo patients. During continuation therapy (238 median days of exposure), 56% of patients met the criterion for having gained >7% of their baseline weight. Average gain during long-term therapy was 5.4 kg. <u>Laboratory Changes</u>—Olarzapine is associated with asymptomatic increases in SGPT, SGOT, and GGT and with increases in serum prolactin and CPK (see PREOAUTIONS). Asymptomatic elevation of eosinophils was reported in 0.3% of olarzapine patients in premarketing trials. There was no indication d a rick of Linically significant neutronenia sesociated with chanzanie in the neurancetting drabase.

eosinophils was reported in 0.3% of olanzapine patients in premarketing trials. There was no indication of a risk of clinically significant neutropenia associated with olanzapine in the premarketing database. In clinical trials among olanzapine-treated patients with baseline random triglyceride levels of <150 mg/dL (N=659), 0.5% experienced triglyceride levels of  $\geq$ 500 mg/dL anytime during the trials. In these same trials, olanzapine-treated patients (N=145) had a mean triglyceride increase of 20 mg/dL from a mean baseline of 175 mg/dL. In placebo-controlled trials, olanzapine-treated patients with baseline random cholesterol levels of <200 mg/dL (N=1034) experienced cholesterol levels of  $\geq$ 240 mg/dL anytime during the trials more often than placebo-treated patients (N=052; 3.6% vs 2.2% respectively). In these same trials, olanzapine-treated patients (N=02; 3.6% vs 2.2% respectively). In these same trials, olanzapine of 203 mg/dL, which was significantly different compared to placebo-treated patients (N=1415) with a mean decrease of 4.6 mg/dL from a mean baseline of 203 mg/dL.

<u>ECG Changes</u>—Analyses of pooled placebo-controlled trials revealed no statistically significant olanzapine/placebo differences in incidence of potentially important changes in ECG parameters,

icicluding QT, QTC, and PR intervals. Olarazpine was associated with a mean increase in heart rate of 2.4 BPM compared to no change among placebo patients. <u>Other Adverse Events Observed During Clinical Trials</u>—The following treatment-emergent events were reported with oral olarazpine at multiple doses ≥1 mg/d in clinical trials (8661 patients, 4165 patient-years of exposure). This list may not include events previously listed elsewhere in labeling. A top patient-years of exposite) in this internal not include version previously inside disewhere in making internal not include version previously inside disewhere in making internal not include version previously inside disewhere in the internal notation include version previously inside disewhere in the internal notation include version were not so general as to be uninformative, and those events reported only once or twice which did not have a substantial probability of being acutely life-threatening. Frequent events occurred in  $\geq 1/100$  patients; infrequent events occurred in  $\geq 1/100$  patients. Body as a Whole—Frequent: dental pain, flu syndrome; infrequent: addomen enlarged, chills, face edema, internal injury, malaise, moniliasis, neck pain, neck rigidity, pelvic pain, photosensitivity reaction, suicide threat the results of each conditioned line version is a substantial probability of the prevention of the prevent in the prevent in the prevent in the prevent in the prevent of the prevent of the prevent internal injury. The prevent is prevent by a substantial prevent in the prevent of the prevent of the prevent of the prevent internal injury. The prevent is prevent by a substantial prevent in the prevent in the prevent in the prevent internal injury. Injury, maraise, monimasis, neck pain, neck pain, perior gain, priorsensitivity reactions, success attempt, Rare: chills and fever, hangover effect, sudden death. Cardiovascular—Frequent: hypotension; Infrequent: atrial fibrillation, bradycardia, cerebrovascular accident, congestive heart failure, heart arrest, hemorrhage, migraine, pallor, palpitation, vasodilatation, ventricular extrasystoles; Rare: arteritis, heart failure, plumonary embolus; Digestive—Frequent: flatlunce, increased salivation, thirst; Infrequent: dysphagia, esophagitis, fecal impaction, fecal incontinence, gastritis, gastroenteritis, Intrequent: dysphagia, esophagitis, tecal impaction, tecal incontinence, gastritis, gastroenteritis, gingivitis, hepatitis, melena, mouth ulceration, nausea and vomiting, oral moniliasis, periodontal abscess, rectal hemorrhage, stomatitis, tongue edema, tooth caries; *Rare*: aphthous stomatitis, enteritis, eructation, esophageal ulcer, glossitis, lieus, intestinal obstruction, liver fatty deposit, tongue discoloration. *Endocrime-Infrequent*: diabetes mellitus; *Rare*: diabetic acidosis, goiter. *Hemic* and *Lymphatic—Infrequent*: anemia, cyanosis, leukocytosis, leukopenia, lymphadenopathy, thrombocytopenia; *Rare*: normocytic anemia, thrombocythemia. *Metabolic* and *Nutrilional— Infrequent*: acidosis, alkaline phosphatase increased, bilirubinemia, dehydration, hypercholesteremia, hyperglycemia, hyperlipemia, hyportricemia, hypoglycemia, hypopatemia, hyponatremia, lower extensib. extremity edema, upper extremity edema; Rare: gout, hyperkalemia, hypernatremia, hypoproteinemia, ketosis, water intoxication. *Musculoskeletal—Frequent:* joint stiffness, twitching; *Infrequent:* arthritis, arthrosis, leg cramps, myasthenia; *Rare:* bone pain, bursitis, myopathy, osteoporosis, rheumatoid arthritis. *Nervous System—Frequent:* abnormal dreams, amnesia, delusions, emotional lability, euphoria, manic reaction, paresthesia, schizophrenic reaction; *Infrequent:* akinesia, alcohol misuse, euplicita, maine carcton, parestiesia, schizopinenio reaction, mireguent, annesia, alcono missise, antisocial reaction, ataxia, CNS stimulation, cogwheel rigidity, deliruim, dementia, depersonalization, dysarthria, facial paralysis, hypesthesia, hypokinesia, hypotonia, incoordination, libido decreased, libido increased, obsessive compulsive symptoms, phobias, somatization, stimulant misuse, supor, stuttering, tardive dyskinesia, vertigo, withdrawal syndrome; Aare: circumoral paresthesia, coma, encephalopathy, neuralgia, neuropathy, nystagmus, paralysis, subarachnoid hemorrhage, tobacco encephalopathy, neuralgia, neuropathy, nystagmus, paralysis, subarachnoid hemorrhage, tobacco misuse. **Respiratory**—Frequent: dyspnea: *Infrequent:* apnea, asthma, epistaxis, hemophysis, hyperventilation, hypoxia, laryngiis, voice alteration; **Rare**: atletcass, hiccup, hypoventilation, lung edema, stridor. **Skin and Appendages**—Frequent: sweating: *Infrequent:* alopecia, contact demantilis, vesiculobullous rash: *Rare*: hirsutism, pustular rash. **Special Senses**—Frequent: conjunctivitis; *Infrequent:* abnormality of accommodation, blephantils, cataract, deafness, diplopia, dry eyes, ear pain, eye hemorrhage, eye inflammation, eye pain, ocular muscle abnormality, taste perversion, tinnitus; *Rare*: corneal lesion, glaucoma, keratoconjunctivitis; *macular* hypopigmentation, miosis, *mydrasis,* gigment deposits lens. **Urogenital**—Frequent: valoritis"; *Infrequent:* abnormal ejaculation, "amenorthea, \* breast pain, cystifis, decreased menstruation, \* dysuria, female lactation, \* glovosuria, gynecomastia, hematuria, impotence, \* increased menstruation, \* menorrhagia, \* metrorrhagia, \* metrorrhagia, \* metrorrhagia, \* metrorrhagia, \* metrorrhagia, \* metrorrhagia, \* herasturia, lytaria (16 of gender). The following treatment-emergent events were reported with intramuscular olanzapine for injection at one or more doses 2.5 mg/injection in clinical trials (722 patients). This list may not include events previously listed elsewhere in labeling, those events for which a drug cause was remote, those terms

at one or more doses =2.5 mg/injection in clinical trials (722 patients). This list may not include events previously listed elsewhere in labeling, those events for which a drug cause was remote, those terms which were so general as to be uninformative, and those events reported only once or twice which did not have a substantial probability of being acutely life-threatening. Body as a Whole—Frequent: injection site pain; Infrequent: abdominal pain, fever. Cardiovascular—Infrequent: AV block, heart block, syncope. Digestive—Infrequent: diarrhea, nausea. Hemic and Lymphatio—Infrequent: and but injection site and Nutritional—Infrequent: creatine phosphokinase increased, dehydration, hyperkalemia. Musculoskeletal—Infrequent: twitching. Nervous System—Infrequent: abnormal gait, akathisia, articulation impairment, confusion, emotional lability. Skin and Appendages—Infrequent sustang. Postintroduction Reported since market introduction and temporally (not necessari) causally) related to olanzapine therapy: allergic reaction (eg. anaphylactoid reaction, ang venue puritius or uriticaria). diabetic coma, laundice. ancreatitis, prinains, mahodomvolvsis, and venous puritius or uriticaria).

pruritus or urticaria), diabetic coma, jaundice, pancreatitis, priapism, rhabdomyolysis, and venous thromboembolic events (including pulmonary embolism and deep venous thrombosis). Random cholesterol levels of ≥240 mg/dL and random triglyceride levels of ≥1000 mg/dL have been rarely reported.

DRUG ABUSE AND DEPENDENCE: Olanzapine is not a controlled substance. ZYPREXA is a registered trademark of Eli Lilly and Company. ZYDIS is a registered trademark of Cardinal Health, Inc. or one of its subsidiaries.

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# **Unique Delivery.**

## Introducing the *first* antidepressant patch

EMSAM<sup>®</sup> is the first and only transdermal monoamine oxidase inhibitor (MAOI) for treating depressive symptoms in patients with major depressive disorder (MDD).

Please see IMPORTANT SAFETY INFORMATION, including **Boxed WARNING**, on next page. **ENSAM**<sup>®</sup> 6 mg/24 hr (selegiline transdermal system) Unique Delivery. Proven Results.

#### IMPORTANT SAFETY INFORMATION

Antidepressants increased the risk of suicidal thinking and behavior (suicidality) in short-term studies in children and adolescents with major depressive disorder (MDD) and other psychiatric disorders. All pediatric patients being treated with antidepressants for any indication should be observed closely for clinical worsening, suicidality, or unusual changes in behavior, especially during the initial few months of a course of drug therapy, or at time of dose changes, either increases or decreases. Families and caregivers should be advised for the need for close observation and communication with the prescriber. EMSAM is not approved for use in pediatric patients (see Boxed WARNING)

Pooled analyses of short-term (4 to 16 weeks) placebo-controlled trials of nine antidepressant drugs (SSRIs and others) in children and adolescents with major depressive disorder (MDD), obsessive compulsive disorder (OCD), or other psychiatric disorders (a total of 24 trials involving over 4400 patients) have revealed a greater risk of adverse events representing suicidal thinking and behavior (suicidality) during the first few months of treatment in those receiving antidepressants. The average risk of such events in patients receiving antidepressants was 4%, twice the placebo risk of 2%. No suicides occurred in these trials

- To reduce the risk of hypertensive crisis, which is potentially life-threatening, foods and beverages high in tyramine must be avoided while on EMSAM 9 mg/24 hr or 12 mg/24 hr, and for 2 weeks following discontinuation of EMSAM at these doses or reducing the dose to EMSAM 6 mg/24 hr
- Due to the potential for serotonin syndrome, which is potentially life-threatening, EMSAM should not be used with
  the following antidepressants: selective serotonin reuptake inhibitors (SSRIs), dual serotonin and norepinephrine reuptake
  inhibitors (SNRIs), tricyclic antidepressants (TCAs), monoamine oxidase inhibitors (MAOIs), mirtazapine, and bupropion;
  meperidine and analgesics such as: tramadol, methadone, propoxyphene, and pentazocine; the antitussive
  dextromethorphan; cyclobenzaprine; oral selegiline; and St. John's wort
- After stopping treatment with SSRIs, SNRIs, TCAs, MAOIs, mirtazapine, bupropion; meperidine and analgesics such as: tramadol, methadone, and propoxyphene; dextromethorphan; St. John's wort; and buspirone, approximately 1 week (5 weeks for fluoxetine) should elapse before starting therapy with EMSAM. At least 2 weeks should elapse after stopping EMSAM before starting therapy with buspirone or a drug that is contraindicated with EMSAM
- Carbamazepine and oxcarbazepine are contraindicated in patients taking MAO inhibitors, including EMSAM
- The use of EMSAM is contraindicated for use with sympathomimetic amines, including amphetamines as well as cold products and weight-reducing preparations that contain vasoconstrictors (eg, pseudoephedrine, phenylephrine, phenylpropanolamine, and ephedrine)
- Patients taking EMSAM should not undergo **elective surgery requiring general anesthesia** or be given **local anesthesia** containing sympathomimetic vasoconstrictors
- EMSAM should not be used in the presence of pheochromocytoma since such tumors secrete pressor substances
- Adults with MDD or co-morbid depression in the setting of other psychiatric illness being treated with antidepressants should be observed for clinical worsening and suicidality, especially during the initial few months of a course of drug therapy, or at times of dose changes, either increases or decreases
- Risk of bipolar disorder should be ruled out prior to initiating antidepressant therapy. EMSAM is not approved for the treatment of bipolar depression
- Due to the potential for elevated blood pressure, the use of EMSAM with buspirone is not recommended
- As with other MAOIs, **postural hypotension** can occur with EMSAM therapy. Dose increases in the **elderly** should be made with caution and patients should be observed closely for postural changes in blood pressure throughout treatment
- EMSAM should be used with caution in patients with certain concomitant systemic illnesses that can produce altered metabolism or hemodynamic responses
- As with other psychoactive drugs, EMSAM may have the potential to impair judgment, thinking, or motor skills.
   Patients should not drive or operate hazardous machinery until they are certain EMSAM does not impair their ability to engage in such activities
- The use of alcohol is not recommended while taking EMSAM
- EMSAM should not be used in combination with tyramine-containing nutritional supplements
- EMSAM should be used in pregnancy only if the potential benefit justifies the potential risk to the fetus. Caution should be exercised when administering EMSAM to a nursing mother
- EMSAM is contraindicated in patients with known hypersensitivity to selegiline or to any component of the transdermal system
- Treatment-emergent adverse events in short-term clinical trials that occurred at a ≥2% incidence with EMSAM and for which the incidence was greater than placebo include: application site reaction (24% vs 12%), headache (18% vs 17%), insomnia (12% vs 7%), diarrhea (9% vs 7%), dry mouth (8% vs 6%), dyspepsia (4% vs 3%), rash (4% vs 2%), pharyngitis (3% vs 2%), and sinusitis (3% vs 1%)

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The first and only transdermal MAOI no dietary modifications at the starting and target dose of 6 mg/24 hr

Significant relief proven short-term efficacy with longer time to relapse

Demonstrated tolerability reported sexual dysfunction similar to placebo; minimal weight change

### INDICATION

EMSAM is indicated for the treatment of Major Depressive Disorder (MDD).

### **Dose-Dependent Dietary Modifications:**

To reduce the risk of hypertensive crisis, which is potentially life-threatening, foods and beverages high in tyramine must be avoided while on EMSAM<sup>®</sup> 9 mg/24 hr and 12 mg/24 hr, and for 2 weeks following discontinuation of EMSAM at these doses, or reducing the dose to EMSAM 6 mg/24 hr.

 Estimates of the incidence of sexual dysfunction cited in product labeling may underestimate actual incidence **ENSAM** 6 mg/24 hr (selegiline transdermal system)

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#### **EMSAM®** (selegiline transdermal system) CONTINUOUS DELIVERY FOR ONCE-DAILY APPLICATION

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Brief Summary of Prescribing Information. For complete prescribing information please consult official package circular.

#### Suicidality in Children and Adolescents

Antidepressants increased the risk of suicidal thinking and behavior (suicidality) in short-term studies in children and adolescents with major depressive disorder (MDD) and other psychiatric disorders. Anyone considering the use of EMSAM or any other antidepressant in a child or adolescent must balance this risk with the clinical need. Patients who are started on therapy should be observed closely for clinical worsening, suicidality, or unusual changes in behavior. Families and caregivers should be advised for the need for close observation and communication with the prescriber. EMSAM is not approved for use in pediatric patients. (See WARNINGS and PRECAUTIONS, Pediatric Use.)

Pooled analyses of short-term (4 to 16 weeks) placebo-controlled trials of nine antidepressant drugs (SSRIs and others) in children and adolescents with major depressive disorder (MDD), obsessive compulsive disorder (0CD), or other psychiatric disorders (a total of 24 trials involving over 4400 patients) have revealed a greater risk of adverse events representing suicidal thinking or behavior (suicidality) during the first few months of treatment in those receiving antidepressants. The average risk of such events in patients receiving antidepressants was 4%, twice the placebo risk of 2%. No suicides occurred in these trials.

#### INDICATIONS AND USAGE

EMSAM is indicated for the treatment of major depressive disorder.

The efficacy of EMSAM in the treatment of major depressive disorder was established in 6- and 8-week placebo-controlled trials of outpatients with diagnoses of DSM-IV category of major depressive disorder (see Clinical Efficacy Trials in Full Prescribing Information).

A major depressive episode (DSM-IV) implies a prominent and relatively persistent (nearly every day for at least 2 weeks) depressed or dysphoric mood that usually interferes with daily functioning, and includes at least five of the following nine symptoms: depressed mood, loss of interest in usual activities, significant change in weight and/or appetite, insomnia or hypersonnia, psychomotor agitation or retardation, increased fatigue, feelings of guilt or worthlessness, slowed thinking or impaired concentration, and suicide attempt or suicidal ideation. The benefit of maintaining patients with major depressive disorder on therapy with EMSAM after achieving

The benefit of maintaining patients with major depressive disorder on therapy with EMSAM after achieving a responder status for an average duration of about 25 days was demonstrated in a controlled trial (see Clinical Efficacy Trials under CLINICAL PHARMACOLOGY in Full Prescribing Information). The physician who elects to use EMSAM for extended periods should periodically re-evaluate the long-term usefulness of the drug for the individual patient (see DOSAGE AND ADMINISTRATION).

The antidepressant action of EMSAM in hospitalized depressed patients has not been studied.

#### CONTRAINDICATIONS

EMSAM is contraindicated in patients with known hypersensitivity to selegiline or to any component of the transdermal system.

EMSAM is contraindicated with selective serotonin reuptake inhibitors (SSRIs, e.g., fluoxetine, sertraline, and paroxetine), dual serotonin and norepinephrine reuptake inhibitors (SNRIs, e.g., venlafaxine and duloxetine), tricyclic antidepressants (TCAs, e.g., imipramine and amitripfyline), bupropion hydrochloride; meperidine and analgesic agents such as tramadol, methadone and propoxyphene; the antitussive agent dextromethorphan; St. John's wort; mirtazapine; and cyclobenzaprine. EMSAM should not be used with oral selegiline or other MAD inhibitors (MAOIs e.g., isocarboxazid, phenelzine, and tranylcypromine) (see WARNINGS).

Carbamazepine and oxcarbazepine are contraindicated in patients taking selegiline (see **PRECAUTIONS**, **Drug Interactions**). As with other MAOIs, **EMSAM** is contraindicated for use with sympathomimetic amines, including amphet-

As with other MAOIs, EMSAM is contraindicated for use with sympathomimetic amines, including amphetamines as well as cold products and weight-reducing preparations that contain vasoconstrictors (e.g., pseudoephedrine, phenylephrine, phenylpropanolamine, and ephedrine). As with other MAOIs, patients taking EMSAM should not undergo elective surgery requiring general anes-

As with other MAOIs, patients taking **EMSAM** should not undergo elective surgery requiring general anesthesia. Also, they should not be given cocaine or local anesthesia containing sympathomimetic vasoconstrictors. **EMSAM** should be discontinued at least 10 days prior to elective surgery. If surgery is necessary sooner, benzodiazepines, mivacurium, rapacuronium, fentanyl, morphine, and codeine may be used cautiously. As with other MAOIs, **EMSAM** is contraindicated for use in patients with pheochromocytoma.

EMSAM is an irreversible MAO inhibitor. As a class, these compounds have been associated with hypertensive crises caused by the ingestion of foods containing high amounts of tyramine. In its entirety, the data for EMSAM 6 mg/24 hours support the recommendation that a modified diet is not required at this dose. Due to the more limited data available for EMSAM 9 mg/24 hours and 12 mg/24 hours, patients receiving these doses should follow <u>Dietary Modifications Required for Patients Taking EMSAM 9 mg/24 hours</u> and 12 mg/24 hours. (See WARNINGS and PRECAUTIONS, Drug Interactions, *Tyramine*.)

#### WARNINGS

#### **Clinical Worsening and Suicide Risk**

Patients with major depressive disorder (MDD), both adult and pediatric, may experience worsening of their depression and/or the emergence of suicidal ideation and behavior (suicidality) or unusual changes in behavior, whether or not they are taking antidepressant medications, and this risk may persist until significant remission occurs. There has been a long-standing concern that antidepressants may have a role in inducing worsening of depression and the emergence of suicidality in certain patients. Antidepressants increased the risk of suicidal thinking and behavior (suicidality) in short-term studies in children and adolescents with Major Depressive Disorder (MDD) and other psychiatric disorders.

lescents with Major Depressive Disorder (MDD) and other psychiatric disorders. Pooled analyses of short-term placebo-controlled trials of nine antidepressant drugs (SSRIs and others) in children and adolescents with MDD, OCD, or other psychiatric disorders (a total of 24 trials involving over 4400 patients) have revealed a greater risk of adverse events representing suicidal behavior or thinking (suicidality) during the first few months of treatment in those receiving antidepressants. The average risk of such events in patients receiving antidepressants was 4%, twice the placebo risk of 2%. There was considerable variation in risk among drugs, but a tendency toward an increase for almost all drugs studied. The risk of suicidality was most consistently observed in the MDD trials, but there were signals of risk arising from trials in other psychiatric indications (obsessive compulsive disorder and social anxiety disorder) as well. No suicides occurred in these trials. It is unknown whether the suicidality risk in pediatric patients extends to longer-term use, i.e., beyond several months. It is also unknown whether the suicidality risk

All pediatric patients being treated with antidepressants for any indication should be observed closely for clinical worsening, suicidality, and unusual changes in behavior, especially during the initial few months of a course of drug therapy, or at times of dose changes, either increases or decreases. Such observation would generally include at least weekly face-to-face contact with patients or their family members or caregivers during the first 4 weeks of treatment, then every other week visits for the next 4 weeks, then at 12 weeks, and as clinically indicated beyond 12 weeks. Additional contact by telephone may be appropriate between face-to-face visits.

Adults with MDD or co-morbid depression in the setting of other psychiatric illness being treated with antidepressants should be observed similarly for clinical worsening and suicidality, especially during the initial few months of a course of drug therapy, or at times of dose changes, either increases or decreases.

The following symptoms, anxiety, agitation, panic attacks, insomnia, irritability, hostility, aggressiveness, impulsivity, akathisia (psychomotor restlessness), hypomania, and mania, have been reported in adult and pediatric patients being treated with antidepressants for major depressive disorder as well as for other indications, both psychiatric and nonpsychiatric. Although a causal link between the emergence of such symptoms and either the worsening of depression and/or the emergence of suicidal impulses has not been

established, there is concern that such symptoms may represent precursors to emerging suicidality.

Consideration should be given to changing the therapeutic regimen, including possibly discontinuing the medication, in patients whose depression is persistently worse, or who are experiencing emergent suicidality or symptoms that might be precursors to worsening depression or suicidality, especially if these symptoms are severe, abrupt in onset, or were not part of the patient's presenting symptoms. If the decision has been made to discontinue treatment, medication should be tapered, as rapidly as is fea-

If the decision has been made to discontinue treatment, medication should be tapered, as rapidly as is feasible, but with recognition that abrupt discontinuation can be associated with certain symptoms.

Families and caregivers of pediatric patients being treated with antidepressions for major depressive disorder or other indications, both psychiatric and nonpsychiatric, should be alerted about the need to monitor patients for the emergence of agitation, irritability, unusual changes in behavior, and the other symptoms described above, as well as the emergence of suicidality, and to report such symptoms immediately to healthcare providers. Such monitoring should include daily observation by families and caregivers. Prescriptions for EMSAM (selegiline transfermal system) should be written for the smallest quantity consistent with good patient management, in order to reduce the risk of overdose. Families and caregivers of adults being treated for depression should be similarly advised.

#### Screening Patients for Bipolar Disorder

A major depressive episode may be the initial presentation of bipolar disorder. It is generally believed (though not established in controlled trials) that treating such an episode with an antidepressant aione may increase the likelihood of precipitation of a mixed/manic episode in patients at risk for bipolar disorder. Whether any of the symptoms described above represent such a conversion is unknown. However, prior to initiating treatment with an antidepressant, patients with depressive symptoms should be adequately screened to determine if they are at risk for bipolar disorder; such screening should include a detailed psychiatric history, including a family history of suicide, bipolar disorder, and depression. It should be noted that EMSAM is not approved for use in treating bipolar depression.

#### Hypertensive Crisis

EMSAM is an irreversible MA0 inhibitor. MA0 is important in the catabolism of dietary amines (e.g., tyramine). In this regard, significant inhibition of intestinal MAO-A activity can impose a cardiovascular safety risk tollowing the ingestion of tyramine-rich foods. As a class, MA0Is have been associated with hypertensive crises caused by the ingestion of foods with a high concentration of tyramine. Hypertensive crises, which in some cases may be fatal, are characterized by some or all of the following symptoms: occipital headache which may radiate frontally, palpitation, neck stiffness or soreness, nausea, vomiting, sweating (sometimes with fever and sometimes with cold, clammy skin), dilated pupils, and photophobia. Either tachycardia or bradycardia may be present and can be associated with constricting chest pain. Intracranial bleeding has been reported in association with the increase in blood pressure. Patients should be instructed as to the signs and symptoms of severe hypertension and advised to seek immediate medical attention if these signs or symptoms are present.

In 6 of the 7 clinical studies conducted with EMSAM at doses of 6 mg/24 hours–12 mg/24 hours, patients were not limited to a modified diet typically associated with this class of compounds. Although no hypertensive crises were reported as part of the safety assessment, the likelihood of developing this reaction cannot be fully determined since the amount of tyramine typically consumed during the course of treatment is not known and blood pressure was not continuously monitored.

To further define the likelihood of hypertensive crises with use of EMSAM, several Phase I tyramine challenge studies were conducted both with and without food (see PRECAUTIONS, Drug Interactions, *Tyramine)*. In its entirety, the data for EMSAM 6 mg/24 hours support the recommendation that a modified det is not required at this dose. Due to the more limited data available for EMSAM 9 mg/24 hours, and the results from the Phase I tyramine challenge study in fed volunteers administered EMSAM 12 mg/24 hours (see PRECAUTIONS, Drug Interactions, *Tyramine)*, patients receiving these doses should follow <u>Dietary</u> <u>Modifications Required for Patients Taking EMSAM 9 mg/24 hours</u> and 12 mg/24 hours.

If a hypertensive crisis occurs, **EMSAM** should be discontinued immediately and therapy to lower blood pressure should be instituted immediately. Phentolamine 5 mg or labetalol 20 mg administered slowly intravenously is recommended therapy to control hypertension. Alternately, nitroprusside delivered by continuous intravenous infusion may be used. Fever should be managed by means of external cooling. Patients must be closely monitored until symptoms have stabilized.

#### Dietary Modifications Required for Patients Taking EMSAM 9 mg/24 hours and 12 mg/24 hours The following foods and beverages should be avoided beginning on the first day of EMSAM 9 mg/24 hours or 12 mg/24 hours treatment and should continue to be avoided for two weeks after a dose reduction to EMSAM 6 mg/24 hours or following the discontinuation of EMSAM 9 mg/24 hours or 12 mg/24 hours. Food and beverages to avoid and those which are acceptable!

Class of Food and Beverage	Tyramine-Rich Foods and Beverages to Avoid	Acceptable Foods, Containing No or Little Tyramine
Meat, Poultry and Fish	Air dried, aged and fermented meats, sausages and salamis (including cacciatore, hard salami and mortadella); pickled herring; and any spoiled or improperly stored meat, poultry and fish (e.g., foods that have undergone changes in coloration, odor, or become moldy); spoiled or improperly stored animal livers	Fresh meat, poultry and fish, including fresh processed meats (e.g., lunch meats, hot dogs, breakfast sausage, and cooked sliced ham)
Vegetables	Broad bean pods (fava bean pods)	All other vegetables
Dairy	Aged cheeses	Processed cheeses, mozzarella, ricotta cheese, cottage cheese and yogurt
Beverages	All varieties of tap beer, and beers that have not been pasteurized so as to allow for ongoing fermentation	As with other antidepressants, concomitant use of alcohol with <b>EMSAM</b> is not recommended. (Bottled and canned beers and wines contain little or no tyramine.)
Miscellaneous	Concentrated yeast extract (e.g., Marmite), sauerkraut, most soybean products (including soy sauce and tofu), OTC supplements containing tyramine	Brewer's yeast, baker's yeast, soy milk, commercial chain- restaurant pizzas prepared with cheeses low in tyramine

<sup>1</sup> Adapted from K. I. Shulman, S. E. Walker. Psychiatric Annals. 2001; 31:378-384.

#### Use With Other Drugs Affecting Monoamine Activity

Serious, sometimes fatal, central nervous system (CNS) toxicity referred to as the "serotonin syndrome" has been reported with the combination of non-selective MAOIs with certain other drugs, including tricyclic or selective serotonin reuptake inhibitor antidepressants, amphetamines, meperidine, or pentazocine. Serotonin syndrome is characterized by signs and symptoms that may include hyperthermia, rigidity, myoolonus, autonomic instability with rapid fluctuations of the vital signs, and mental status changes that include extreme agitation progressing to delirium and coma. Similar less severe syndromes have been reported in a few patients receiving a combination of oral selegiline with one of these agents.

Therefore, EMSAM should not be used in combination with selective serotonin reuptake inhibitors (SSRIs, e.g., liuoxetine, sertraline, paroxetine); dual serotonin and norepinephrine reuptake inhibitors (SNRIs, e.g., uverlafaxine and duloxetine); tricyclic antidepressants (TCAs, e.g., inipramine and amitriptyline); oral selegiline or other MAOIs (e.g., isocarboxazid, phenelzine, and tranylcypromine), mirtazapine; bupropion hydrochloride; meperidine and analgesic agents such as tramadol, methadone, and propoxyphene; the antitussive agent dextromethorphan, or St. John's wort because of the risk of life-threatening adverse reactions. Also, EMSAM should not be used with sympathomimetic amines, including amphetamines as well as cold products and weight-reducing preparations that contain vasoconstrictors (e.g., pseudoephedrine, phenylephrine, phenylpropanolamine, and ephedrine). (See CONTRAINDICATIONS.)

Concomitant use of EMSAM (selegiline transdermal system) with buspirone hydrochloride is not advised since several cases of elevated blood pressure have been reported in patients taking MAOIs who were then given buspirone HCI.

After stopping treatment with SSRIs; SNRIs; TCAs; MAOIs; meperidine and analgesics such as tramadol, methadone, and propoxyphene; dextromethorphan; St. John's wort; mirtazapine; bupropion HCl; or buspirone HCl, a time period equal to 4-5 half-lives (approximately 1 week) of the drug or any active metabolite should elapse before starting therapy with EMSAM. Because of the long half-life of fluoxetine and its active metabolite, at least five weeks should elapse between discontinuation of fluoxetine and initiation of treat-ment with EMSAM. At least two weeks should elapse after stopping EMSAM before starting therapy with buspirone HCl or a drug that is contraindicated with EMSAM.

#### PRECAUTIONS

#### General Hypotension

As with other MAOIs, postural hypotension, sometimes with orthostatic symptoms, can occur with EMSAM therapy. In short-term, placebo-controlled depression studies, the incidence of orthostatic hypotension (i.e., a decrease of 10 mmHg or greater in mean blood pressure when changing position from supine or sitting to standing) was 9.8% in **EMSAM**-treated patients and 6.7% in placebo-treated patients. It is recommended that elderly patients treated with EMSAM be closely observed for postural changes in blood pressure throughout treatment. Dose increases should be made cautiously in patients with pre-existing orthostasis. Postural hypotension may be relieved by having the patient recline until the symptoms have abated. Patients should be cautioned to change positions gradually. Patients displaying orthostatic symptoms should have appropriate dosage adjustments as warranted.

#### Activation of Mania/Hypomania

During Phase III trials, a manic reaction occurred in 8/2036 (0.4%) patients treated with EMSAM. Activation of mania/hypomania can occur in a small proportion of patients with major affective disorder treated with other marketed antidepressants. As with all antidepressants, EMSAM should be used cautiously in patients with a history of mania

#### Use in Patients With Concomitant Illness

Clinical experience with EMSAM in patients with certain concomitant systemic illnesses is limited. Caution is advised when using EMSAM in patients with disorders or conditions that can produce altered metabolism or hemodynamic responses

EMSAM has not been systematically evaluated in patients with a history of recent myocardial infarction or unstable heart disease. Such patients were generally excluded from clinical studies during the product's premarketing testing.

No ECG abnormalities attributable to EMSAM were observed in clinical trials.

Although studies of phenylpropanolamine and pseudoephedrine did not reveal pharmacokinetic drug interactions with EMSAM, it is prudent to avoid the concomitant use of sympathomimetic agents, such as some decongestants

#### Information for Patients

Prescribers or other health professionals should inform patients, their families, and their caregivers about the benefits and risks associated with treatment with EMSAM and should counsel them in its appropriate use. A patient Medication Guide About Using Antidepressants in Children and Teenagers is available for EMSAM. The prescriber or health professional should instruct patients, their families, and their care-givers to read the Medication Guide and should assist them in understanding its contents. Patients should be given the opportunity to discuss the contents of the Medication Guide and to obtain answers to any questions they may have. The complete text of the Medication Guide is reprinted at the end of this document. Patients should be advised of the following issues and asked to alert their prescriber if these occur while taking EMSAM

#### **Clinical Worsening and Suicide Risk**

Patients, their families and their caregivers should be encouraged to be alert to the emergence of anxiety, agitation, panic attacks, insomnia, irritability, hostility, aggressiveness, impulsivity, akathisia (psychomotor restlessness), hypomania, mania, other unusual changes in behavior, worsening of depression, and suicidal ideation, especially early during antidepressant treatment or when the dose is adjusted up or down. Families and caregivers of patients should be advised to observe for the emergence of such symptoms on a day-today basis, since changes may be abrupt. Such symptoms should be reported to the patient's prescriber or health professional, especially if they are severe, abrupt in onset, or were not part of the patient's presenting symptoms. Symptoms such as these may be associated with an increased risk for suicidal thinking and behavior and indicate a need for very close monitoring and possibly change in the medication.

#### General

Patients should be advised not to use oral selegiline while on EMSAM therapy.

Patients should be advised not to use carbamazepine or oxcarbazepine while on EMSAM therapy Patients should be advised not to use meperidine and analgesic agents such as tramadol, methadone, and propoxyphene.

Patients should be advised not to use sympathomimetic agents while on EMSAM therapy.

Patients should be advised not to use selective serotonin reuptake inhibitors (SSRIs, e.g., fluoxetine, sertraline, paroxetine, and St. John's wort), dual serotonin and norepinephrine cuptake inhibitors (SNRIs, e.g., venlafaxine and duloxetine), tricyclic antidepressants (TCAs, e.g., imipramine and amitriptyline), mirtazapine, oral selegiline or other MAOIs (e.g., isocarboxazid, phenelzine, and tranylcypromine), bupropion hydrochloride or buspirone hydrochloride while on EMSAM therapy.

EMSAM has not been shown to impair psychomotor performance; however, any psychoactive drug may potentially impair judgment, thinking, or motor skills. Patients should be cautioned about operating hazardous machinery, including automobiles, until they are reasonably certain that EMSAM therapy does not impair their ability to engage in such activities. Patients should be told that, although EMSAM has not been shown to increase the impairment of mental

and motor skills caused by alcohol, the concomitant use of EMSAM and alcohol in depressed patients is not recommended.

Patients should be advised to notify their physician if they are taking, or plan to take, any prescription or over-the-counter drugs, including herbals, because of the potential for drug interactions. Patients should also be advised to avoid tyramine-containing nutritional supplements and any cough medicine containing dextromethorphan.

Patients should be advised to use EMSAM exactly as prescribed. The need for dietary modifications at higher doses should be explained, and a brief description of hypertensive crisis provided. Rare hypertensive reactions with oral selegiline at doses recommended for Parkinson's disease and associated with dietary influences have been reported. The clinical relevance to EMSAM is unknown.

Patients should be advised that certain tyramine-rich foods and beverages should be avoided while on EMSAM 9 mg/24 hours or EMSAM 12 mg/24 hours, and for two weeks following discontinuation of EMSAM at these doses (see CONTRAINDICATIONS and WARNINGS).

Patients should be instructed to immediately report the occurrence of the following acute symptoms:

severe headache, neck stiffness, heart racing or palpitations, or other sudden or unusual symptoms. Patients should be advised to avoid exposing the **EMSAM** application site to external sources of direct heat, such as heating pads or electric blankets, heat lamps, saunas, hot tubs, heated water beds, and prolonged direct sunlight since heat may result in an increase in the amount of selegiline absorbed from the

EMSAM patch and produce elevated serum levels of selegiline. Patients should be advised to change position gradually if lightheaded, faint, or dizzy while on EMSAM

therapy. Patients should be advised to notify their physician if they become pregnant or intend to become pregnant during EMSAM therapy.

Patients should be advised to notify their physician if they are breast-feeding an infant.

While patients may notice improvement with EMSAM (selegiline transfermal system) therapy in one to several weeks, they should be advised of the importance of continuing drug treatment as directed. Patients should be advised not to cut the EMSAM system into smaller portions

#### For instructions on how to use EMSAM, see DOSAGE AND ADMINISTRATION, How to Use EMSAM.

#### Drug Interactions

The potential for drug interactions between EMSAM and a variety of drugs was examined in several human studies. Drug interaction studies described below were conducted with EMSAM 6 mg/24 hours. Although no differences are expected, drug interaction studies have not been conducted at higher doses (see In vitro Metabolism in Full Prescribing Information). In all of the studies described below, no drug-related adverse events were noted that required discontinuation of any subjects. Further, the incidence and nature of the adverse events were consistent with those known for seleciline or the test agent.

#### Alcohol

The pharmacokinetics and pharmacodynamics of alcohol (0.75 mg/kg) alone or in combination with EMSAM 6 mg/24 hours for 7 days of treatment was examined in 16 healthy volunteers. No clinically signif-icant differences were observed in the pharmacokinetics or pharmacodynamics of alcohol or the pharmacokinetics of selegiline during co-administration. Although EMSAM has not been shown to increase the impairment of mental and motor skills caused by alcohol (0.75 mg/kg) and failed to alter the pharmacokinetic properties of alcohol, patients should be advised that the use of alcohol is not recommended while taking EMSAM.

#### Alprazolam

In subjects who had received EMSAM 6 mg/24 hours for 7 days, co-administration with alprazolam (15 mg/day), a CYP3A4/5 substrate, did not affect the pharmacokinetics of either selegiline or alprazolam.

#### Carbamazepine

Carbamazepine is an enzyme inducer and typically causes decreases in drug exposure, however, slightly increased levels of selegiline and its metabolites were seen after single application of EMSAM 6 mg/24 hours in subjects who had received carbamazepine (400 mg/day) for 14 days. Changes in plasma selegiline concentrations were nearly two-fold, and variable across the subject population. The clinical relevance of these observations is unknown. Carbamazepine is contraindicated with MAOIs, including selegiline (see CONTRAINDICATIONS).

#### lbuprofen

In subjects who had received EMSAM 6 mg/24 hours for 11 days, combined administration with the CYP2C9 substrate ibuprofen (800 mg single dose) did not affect the pharmacokinetics of either selegiline or ibuprofen. Ketoconazole

Seven-day treatment with ketoconazole (200 mg/day), a potent inhibitor of CYP3A4, did not affect the steady-state pharmacokinetics of selegiline in subjects who received EMSAM 6 mg/24 hours for seven days and no differences in the pharmacokinetics of ketoconazole were observed.

#### Levothyroxine

In healthy subjects who had received EMSAM 6 mg/24 hours for 10 days, single dose administration with levothyroxine (150 µg) did not alter the pharmacokinetics of either selegiline or levothyroxine (as judged by T<sub>3</sub> and T<sub>4</sub> plasma levels).

#### Olanzapine

In subjects who had received EMSAM 6 mg/24 hours for 10 days, co-administration with olanzapine, a substrate for CYP1A2, CYP2D6, and possibly CYP2A6, did not affect the pharmacokinetics of either selegiline or olanzapine.

#### Phenylpropanolamine (PPA)

In subjects who had received EMSAM 6 mg/24 hours for 9 days, co-administration with PPA (25 mg every 4 hours for 24 hours) did not affect the pharmacokinetics of PPA. There was a higher incidence of significant blood pressure elevations with the co-administration of EMSAM and PPA than with PPA alone, suggesting a possible pharmacodynamic interaction. It is prudent to avoid the concomitant use of sympathomimetic agents with EMSAM.

#### Pseudoenhedrine

EMSAM 6 mg/24 hours for 10 days, co-administered with pseudoephedrine (60 mg three times a day) did not affect the pharmacokinetics of pseudoephedrine. The effect of pseudoephedrine on EMSAM was not examined. There were no clinically significant changes in blood pressure during pseudoephedrine adminis-tration alone, or in combination with EMSAM. Nonetheless, it is prudent to avoid the concomitant use of sympathomimetic agents with EMSAM

#### Risperidone

In subjects who had received EMSAM 6 mg/24 hours for 10 days, co-administration with risperidone (2 mg per day for 7 days), a substrate for CYP2D6, did not affect the pharmacokinetics of either selegiline or risperidone

#### Tyramine

Selegiline (the drug substance of EMSAM) is an irreversible inhibitor of monoamine oxidase (MAO), a ubiquitous intracellular enzyme. MAO exists as two isoenzymes, referred to as MAO-A and MAO-B. Selegiline shows greater affinity for MAO-B; however, as selegiline concentration increases, this selectivity is lost with resulting dose-related inhibition of MAO-A. Intestinal MAO is predominantly type A, while in the brain both isoenzymes exist.

MAO plays a vital physiological role in terminating the biological activity of both endogenous and exogenous arnines. In addition to their role in the catabolism of monoamines in the CNS, MAOs are also important in the catabolism of exogenous amines found in a variety of foods and drugs. MAO in the gastrointestinal tract (primarily type A) provides protection from exogenous amines with vasopressor actions, such as tyramine, which if absorbed intact can cause a hypertensive crisis, the so-called "cheese reaction." If a large amount of tyramine is absorbed systemically, it is taken up by adrenergic neurons and causes norepinephrine release from neuronal storage sites with resultant elevation of blood pressure. While most foods contain negligible amounts or no tyramine, a few food products (see WARNINGS) may contain large amounts of tyramine that represent a potential risk for patients with significant inhibition of intestinal MAO-A resulting from administration of MAOIs. Tyramine-containing nutritional supplements should be avoided by patients taking EMSAM.

Animal studies have indicated the transdermal administration of selegiline via EMSAM 6 mg/24 hours allows for critical levels of MAO inhibition to be achieved in the brain while avoiding levels of gastrointestinal inhibition. To further define the risk of hypertensive crises with use of EMSAM, several Phase I tyramine challenge studies were conducted both with and without food.

Fourteen tyramine challenge studies including 214 healthy subjects (age range 18-65; 31 subjects >50 years of age) were conducted to determine the pressor effects of oral tyramine with concurrent EMSAM treatment (6 mg/24 hours-12 mg/24 hours), measured as the dose of tyramine required to raise systolic blood pressure by 30 mmHg (TYR30). Studies were conducted with and without concomitant administration of food. Studies conducted with food are most relevant to clinical practice since tyramine typically will be consumed in food. A high-tyramine meal is considered to contain up to 40 mg of tyramine.

One study using a crossover design in 13 subjects investigated tyramine pressor doses (TYR30) after administration of EMSAM 6 mg/24 hours and oral selegiline (5 mg twice daily) for 9 days. Mean pressor doses (TYR30) of tyramine capsules administered without food were 338 mg and 385 mg in subjects treated with EMSAM and oral selegiline, respectively. Another study using a crossover design in 10 subjects investigated tyramine pressor doses after

administration of EMSAM 6 mg/24 hours or tranylcypromine 30 mg/day for 10 days. Mean pressor doses (TYR30) of tyramine capsules administered without food were 270 mg in subjects treated with EMSAM 6 mg/24 hours and 10 mg in subjects treated with tranvlcvpromine.

In a third crossover study, tyramine without food was administered to 12 subjects. The mean tyramine pressor doses (TYR30) after administration of EMSAM 6 mg/24 hours for 9 and 33 days were 292 mg and 204 mg, respectively. The lowest pressor dose was 50 mg in one subject in the 33-day group.

Tyramine pressor doses were also studied in 11 subjects after extended treatment with **EMSAM** (selegiline transformal system) 12 mg/24 hours. At 30, 60, and 90 days, the mean pressor doses (TYR30) of tyramine administered without food were 95 mg, 72 mg, and 88 mg, respectively. The lowest pressor dose without food was 25 mg in 3 subjects at day 30 while on **EMSAM** 12 mg/24 hours. Eight subjects from this study, with a mean tyramine pressor dose of 64 mg at 90 days, were subsequently administered tyramine with food, resulting in a mean pressor dose of 172 mg (2.7 times the mean pressor dose observed without food, p <0.003).

With the exception of one study (N=153), the phase III clinical development program was conducted without requiring a modified diet (N=2553, 1606 at 6 mg/24 hours, and 947 at 9 mg/24 hours or 12 mg/24 hours). No hypertensive crises were reported in any patient receiving **EMSAM**.

In its entirety, the data for EMSAM 6 mg/24 hours support the recommendation that a modified diet is not required at this dose. Due to the more limited data available for EMSAM 9 mg/24 hours and 12 mg/24 hours, patients receiving these doses should follow <u>Dietary Modifications Required for Patients Taking EMSAM</u> 9 mg/24 hours and 12 mg/24 hours. (See WARNINGS.)

#### Warfarin

Warfarin is a substrate for CYP2C9 and CYP3A4 metabolism pathways. In healthy volunteers titrated with Cournadin<sup>®</sup> (warfarin sodium) to clinical levels of anticoagulation (INR of 1.5 to 2), co-administration with **EMSAM** 6 mg/24 hours for 7 days did not affect the pharmacokinetics of the individual warfarin enantiomers. **EMSAM** did not after the clinical pharmacodynamic effects of warfarin as measured by INR, Factor VII or Factor XI evels.

#### Carcinogenesis, Mutagenesis, Impairment of Fertility

#### Carcinogenesis

In an oral carcinogenicity study in rats, selegiline given in the diet for 104 weeks was not carcinogenic up to the highest evaluable dose tested (3.5 mg/kg/day, which is 3 times the oral maximum recommended human dose on a mg/m<sup>2</sup> basis).

Carcinogenicity studies have not been conducted with transdermal administration of selegiline.

#### Mutagenesis

Selegiline induced mutations and chromosomal damage when tested in the *in vitro* mouse lymphoma assay with and without metabolic activation. Selegiline was negative in the Ames assay, the *in vitro* mammalian chromosome aberration assay in human lymphocytes, and the *in vivo* oral mouse micronucleus assay.

#### Impairment of Fertility

A mating and fertility study was conducted in male and female rats at transdermal doses of 10, 30, and 75 mg/kg/day of selegiline (8, 24 and 60 times the maximum recommended human dose of **EMSAM** [12 mg/24 hours] on a mg/m<sup>2</sup> basis). Slight decreases in sperm concentration and total sperm count were observed at the high dose; however, no significant adverse effects on fertility or reproductive performance were observed.

#### Teratogenic Effects - Pregnancy Category C

in an embryofetal development study in rats, dams were treated with transdermal selegiline during the period of organogenesis at doses of 10, 30, and 75 mg/kg/day (8, 24, and 60 times the maximum recommended human dose [MRHD] of **EMSAM** [12 mg/24 hours] on a mg/m<sup>2</sup> basis). At the highest dose there was a decrease in fetal weight and slight increases in malformations, delayed ossification (also seen at the mid dose), and embryofetal post-implantation lethality. Concentrations of selegiline and its metabolites in fetal plasma were generally similar to those in maternal plasma. In an *oral* embryofetal development study in rats, a decrease in fetal weight occurred at the highest dose tested (36 mg/kg; no-effect dose 12 mg/kg); no increase in malformations was seen.

In an embryofetal development study in rabbits, dams were treated with transdermal selegiline during the period of organogenesis at doses of 2.5, 10, and 40 mg/kg/day (4, 16, and 64 times the MRHD on a mg/m<sup>2</sup> basis). A slight increase in visceral malformations was seen at the high dose. In an *oral* embryofetal development study in rabbits, increases in total resorptions and post-implantation loss, and a decrease in the number of live fetuses per dam, occurred at the highest dose tested (50 mg/kg; no-effect dose 25 mg/kg).

In a prenatal and postnatal development study in rats, dams were treated with transdermal selegiline at doses of 10, 30, and 75 mg/kg/day (8, 24, and 60 times the MRHD on a mg/m² basis) on days 6-21 of gestation and days 1-21 of the lactation period. An increase in post-implantation loss was seen at the mid and high doses, and an increase in stillobrom pups was seen at the high doses. Decreases in pup weight (throughout lactation and post-weaning periods) and survival (throughout lactation period), retarded pup physical development, and pup epididymal and testicular hypoplasia, were seen at the mid and high doses. Retarded neurobehavioral and sexual development was seen at all doses. Adverse effects on pup reproductive performance, as evidenced by decreases in implantations and litter size, were seen at the high dose. These findings suggest persistent effects on the offspring of treated dams. A no-effect dose was not established for developmental toxicity. In this study concentrations of selegiline and its metabolites in milk were - 15 and 5 times, respectively, the concentrations in plasma, indicating that the pups were directly dosed during the lactation period.

There are no adequate and well-controlled studies in pregnant women. **EMSAM** should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

#### Labor and Delivery

The effect of EMSAM on labor and delivery in humans is unknown.

#### **Nursing Mothers**

In a prenatal and postnatal study of transdermal selegiline in rats, selegiline and metabolites were excreted into the milk of lactating rats. The levels of selegiline and metabolites in milk were approximately 15 and 5 times, respectively, steady-state levels of selegiline and metabolites in maternal plasma. It is not known whether this drug is excreted in human milk. Because many drugs are excreted in human milk, caution should be exercised administering **EMSAM** to a nursing mother.

#### Pediatric Use

Safety and effectiveness in the pediatric population have not been established (see BOX WARNING and WARNINGS, Clinical Worsening and Suicide Risk).

Anyone considering the use of EMSAM in a child or adolescent must balance the potential risks with the clinical need.

#### Geriatric Use

One hundred ninety-eight (198) elderly (≥65 years of age) patients participated in clinical studies with EMSAM 6 mg/24 hours to 12 mg/24 hours. There were no overall differences in effectiveness between elderly and younger patients. In short-term, placebo-controlled depression trials, patients age 50 and older appeared to be at higher risk for rash (4.4% EMSAM versus 0% placebo) than younger patients (3.4% EMSAM versus 2.4% placebo).

#### ADVERSE REACTIONS

The premarketing development program for EMSAM included selegiline exposures in patients and/or normal subjects from two different groups of studies: 702 healthy subjects in clinical pharmacology/pharmacokinetics studies and 2036 exposures from patients in controlled and uncontrolled major depressive disorder clinical trials. The conditions and duration of treatment with EMSAM varied and included double-blind, open-label, fixed-dose, and dose titration studies of short-term and longer-term exposures. Safety was assessed by monitoring adverse events, physical examinations, vital signs, body weights, laboratory analyses, and ECGs.

Adverse events during exposure were obtained primarily by general inquiry and recorded by clinical investigators. In the tables and tabulations that foliow, standard COSTART terminology has been used to classify reported adverse events. The stated frequencies of adverse events represent the proportion of individuals who experienced, at least once, a treatment-emergent adverse event of the type listed. An event was considered treatment-emergent if to occurred for the first time or worsened while receiving therapy following baseline evaluation.

#### Adverse Findings Observed in Short-Term, Placebo-Controlled Trials

Adverse Events Associated with Discontinuation of Treatment

Among 817 depressed patients who received EMSAM (selegiline transdermal system) at doses of either 3 mg/24 hours (151 patients), 6 mg/24 hours (550 patients) or 6 mg/24 hours, 9 mg/24 hours, and 12 mg/24 hours (116 patients) in placebo-controlled trials of up to 8 weeks in duration, 7.1% discontinued treatment due to an adverse event as compared with 3.6% of 668 patients receiving placebo. The only adverse event associated with discontinuation, in at least 1% of EMSAM. So % placebo).

#### Adverse Events Occurring at an Incidence of 2% or More Among EMSAM-Treated Patients

Table 1 enumerates adverse events that occurred at an incidence of 2% or more (rounded to the nearest percent) among 817 depressed patients who received EMSAM in doses ranging from 3 to 12 mg/24 hours in placebo-controlled trials of up to 8 weeks in duration. Events included are those occurring in 2% or more of patients treated with EMSAM and for which the incidence in patients treated with EMSAM was greater than the incidence in placebo-treated patients.

Only one adverse event was associated with a reporting of at least 5% in the **EMSAM** group, and a rate at least twice that in the placebo group, in the pool of short-term, placebo-controlled studies: application site reactions (see *Application Site Reactions*, below). In one such study which utilized higher mean doses of **EMSAM** than that in the entire study pool, the following events met these criteria: application site reactions, insomnia, diarrhea, and pharyngitis.

These figures cannot be used to predict the incidence of adverse events in the course of usual medical practice where patient characteristics and other factors differ from those that prevailed in the clinical trials. Similarly, the cited frequencies cannot be compared with figures obtained from other clinical investigations involving different treatments, uses, and investigators. The cited figures, however, do provide the prescribing physicians with some basis for estimating the relative contribution of drug and non-drug factors to the adverse event incidence rate in the population studied.

Table 1.	Treatment-Emergent Adverse Events: Incidence in Placebo-Controlled Clinical Trials for
	Major Depressive Disorder with EMSAM <sup>(1)</sup>

Body System/Preferred Term	EMSAM (N=817)	Placebo (N=668)		
	(% of Patients Reporting Event)			
Body as a Whole Headache	18 17			
<b>Digestive</b> Diarrhea Dyspepsia	9 4	7 3		
Nervous Insomnia Dry Mouth	12 8	7 6		
<b>Respiratory</b> Pharyngitis Sinusitis	3 3	2 1		
Skin Application Site Reaction Rash	24 4	12 2		

<sup>(1)</sup> Events reported by at least 2% of patients treated with EMSAM are included, except the following events which had an incidence on placebo treatment ≥ to EMSAM: infection, nausea, dizziness, pain, abdominal pain, nervousness, back pain, asthenia, anxiety, flu syndrome, accidental injury, somnolence, rhinitis, and papitations.

#### Application Site Reactions

In the pool of short-term, placebo-controlled major depressive disorder studies, application site reactions (ASRs) were reported in 24% of **EMSAM**-treated patients and 12% of placebo-treated patients. Most ASRs were mild or moderate in severity. None were considered serious. ASRs led to dropout in 2% of **EMSAM**treated patients and no placebo-treated patients.

In one such study which utilized higher mean doses of EMSAM, ASRs were reported in 40% of EMSAMtreated patients and 20% of placebo-treated patients. Most of the ASRs in this study were described as erythema and most resolved spontaneously, requiring no treatment. When treatment was administered, it most commonly consisted of dermatological preparations of corticosteroids.

#### Male and Female Sexual Dysfunction with MAO-Inhibitors

Although changes in sexual desire, sexual performance and sexual satisfaction often occur as manifestations of a psychiatric disorder, they may also be a consequence of pharmacologic treatment. Beliable estimates of the incidence and severity of untoward experiences involving sexual desire, per-

Reliable estimates of the incidence and severity of untoward experiences involving sexual desire, performance, and satisfaction are difficult to obtain, in part because patients and physicians may be reluctant to discuss them. Accordingly, estimates of the incidence of untoward sexual experience and performance cited in product labeling are likely to underestimate their actual incidence. Table 2 shows that the incidence rates of sexual side effects in patients with major depressive disorder are comparable to the placebo rates in placebo-controlled trials.

#### Table 2. Incidence of Sexual Side Effects in Placebo-Controlled Clinical Trials with EMSAM

Adverse Event	EMSAM	Placebo
	IN MAL	ES ONLY
	(N=304)	(N=256)
Abnormal Ejaculation	1.0%	0.0%
Decreased Libido	0.7%	0.0%
Impotence	0.7%	0.4%
Anorgasmia	0.2%	0.0%
	in fema	LES ONLY
	(N=513)	(N=412)
Decreased Libido	0.0%	0.2%

There are no adequately designed studies examining sexual dysfunction with EMSAM treatment.

#### Vital Sign Changes

EMSAM and placebo groups were compared with respect to (1) mean change from baseline in vital signs (pulse, systolic blood pressure, and diastolic blood pressure) and (2) the incidence of patients meeting criteria for potentially clinically significant changes from baseline in these variables. In the pool of short-term, placebo-controlled major depressive disorder studies, 3.0% of EMSAM-treated patients and 1.5% of placebotreated patients experienced a low systolic blood pressure, defined as a reading less than or equal to 90 mmHg with a change from baseline of at least 20 mmHg. In one study which utilized higher mean doses of EMSAM, 6.2% of EMSAM-treated patients and no placebo-treated patients experienced a low standing systolic blood pressure by these criteria.

In the pool of short-term major depressive disorder trials, 9.8% of **EMSAM**-treated patients and 6.7% of placebo-treated patients experienced a notable orthostatic change in blood pressure, defined as a decrease of at least 10 mmHg in mean blood pressure with postural change.

#### Table 3. Incidence of Weight Gain and Weight Loss in Placebo-Controlled Trials with

Weight Change	EMSAM	Placebo
	(N=757)	(N=614)
Gained $\geq 5\%$	2.1%	2.4%
Lost ≥ 5%	5.0%	2.8%

In these trials, the mean change in body weight among EMSAM-treated patients was -1.2 lbs compared to +0.3 lbs in placebo-treated patients

#### Laboratory Changes

EMSAM and placebo groups were compared with respect to (1) mean change from baseline in various serum chemistry, hematology, and urinalysis variables and (2) the incidence of patients meeting criteria for potentially clinically significant changes from baseline in these variables. These analyses revealed no clinically important changes in laboratory test parameters associated with EMSAM

#### ECG Changes

Electrocardiograms (ECGs) from EMSAM (N=817) and placebo (N=668) groups in controlled studies were compared with respect to (1) mean change from baseline in various ECG parameters and (2) the incidence of patients meeting criteria for clinically significant changes from baseline in these variables No clinically meaningful changes in ECG parameters from baseline to final visit were observed for patients

in controlled studies Other Events Observed During the Premarketing Evaluation of EMSAM

During the premarketing assessment in major depressive disorder, EMSAM was administered to 2036 patients in Phase III studies. The conditions and duration of exposure to EMSAM varied and included double-blind and open-label studies.

In the tabulations that follow, reported adverse events were classified using a standard COSTART-based dictionary terminology. All reported adverse events are included except those already listed in Table 1 or elsewhere in labeling, and those events occurring in only one patient. It is important to emphasize that although the events occurred during treatment with EMSAM (selegiline transdermal system), they were not necessarily caused by it.

Events are further categorized by body system and listed in order of decreasing frequency according to the following definitions: frequent adverse events are those occurring on one or more occasions in at least 1/100 patients; infrequent adverse events are those occurring in less than 1/100 patients but at least 1/1000 patients; rare events are those occurring in fewer than 1/1000 patients.

Body as a Whole: Frequent: Chest pain, neck pain. Infrequent: Bacterial infection, fever, cyst, fungal infection, chills, viral infection, suicide attempt, neck rigidity, pelvic pain, photosensitivity reaction, face edema, flank pain, hernia, intentional injury, neoplasm, generalized edema, overdose. Rare: Body odor, halitosis. heat stroke, parasitic infection, malaise, moniliasis.

Cardiovascular System: Frequent: Hypertension. Infrequent: Vasodilatation, tachycardia, migraine, syncope, atrial fibrillation, peripheral vascular disorder. Rare: Myocardial infarct. Digestive System: Frequent: Constipation, flatulence, anorexia, gastroenteritis, vomiting. Infrequent:

Increased appetite, thirst, periodontal abscess, eructation, gastritis, colitis, dysphagia, tongue edema, glossitis, increased salivation, abnormal liver function tests, melena, tongue disorder, tooth caries. Rare: Gl neoplasia, rectal hemorrhage.

Hemic and Lymphatic System: Frequent: Ecchymosis. Infrequent: Anemia, lymphadenopathy. Rare: Leukocytosis, leukopenia, petechia. Metabolic and Nutritional: Frequent: Peripheral edema. Infrequent: Hyperglycemia, increased SGPT,

edema, hypercholesteremia, increased SGOT, dehydration, alcohol intolerance, hyponatremia, increased

lactic dehydrogenase. Rare: Increased alkaline phosphatase, bilirubinemia, hypoglycemic reaction. Musculoskeletal System: Frequent: Myalgia, pathological fracture. Infrequent: Arthralgia, generalized spasm, arthritis, myasthenia, arthrosis, tenosynovitis. Rare: Osteoporosis.

Nervous System: Frequent: Agitation, paresthesia, thinking abnormal, amnesia. Infrequent: Leg cramps, tremor, vertigo, hypertonia, twitching, emotional lability, confusion, manic reaction, depersonalization, hyperkinesias, hostility, myoclonus, circumoral paresthesia, hyperesthesia, increased libido, euphoria, neurosis, paranoid reaction. Rare: Ataxia.

Respiratory System: Frequent: Cough increased, bronchitis. Infrequent: Dyspnea, asthma, pneumonia, laryngismus. Rare: Epistaxis, laryngitis, yawn.

Skin and Appendages: Frequent: Pruritus, sweating, acne. Infrequent: Dry skin, maculopapular rash, contact dermatitis, urticaria, herpes simplex, alopecia, vesiculobullous rash, herpes zoster, skin hypertrophy, fungal dermatitis, skin benign neoplasm. Rare: Eczema.

Special Senses: Frequent: Taste perversion, tinnitus. Infrequent: Dry eyes, conjunctivitis, ear pain, eye pain, otitis media, parosmia. Rare: Mydriasis, otitis external, visual field defect.

Urogenital System: Frequent: Urinary tract infection, urinary frequency, dysmenorrhea, metrorrhagia. Infrequent: Urinary tract infection (male), vaginitis, cystitis (female), hematuria (female), unintended pregnancy, dysuria (female), urinary urgency (male and female), vaginal moniliasis, menorrhagia, urination impaired (male), breast neoplasm (female), kidney calculus (female), vaginal hemorrhage, amenorrhea, breast pain, polyuria (female)

#### DRUG ABUSE AND DEPENDENCE Controlled Substance Class

EMSAM is not a controlled substance.

#### Physical and Psychological Dependence

Several animal studies have assessed potential for abuse and/or dependence with chronic selegiline admin-

istration. None of these studies demonstrated a potential for selegiline abuse or dependence. EMSAM has not been systematically studied in humans for its potential for abuse, tolerance, or physical dependence. While the clinical trials did not reveal any tendency for any drug-seeking behavior, these observations were not systematic and it is not possible to predict on the basis of this limited experience the extent to which a CNS-active drug will be misused, diverted, and/or abused once marketed. Consequently, patients should be evaluated carefully for a history of drug abuse, and such patients should be observed closely for signs of EMSAM misuse or abuse (e.g., development of tolerance, increases in dose, or drug-seeking behavior).

#### OVERDOSAGE

There are no specific antidotes for EMSAM. If symptoms of overdosage occur, immediately remove the EMSAM system and institute appropriate supportive therapy. For contemporary consultation on the man-agement of poisoning or overdosage, contact the National Poison Control Center at 1-800-222-1222.

EMSAM is considered to be an irreversible, MAOI at therapeutic doses and, in overdosage, is likely to cause excessive MAO-A inhibition, and may result in the signs and symptoms resembling overdosage with other non-selective, oral MAOI antidepressants (e.g., tranylcypromine [Parnate<sup>a</sup>], phenelzine [Nardil<sup>a</sup>], or isocarboxazide [Marplan®]).

#### Overdosage With Non-Selective MAO Inhibition

NOTE: The following is provided for reference only; it does not describe events that have actually been observed with selegiline in overdosage. No information regarding overdose by ingestion of **EMSAM** is available.

Typical signs and symptoms associated with overdosage of non-selective MAOI antidepressants may not appear immediately. Delays of up to 12 hours between ingestion of drug and the appearance of signs may occur, and peak effects may not be observed for 24-48 hours. Since death has been reported following overdosage with MAOI agents, hospitalization with close monitoring during this period is essential.

Overdosage with MAOI agents is typically associated with CNS and cardiovascular toxicity. Signs and symptoms of overdosage may include, alone or in combination, any of the following: drowsiness, dizziness, faintness, irritability, hyperactivity, agitation, severe headache, hallucinations, trismus, opisthotonos, convulsions, coma, rapid and irregular pulse, hypertension, hypotension and vascular collapse, precordial pain, respiratory depression and failure, hyperpyrexia, diaphoresis, and cool, clammy skin. Type and intensity of

symptoms may be related to extent of the overdosage. Treatment should include supportive measures, with pharmacological intervention as appropriate. Symptoms may persist after drug washout because of the irreversible inhibitory effects of these agents on systemic MAO activity. With overdosage, in order to avoid the occurrence of hypertensive crisis ("cheese reaction"), dietary tyramine should be restricted for several weeks beyond recovery to permit regeneration of the peripheral MAO-A isoenzyme.

#### DOSAGE AND ADMINISTRATION

Initial Treatment EMSAM (selegiline transdermal system) should be applied to dry, intact skin on the upper torso (below the neck and above the waist), upper thigh or the outer surface of the upper arm once every 24 hours. The recommended starting dose and target dose for **EMSAM** is 6 mg/24 hours. **EMSAM** has been systematically evaluated and shown to be effective in a dose range of 6 mg/24 hours to 12 mg/24 hours. However, the trials were not designed to assess if higher doses are more effective than the lowest effective dose of 6 mg/24 hours. Based on clinical judgment, if dose increases are indicated for individual patients, they should occur in dose increments of 3 mg/24 hours (up to a maximum dose of 12 mg/24 hours) at intervals of no less than two weeks. As with all antidepressant drugs, full antidepressant effect may be delayed.

Patients should be informed that tyramine-rich foods and beverages should be avoided beginning on the first day of **EMSAM** 9 mg/24 hours or 12 mg/24 hours treatment and should continue to be avoided for two weeks after a dose reduction to EMSAM 6 mg/24 hours or following the discontinuation of EMSAM 9 mg/24 hours or 12 mg/24 hours (see WARNINGS).

#### Special Populations

No dosage adjustment is required for patients with mild to moderate renal or hepatic impairment. The recommended dose for elderly patients (≥65 years) is EMSAM 6 mg/24 hours daily. Dose increases, in the elderly, should be made with caution and patients should be closely observed for postural changes in blood pressure throughout treatment.

#### How to Use EMSAM

- EMSAM should be applied to dry, intact skin on the upper torso (below the neck and above the waist), upper thigh or the outer surface of the upper arm. A new application site should be selected with each new patch to avoid re-application to the same site on consecutive days. Patches should be applied at approximately the same time each day.
- Apply the patch to an area of skin that is not hairy, oily, irritated, broken, scarred or calloused. Do not 2 place the patch where your clothing is tight which could cause the patch to rub off.
- After you have selected the site for your patch, wash the area gently and thoroughly with soap and warm water. Rinse until all soap is removed. Dry the area with a clean dry towel.
- Just before you apply the patch, remove it from the pouch. Remove half of the protective backing and 4 throw it away. Try not to touch the exposed side (sticky side) of the patch, because the medicine could come off on your fingers.
- Press the sticky side of the patch firmly against the skin site that was just washed and dried. Remove the second half of the protective liner and press the remaining sticky side firmly against your skin. 5. Make sure that the patch is flat against the skin (there should be no bumps or folds in the patch) and is sticking securely. Be sure the edges are stuck to the skin surface. After you have applied the patch, <u>wash your hands</u> thoroughly with soap and water to remove any
- 6. medicine that may have gotten on them. Do not touch your eyes until after you have washed your hands.
- 7. After 24 hours, remove the patch. Do not touch the sticky side. As soon as you have removed the patch, fold it so that the sticky side sticks to itself.
- 8 Throw away the folded patch so that children and/or pets cannot reach it
- Wash your hands with soap and water.
- 10. If your patch falls off, apply a new patch to a new site and resume your previous schedule.
- 11.
- Only one EMSAM patch should be worn at a time. Avoid exposing the EMSAM application site to external sources of direct heat, such as heating pads 12. or electric blankets, heat lamps, saunas, hot tubs, heated water beds, and prolonged direct sunlight.

#### Maintenance Treatment

It is generally agreed that episodes of depression require several months or longer of sustained pharmacologic therapy. The benefit of maintaining depressed patients on therapy with EMSAM at a dose of 6 mg/24 hours after achieving a responder status for an average duration of about 25 days was demonstrated in a con-trolled trial (see **Clinical Efficacy Trials** in Full Prescribing Information and **INDICATIONS AND USAGE**). The physician who elects to use EMSAM for extended periods should periodically re-evaluate the long-term usefulness of the drug for the individual patient.

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Hallahan, B., & Garland, M.R. British J Psych 2005;186:275-277.

Depleted Levels:			
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Arthritis	<ul> <li>Image: A set of the set of the</li></ul>	<ul> <li>Image: A set of the set of the</li></ul>	
Cardiovascular	<ul> <li>Image: A set of the set of the</li></ul>	<ul> <li>Image: A set of the set of the</li></ul>	
Diabetes	<ul> <li>Image: A set of the set of the</li></ul>	<ul> <li>Image: A set of the set of the</li></ul>	
Depression	<b>v</b>	<ul> <li>✓</li> </ul>	
Pregnancy	<ul> <li>Image: A set of the set of the</li></ul>	<b>v</b>	
Alcohol Consumption	n 🖌	<ul> <li></li> </ul>	

"...reduced membrane DHA emerged as a significant predictor of depression..." Edwards, R., et al. *J Affect Disord* 1998;48:149–155.

**Postpartum**–"...lower DHA content in mothers' milk...[was] associated with higher rates of postpartum depression."

Hibbeln, J.R. J Affect Disord 2002;69:15-29.

"Trials have shown that folate supplementation hastens recovery from depressive episodes and enhances the effect of antidepressants." Morris, M.S., et al. *Psychother and Psychosom* 2003;72(2):80-7.

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FDA "Qualified Health Claims" Omega-3 Fatty Acids & Coronary Heart Disease. Consumption of omega-3 fatty acids may reduce the risk of coronary heart disease. FDA evaluated the data and determined that, although there is scientific evidence supporting the claim, the evidence is not conclusive. Docket No. 91N-0103.

EDA "Qualified Health Claims" B Vitamins & Vascular Disease. As part of a well-balanced diet that is low in saturated fat and cholesterol, Folic Acid, Vitamin B<sub>6</sub> and Vitamin B<sub>12</sub> may reduce the risk of vascular disease. FDA evaluated the above claim and found that, while it is known that diets low in saturated fat and cholesterol reduce the risk of heart disease and other vascular diseases, the evidence in support of the above claim is inconclusive. Docket No. 99P-3029.



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PHM 06136 ADV

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Patent Pending

#### Rx Only

Description Animi-3\* Capsules are intended for oral administration.

Each Capsule Contains: 1 mg Folic Acid USP, 12.5 mg Vitamin B<sub>6</sub> (Pyridoxine Hydrochloride, USP), 500 mg Vitamin B<sub>12</sub> (Cyanocobalamin, USP) and Pharmaceutical Grade Omega-3 Fish Oil providing 500 mg Omega-3 Acids, including 350 mg Docosabareaneio Acid (DHA) and 35 mg Eicosapentaenoic Acid (EPA). Also Contains: Yellow Beeswax NF, Sunflower Oil FCC, Bleached Lecithin NF, Ascorbic Acid USP, Mixed Tocopherols NF, Ascorbyl Palmitate NF and a soft shell capsule (which contains; Gelatin USP, Glycerin NF, Titanium Dioxide USP, FD&C Red 40 and USP Purified Water).

1 mg 12.5 mg

500 mcg 500 mg

350 mg 35 mg

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Animi-3<sup>®</sup> Capsules are indicated for improving nutritional status before, during and after pregnancy and in conditions requiring Essential Fatty Acid, Vitamin B<sub>12</sub>, B<sub>6</sub> and Folic Acid supplementation. **Contraindications** 

This product is contraindicated in patients with a known hypersensitivity to any of the ingredients.

#### Precautions Folic Acid in de

Folic Acid in doses above 0.1 mg daily may obscure pernicious anemia in that hematological remission can occur while neurological manifestations remain progressive.

Pediatric Use

Safety and effectiveness in pediatric patients have not been established.

#### Adverse Reactions

Allergic sensitization has been reported following oral, enteral and parenteral administration of folic acid **Dosage and Administration** Adults — One capsule daily or one capsule twice daily, or as directed by a physician.

#### Adults — One ca

How Supplied Animi-3\* supplied as red opaque oblong Capsules. Each Capsule is imprinted with "PBM 540" in black

opacode. Animi-3\* Capsules are available in bottles of 60 capsules (NDC 66213-540-60).

#### Keep out of reach of children.

Dispense in a well-closed, tight light-resistant container as defined in the USP using a child-resistant closure.

Storage Conditions: Store at 20-25°C (68–77°F). See USP Controlled Room Temperature. Protect from light and moisture.

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American Psychiatric Association 1000 Wilson Blvd., Suite 1825 • Arlington, VA 22209-3901 Phone: 1-888- 35-PSYCH or (703) 907-7300 • Fax: (703) 907-1090 E-mail: <u>apa@psych.org</u> • Web: <u>www.psych.org/2006IPS</u> In patients with schizophrenia who have been discharged...





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Commonly observed events: Treatment-emergent adverse events with an incidence of 5% or greater in at least one of the RISPERDAL DONSTA groups (25 mg or 50 mg) and at least twice that of placebo were: somnolence, akathisia, parkinsonism, dyspepsia, constipation, dry mouth, fatigue, and weight increase.

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Tardive dyskinesia (TD): As with all antipsychotic medications, prescribing should be consistent with the need to minimize the risk of TD; if its signs and symptoms appear, discontinuation, of RISPERDAL CONSTA stroud be considered. In the integrated database of multiple dose studies, the incidence of TD was 0.6% (9/1499 patients).

Neuroleptic malignant syndrome (NMS): NMS has been reported rarely with this class of medications, including RISPERDAL CONSTA, and appropriate management should be employed. Cerebrovascular adverse events (CAEs): CAEs, including fatalities, have been reported in eldenly patients with dementia-related psychosis taking oral rispendone in clinical triats. The incidence of CAEs with oral rispendone was significantly higher than with placebo. RISPERDAL CONSTA is not approved for treating these patients.

References: 1. Weiden PJ. Zygmunt A. The road back: working with the severely mentally III. Medication noncompliance in schizophrenia: part 1. Assessment. J. Pract Psychiatry Betav Health. 1997;3:106–110. 2. Lam YWF, Velligan D, Ereshefsky L, et al. Intra-Individual variability in plasma concentrations as an indicator of adherence in schizophrenia. Poster presented at: 42nd Annual New Dirictal Drug Evaluation. Unit: (NODEU) Meeting: June 10–13, 2002; Boca Ration, Fiz.

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INDICATIONS AND USAGE: RISPERDAL® CONSTA® (risperidone) is indicated for the treatment of

CONTRAINDICATIONS: RISPERDAL® CONSTA® (risperidone) is contraindicated in patients with a known

CONTINUATIONS INVESTIGATIONS INVESTIGATIONS ON THE INSTITUTION OF A STREET AND A ST cyntronine (whio) nas oedir reporteer in tastoctoon matticipeponetic unga antipeychic fang testiment alter receiver trans MMS, the potential entroduction of drug therapy should be carefully considered. The patient should be carefully monitored, since recurrances of MMS have been reported. Tardive Dyskinesia: a syndrome of potentially investible. Involutary, thysiketik movements up divide in the platents treated with antipaychotic drugs. If signs and symptoms of tartife dyskinesia appear in a patient treated with RISPERDAL\* CONSTA\*, drug discontinuation should be considered. However, aome patients may require treatment with RISPERDAL\* CONSTA\* despite the presence of the cyndrome. Cerebrovascular Adverse Events, Including Stroke, in Elderty Patients with Damentia-Related Cerconorascular waverase creates, incutoing ordexe, in circlerity expenses that memora realises hypothosis. Cerconorascular adverse events (e.g., excluse, transient isolenini catask), including italiates were reported in patients (mean age 85 years; range 75.47) in this of oral reported and with demention-trained psycholosis. In placobo-controlled thias, here was a significantly higher includence of with demention-trained psycholosis. In placobo-controlled thias, here was a significantly higher includence of the second seco with demetta-related psychoss, in placebo-controlled traits, mere was a significantly figher includerlo of centermorescalar adverse events in advertas freated with viol inspectional compared to patients treated with placebo, RISPERDAL\* CONSTA\*'s not approved for the treatment of patients with dementiar-telated psychosis. [See also Bood WARNING, WARNINGS: Increased Biotrality in Elderly Patients with Dementia-Related Psychosis, Hyperglycemia and Diabetes Mellitus: Hyperglycemia, in some caase actience and associated with Nedeoddolos or hyperproducta como and easis, has been reported in patients treated with applical antipsycholos including RISPERDAL® Patients with an established diaprosis of diabetes mails avia ore stated to applicad antipsycholos should be meltitude (second). olucose control. Patients with risk factors for diabetes mellitus who are starting treatment with all chotics should undergo fasting blood glucose testing at the beginning of treatment and periodically

PRECAUTIONS: General: Orthostatic Hypotension: RISPERDAL® CONSTA® (risperidone) may induce PRECKOTIONS: General controlation ("pytoenson, more Sub-C Corror ("generating tag)" labor offictation (pytoension associated with discharges, tachycardia, and in some patiesitis, syncope, probably reflecting is apha-adrenergic antaponiatic properties. Syncope was reported in 0.8% (12/1499 patients) or patients treated with RISPERDAL<sup>®</sup> CONSTA<sup>®</sup> in multiple-does studies. Patients should be instructed in the patients treated with RISPERDAL<sup>®</sup> CONSTA<sup>®</sup> in multiple-does studies. Patients should be instructed in the patients treated with RISPERDAL<sup>®</sup> CONSTA<sup>®</sup> in multiple-does studies. Patients should be instructed in the patients treated with RISPERDAL<sup>®</sup> CONSTA<sup>®</sup> in multiple-does studies. Patients approximation of the patients of the pat onpharmacologic interventions that help to reduce the occurrence of orthostatic hypotension (e.g., sitting or Indeptaminizione de la several mante la creace sue occasione de considera representante de la construcción de seated positioni, RISFEDALª CONSTA® should be usad with particular caution in (1) palente witi known cardiovascular disease (history ol mycoardial inflatcion or ischemia, Nearl faulter, or conduction de la conductione de la construcción de l cardioviscular obsease (relativ) or inground a manufactor or recreating mean taking a bondecision hanomalilles), contentivaticular cleases, and conditions which would predispose patients to hypotension, e.g. detypitation and hypovolema, and [2] in the elderly and patients with non-ic hepatic impairment. Monitoring of orthosatic vitis signs should be considered in all such alients, and a dose reduction should be Michtong dr Mickelsen and Byda Bundowski ordinateleu i nacho plannak and sodar robocker antibud eo considered il hystolischen och served vill und consolitational hystolischen hystolisc Instruments' Constring and be based autobased in patients with a many of anticense organization spontage and an approximation of the spontage of the spontage of the spontage of the spontage of the RISPERDAL® CONSTA® and other antipsychotic drugs should be used cautiously in patients at risk for application promoting. Gee also Boxed WARNING, WARNINGS: Increased Mortality in Elderly Patients algolicott protuntoria, jose isob dorde vratnikov, manimutos, increased nationali ji in Eulen y raulenta with Dementia-Related Psychosisi, jo Stodogstroppi and Tumors in Animals: RISPETDAL\* CONSTA\* produced osteodystoppi in male and female rats in a 1-year toxicity study and a 2-year carchogenicity study at a dose of 40 mg/sq administrated IM every 2 weeks: RISPETDAL\* CONSTA\* produced renal tabular at a does of you might pointesterb introvery a weeks, may chance concourt, publicate train advance futures (adversaria, addrocarcinoma) and adversariadulary phechanopolytomas in male rats in the 2-year carcinogenicity study at 40 mg/kg administered IM every 2 weeks. In addition, RISPERDAL<sup>14</sup> CONSTA<sup>44</sup>, CONSTA<sup>44</sup> and in renal turnor-bearing males in the 2-year carcinogenicity study at 40 mg/kg administered IM every 2 weeks. Neither the renal or adrenal turnors, nor osteodystrophy, were seen in studies of orally administered reperidone. Osteodystrophy was not lobered in dogs at doese up to 14 times (based on AUC) the IM MRHD in a 1-year toxicity study. The renal tubular and adrenomedullary turnors in male rats nador terminaria na meno podra observata a unazi na terminaria de PRECAUTIONS, Cacinogenicity, Mutagenesis, Impairment of Fartiliy. The relevance of these findings to human risk is unknown. Hyperprolactimemia: As with other drugs that antapparte dogamine D, receptors, risperiorione elevantes prolactin travels and the relevation persists during chronic administration. Neither clinical studies nor epidemiologic studies conducted service presses during provinc automatisation, revenier curical sources for exponentioogs sources concluses to date have shown an association between chronic administration of file class of drugs and tunnofigeneits in humans, the available evidence is considered too limited to be conclusive at this time. Potential for Cognitive and Molor Impairment: Sommicroece was reported by 5% of patients treated with RISFERDAL\* Cognitive and Motor Impairment: Somminners and the callond and the state of the Mith RISFERDAL<sup>1</sup> CONSTA<sup>1</sup> in multiple-dose trials. Talentes should be causioned about operating hazardosu machinery, inducting automobiles, until they are reasonably contain that treatment with RISFERDAL<sup>1</sup> CONSTA<sup>4</sup> does not affect them adversely. Pringipers in No cases of pringism have been reported in patients treated with oral RISFERDAL<sup>1</sup> CONSTA<sup>4</sup>. However, the cases of pringism have been reported in patients treated with oral RISFERDAL<sup>1</sup> CONSTA<sup>4</sup>. However, the cases of pringism have been reported in patients treated with oral RISFERDAL<sup>1</sup> Consta<sup>4</sup>. However, the cases of pringism have been reported in patients treated with oral RISFERDAL<sup>1</sup> Consta<sup>4</sup>. However, the cases of pringism have been reported in the stepholic state of the stepholic state at the stepholic state of the stepholic state at the stepholic stepholic state at the stepholic state at the stepholic state at the stepholic state at the stepholic stepholic stepholic st turnor. Body Temperature Regulation: Deurgton of body temperature regulation has been attributed to antipsycholic agents. Suicide: The possibility of a suicide attempt is inherent in schicophyteria, and obes supervision of high-risk patients should accompany drug therapy. Use in Patients with Concomitant Illnesses. Clinical experience with NISPERDAL® CONTA\* in patients with certain concomitant systemic illnesses is limited. Patients with Parkinson's Disease or Dementia with Lewy Bodies who receive antipsycholics, including RISPERDAL® CONTA\* may be at increased risk of Neuroscitc Malignant Syndrome as well as having an increased sensitivity to artipsycholic medications. Manifestation of this patients and the state of increased sensitivity can include confusion, obtundation, postural instability with frequent fails, in addition to extrapyramidal symptoms. Caution is advisable when using RISPERDAL® CONSTA® in patients with diseases or conditions that could affect metabolism or hemodynamic responses. Increased plasma

concentrations of risperidone and 9-hydroxyrisperidone occur in patients with severe renal impairment. Patients with renal or hepatic impairment should be carefully litrated on oral RISPERDAL® CONSTA\* is indicated (see DOSAGE AND DAMINISTRATION in 147 IP). Drug Interactions: The interactions of RISPERDAL® CONSTA\* and other drugs have not been systematically evaluated. Given the primary CNS effects of risperiodic, caution should be used when RISPERDAL® CONSTA\* is administered in combination with other centrally-tacting drugs or alcohol. Because of its potential for inducing hypotension. RISPERDAL® CONSTA\* and starts the effects of learcobas and objective segments with this potential. RISPERDAL® CONSTA\* may antagonize the effects of learcobas and objective agonts. Amintryfarie did not first the observed/setters of inspections. affect the obarmacokinetics of risperidone or the active molety. Cimetidine and ranitidine increased the affect the prasmaconnects on regenorotie or the active enterty - considered and randomie increased in bioexiability of inspendone by 64% and 25%, respectively. However, considered dir at affact the AUC of the active molety, whereas ranktine increased the AUC of the active molety by 20%. Chronic administration of obszapine with respective may adversase the 64anance of respectively. Consolic administration of obszapine with respective may adversase the classance of respective. Carebamazeline and Other Enzyme Inducers: In a drug interaction study in schizophrenic patients, 11 subjects received and risperidone titrated to 6 mg/dky for 3 weeks, followed by concurrent administration of carbamazophren for an additional 3 weeks. During co-administration, the plasma concontrations of insperidone and its pharmacologically active metabolite. 9-Invitroxyrisperidone, were decreased by about 50%. Plasma concentrations of carbamazopine did not appear to Provide Counterinstation of other known enzyme inducers (e.g., phenylori, rifampin, and phenobarbial) with rispertitione may cause similar decreases in the combined plasma concentrations of rispertione and s-hydroxysignetione, which could lead to decreased efficacy of reperioden relatives. At the initiation of therapy Why cardamazaphine or other known hepatic enzym inducers, patients should be closely monitored during the first 4-4 weeks, since the close of HISPERDAL® CONSTA® may need to be adjusted. A dose increase, or additional call RISPERDAL®, may need to be considered. On discontinuation of carbamazepine or other hepatic enzyme inducers, the dose of RISPERDAL® CONSTA® should be re-enaluated and, if necessary, decreased. Patients madels, ite doege on inter choice. Protect PA are constructed and the second of the construction in the construction of a solver doe of RISPERDAL\* CONSTA\* between 2 to 4 weeks before the plannet discontinuation of carbamazepine therapy to adjust (or the expected increase in planna concentrations in previous) and a phyloxytephyloxine. For plannet rotated with the lowest available does (25 mg) of RISPERDAL DONTATA, It is commended to continue treatment with the Z-mg doe unless clinical judgment necessitates interruption of treatment with RISPERDAL® CONSTA®. Fluxocetine and Paroxetine: Ruxxetine (20 mg QD) and paroxetine (20 mg QD), which inhibits CVP 206, have been shown to increase the plasma concentration of independent 2.5-2.8. Iold and 3-9 Iold respectively. Fluxoxetine (dd not affect the plasma concentration of the planet and the planet and the planet account and the plasma concentration of the planet account and the planet account and the planet account and the planet account and the planet account a Insperitorial 20-20 and 0-9 interested the constrained of the interval in the second constrained in the -Pyrdonyspendione. Parasetter brancestered the constraintion of 9-hydroxysteperidone by about 10%. When either concentral fluoretime or parasetter is initiated or discontinued, the physician should re-evaluate the dosaged IRSPERDAL<sup>2</sup> CONSTA<sup>2</sup>. When initiation of fluoretimic or parasettime is considered, calential may be placed on a IRSPERDAL<sup>2</sup> CONSTA<sup>2</sup>. lower dose of RISPERDAL® CONSTA® between 2 to 4 weeks before the planned start of flucxetine or paroxetin kerver does of HDPHEHUAL\* COVE IN\* Detween 2 to 4 weeks before the parming start of inclusting of partoxeting herapy to adjust for the expected increase in plasma concentration of risperichans. For patients herald with the lowest available dose (25 mg), it is recommended to continue treatment with the 25-mg dose unless clinical upgment necessitias interruption of treatment with IRSPERDAL\* CONSTIN\*. The effects of discontinuation of judgment necessitates interruption of treatment with RISPEIDAL<sup>®</sup> CONSTA<sup>®</sup>. The effects of discontinuation of concomitant fluxement on parameters therapy on the hymmacokinetics of insperiodne and B-hydroxytisperidone have not been studied. Lithuitum: Repeated criat doese of insperiodne and B-hydroxytisperidone of peak plasma concentrations (C\_u) of thiltium (hns). Valproats: Repeated or al doese of insperiodne and QD) did not affect the produce or average plasma concentrations: and exposure (AUC) of valproate (1000 mpd/su) in three dyided doese) compared to placeful (host). Nover, there are a 20% increase in valproats plasma concentration (C\_uu) after concentrat administration of respectives. Bioptime: RISPERDAL<sup>®</sup> (20 Re and Charlow Concentration (C\_uu) after concentrat administration of respectives. Bioptime: RISPERDAL<sup>®</sup> (20 Re and Charlow Concentration (C\_uu) after concentrat administration of respectives. concensation (o<sub>mal</sub> aller concensation and the planmacokine is obtained by Days that Inhibit CVP 2DS and Other CVP Isozymes: Repetitione is metabolized to =-hydroxytispendone by CVP 2DS, an enzyme that is polymorphic in the population and that can be inhibited by a variety of psychotropic and other drugs (see CLINICAL PARAMACCLOGY in kull P). Chen isintradions that reduce the metabolism of issperione is 5-hydroxytisperione would increase the plasma concentrations of risperidone and lower the concentrations of 9-hydroxyrisperidoni which include the passing outpatrialistic or hipsthate and nome are conclusions on hipsthate and hangking of divide listicles involving a models number of poor metabolizes (n=7) patiently does not august that poor and extensive metabolizes have different takes of averse effects. No comparison of effectiveness in the two groups has been made. In vitro studies showed that drugs metabolized by other CPF leazynes, houriding 1AT, groups has been made, my new statutes serviced that drugs metabolises by view of the body meta-haz, 209, 201, and 34A, are only weak inhibitors of hisperiotice metabolism. There were no significant interactions between risperidone and erythromycin (see CLINICAL PHARIMACCLOGY in full) PI). Drugs Metabolized by CYP 206; in vitro studies indicate that risperidone is a relatively weak inhibitor of CYP 206 Therefore, RISPERDAL® CONSTR® is not expected to substantially inhibit the cleanance of drugs that are metabolized by this enzymatic pathway. In drug interaction studies, oral hisperidone did not significantly affect the pharmacokinetics of donepezil and galantamine, which are metabolized by CYP 2D6. Carcinogenesis, Mutagenesis, Impainment of Fertility: Carcinogenesis - Oral: Carcinogenesis, Mardiae swere conducted in Swise abilitor mice and Water nate. Responsible was advertised in the data datased 10.83 2.55, and 16 mg/kg for 18 months to mice and for 25 months to nats. These doese are equivalent to 2.4, 0.4, and 37.5 times the oral maximum recommended human does (MHHO) (16 mg/day) on a mg/kg basis, or 0.2, 0.75, and 3 immes the oral MHHO (mice) or 0.4, 1.5, and 6 times the oral MHHO (ras) on a mg/kg basis, or maximum tolarated data was not addressed in male mice. There was a significant increase in phateat locase in endoctine pancellak adversaria addressed in male mice. There was a significant increase in phateat locase in endoctine pancellak adversaria and 3 times the oral MHHO on a mg/m<sup>1</sup> basis. There was a significant increase in endoctine pancellak adversaria in male rats at doese 1.5 and 6 times the oral MHHD on a mg/m<sup>1</sup> basis. Mammary gland adversariances and adversaria and a mice at all doese basel dol 0.2, 0.75, and 3 times the oral MHHD on a mg/m<sup>1</sup> basis), in fermale rats at at a doese tested (0.4, 1.5, and 6 times the oral MHHD on a mg/m<sup>1</sup> basis), and in male rats at a doese 8 times the oral MHHD on a mg/m<sup>1</sup> basis. Adversaria adversaria and the site stat at doese tested (0.4, 1.5, and 6 times the oral MHHD on a mg/m<sup>1</sup> basis), and in male rats at 34-month carcinogenoidy study in which SPF Wister rats were treated every 2 weeks with Mi localisons of either sorking or 40 mg/mg/ of ingendone. These doese are thand Bimse the MHD (b) Bing (b) a mg/m<sup>1</sup> basis. A control group roceived ripections of 0.9%, NaCi, and a vehicle control group was injected with piacebo microphystere. There as a significant increase in philating dania date-mores adversaria, and adversariad adversariad state as a data significant and bimse the bases, and adversariad significant increase as significant increases in philating dania date-mores adversariad adversariad significant adversariad bing increase in philating a Mutagenesis, Impairment of Fertility: Carcinogenesis - Oral: Carcinogenicity studies were conducted in Swiss g con receiver injectors or con reaction and reference of conteness characteristic models and was a significant increase in plating gland addenomas, endocrine partoras admontes, and adrennedullary pheochromocytomas at 8 lines the IM MRHD on a mgimi basis. The incidence of mammary gland adoncearionmes was significantly increased in lemaie ratis at both closes (1 and 8 mins hin MRHD on a mgimi denocearionmes have significantly increased in lemaie ratis at both closes (1 and 8 mins hin MRHD on a mgimi denocearionmes have significantly increased in lemaie ratis at both closes (1 and 8 mins hin MRHD on a mgimi denocearionmes have significantly increased in lemaie ratis at both closes (1 and 8 mins hin MRHD on a mgimi denocearionmes have significantly increased in lemaie ratis at both closes (1 and 8 mins hin MRHD on a mgimi denocearionmes have significantly increased in lemaie ratis at both closes (1 and 8 mins hin MRHD on a mgimi denocearionmes). basis). A significant increase in renal tubular tumors (adenoma, adenocarcinomas) was observed in male rats at 8 basis). A significant increase in renal tubular tumors (adenoma, adenocarcanomas) was observed in male rata al 6 times the IM MHD or a might basis. Plasma exposure (AUC) in at twee 0.3 and 2 times (al 5 and 40 mp/s), respectively) the expected plasma exposure (AUC) at the IM MHD. The relevance for human risk of the findings of protoctim-mediated endocrine tumors in rodents is unknown (see PECAUTIONS - Hyperprotactinemia). Mutagenesis: Ne widence of mutagenic potential for oral rispondone was found. In addition, no evidence of mutagenic potential ves found in the in vitro Ames reverse mutation test for IR ISPERDAL® CONSTA®. Impairment of Fartility: Oral risperidone (0.16 to 5 mp/s) was shown to impair matine, but on fartily, and widence at 0.58 at 0.58 0.11 to 3 times the cont maximum prochameded human doe. No mating and relative studies at 0.58 0.11 to 3 times the cont 2.000 STA®. The teratogenic potential of oral risperidone was studied in three embryofetal development studies in 3 Dawley and Wistar rats (0.53-10 mg/kg or 0.4 to 6 times the oral maximum recommended human dose [M Dawley and Wistar ratis (0.63-10 mg/kg or 0.4 to 6 times the onit maximum recommended human doee [MRHD] on a mgm<sup>1</sup> basis) and in one embrychetial development study in New Zaeland rabibs (0.33-5 mg/kg or 0.4 to 8 times the oral MRHD on a mgm<sup>1</sup> basis). The incidence of malformations was not increased compared to control in Objering of ratis or mobios given 0.4 to 6 times the one MIRHD on a mgm<sup>1</sup> basis. It has not study only object-statis development studies and a maltigenerational study), there was an increase in pup delate during the first 4 days of lactistics and days of 1.5 times the oral MRHD on a mgm<sup>1</sup> basis. It is not known whether these deaths were due to a direct effort on the fatuses or pup or to effects on the dams. There increases in stillcorm ratip ups at a cose of 2.5 mg/kg or 1.5 times the oral MRHD on a mgm<sup>1</sup> basis. It is not beforing storing the direct effects on the flatuse to pups, at even below of the store theoring bin store and the dams of the store of 2.5 mg/kg or 1.5 times the oral MRHD on a mgm<sup>1</sup> basis. It is consistent and the dams dams of the dams of the store of the store of the dams of the public dams were observed. In addition, there was an increase in dams by by 1 among pups of dirug-t dams were observed. In addition, then was an increase in delatine by D at among pups of dirug-tenses directed in the increase was non-frateent. Received has a bin by the time the increase of dams of dams public dams were observed. In addition, then was an increase in delatine by D y 1 among pups of dams the maximum basis into a material in the increase more consistence. Received was advected to the increase advected one advected basis advected to advected basis dams one observation. riams, renardiass of whether or not the muss were cross fostered. Bisperidone also appeared to impair r behavior in that pup body weight gain and survival (from Days 1 to 4 of lactation) were reduced to impair hadron control but reared by drug-treated dams. These effects were all noted at the one dose of risperidone tested, Le. 5 mg/kg or 3 times the oral MPHD on a mg/m<sup>2</sup> basis. No studies were conducted with RISPERDAL® CONSTA® 5 mgkg or 3 times the ont MHHD on a mgmr bads. No studies were concuded with HIS\*EHUM4\_CONS1A\*, Placetal transfer of reperiodno courses in rat pusc. Them are no adquitta and well contined studies in pregnant women. However, there was one report of a case of agenesis of the corpus callosum in an infant exposed to inpendione in utro. The causal reflectorship to can HISPERDAL\* theory is unknown. Reversible extrapyramidal symptoms in the neonate were observed hillowing postimativity using the strate times the pregnant, RISPERDAL\* CONSTA\* enough the utro of reperiodne during the last trimester of pregnancy. RISPERDAL\* CONSTA\* should be used during pregnant on versible in an infant timester of present in the terms of the main of the strategies humans is unknown. Nursing Mothers: In animal studies, risperidone and 9-hydroxyrisperidone are excreted in oxyrisperidone are also excreted in human breast milk. Therefore, women should no milk, Risperidone and 9-hyd

breast-feed during treatment with RISPERDAL® CONSTA® and for at least 12 weeks after the last injection. Pediatric Use: RISPERDAL® CONSTA® has not been studied in children younger than 18 years old. Geriatric Pediatric Gate: His/PECUAL: CONSTAY was not been stated in Chatterin younger user to years out Generative User; In an oper-label study; J: Circlarity stateline, elderty statelines (256 years odd) with schlopphrenia or achizoaffective disorder received RISPERDAL\* CONSTA\* every 2 weeks for up to 12 months. In general, no differences in the tolerability of HISPERDAL\* CONSTA\* every 2 weeks for up to 12 months. In general, no differences in the tolerability of HISPERDAL\* CONSTA\* every 2 weeks for up to 12 months. In general, no differences in the tolerability of HISPERDAL\* CONSTA\* every 2 weeks for up to 12 months. In general, no differences in the tolerability of HISPERDAL\* CONSTA\* every 2 weeks for up to 12 months. In general, no differences in the tolerability of HISPERDAL\* CONSTA\* every 2 weeks for up to 12 months. In general, no differences in the tolerability of HISPERDAL\* CONSTA\* every 2 weeks for up to 12 months. In general, no differences in the tolerability of HISPERDAL\* CONSTA\* were observed between otherwise heatility of didity and differences in the tolerability of HISPERDAL\* CONSTA\* were observed between otherwise heatility of didity and differences in the tolerability of HISPERDAL\* CONSTA\* were observed between otherwise heatility of didity and differences in the tolerability of HISPERDAL\* CONSTA\* were observed between otherwise heatility of tolerability clusterios an all obtavity of molecular control control in which were booleved builded unarticed learning occurs and nonelidery platients. Therefore, doining incommendations for otherwise builting edders platients are the same as for nonelidery platients. Because eddery platients axibits a graduer tendency to orthostalic hypotention than nonoloding platients, eddery platients should be enstudied in nonplatimaticologic interventions that here to recours the coursers of the platients and the enstudied in nonplatimaticologic interventions that here to recours the courserso of orthostatic hypotension (e.g., sitting on the edge of the bed for several minutes before attempting to stand in the to concease reposition (e.g., stand of the degree in the desire events in makes bence stand panel or such a new merring and slowly mising from a seated position), in addition, monitoring of onhabitivitiati vital singer sebuid be considered in ekkely patients far whom orthostatic hypotension is of concerning eee PHECAUTONS, DOSAGE AND ADMINISTRATION and CLIMOACH PHARMACOLOGY in full PJ, concomitant use with Furosemide in Elderly Patients with Dementia-Related Psychosis: In placebo controlled trials in elderly patients with dementia-related psychosis, a higher incidence of mortality was observed in patients treated with funcesmide plus oral reperdence when compared to patients treated with oral insperidone action or with oral placebo plus funcesmide. No pulhological mechanism has been identified to explain this finding, and no consistent pattern for cause of dealth was observed. An increase of mortality in elderly patients with demandia-related psychosis was seen with the use of oral insperious regardless of occommand use with through the transferolute (OSTAFEDAU) CONSTA's is not approved for the treatment of patients with demandia-related psychosis. (See Boxed WARNING, WARNINGS: Increased Montality in Elderly Patients with Dementia-Related Psychosis )

In Elderly rates with Dementia-Helator psycholas, ADVERSE REACTONS: Associated with Discontinuation of Treatment: In the 12-week, plicebo-controlled trial, the incidence of activaptivenic patients who discontinued treatment due to an adverse event was lower with RESPERANC CONSTRY (11%, 22202 patients) than with paciedo (15%, 1389 patients), incidence in Controlled Trilas: Commonly Observed Adverse Events in Controlled Clinical Triats: Spontaneously reported, treatment-emergent adverse events with an incidence of 5% or greater in at least one of the IRSPERDAL\* CONSTA\* groups (25 mg or 55 mg) and at least twice that of backeto were: somotione, acktainist, parkinsonism, gyspepsa. Constipation, dry mouth, latigue, weight increase. Dose Dependency of Adverse Events: Extrapyramidal Symptoms: The overall incidence of EFS-related adverse events (latelities, dystanti, particulturionsian, and transor) in patients treated with 25 mg RISPERDAL "CONTAR" was comparable to that of patients treated with III pacebox. The incidence of EPS-ratiod advectment, outvoirs // was comparation to main of patients treated with placebox the incidence of EPS-ratiod advectme events was higher in patients treated with 50 mg RSPERDAL® (CONSTA®) Vital Sign Changes: RISPERDAL® is associated with orthostatic hypotension and tachypardia (see PERCAUTIONS). In the placebox corecived mit and environment hypotension and tacky patients treated with 25 mg or 50 mg RISPERDAL® CONSTA® (see PRECAUTIONS). Weight Changes: In the 12-week, placebox vertication and (see the second se In a controlled his], 9% of patients threated with RISEEDDAL" CONSTA\*, compared with 6% of patients treated with placebo, experienced a weight pain of >7% of body weight at endbornt. Laboratory Changes: The percentage of patients treated with RISPERDAL\* CONSTA\* who experienced potentially important changes in routine serum chemistry, hematology, or unitallysis parameters was similar to or less than that of placebo patients. Additionally, no Lemmary, humanoligh, examples planateries was amen chemistry, hematology, or unalysis parameters. ECG planets discontinued realment lie to changes in serum chemistry, hematology, or unalysis parameters. ECG Changes: The electrocardiograms of 202 cahicophrenic patients treated with 25 mg or 50 mg RISPERIA.<sup>11</sup> CONSTA\* and 8 schotophrenic patients treated with placebo in a 12 veetic, double Mind, placebo concolled triat uovae evaluated. Compand with placebo, there were no statistically significant differences in OTC intervals using Fridericis and Inear correction factors jouring treatment with RISPERDAL" CONSTA<sup>®</sup> Pain Assessment Local Injection Site Reactions: The mean intervals joi injection pain reported by patients using a visual analog Local injection site Heactions: the mean metricity or injection paint reported by painter surgery a visual alrange aciel (0 en op ani to 100 - unbrandruby paint)) doctrassed n all tradment groups from the first to the list injection (placebo: 16.7 to 12.6; 25 mg; 12.2 to 9.0; 50 mg; 18.2 to 11.8). After the sixth injection (Week 10), investigator ratings indicated that 1% of patient streads with 25 mg of 50 mg; 18.2 FBNLA\* CONSTR\* streams swelling, or induration at the injection site. Other Events Observed During the Premarketing Evaluation of 14.99 patients in multiple-close studies. The conditions and duration of exposure to RISPERDAL\* CONSTR\* strand-greatly, and included (in overlapping categories) open-label and doctorelled studies, inpatient, and outpatient studies, fixed-close and timbion studies, and short-term and long-term exposure studies, inpatient and outpatient studies, twack-dose and timition studies, and snort-erm and long-term exposure studies. The following reactions were reported: (Nature Treguert adverse events are those occurring in events are those occurring in fewer than 1/1000 patients, infrequent adverse events are those occurring in fewer than 1/1000 patients. It is important to emphasize that, although the reported events accured during these reported events are those occurring in fewer shorts. The provide that the Disorders: The reported averts occured reading the reported events are those occurring in fewer shorts. It is important to emphasize that, although the reported events occured during these resolutions, parity, infraquent anorexis, impaired concentration, importance, employee monotores, paramond readino, detains, and the reported averts are although increased lineade, increased averts are increased binding. Increased there exceeds an exceeds amends and external development and reading development of exceeding adverts and exceeds and exceed and exceeds and exc poetite, amnesia, confusion, euchoria, depersonalization, paroniria, delirium, psychotic depression. Central and sponsa, ministra, consecti, concerte opticariastanto, i portuna descuti, portuna descuti descuto a surgo, los crantos, turdive dyskinesia", involuntary musicio contractions, paraesthesia, abnormal pat, bratykinesia, convelsios, hypothesia, ataxis, local incontinence oculogno cristis, titany, apraxis, demertia, migrante. Rare-convelsios, hypothesia, ataxis, local incontinence oculogno cristis, titany, apraxis, demertia, migrante. Rarecontrologies, typipoles, addet, executives, the histories of the second se second sec back pain, chest pain, asthenia, infraquent; malaise, choking, Gastrointestinal Disorders; Frequent; nausee oloci pari, shise pari, avening, amepani, takano, cocang, dantominavana Usocetar, recipiri, tabase dyspiega, rectal hemorinag, as infraeduced participation and a statistical participation and a statistic participatio sumane neopinaty of parameterization of the second repetitionesenteenine, obesity, elinpetitione, outbreas mientus, inputitienenia, moscore-owerena system Disorders: Frequent anthreigis, seletata pain infraquent tortocis, anthreas, musici washness, tundinitis, arthres, anthropathy, Hoart Rate and Rhythm Disorders: Frequent, tachycardia, Anineysent: bradycardia, AV block, paipitalism, bundle branch block. *Pare: Traves tiversion*. Cardiovasculat Disorders: Frequent book, plagnahith, under darak brook name. Heisert erfession Control es cuale unsorders a regionale hypotension, infeguent, postural hypotension. Utiliary System Disorders: Frequent uning incontinence. Infeguent: hematuria, miclarition frequency, renal pain, utiliary retention. Vision Disorders: Infeguent conjunctività, es pain, abnormal accommodation. Reproductive Disorders, Familie, Frequent, amenormea. infrequent: nonpuerporal lactation, vaginitis, dysmenorrhea, breast pain, leukorrhea. Resistance Mechanism amergiani, nerybompiani subalach, regimes operine formes, breaz pain, exocurries, researance recommen-liberders: infrequent abscass. Liver and Billiary System Discotes: Prequent Introsecie hepaticie enzymas. Infrequent: hepatomegaly, hereased SGPT. Rare tömbnemä, increased GGT, hepatitis, hepatocelikar damago, jaundics, tally lover, increased SGOT. Reproductive Discoters, Male: infrequent ejacultation failure. Application January and very increased ottor inspondence oriotoctes, and a management glocobant manage Application Site Disorders: Infraçuent: inscription site pain. Infraquent: injection site reaction, Hearing and Vestibular Disorders: Infraçuent earche, dealness, hearing decreased. Red Blood Cell Disorders: Fraquent: injection White Cell and Resistance Disorders: Infraquent: lymphadenopathy, leucoperia, cavical lymphadenopathy Rare granulocopenia, leukocytosis, lymphopenia. Endocrine Disorders: Infraquent: hyperprolactinemis, hatt: galance/opena, ieuce/poss, mantoena, concorne obsorders, anegers, mysepocamisto, gracomasis, hopothyokism, Blaete, Bloeding and Clotting Diorders: infrequent: roppus, spokasi, Rave pulmorary embolism, hematoma, thrombocy/spenia. Myo, Endo, and Pericardial and Valve Disorders: Nifrequent: myocratila isclemas, angina pectina, myocardial inflatcion. Vascular (Extracardiac) Disorders: Infrequent: philebitis, Rare: intermittent claudication, flushing, thrombophilebitis, Postintroduction Reports: Introductor, protects, knare, memteetri caladicaudo, lusering, providoplientins, vosand doucidor reports. Advese events portes since maries limotución windi were improvide fue no increasand, cuasally instance to oral RISPERDAL<sup>®</sup> therapy include the following, anaphysicito reaction, angloderima, apone, antal titribition, baning plutatary adnomas, cerebrovascular adocuter, including cerebrovascular adocuter, diabetes mellitus oringin putunty administra, forenorivascular deprover, including centrolinascular accurates, outpeters inextuos agrinvated, including diubello kacadolosis, hyperpetjennia, intestinal obstruction, plaundoa, marila panreatilia, Parkinson's disease aggravatad, pulmorary embolism. Them have been raine reports of sudden dealth and/or cardiopulmonuty artest in patients receiving and RISPERDAL? As causel relationship with oral RISPERDAL? has not been established. It is important to note that sudden and unexpected death may occur in psychotic patients whether they remain untriviated or whether they are treated with other antipsycholic drugs. DRIG ABUSE AND DEPENDENCE

Controlled Substance Class: RISPERDAL\* CONSTA\* (risperidone) is not a controlled substance For more information on symptoms and treatment of overdosage, see full Prescribing Information 75195068 - US Patent 4,804,663 Revised November 2005 Quansen 20 Glanssen 2003



010351585

# 

13% of patients had diabetes in the landmark CATIE schizophrenia study at baseline—4 times more common than in the general population.<sup>1</sup>

Be aware. Screen and monitor your patients. Make a difference.



Reference: 1. Goff DC, Sullivan LM, McEvoy JP, et al. A comparison of ten-year cardiac risk estimates in schizophrenia patients from the CATIE study and matched controls. *Schizophr Res.* 2005;80:45-53.

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# A POWERFUL SSRI that's well tolerated



# For DEPRESSION and ANXIETY

## UP TO 90% of depressed patients present with symptoms of anxiety<sup>2</sup>

PROVEN EFFICACY for Major Depressive Disorder and Generalized Anxiety Disorder<sup>3</sup>



POWER TO ENJOY LIFE

IMPORTANT SAFETY INFORMATION – Depression is a serious condition that can lead to suicidal thoughts and behavior. Antidepressants increased the risk of suicidal thinking and behavior (2% to 4%) in short-term studies of 9 antidepressant drugs in children and adolescents with major depressive disorder (MDD) and other psychiatric disorders. Patients started on therapy should be observed closely for clinical worsening, suicidality, or unusual changes in behavior, especially at the beginning of therapy or at the time of dose changes. This risk may persist until significant remission occurs. Families and caregivers should be advised of the need for close observation and communication with the prescriber. Lexapro is not approved for use in pediatric patients.

Lexapro is contraindicated in patients taking monoamine oxidase inhibitors (MAOIs), pimozide [see DRUG INTERACTIONS – Pimozide and Celexa], or in patients with hypersensitivity to escitalopram oxalate. As with other SSRIs, caution is indicated in the coadministration of tricyclic antidepressants [TCAs] with Lexapro. As with other psychotropic drugs that interfere with serotonin reuptake, patients should be cautioned regarding the risk of bleeding associated with the concomitant use of Lexapro with NSAIDs, aspirin, or other drugs that affect coegulation. The most common adverse events with Lexapro versus placebo [approximately 5% or greater and approximately 2x placebo] were nausea, insomnia, ejaculation disorder, somnolence, increased sweating, fatigue, decreased libido, and anorgasmia.

References: 1. IMS National Prescription Audit. May 2005. 2, Sadock BJ, Sadock VA. Kaplan and Sadock's Synopsis of Psychiatry: Behawaral Sciences/Clinical Psychiatry: 9th ed. Philadelphia, Pa: Lippincott Williams & Wilkins;2003:552. 3, LEXAPRO [package insert]. St Louis, Mo: Forest Pharmaceuticals, Inc.; 2005.

Please see brief summary of prescribing information for LEXAPRO on following page.

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<text>



## ARICEPT helps patients be more like themselves longer™

Helped keep patients in the community for more than 5 years<sup>1\*†</sup>

■ Is proven effective in cognition, function, and behavior<sup>2-5</sup>

Caregivers spend less time assisting patients with everyday activities<sup>6</sup>

Established safety and tolerability

\* Results from an observational follow-up of nursing home placement in mild to moderate AD patients (MMSE 10-26) previously enrolled in 1 of 3 randomized, double-blind, placebo-controlled trials with open-label extension phases.

<sup>†</sup> As with all studies of this type, results may be attributable to various factors. ARICEPT treatment was one such factor.

ARICEPT is indicated for mild to moderate dementia of the Alzheimer's type.

The most common adverse events in clinical trials with ARICEPT were nausea, diarrhea, insomnia, vomiting, muscle cramps, fatigue, and anorexia. In clinical trials, syncopal episodes have been reported (2% for ARICEPT versus 1% for placebo). Cholinesterase inhibitors have the potential to increase gastric acid secretion. Patients at risk for developing ulcers, including those receiving concurrent NSAIDs, should be monitored closely for gastrointestinal bleeding.

Clinical studies of ARICEPT have shown no increase, relative to placebo, in the incidence of either peptic ulcer disease or gastrointestinal bleeding.

Please see brief summary of prescribing information on adjacent page.





References: 1. Geldmacher DS, Provenzano G, McRae T, Mastey V, Ieni JR. Donepezil is associated with delayed nursing home placement in patients with Alzheimer's disease. J Am Geriatr Soc. 2003;51: 937-944. 2. Winblad B, Engedal K, Soininen H, et al, and the Donepezil Nordic Study Group. A 1-year, randomized, placebo-controlled study of donepezil in patients with mild to moderate AD. Neurology. 2001;57: 489-495. 3. Mohs RC, Doody RS, Moris JC, et al, for the "312" Study Group. A 1-year, placebo-controlled preservation of function survival study of donepezil in AD patients. Neurology. 2001;57: 489-495. 3. Mohs RC, Doody RS, Moris JC, et al, for the "312" Study Group. A 1-year, placebo-controlled preservation of function survival study of donepezil in AD patients. Neurology. 2001;57: 489-495. 3. Mohs RC, Doody RS, Moris RC, Friedhoff IT, and the Donepezil Study Group. A 1-year, Blacebo-controlled study. Arch Intern Med. 1998;158:1021-1031. S. Rogers SL, Farlow MR, Doody RS, Mois R, Friedhoff IT, and the Donepezil Study Group. A 1-year, and The Donepezil Study Group. A 24-week, double-blind, placebo-controlled study. Arch Intern Med. 1998;158:1021-1031. S. Rogers SL, Farlow MR, Doody RS, Mois R, Friedhoff UT, and the Donepezil Study Group. A 24-week, double-blind, placebo-controlled study. Arch Intern Med. 1998;158:1021-1031. S. Rogers SL, Farlow MR, Doody RS, Mois R, Friedhoff UT, and the Donepezil NSD Study Investigators Group. Efficacy of donepezil on maintenance of activities of daily living in patients with moderate to severe Alzheimer's disease and the effect on caregiver burden. J Am Geriatr Soc. 2003;51:737-744. AR273436A

#### ARICEPT® (Donepezil Hydrochloride Tablets)

ARICET® ODT (Donepezil Hydrochloride) Orally Disintegrating Tablets Brief Surmany—see package insert for full prescribing information. INDICATIONS AND USAGE ARICET® is indicated for the treatment of mild to moderate dementia of the Alzheimer's type. CONTRAINDICATIONS AND CETOP® is contraindicated in patients with known hypersensitivity to donepezil hydrochloride or to piperdine derivatives. WARNINGS Anesthesia: ARICET® is a cholinesterase inhibitor, is likely to evaggerate succinylcholine-type muscle relaxation during anesthesia. Cardiovascular Conditions: Because of their pharmacological action, cholinesterase inhibitors may have vagotonic effects on the sinoatrial and atrioventricular nodes. This effect may manifest as bradycardia or heart block in patients both with and without known underlying cardiac conduction abnormalities. Syncopal episodes have been reported in association with the use of ARICEPT®. **Gastrointestinal Conditions:** Through their primary action, cholinesterase inhibitors may be expected to increase gastric acid secretion due to increased cholinergic activity. Therefore, patients should be monitored closely for symptoms of active or occult gastrointestinal bleeding, especially those at increased risk for developing ulcers, e.g., those with a history of ulcer disease or those receiving concurrent nonsteroidal anti-inflammatory drugs (NSAIDS). Clinical studies of ARICEPT® have shown no increase, relative to placebo, in the incidence of either peptic ulcer disease or gastrointestinal bleeding. ARICEPT®, as a predictable consequence of its pharmacological properties, has been shown to produce diarrhea, nausea and vomiting. These effects, when they occur, appear more frequently with the 10 mg/day dose than with the 5 mg/day dose. In most cases, these effects have been mild and transient, sometimes lasting one to three weeks, and have resolved during continued use of ARICEPT®. *Genitourinary:* Although not observed in clinical trials of ARICEPT®, cholinomimetics may cause bladder outflow obstruction. *Neurological Conditions:* Seizures: nd coserve in clinical trais of ARICEP 1%, cholinomimetics may cause biados cultilow obstruction. Neurological cultomanions: Searcies, Cholinomimetics are believed to have some potential to cause generalized convulsions. However, escure activity also may be a manifestation of Alzheimer's Disease. Pulmonary Conditions: Because of their cholinomimetic actions, cholinesterase inhibitors should be prescribed with care to patients with a history of asthma or obstructive pulmonary disease. PRECAUTIONS Drug-Drug Interactions (see Clinical Pharmacology. Clinical Pharmacokinetics: Drug-drug Interactions) Effect of ARICEPT® on the Metabolism of Other Drugs: No in vivo clinical trais have investigated the effect of ARICEPT® on the clearance of drugs metabolized by CYP 3A4 (e.g. cisapride, leffenadrine) or by CYP 2D6 (e.g. imipramine). However, in vitro studies show a low rate of binding to these enzymes (mean charde ED 420). With the to interpret the theremende interpret conditions of denominary (Cd 40). Indicational the Interpret conditions of denominary conditionary and the there enzymes (mean K about 50-130 µM), that, given the therapeutic plasma concentrations of donepezil (164 nM), indicates little likelihood of interference. Whether ARICEPT® has any potential for enzyme induction is not known. Formal pharmacokinetic studies evaluated the potential of ARICEPT® for interaction with theophylline, cimetidine, warfarin, digoxin and ketoconazole. No effects of ARICEPT® on the pharmacokinetics of these drugs were observed. Effect of Other Drugs on the Metabolism of ARICEPT®: Ketoconazole and quinidine, inhibitors of CYP450 3A4 and 2D6, respectively, inhibit donenezil metabolism in vitro. Whether there is a clinical effect of ounidine is not known. In a 7-day crossove study in 18 healthy volunteers, ketoconazole (200 mg q.d.) increased mean donepezil (5 mg q.d.) concentrations (ALC<sub>0.24</sub> and C<sub>max</sub>) by 36%. The clinical relevance of this increase in concentration is unknown. Inducers of CYP 2D6 and CYP 3A4 (e.g., phenytoin carbamazepine, devamethasone, rifampin, and phenobarbital) could increase the rate of elimination of ARICEPT®. Formal pharmacokinetic studies demonstrated that the metabolism of ARICEPT® is not significantly affected by concurrent administration of digoxin or cimetidine. adults ethnibilitation and the interaction of which is the advecting and any advecting of advecting a when cholinesterase inhibitors are given concurrently with succinvlcholine, similar neuromuscular blocking agents or cholinergic agonists when cholinestrate infinitions are given concurrently with succhrycholine, similar neurofituscular blocking ageins or follometry cagonises, such as bethanchol. Carcinogenesis, Mutagenesis, Impairment of Fertility No evidence of a carcinogenic potential was obtained in an 88-week carcinogenicity study of donepezil hydrochloride conducted in CD-1 mice at doses up to 180 mg/kg/day (approximately 90 times the maximum recommended human dose on a mg/m<sup>2</sup> basis), or in a 104-week carcinogenicity study in Sprague-Dawley rats at doses up to 30 mg/kg/day (approximately 30 times the maximum recommended human dose on a mg/m<sup>2</sup> basis). Donepezil was not mutagenic in the Ames reverse mutation assay in bacteria, or in a mouse lymphoma forward mutation assay in *vitio*. In the chromosome aberration test in cultures of Chinese hamster lung (CHL) cells, some classogenic effects were observed. Donepezil In the total discrete advances in counties of crimes and instant and (crint) carls, some classing in elects were closered. Donpeter was not classoparine in the *in vivo* mouse micronoucleus test and was not genotoxic in an *in vivo* unscheduled DNA synthesis assay in rats. Donepezi had no effect on fertility in rats at doses up to 10 mg/kg/day (approximately 8 times the maximum recommended human dose on a mg/m² basis). **Pregnancy Cregory C:** feradology studies conducted in pregnant rats at doses up to 16 mg/kg/day (approximately 16 times the maximum recommended human dose on a mg/m² basis) did not disclose any evidence for a teratogenic potential (approximately rountee) is an industriant commendation takes on a might back but not back of an operation of a second and a second encode of a sec risk to the fetus. Nursing Mothers It is not known whether donepezil is excreted in human breast milk. ARICEPT® has no indication for use in nursing mothers. Pediatric Use There are no adequate and well-controlled trials to document the safety and efficacy of ARICEPT®. in any illness occurring in children. Geriatric Use Alzheimer's disease is a disorder occurring primarily in individuals over 55 years of age. The mean age of the patients enrolled in the clinical studies with ARICEPT® was 73 years; 80% of these patients were between 65 age. The mean age of the patients enrolled in the chinical studies with ANCEP 1° war/s / syears, so/% of these patients were to between to and 49 years of and 49% of the patients were a to above the age of 75. The efficacy and safety data presented in the chinical triads section were obtained from these patients. There were no clinically significant differences in most adverse events reported by patient groups ≥65 years of and <65 years of and ADRCPT® use to adverse events for the ARICEPT® Significant groups verse comparable to those of placebo-treatment groups at approximately 5%. The rate of discontinuation of patients who received 7-day escalations from 5 mg/day to 10 mg/day, was higher at 13%. The most common adverse events leading to discontinuation, defined as those occurring in at least 2% of patients and at twice the incidence seen in placebo patients, are shown in Table 1.

#### Table 1. Most Frequent Adverse Events Leading to Withdrawal

from Controlled Clinical Trials by Dose Group				
Dose Group	Placebo	5 mg/day ARICEPT®	10 mg/day ARICEPT®	
Patients Randomized Event/% Discontinuing	355	350	315	
Nausea	1%	1%	3%	
Diarrhea	0%	<1%	3%	
Vomiting	<1%	<1%	2%	

Most Frequent Adverse Clinical Events Seen in Association with the Use of ABICEPT® The most common adverse even Most Frequent auverse clinical events seen in resource of the second of How the second s open-label study was conducted with 269 patients who received placebo in the 15 and 30-week studies. These patients were titrated to a dose of 10 mg/day over a 6-week period. The rates of common adverse events were lower than those seen in patients titrated to 10 mg/day over one week in the controlled clinical trials and were comparable to those seen in patients on 5 mg/day. See Table 2 for a comparison of the most common adverse events following one and six week titration regimens.

Table 2.	. Comparison of Rates of Adverse Events in Patients
	Titrated to 10 mg/day Over 1 and 6 Weeks

Thratea to To Hig/day over T and o weeks				
Adverse Event	No titration Placebo 5 mg/day		One week titration 10 mg/day	Six week titration 10 mg/day
	(n=315)	(n=311)	(n=315)	(n=269)
Nausea	6%	5%	19%	6%
Diarrhea	5%	8%	15%	9%
Insomnia	6%	6%	14%	6%
Fatigue	3%	4%	8%	3%
Vomiting	3%	3%	8%	5%
Muscle cramps	2%	6%	8%	3%
Anorovia	20/	20/	70/.	20/

Adverse Events Reported in Controlled Trials The events cited reflect experience gained under closely monitored conditions of clinical trials in a highly selected patient population. In actual clinical practice or in other clinical trials, these frequency estimates may not apply, as the conditions of use, reporting behavior, and the kinds of patients treated may differ. Table 3 lists treatment emergent signs and symptoms that were reported in at least 2% of patients in placebo-controlled trials who received ARICEPT® and for which the rate of occurrence was greater for ARICEPT® assigned than placebo assigned patients. In general, adverse events occurred more frequently in female patients and with advancing age.

Body System/Adverse Event	Placebo (n=355)	ARICEPT® (n=747)
Percent of Patients with any Adverse Event	72	74
Body as a Whole		
Headache	9	10
Pain, various locations	8	9
Accident	6	7
Fatigue	3	5
Cardiovascular System		
Syncope	1	2
Digestive System		
Nausea	6	11
Diarrhea	5	10
Vomiting	3	5
Anorexia	2	4
Hemic and Lymphatic System		
Ecchymosis	3	4
Metabolic and Nutritional Systems		

3

Weight Decrease Musculoskeletal System

Muscle Cramps

Table 3. Adverse Events Reported in Controlled Clinical Trials in at Least 2% of Patients

2 6 Arthritis Nervous System 9 Insomnia Dizziness 6 8 Depression Abnormal Dreams 0 3 Somnolence Urogenital System <1 Frequent Urination Other Adverse Events Observed During Clinical Trials ARICEPT® has been administered to over 1700 individuals during clinical trials worldwide. Approximately 1200 of these patients have been treated for at least 3 months and more than 1000 patients have been treated for at least 6 months. Controlled and uncontrolled trials in the United States included approximately 900 patients. In regards to the highest dose of 10 mg/day, this population includes 650 patients treated for 3 months, 475 patients treated for 6 months and 116 patients treated for over 1 year. The range of patient exposure is from 1 to 1214 days. Treatment emergent signs and symptoms that occurred during tradiction of the Type. The range or patient explosite is norm to the tradys, mean the religite an symptomic state accurate during of the tradition of the trad already listed in Tables 2 or 3, COSTART terms too general to be informative, or events less likely to be drug caused. Events are classified by body system and listed using the following definitions: frequent adverse events—those occurring in at least 1/100 patients; infrequent Adverse events — those occurring in 1/100 to 1/1000 patients. These adverse events are not necessarily related to ARICEPT® treatment and in most cases were observed at a similar frequency in placebo-treated patients in the controlled studies. No important additional adverse and influences were observed at a similar heupency in placedor-treated planets in the common studies. Nor informat addunces and events were seen in studies conducted outside the United States **Body as a** Whole: *Frequent* influenza, chest pain, toothache; *Infrequent* fever, edema face, periorbital edema, hemia hiatal, abscess, cellulitis, chills, generalized coldness, head fullness, listlessness. **Cardiovascular System:** *Frequent*: hypertension, vascidilation, atrial fibrilitation, hot flashes, hypotension, *Infraquent* angina pedoris, supraventricular tachycardia, deep vein thrombosis. **Digestive System:** *Frequent* fecal incontinence, gastrointestinal bleeding, bloating, epigastric pain; Intrequent: eructation, gingivitis, increased appetite, flatulence, periodontal abscess, cholelithiasis, diverticulitis, drooling, dry mouth, fever sore, gastritis, irritable colon, tongue edema, epigastric distress, gastroenteritis, increased transaminases, hemorrhoids, Ileus, increased thirst, jaundice, melena, polydipsia, duodenal ulcer, stornach ulcer. Endocrine System: Intrequent: diabetes mellitus, goiter. Hemic and Lymphatic System: Intrequent: anemia, thrombocythemia, thrombocytopenia, eosinophilia, erythrocytopenia. Metabolic and Nutritional Disorders: Frequent: dehydration; Infrequent: gout, hypokalemia, increased creatine kinase, hyperglycemia, weight increase, increased lactate dehydrogenase. Musculoskeletal System: Frequent: bone fracture; Infrequent: muscle weakness, muscle fasciculation. Nervous System: Frequent: delusions, tremor, irritability, paresthesia, aggression, vertigo, ataxia, increased libido, restlessness, abnormal crying, nervousness, aphasia, Infrequent: cerebrovascular accident, intracranial hemorrhage, transient ischemic attack, emotional lability, neuraloja, coldness (localized), muscle spasm, dysphoria, gait abnormality, hypertonia, hypokinesia, neurodermatitis, numbness (localized), paranoia, dysarthria, dysphasia, hostility, decreased libido, melancholia, emotional withdrawal, nystagmus, pacing. Respiratory System: Frequent: dyspnea, sore throat, bronchitis; Infrequent: epistaxis, post nasal drip, pneumonia, hyperventilation, pulmonary congestion, wheezing, hypoxia, pharyngitis, pleurisy, pulmonary collapse, sleep apnea, snoring. Skin and Appendages: Frequent: pruritus, diaphoresis, urticaria; Infrequent: dermalitis, erythema, skin discoloration, hyperkeratosis, alopecia, fungal dermalitis, Frequent: puritus, diaphoresis, urticaria, Infrequent: dermatitis, erythema, skin discoloration, hyperkeratosis, alogecia, hungal dermatitis, herpes zoster, hirsutism, skin striae, night sweats, skin ulcer. **Special Senses:** Frequent: catarad, eye irritation, vision blurred, *Infrequent:* dry yes; glaucome, earache, tinnitus, blepharitis, decreased hearing, retiral hemorrhage, otilis externa, otilis media, bad teste, conjunctival hemorrhage, ear buzzing, motion sickness, spots before eyes. **Urogenital System:** Frequent: urinary incontinence, nocturia; *Infrequent:* dysuria, hematuria, urirary urgenzy, metrorrhagia, cystilis, enuresis, prostale trypertrophy, pelonephritis, inability to empty bladder, breast temporally associated with ARICEPT® that have been received since market introduction that are not listed above, and that there is irradequate data to determine the causal relationship with the drug include the following: abdominal pain, agitation, cholecystilis, contrace, hemory, benorgenia, benorgenia, benorgitic programe benorgitic programe temporally exercised above, and that there is irradequate convulsions, hallucinations, heart block (all types), hemolytic anemia, hepatitis, hyponatermia, neuroleptic malignant syndrome, pancreatitis, and rash. **OVERDOSAGE Because strategies for the management of overdose are continually evolving, it is** advisable to contact a Poison Control Center to determine the latest recommendations for the management of an overdose of any drug. As in any case of overdose, general supportive measures should be utilized. Overdosage with cholinesterase inhibitors can result in cholinergic crisis characterized by severe nausea, vomiting, salivation, sweating, bradycardia, hypotension, respiratory depression, collapse and convulsions. Increasing muscle weakness is a possibility and may result in death if respiratory muscles are involved. Tertiary anticholinergics such as atropine may be used as an antidote for ARICEPT® overdosage. Intravenous atropine sulfate titrated to effect is an economended: an initial dose of 10 to 2.0 mg V with subsequent doses based upon clinical response. Appical responses in blood pressure and heart rate have been reported with other cholinomimetics when co-administered with quaternary anticholinergics such as glycopyrrolate. per day. The higher dose of 10 mg did not provide a statistically significantly greater clinical benefit than 5 mg. There is a suggestion, however, based upon order of group mean scores and dose trend analyses of data from these clinical trials, that a daily dose of 10 mg of ARICEPT®

might provide additional benefit for some patients. Accordingly, whether or not to employ a dose of 10 mg is a matter of prescriber and patient preference. Evidence from the controlled trials indicates that the 10 mg dose, with a one week titration, is likely to be associated with a higher incidence of cholinergic adverse events than the 5 mg dose. In open label trials using a 6 week titration, the frequency of With a might inductive to contract the second secon the tongue and follow with water



Pfizer U.S. Pharmaceutical

200337 Revised February 2005

## Control acute agitation with



## In schizophrenia... Rapid improvement with low EPS<sup>1,2</sup>

- Significant control achieved between 15 and 30 minutes\* after injection<sup>1,3</sup>
- Proven advantages over haloperidol IM
  - twice the improvement as measured on the BPRS<sup>4†</sup>
  - significantly lower incidence of movement disorders<sup>2‡</sup>
- Smooth transition, with continued improvement, from IM to oral therapy<sup>2,4</sup>
- May be used concomitantly with benzodiazepines

\*In 2 pivotal studies vs control, significance was achieved at 15 minutes (with 10 mg dose) and 30 minutes (with 20 mg dose), respectively.
\*In a 7-day, open-label IM-to-oral transition study.
\*In a 6-week, open-label IM-to-oral transition study.



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<sub>c</sub> 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.

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.

#### BRIEF SUMMARY. See package insert for full prescribing information.

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 or 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 polar disorder with or without psychotic features. GEODON® (ziprasidone mesylate) for Injection is indicated for acute agitation in hizophrenic patients. CONTRAINDICATIONS — 07 Prolongation: Because of GEODON's dose-related prolongation of the QT interval and the known association

CON HAMUUCATIONS — UT Prolongation by some other drugs, GEODON is conservering prolongation of the UT interval and the known association of fatal arrhythmias with DT prolongation by some other drugs, GEODON is contradicated in patients with a known history of DT prolongation (including congenital long OT syndrome), with recent acute myocardial infarction, or with uncompensated heart failure (see WARNINGS). Pharmacokinetic/pharmacodynamic studies between GEODON and other drugs that prolong the OT interval and there not been performed. An additive effect of GEODON and other drugs that prolong the OT interval cannot be excluded. Therefore, GEODON solution be given with doteitilde, sotalo, quindline, other Class Ia and III ant-arrhythmics, mesoridazine, thioridazine, chlorpromazine, droperidol, pimozide, spartlovacin, gatiflovacin, modiflovacin, halofartine, mefiguine, pentamidine, as senic trioide, levormethadyl azetate, doasetron COCODON and the distribute diffect (COCOD Constraint) and the drug strate protection of the COT estable and the distribute of the COT estable and the construction of the COT estable and the distribute of the construction of the COT estable and the construction of the COT estable and the construction of the construction of the construction of the construction of the COT estable and the construction of the construct pimozide, sparlloxacin, gatilloxacin, haiolartine, melloquine, pentamidine, arsenic trioxide, levomethadyd acetale, dolasetron mesylate, probucol, or tacoriumus, GECDDN is as contraindicated with drugs that have demonstrated OT prolongation as one of their pharmacodynamic effects and have this effect described in the full prescribing information as a contraindicated OT prolongation as one of their pharmacodynamic effects and have this effect described in the full prescribing information as a contraindicated OT prolongation as one of their pharmacodynamic effects and have this effect described in the full prescribing information as a contraindication or a boxed or bolded warning (see WARNINGS). GEDODN is contraindicated in individuals with a known hypersensitivity to the product. WARNINGS—Increased Mortality in Elderly Patients with Dementia-Related Psychosis: Elderly patients with dementia-related psychosis treated with altypical antipsycholic drugs are at an increased risk of death compared to placebo. GEDODN (ziprasidone) is not approved for the treatment of patients with dementia-related psychosis (see Boxed Warning). *QT Prolongation and Risk of Sudden Death*: GEDODN is uses should be avoided in combination with other drugs that are known to prolong the QT<sub>6</sub> interval. Additionally, clinicians should be alert to the identification of other drugs that have been consistently observed to prolong the QT<sub>6</sub> interval. Such drugs should not be prescribed with Schizophrenia was conducted in patient volunteers. The mean increase in QT<sub>6</sub> from baseline for GEDODN anged from approximately 9 to 14 mesc encater than for four of the commarizato drugs in Streamine. and halonericito). but was Solicopinetical was conducted in patient volumeers, the mean increase in Ur provint assemine for Gerubov raiged into indeproximately 9 to 14 mess ergenere than for four of the comparatio drugs (risperidone, olarazpine, quicitapine, and haloperido), but was approximately 14 msec less than the prolongation observed for thioridazine. In this study, the effect of GEODON on T<sub>2</sub> length was not augmented by the presence of a metabolic inhibitor (ketoconazole 200 mg bid). In placebo-controlled trials, GEODON increased the off<sub>2</sub> interval compared to placebo by approximately 10 msec at the highest recommended daily dose of 160 mg. In clinical trials the electrocardiograms of 2/2988 (0.0%), GEODON patients and 1/440 (0.23%) placebo patients revealed 0T<sub>1</sub> interval sexceding the potentially clinically relevant threshold of 500 msec. In the GEODON patients, neither case suggested a role of GEODON. Some drugs that prolong the QT/QT<sub>2</sub> interval have been associated with the occurrence of lorsade de pointes and with sudden unexplained death. The relationship of QT prolongation to torsade de pointes is clearest for larger increases (20 msec and greater) but it is possible that smaller QT/QT<sub>c</sub> prolongations may also increase risk, or increase it in susceptible individuals, such as those with hypokalemia, hypomagnesemia, or genetic predisposition. Although torsade de pointes has not been observed in association with the use of GEODON hyponagnesemia, or genetic predisposition. Although torsade de pointes has not been observed in association with the use of CECDODN a trecommended does in premarketing studies, experience is too limited to rule out an increased risk. A study evaluating the QT/QT, prolonging effect of intramuscular GEDODN, with intramuscular haloperidol as a control, was conducted in patient volumenters. In the trial, ECGs were obtained at the time of maximum plasma concentration following two injections of GEDODN (2000 mters. In the haloperiol (7.5 mg then 10 mg) given four hours apart. Note that a 30 mg does of intramuscular GEDODN is 50% higher than the recommended therapeutic does. The mean change in QT, from baseline was calculated for each drug using a sample-based correction that removes the effect of heart rate on the QT interval. The mean increase in QT, from baseline for GEDODN was 4.6 msec following the first injection and 12.8 msec following the second injection. The mean increase in QT, from baseline to thal aloperiol of was 6.0 msec to following the first injection and 14.7 msec following the second injection. The mean increase in QT, from baseline to thaloperiol OL was 6.0 msec following the first injection and 14.7 msec following the second injection. The mean increase in QT, from baseline to thaloperiol OL was 6.0 msec following the first injection and 14.7 msec following the second injection. The mean increase in QT, from baseline to thaloperiol OL was 6.0 msec following the transition developed box does neuroplained deaths have been reported in patients taking GEDODN at recommended doess. The premarketing experience for GEDODN did not reveal an excess of mortality for GEDODN compared to other antipsychotic drugs or placeho, but the extent of exposure was limited, especially for the drugs used as active controls and placeho. Nevertheless, GEDDON's larger prolongation of QT, length compared to several other antipsychotic drugs raises the possibility needs to be considered in deciding anong alterna the risk of sudden death may be greater for GEODON than for other available drugs for treating schizophrenia. This possibility needs to be considered in deciding among alternative drug products. Certain circumstances may increase the risk of the occurrence of torsade de pointes and/or sudden death in association with the use of drugs that prolong the OT, interval, including (1) bradycardia; (2) hypokalemia or hypomagnesemia; (3) concomitant use of other drugs that prolong the OT, interval, including (1) bradycardia; (2) hypokalemia or hypomagnesemia; (3) concomitant use of other drugs that prolong the OT, interval; and (4) presence of congenital prolongation of the OT interval. GEODON should as be avoided in patients with congenital long OT syndrome and in patients with a history of cardiac arrhythmias (see CONTRAINDICATIONS, and see *Drug Interactions* under PRECAUTIONS). It is recommended that patients being considered for GEODON treatment who are at risk for significant electrolyte disturbances, hypokalemia (and/or hypomagnesemia) may increase the risk of OT prolongation and arrhythmia. Hypokalemia may result from diuretic therapy, diarrhea, and other causes. Patients with low serum potassium and/or magnesium should be repleted with those electrolytes before proceeding with treatment. It is essential to periodically monitor serum electrolytes in patients for whom diuretic therapy, is introduced during GEODON treatment. Persistently prolonged OT<sub>c</sub> intervals may also increase the risk of further prolongation and arrhythmia, buit its in ot clear that routine screening ECG measures are effective in detecting such patients. Rather, GEODON should be avoided in patients. With historis of significant cardiovascular illness, eg, OT prolongation, recent acute myocardial infarction, uncompensated heart failure, or cardiac arrhythmia. GEODON should be discontinued in patients who are found to have persistent OT, measurements. 500 msec. *Neurolptic Malignant Syndrome (MMS)* At potentially failas symptom c uscontinue in patients with are found to have persistent of a measurements solo inset. *Neuroine purchang and syndhine (mynk)* potentially data by somptom complex sometimes refered to as Neuroinepit Malignant Syndhine (mynk). Sha been reported in association with administration 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. If a patient requires antipsychotic drug treatment after recovery from NMS, the potential reintroduction of drug therapy should be carefully considered. The patient should be carefully considered. The movements may develop in patients undergoing treatment with antiosychotic drugs. Although the prevalence of TD appears to be highes movements may develop in patients undergoing treatment with antipsychotic orugs. Authough the prevalence or U papears to be nightest among the elderly, especially delarly women, it is impossible to rely upon prevalence estimates to predict, at the inception of antipsychotic treatment, which patients are likely to develop TD. It signs and symptoms of TD appear in a patient on GEODON, drug discontinuation should be considered. Hyperdyleemia and Diabetes Mellifus; Hyperdyleemia-related adverse events, sometimes serious, have been reported in patients treated with adspical antipsychotics. There have been few reports of hyperdyleemia 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 hyperdyleemia. **PRECAUTIONS** — General: Bash, In premarketing trials, about 5% of GEDOD N patients developed rash and/or urticaria, with discontinuation of treatment in about one-sixth of these cases. The occurrence of rash was dose related, although the and/or unicana, with discontinuitation of treatment in about one-sixth of these cases. The occurrence of rash was doose related, although the finding might also be explained by longer exposure in higher-dose patients. Several patients with rash had signs and symptoms of associated systemic illness, e.g., elevated WBCs. Most patients improved promptly upon treatment with antihistamines or steroids and/or upon discontinuation of ECDDON, and all patients were reported to recover completely. Upon appearance of rash for which an alternative etiology cannot be identified, GEODON should be discontinued. <u>Orthostatic Hypotension</u>, GEODON may induce orthostatic hypotension associated with dizziness, techycardia, and, in some patients, syncope, especially during the initial dose-titration period, probably reflecting its  $\alpha_1$ -adrenergic antagonist properties. Syncope was reported in 0.5% of GEODON patients. GEODON should be used with particular caution in ability with known cardiovascular disease (history of myocardial infarction or ischemic heart disease, heart failure or conduction abnormalities), cerebrovascular disease or conditions that would predispose patients to hypotension (dehydration, hypovolemia, and treatment with antihypertensive medications). <u>Seizures</u>: In clinical trials, seizures occurred in 0.4% of GEDODN patients. There were confounding factors that may have contributed to seizures in many of these cases. As with other antipsycholic drugs, GEDODN should be used cautiously in patients with a history of seizures or with conditions that potentially lower the seizure threshold, e.g., Alzheimer's dementia. Conditions that lower the seizure threshold may be more prevalent in a population of 65 years or older. <u>Dysphagia</u>: <u>Esophageal</u> dysmotility and aspiration have been associated with antipsychotic drug use. Aspiration pneumonia is a common cause of morbidity and mortality in elderly patients, in particular those with advanced Alzheimer's dementia, and GEODON and other antipsychotic drugs should be used cautiously in patients at risk for aspiration pneumonia. (See also Boxed WARNING, WARNINGS: Increased Mortality in Elderly Patients with Dementia-Related Psychosis). Hyperprolactinemia: As with other drugs that antagonize dopamine D<sub>2</sub> receptors, GEODON elevates protectin levels in humans. Tissue of three operiments indicate that approximately one third of human breast cancers are protactin dependent in vitro, a factor of potential importance if the prescription of these drugs is contemplated in a patient with previously detected breast cancer. Neither clinical studies nor epidemiologic studies conducted to date have shown an association between chronic administration of this class of drugs and tumorigenesis in humans; the available evidence is considered too limited to be conclusive at this time. Potential for Cognitive of drugs and tumongenesis in numans; the available evidence is considered to oblimited to be conclusive at this time. <u>Patiental tor Cognitive</u> and <u>Motor Impairment</u> Somolence was a commonly reported adverse event in GEDON patients. In the 4 and 6-week placebo-controlled trials, somolence was reported in 14% of GEODON patients, tor 5% of placebo patients. Somolence led to discontinuation in 0.3% of patients in short-term clinical trials. Since GEODON has the potential to impair judgment, thinking, or motor skills, patients should be cautioned about performing activities requiring mental alertness, such as operating a motor vehicle (including automobiles) or operating hazardous machinery until they are reasonably certain that GEODON therapy does not affect them adversely. <u>Praising</u> One case of priapism was reported in the premarketing database. <u>Body Temperature Regulation</u>, Athough not reported with GEODON in premarketing trials. discription of the body's ability to reduce core body temperature has been attributed to antipsychotic agents. <u>Suicide</u>. The possibility of a suicide attempt is inherent in psychotic illness and close supervision of high-risk patients should accompany drug therapy. GEODON prescriptions should be written for the smallest quantity of capsules consistent with good patient management to reduce overdose risk.

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 repleted before treatment. Patients who are started on diuretics during The advector of the second sec the QT interval. (2) Given the primary CNS effects of GEODON, caution should be used when it is taken in combination with other centrally acting drugs. (3) Because of its potential for inducing hypotension, GEODON may enhance the effects of oretain antihypertensive agents. (4) GEODON may antagonize the effects of levodopa and dopamine agonists. <u>Effect of Other Drugs on GEODON</u>: Carbamazepine. 200 mg bid for 21 days, resulted in a decrease of approximately 35% in the AUC of GEODON. *Neutocaracele*, a potent inhibitor or OYFPA4. 400 mg df of 5 days, increased the AUC and Cm<sub>may</sub> of GEODON by about 35%-40%. *Cincetinica*, 800 mg df or 2 days, did not affect GEODON pharmacokinetics. Coadministration of 30 mL of Maadav din ot affect GEODON pharmacokinetics. Population pharmacokinetic analysis oschizophreni patients in controlled clinical triats has not revealed any clinically significant pharmacokinetic interactions with becaptions of drugs cleared primarity by CYP1A2, CYP2O9, CYP2O9, CYP2O9, and CYP3A4, and little potential for drug interactions with 6EODON uet to displacement. GEODON 420 mg bid administered concornitantly with *Ithium* 450 mg bidf or 7 days did not affect the steady-state level or renal clearance of lithium. GEODON 20 mg bid did in ot affect the pharmacokinetics of concornitanty administered oncorrestre (0.15 mm). Consistent with *Ithium* 450 mg bidf or 7 days did not affect the steady-state level or renal clearance of lithium. GEODON 20 mg bid did not affect the pharmacokinetics of concornitanty administered oncornitanty with *Ithium* 450 mg bidf or 7 days did not affect the steady-state level or renal clearance of lithium. GEODON 20 mg bid did not affect the pharmacokinetics of concornitanty administered oncornitanty with *Ithium* 450 mg bidf or 7 days did not affect the steady-state level or renal clearance of lithium. GEODON 20 mg bid down concornitanty with *Ithium* 450 mg bidf or 7 days did not affect the steady-state level or renal clearance of lithium. GEODON 20 mg bid down c State serve or trait action of minimum damma and the server of the serve Impairment of Permity: Litentific archiogenicity studies were conducted with GEUDUNII Cong Evanis rata and OZ in time. In finale mice, there was no increase in incidence of tumors relative to controls. If female mice there were dose-related increases in the incidences of pituitary gland adenoma and carcinoma, and mammary gland adenocarcinoma at all doses tested. Increases in the incidences of pituitary gland adenoma and carcinoma, and mammary gland adenocarcinoma at all doses tested. Increases in the incidences of 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 <u>Hyperrolactinemia</u>). <u>Mutagenesis</u>: There was a reproducible mutagenic response in the Arnes assay in one strain of S. *typhinnulum* in the absence of metabolic activation. Positive results were obtained in both the in vitro mammalian cell accementation expense and the accement of the elevation activation. Positive results were obtained in both the invitro mammalian cell accementation centre of Evaluation intervention and theoretine accementation in the more the obtained of the filter CECODM accementation centre of Evaluation centre of the obtained of the providence of the obtained of the obtained of the obtained on the obtained of the obtained no de saturo de spontanzam ne aconcer madacente anarotario reclante ver catale vere catale The remain or the order of the second of the It is recommended that women receiving GECDON should not breast feed. **Pediatric Use:** The safety and effectiveness of GEODON in pediatric patients have not been established. **Geriatric Use:** Of the approximately 4500 patients treated with GEODON in clinical studies, 2.4% (109) were 65 years of age or over. In general, there was no indication of any different tolerability for GEODON or of reduced clearance of GEODON in the elderly compared to younger adults. Nevertheless, the presence of multiple factors that might increase the pharmacodynamic response to GEODON, or cause poorer lolerance or orthostasis, should lead to consideration of a lower starting dose, sower that on and careful monitoring during the initial dosing period for some elderly patient. **ADVERES REACTIONS** — **Adverse Findings Observed in Short-term**, **Placebo-Controlled Trials**: The following findings are based on the short-term placebo-controlled premarketing Visit for schlopphrenia (a pool of two 6-week, and two 4-week fixed-dose trials) and bipolar mania (a pool of two 6-week, and two 4-week fixed-dose trials) and bipolar mania (a pool of two 6-week, and two 4-week fixed-dose trials) and bipolar mania (a pool of two 6-week, and two 4-week fixed-dose trials) and bipolar mania (a pool of two 6-week, and two 4-week fixed-dose trials) and bipolar mania (a pool of two 6-week, and two 4-week fixed-dose trials) and bipolar mania (a pool of two 6-week, and two 4-week fixed-dose trials) and bipolar mania (a pool of two 6-week, and two 4-week fixed-dose trials) and bipolar mania (a pool of two 6-week, and two 4-week fixed-dose trials) and bipolar mania (a pool of two 6-week, and two 4-week fixed-dose trials) and bipolar mania (a pool of two 6-week, and two 4-week fixed-dose trials) and bipolar mania (a pool of two 6-week, and two 4-week fixed-dose trials) and bipolar mania (a pool of two 6-week, and two 4-week fixed-dose trials) and bipolar mania (a pool of two 6-week, and two 4-week fixed-dose trials) and bipolar mania (a pool of two 6-week, and two 4-week fixed-dose trials) and bipolar mania (a pool of two 6-week, and two 4-week fixed-dose trials) and bipolar mania (a pool of two 6-week, and two 4-week fixed-dose trials) and bipolar mania (a pool of two 6-week, and two 4-week fixed-dose trials) and bipolar mania (a pool of two 6-week, and two 4-week fixed-dose trials) and bipolar mania (a pool of two 6-week, and two 4-week fixed-dose trials) and bipolar mania (a pool of two 6-week, and two 4-week fixed-dose trials) and bipolar mania (a pool of two 6-week, and two 4-week fixed-dose trials) and bipolar mania (a pool of two 6-week, and two 4-week fixed-dose trials) and bipolar mania (a pool of two 6-week, and two 4-week fixed-dose trials) and bipolar mania (a pool of two 6-week, and two 4-week fixed-dose trials) and two 4-week fixed-dose tri Use to an adverse event, compared with about 2.2% (6/273) on placeb. The most common event associated with dropout was rash, including 7 dropouts for rash among GEODON patients (1%) compared to no placebo patients (see **PRECAUTIONS**). Bipolar Mania: Approximately 6.5% (18/279) of GEODON-treated patients in short-term, placebo-controlled studies discontinued treatment due to an adverse event, compared with about 3.7% (5/136) on placebo. The most common events associated with dropout in the GEODON-treated and is create contraction with a bottom of the bottom provides and a contraction of the second and the bottom of BCDDDN patients (1%) compared to one placebo patient each for dystonia and rash (1%) and no placebo patients for the remaining adverse events. Adverse Events at an Incidence ≥5% and at Least Twice the Rate of Placebo: The most commonly observed adverse events associated the second seco with GEODON in schizophrenia trais were sonnoience (14%) and respiratory tractification (8%). The most commonly observed adverse events associated with the use of GEODON in bipolar mania trials were sonnoience (31%), extrapyramidal symptoms (31%), dizzness (16%), akathisia (10%), abnormal vision (6%), asthenia (6%), and vomiting (5%). The following list enumerates the treatment-emergent (16%), alathisia (10%), abnormal vision (6%), asthemia (6%), and vomiting (5%). The following list enumerates the treatment-emergent adverse events that occurred in 2% of GEODON patients and at greater incidence than in placebo. Schizophrenia: <u>Body as a Whole</u>—asthemia, accidental injury, chest pain. <u>Cardiovascular</u>—tactycardia. <u>Digestive</u>—nausea, constipation, dyspepsia, diarrhea, dry mouth, anorexia, <u>Beryous</u>—extrapyranidal symptoms, somolence, akathisia, <u>Specializatov</u>—repsilizatov, <u>respiratovy</u> travinitis, <u>Special</u> <u>Senses</u>—abnormal vision. <u>Bioplar Mania: <u>Body as a Whole</u>—headache, asthenia, accidental injury, Chest pain. <u>Cardiovascular</u>—tactycardia. <u>Digestive</u>—nausea, disribed, <u>adiovidy</u> travit, <u>bioplar Mania: Body as a Whole</u>—headache, asthenia, accidental injury. <u>Cardiovascular</u>—hypertension. <u>Digestive</u>—nausea, diarthea, dry mouth, yonothis, <u>somolence, akathisia</u>, anvelse, <u>bioplar Mania: <u>Body as a Whole</u>—headache, asthenia, accidental injury. <u>Cardiovascular</u>—hypertension. <u>Digestive</u>—nausea, diarthea, dry mouth, yonothis, <u>somolence, akathisia</u>, anvelse, <u>bioplar Mania: <u>Body as a Whole</u>—headache, asthenia, accidental injury. <u>Cardiovascular</u>—hypertension. <u>Digestive</u>—nausea, diarthea, dry mouth, yonothis, <u>somolence, akathisia</u>, anvelse, <u>bioplar Mania: <u>Body as a Whole</u>—headache, asthenia, accidental injury. <u>Cardiovascular</u>—hypertension. <u>Digestive</u>—nausea, diarthea, dry mouth, yonothis, <u>diversee</u>—abnormal vision. **Dose Dependency:** An analysis to dose response in the schizophrenia trials revealed an apparent relation of adverse event to dose for the following: asthenia, postural hypotension, anorexia, dry mouth, increased salivation, athreada, anvieta, dry duraless, dystonia, hypertonia, somolence, termor, thinitis, rash, and abnormal vision. **Etrapyramidal Symptoms (EFS)**: The incidence of reported EFS for GEODON patients in the short-term, placebo controlled schizophrenia Kathisia</u></u></u></u> Extrapyramidal Symptoms (EPS): In encidence of reported LPS for GEUDUN patients in the short-term, piacebo-controlled schizophrema trials was 14% vs 8% for placebo. Objectively collected data from those trials on the Simpson-Angus Raing Scale and the Barnes Akathisia Scale did not generally show a difference between GEODON and placebo. *Vital Sign Changes*: GEODON is associated with orthostatic hypotension (see PRECAUTIONS). *Weight Gain*: In short-term schizophrenia trials, the proportions of patients meeting a weight gain criterion of >7% of body weight were compared, revealing a statistically significantly greater incidence of weight gain for GEODON patients to (10%) vs placebo patients (4%). A median weight gain of 0.5 kg was observed in GEODON patients so U kg in placebo patients. Weight gain was reported as an adverse event in 0.4% of both GEODON and placebo patients. During long-term therapy with GEODON. gain was reported as an adverse event in 0.4% of both GEODOW and pixelscob patients. During indig-term threight patients thas being on the basis of body mass index (BMI) showed the greatest mean evelight gain and the highest incidence of clinically significant weight gain (>7% of body weight) in patients with a low BMI (-23) compared to normal (23-27) or overweight (>27) patients. There was a mean weight gain of 1.4 kg for patients with a low BMI (-23) compared to normal (23-27) or overweight (>27) patients. There was a mean weight gain of 1.4 kg for patients with a "low" baseline BMI, 0.0 kg for patients with a "low" on and the highest and the single state of the single state state of the single state of the single state stat Frequent adverse events are those occurring in at least 1/100 patients: infrequent adverse events are those occurring in 1/100 to 1/1000 hadents rate events are those occurring in fewer than 1/100 patients. Schizophreine<u>Body as a Whole</u>—*Frequent* tabominal pain, flu syndrome, fever, accidental fall, face edema, chills, photosensitivity reaction, flank pain, hypothermia, motor vehicle accident. <u>Cardiovascular</u> <u>System</u>—*Frequent* tachycardia, hypertension, postural hypotension; *Infrequent* bradycardia, angina pectoris, atrial fibrillation; *Rare* first-Organi Propositional information, postanti postanti postanti protectioni mutuali protecti a di pr o spingla, torget capacity and the gamma state of the spin state o creatine phosphokinase increased, alkaline phosphatase increased, hypercholesteremia, dehydration, lactic dehydrogenase increased albuminuria, hypokalemia; Rare: BUN increased, creatinine increased, hyperlipemia, hypocholesteremia, hyperkalemia, hypochloremia, hypoglycemia, hyponatremia, hypoproteinemia, glucose tolerance decreased, gout, hyperchloremia, hyperuricemia, hypocalcemia hypoglycemic, nypontania, nypontania, nypoprotenia, nyposite data do data do data do data do data nyposite na nyposite Nyposite na o santaa nooming, time and a sontaation of the s Skin and Appendages — Infrequent: maculopapular rash, urticaria, alopecia, eczema, extoliative dermatitis, contact dermatitis Sint and oppendages — Intreduent: maculopapular rash, uncarta, alopeca, eczerna, extoniauve dermantis, contact dermattis, cataract, photophobia, Raze: eye hemorthage, visual field defect, keratitis, keratoconjuncitivis, <u>Urogenital System</u> — Infrequent: conjunctivis, <u>alory eyes</u>, tinnitus, biephanitis, cataract, photophobia, Raze: eye hemorthage, visual field defect, keratitis, keratoconjuncitivis, <u>Urogenital System</u> — Infrequent: constantis, cataract, photophobia, Raze: eye hemorthage, visual field defect, keratitis, keratoconjuncitivis, <u>Urogenital System</u> — Infrequent: constantis, cataract, anorgasmia, glycosuria, Raze: gynecomastia, vaginal hemorthage, nocturia, oliguria, female sexual dysfunction, uterine hemorrhage. **Adverse Finding Observed in Trials of Intramuscular GEODON** in these studies, the most commonly observed adverse events associated with the use of intramuscular GEODON (z5%) and observed at area to intramuscular GEODON (in the lowest intramuscular action) proidence. 31%, in Short Jerme **Texid-Dos Intramuscular GEODON** (in the lowest intramuscular GEODON (in the lowest intramuscular Schort) proidence. 31%, in Short Jerme **Texid-Dos Intramuscular CH** followino file teximerus events as and proidence. 31%, in Short Jerme **Texid-Dos Intramuscular CH** followino file teximerus events as event that of the lowest intrainiscular become group were readure ( $r_5$ ), rates ( $r_2$ ), and some function ( $r_2$ ) ( $r_3$ ),  $r_4$  is some function ( $r_4$ ) ( $r_4$ ),  $r_4$ ) is the some function ( $r_4$ ) (Body asa Whole—headache, injection site pain, asthenia, abdominal pain, flusyndrome, back pain. <u>Cardiovascular</u> postural hypotension, hypertension, hoyspensia, anorexia, constipation, tooth disorder, dry mouth. <u>Nervous</u>—diziness, anxiety, insomnia, somnolence, akathisa, aplation, extrapyranidal syndrome, hypertonia, cogwheel rigidity, paresthesia, personality disorder, psychosis, speech disorder. <u>Respiratory</u>—rhinitis. <u>Skin and Appendages</u>— trunculosis, sweating. <u>Urogenital</u>—dysmeroritea, priapism. <u>DRUG ABUSE AND DEPENDENCE</u>—*Controlled Substance Otass:* <u>GEODON</u> is not a controlled substance. <u>OVERDOSAGE</u>—In premarketing trials in over 5400 patients, accidental or intentional overdosage of GEODON vas documented in Dipatiens. <u>All patients survived without sequela</u>, in the patient triating the largest confirmed amount (3240 mg), the only symptoms reported were minimal sedation, sluring of speech, and transitory hypertension (BP 2007).

prescriptions should be written for the smallest quantity of capsules consistent with good patient management to reduce overdose risk. <u>Use in Patients with Resc</u> China dexpense with CertonONIn patients with cartain concomisant systemic illnesses is limited. <u>GEODON has not been evaluated or used to any appreciable extent in patients with a recent history of myccardial infarction or unstable heart disease. Patients with these diagnoses were excluded from premarketing clinical studies. Because of the risk of UC protongation and orthostatic hypotension with ECDON, caution should be observed in cardiac patients. (See <u>OT Protongation and Risk of Sudden Deathin</u> WARNINGS and <u>Orthostatic hypotension</u> in <u>PECAUTIONS</u>). *Information for Patients*: To ensure safe and effective use of GEODON the *Referencess*: 1. Daniel DG, Potkin SG, Reeves KR, Swift RH, Harrigan EP. Intramuscular (M). Ziprasidone 20 mg is effective in reducing acute agitation associated with psychosis: a double-bilind, randosciaer sub-ord intramuscular and oral formulations in a 6-week, randomized, bilinded-assessment study. *Psychopharmacology*. 2001; 155:128-134. 2. Brook S, With CH, Harrigan EP. Intramuscular (M). *Psychopharmacology*. 2005; 178:514-523. **3**. Lesem MD, Zajecka JM, Swift RH, Reeves KR, Harrigan EP. Intramuscular is provided. *Science*: **4**. Brook S, Lucey JV, Gonn KP, for the Ziprasidone ID and Science **4**. Brook S, Lucey JV, Gonn KP, for the Ziprasidone **10**. March **200**; **2**. The second **1**. March **200**; **2**. The second **1**. March **200**; **2**. The second **1**. Structure **1**. Mithour **1**. Structure **1**. Struct</u>

A36



Revised May 2005

## Depression can recur many times...



Or not.

## Extending the body of evidence 2-YEAR RECURRENCE PREVENTION data for EFFEXOR XR<sup>1</sup>

#### IMPORTANT TREATMENT CONSIDERATIONS

#### Suicidality in Children and Adolescents

Antidepressants increased the risk of suicidal thinking and behavior (suicidality) in short-term studies in children and adolescents with Major Depressive Disorder (MDD) and other psychiatric disorders. Anyone considering the use of EFFEXOR XR or any other antidepressant in a child or adolescent must balance this risk with the clinical need. Patients who are started on therapy should be observed closely for clinical worsening, suicidality, or unusual changes in behavior. Families and caregivers should be advised of the need for close observation and communication with the prescriber. EFFEXOR XR is not approved for use in pediatric patients. (See Warnings and Precautions: Pediatric Use.)

EFFEXOR XR is contraindicated in patients taking monoamine oxidase inhibitors (MAOIs). EFFEXOR XR should not be used in combination with an MAOI or stopping EFFEXOR XR before starting an MAOI.

Pooled analyses of short-term (4 to 16 weeks) placebocontrolled trials of 9 antidepressant drugs (SSRIs and others) in children and adolescents with Major Depressive Disorder (MDD), obsessive-compulsive disorder (OCD), or other psychiatric disorders (a total of 24 trials involving over 4,400 patients) have revealed a greater risk of adverse events representing suicidal thinking or behavior (suicidality) during the first few months of treatment in those receiving antidepressants. The average risk of such events in patients receiving antidepressants was 4%, twice the placebo risk of 2%. No suicides occurred in these trials.

within at least 14 days of discontinuing treatment with an MAOI; at least 7 days should be allowed after

#### Length and results of positive, randomized, double-blind, placebo-controlled antidepressant clinical studies CLINICAL 6 months 1 year 2 years **EFFEXOR XR®** DATA (venlafaxine HCl) Cymbalta® (duloxetine HCI) Lexapro® (escitalopram oxalate) Wellbutrin XL® (bupropion HCI) Zoloft<sup>®</sup> ŵ (sertraline HCI) **Paxil®** t (paroxetine HCI)

= demonstrated relapse/recurrence prevention at end point.

<sup>®</sup> Zoloft has been studied in 2-year recurrence prevention as monotherapy but failed to show a significant difference vs. placebo at end point. Wilson KCM, et al. Br J Psychiatry. 2003;182:492-497.

<sup>†</sup>Paxil has been studied in 2-year recurrence prevention in combination with psychotherapy/clinical management sessions with or without augmentation, but not as monotherapy. In patients with recurrent depression, no significant difference was seen between Paxil and placebo. Reynolds CF, et al. *N Engl J Med.* 2006;354:1130-1138.

In the EFFEXOR XR PREVENT study, patients had at least 3 prior episodes of depression in their lifetime. EFFEXOR® and EFFEXOR XR® are registered trademarks of Wyeth Pharmaceuticals Inc. Other brands listed are the trademarks of their respective owners and are not trademarks of Wyeth Pharmaceuticals Inc.

- Adult and pediatric patients with MDD can experience worsening of their depression and/or the emergence of suicidal ideation and behavior, whether or not they are taking antidepressants. Patients treated with antidepressants should be observed closely for clinical worsening and suicidality, especially at the beginning of drug therapy, or at the time of increases or decreases in dose. Anxiety, agitation, panic attacks, insomnia, irritability, hostility, aggressiveness, impulsivity, akathisia, hypomania, and mania have been reported and may represent precursors to emerging suicidality. Stopping or modifying therapy should be considered especially when symptoms are severe, abrupt in onset, or not part of presenting symptoms.
- The development of potentially life-threatening serotonin syndrome may occur when EFFEXOR XR is coadministered with other drugs that may affect the serotonergic neurotransmitter systems. Concomitant use of EFFEXOR XR with MAOIs is contraindicated. If concomitant use of EFFEXOR XR with an SSRI, SNRI, or a triptan is clinically warranted, careful observation of the patient is advised. Concomitant use of EFFEXOR XR with tryptophan supplements is not recommended.
- Treatment with venlafaxine is associated with sustained increases in blood pressure (BP) in some patients. Postmarketing cases of elevated BP requiring immediate treatment have been reported.

Pre-existing hypertension should be controlled. Regular BP monitoring is recommended.

- Mydriasis has been reported in association with venlafaxine; therefore, patients with raised intraocular pressure or those at risk of acute narrow-angle glaucoma (angle-closure glaucoma) should be monitored.
- Abrupt discontinuation or dose reduction has been associated with discontinuation symptoms. Patients should be counseled on possible discontinuation symptoms and monitored while discontinuing the drug; the dose should be tapered gradually. See the Precautions section of the Prescribing Information.

#### Please see brief summary of Prescribing Information on adjacent pages.



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offers patients access to a call center to speak with a health care provider for patient support and education to reinforce your efforts

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supplies feedback and updates about these patient calls to you, their physician

Encourage your EFFEXOR XR patients to enroll in Dialogues by calling 866-313-3737 — and you can visit mddpatientsupport.com

 The most common adverse events reported in EFFEXOR XR short-term placebo-controlled depression, generalized anxiety disorder (GAD), social anxiety disorder (SAD), and/or panic disorder (PD) trials (incidence  $\geq 10\%$  and  $\geq 2x$  that of placebo) were anorexia, asthenia, constipation, dizziness, dry mouth, ejaculation problems, impotence, insomnia, nausea, nervousness, somnolence, and sweating.



#### The change they deserve.

Reference: 1, Data on file, Wyeth Pharmaceuticals Inc.

Please see brief summary of Prescribing Information on adjacent pages.

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BRIEF SUMMARY. See package insert for full prescribing information.

Suicidality in Children and Adolescents

Antidepressants increased the risk of suicidal thinking and behavior (suicidality) in short-term studies in children and addescents with Major Depressive Disorder (MDD) and other psychiatric disorders. Anyone considering the use of EFFEXOR XR or any other antidepressant in a child or adolescent must balance this risk with the clinical need. Patients who are started on therapy should be observed closely for clinical worsening, suicidality, or unusual changes in behavior. Families and caregivers should be advised of the need for close observation and communication with the prescripter. EFFEXOR XR is not approved for use in pediatric patients. (See Warnings and Precautions: Pediatric Use.)

Pooled analyses of short-term (4 to 16 weeks) placebo-controlled trials of 9 antidepressant drugs (SSRIs and others) in children and adolescents with Major Depressive Disorder (MOD), obsessive computive disorder (OCD), or other psychiatric disorders (a total of 24 trials involving over 4,400 patients) have revealed a greater risk of adverse events representing suicidal thinking or behavior (suicidality) during the first few months of treatment in those receiving antidepressants. The average risk of such events in patients receiving antidepressants was 4%, twice the placebo risk of 25. No suicides occurred in these trials.

patients) have revealed a greater rak of adverse events representing suicidal timiting of behavior (suicidal) during the first few months of trautment in thiose receiving antidepressants. The average risk of such events in patients receiving antidepressants was 4%, twice the placeto risk of 2%. No suicidae accurred in these thating monoanter to the properties of the subscription of the termination. Concomitted us in patients halong monoanter to other inhibitors (MAGIs, WARNINGS: Clinical Worsening and Suicide Risk—Tatients with major demossive inhibitors (MAGIs, WARNINGS: Clinical Worsening and Suicide Risk—Tatients with major demossive inhibitors (MAGIs, WARNINGS: Clinical Worsening and Suicide Risk—Tatients with major demossive inhibitors (MAGIs, WARNINGS: Clinical Worsening and Suicide Risk—Tatients with major demossive inhibitors (MAGIs, WARNINGS: Clinical Worsening and suicide accurate the subscription of the energence of suicidally in the theorem shales in coldene and adversening of depression and the energence of suicidally in certain patients. Antidepressant increased the rak of suicidal therking and behavir (suicidally) in subscriptions and the coldene and adversening of depression have an use in unknown whether the suicidal risk in pediatric patients achieved to long-free clinical worsening, suicidally, and unsuad changes in behavior, especially during the initial few months of a course of drug therapy, or at times of door changes, either increases or decreases. Anolish, with MDD or commothed depression in the setting of other synchistic in and antipative statemes. Anolish, statemest, hypomara, and mains have been recording a subscription approximation approach the emergence of subscriptions, and mains have a deversion of depression and/or the emergence of subscriptions are avera, strang in one, oweren out part of the subscription terestical worsening patients being transity for clinical worsening of subscriptions and approximatis approximation apatients and the there are approxima increase in IPC consider effort door reduction or discontinuation. Myerilasis: Mychiaeis has been reported; monitor patients with nessel efforcional pressure or at risk of acute narrow-range (galacoma angle-closure galacoma). PRECAUTIONS: General—Discontinuation of Treatment with Effector XR. Abrupt discontinuation or dose reduction of verifatistic et versus doses is associated with new symptoms, the trequency of which increased with increased with the dose level and looger duration of treatment. Symptoms include agaterion, nonresis, provide, containon, conclusion impaired, diarthea, diszineas, dry mouth, dysphoric mood, emotional lability, fracticulation, they end that trapomania, insummia, intrability, lethargy, nausea, nervousnees, nightmanes, seizares, sereory disturtances is q, prestiteties such as electric shock semations, somethien, fendus, themo, versing, and versiting. Monitor patients when discontinuing treatment. A gradual reduction in the dose rather than abruic creation of inverting treatment in flowant of devination in the dose or used discontinuation of the dose reduction of the dose or used discontinuities of the treatment in the treatment in the dose or used discontinuition of the dose or used discontinuition of the treatment in the treatment is done or used discontinuition of the there is a secontinued or the limitation of the dose or used discontinuition of the treatment is done or used discontinuition of the treatment in the treatment in the dose or used discontinuition of the treatment is a secontinuition of the treatment in the dose or used discontinuition of the treatment is a secont second to the dose or used discontinuition of the treatment is the treatment in the dose or used discontinuition of the treatment is a second to the treatment in the dose or used discontinuition of the treatment in the dose or used discontinuition of the treatment is a second to the treatment in the dose or used discontinuition of the treatment is a second to the treatment in the dose or used discont iii 6, puresthesias such as electric strock instactions), commolence, sweiting, tendus, termox, verting, termox, verting, tendus, termox, verting, tendus, termox, verting, termox, verting,

Effexor XR (8%) than placebo (4%) patients in MDD studies. The discontinuation rate for anorexia was 10% in MDD studies. Treatment-emergent anorexia was more commonly reported for Effexor XR (8%) than placebo (2%) patients in GAD studies. The discontinuation rate for anorexia was 0.9% for up to 8 weeks in GAD studies. Treatment-emergent anorexia was more commonly reported for Effexor XR (20%) than placebo (2%) patients in SAD studies. The discontinuation rate for anorexia was 0.9% for up to 12 weeks in GAD studies. Treatment-emergent anorexia was more commonly reported for Effexor XR (20%) than placebo (2%) patients in SAD studies. The discontinuation rate for anorexia was more commonly reported for Effexor XR (8%) than placebo (3%) patients in PD studies. The discontinuation rate for anorexia was for 0.4% for Effexor XR platents in 12-week PD studies. **Plateints: Potents:** Decreased appetite was seen in pediatric patients receiving Effexor XR. In GAD and MDD trials, 10% of Effexor XR platents aged 6-17 for up to 8 weeks and 3% of placebo patients had treatment-emergent anorexia. None of the patients receiving Effexor XR and placebo-controlled trial for SAD, 22% and 3% of placebo axis. The discontinuation rates for anorexia were 0.7% for patients receiving Effexor XR and placebo, respectively, reported treatment-emergent anorexia (decreased appetite). The discontinuation rates for anorexia were 0.7% and 0.0% for patients receiving Effexor XR and placebo, respectively. The discontinuation rates for anorexia were 0.7% to patients receiving Effexor XR and placebo. Activation of Maniar/Myoomania: Mania or hypomania has occurred during short-lerm depression and PD studies. As with all drugs effective in the treatment of MDD, Effexor XR should be used cautiously in patients with a studies of maniar hyponariam and or the syndrome of in appropriate anditoursus (succinsus) in patients with a flox or history of mania. **Hyponariam:** Hyponariam and or the syndrome of in appropriate anditous is patients with a Effexor XR (8%) than placebo (4%) patients in MDD studies. The discontinuation rate for anorexia was 1.0% in MDD suburs. As with all outgo elective in the learning on Mich, Election All should be used balloused in the secretion history of main. *Hyponatremia*: Hyponatremia and/or the syndrome of inappropriate antiduretic hormone secretion (SIADH) may occur with veniafaxine. Consider this in patients who are volume-depleted, elderly, or tading diuretics. *Seizures*: In all premarketing depression trials with Effexor, seizures were reported in 0.3% of veniafaxine patients. Use cautiously in patients with a history of seizures. Discontinue in any patient who develops seizures. *Abnormal* Beeding: Abnormal bleeding (most commonly ecchymosis) has been reported. Serum Cholesterol Elevation: Clinically relevant increases in serum cholesterol were seen in 5.3% of venlafaxine patients and 0.0% of placebo patients treated for at least 3 months in trials. Consider measurement of serum cholesterol levels during long-term treatment. Use in Patients With Concomitant Illness: Use Effexor XR cautiously in patients with diseases or treatment. Use in Patients With Concomitant Illness: Use Effexor XR cardiously in patients with diseases or conditions that could affect hemodynamic responses or metabolism. Venladaxine has not been evaluated in patients with recent history of MI or unstable heart disease. Increases in OT interval (OTc) have been reported in clinical studies. Exercise caution in patients whose underlying medical conditions might be compromised by increases in heart rate. In patients with renal impairment or cirritosis of the liver, the clearances of ventafaxine and its active metabolities were decreased, prolonging the elimination half-lives. A lower dose may be necessary, use with caution in such patients. Information for Patients—Prescribers or other health professionals should inform patients, their families, and their caregivers about the benefits and risks associated with treatment with Effexor XR and should course them in this pappropriate use. A patient Medication Guide About Using Articlepressants in Children and Teenagers is available for Effexor XR. The prescribers or health professional should instruct patients, their families, and their caregivers about the benefits and risks associated with treatment with Effexor XR and should course them in the Medication Guide and checked the professional should instruct patients, their families, and their caregivers to read. Effexor XR. The prescriber or health professional should instruct patients, their families, and their caregivers to read the Medication Guide and should assist them in understanding its contents. Patients should be given the opportunity to discuss the contents of the Medication Guide and to obtain answers to any questions they may have. The complete text of the Medication Guide is available at <u>www.effexorx.com</u> or in the approved prescribing information. Patients should be advised of the following issues and asked to alert their prescriber if these occur while taking Effexor XR. **Clinical Worsening and Suicide Risk:** Patients, their families, and their caregivers should be encouraged to be alert to the emergence of symptoms listed in **WARNINGS: Clinical Worsening and Suicide Risk**, especially those seen early during antidepressant treatment and when the dose is adjusted up or down. Families and caregivers of patients should be advised to observe for the emergence of such symptoms on a day-to-day basis, since changes may be abund. Such symptoms listed in the notifiest prescriber or health professional especially they are abund. Such symptoms and the provide the the observer for the emergence of such symptoms on a day-to-day basis, since changes may be about to derive a support of the reported to the patient's prescriber or health professional, especially if they are severe, abrupt in onset, or were not part of the patient's presenting symptoms. Symptoms such as these may be associated with an increased risk for suicidal thinking and behavior and indicate a need for very close monitoring and possibly changes in the medication. Caution patients 1) about operating hazardous machinery, including automobiles, possibly changes in the medication. Caution patients 1) about operating hazaroous machinery, including automobiles, until they are reasonably sure that ventafaxine does not adversely affect their abilities; 2) to avoid alcohol while taking Effexor XR; and 3) about the risk of serotonin syndrome with the concomitant use of Effexor XR and tripications, tranadol, tryptophan supplements, or other serotonergic agents. Patients should be adveded to notify their physician 1) if they become pregnant or intend to become pregnant during therapy, or if they are nursing; 2) about other prescription or over-the-counter drugs, including herbal preparations and nurititional supplements they are taking or plan to take; 3) if they develop a rash, hives, or related allergic phenomena; or 4) if they have a history of glaucoma or increased intraocular pressure. Laboratory Tests—No specific laboratory tests are recommended. **Drug Interactions—** (DDV), and ventafaxine did not exaggerate the psychomotor and psychometric effects induced by ethanol. **Climetidine:** (Dave and methanol mation effecting under the psychometric effects induced by ethanol. **Climetidine:** (DV), and veniafaxine did not exaggerate the psychomotor and psychometric effects induced by ethanol. Cimetidine: Use caution when administering venifaxine with cimetidine to patients with the pre-witing hypertension or hepatic dysfunction, and the elderly. Diazeparn: A single dose of diazeparn or its active metabolite, desembly diazeparn, or OUV venifaxine did not have any effect on the PK of diazeparn or its active metabolite, desembly diazeparn, or affect the psychomotor and psychometric effects induced by diazeparn. Haloperidol: Venifaxine did not have any effect on the PK of diazeparn or its active metabolite, desembly/diazeparn, or affect the psychomotor and psychometric effects induced by diazeparn. Haloperidol: Venifaxine do services and the subscription of the other discover and the subscription of the subscriptions of the subscriptions of the subscription of th CYP2D6. Drugs inhibiting this isoenzyme have the potential to increase plasma concentrations of ventafaxine and decrease concentrations of ODV. No dosage adjustment is required when ventafaxine is coadministered with a CYP2D6 inhibitor. Concornitant use of ventafaxine with drug treatment(s) that potentially inhibits both CYP2D6 and CYP3A4, the primary metabolizing enzymes for ventafaxine, has not been studied. Use caution if therapy includes CYP3A4, the primary metabolizing enzymes for veniafaxine, has not been studied. Use caution if therapy includes veniafaxine and any agent(s) that produces simultaneous inhibition of these two enzyme systems. **Drugs Metabolized by Cytochrome P450 Iscenzymes:** Veniafaxine is a relatively weak inhibitor of CYP2D6. Veniafaxine did not inhibit CYP1A2 and CYP3A4, CVP2C9 (in vitro), or CYP2C19. **Impramine:** Veniafaxine did not affect the PK of impramine and 2-OH-impiramine. However, elsopramine AUC, G<sub>max</sub> and C<sub>max</sub> increased by -35% in the presence of veniafaxine. The 2-OH-desipramine AUCs increased by 2.5-4.5 fold. Imipramine did not affect the PK of veniafaxine and ODV. **Risperidone:** Veniafaxine slightly inhibited the CYP2De-mediated metabolism of risperidone lot is active metabolite, 9-Vidrosryisperidone, resulting in a -32% increase in risperidone AUC. Veniafaxine acadiministration did not significantly after the PK profile of the total active molety (risperidone plus 9-hydroxyrisperidone). CYP3A4. Veniafaxine did not inhibit CYP2A4 in vitro and in vitro. **Metavier** in a shydrox (of B beathy withouterse veniferiatione acadiministration certified did not inhibit CYP2A4 in vitro and in vitro. **Metavier** in a shydrox (of B beathy withouterse veniferiatione acadiministration certified in the primerse venified on the shydrox (or B beathy withouterse veniform). significantly after the PK profile of the total active molety (insperdone plus 9-hydroxyrisperdone). CYP344 : vinelaxime idi not inhibit CYP341 in vito and in vivo. Indirawir: In a study of 9 heatity volunters, ventafaxine administration resulted in a 28% decrease in the AUC of a single dose of indinavir and a 36% decrease in indinavir C<sub>mm</sub>. Indinavir did not affect the PK of ventatistavine and ODV CYP142: vinatariaxine did not inhibit CYP142 in vitro and in vivo. CYP2C9: ventafaxine did not inhibit CYP2C9 in vitro. In vivo, ventafaxine 75 mg by mouth every 12 hours did not after the PK of a single 550-mg dose of tobutamide or the CYP2C9-mediated formation of 4-hydroxy-tobutamide. CYP2C9: Ventafaxine did not inhibit the metabolism of diazepam, which is partially metabolized by CYP2C19 (see Diazepam above). MADIs: See CONTRAINDICATIONS and WARNINGS. CNS-Active Drugs: Use caution with concomitant use of ventafaxine and other CNS-active drugs. Serotonergic Drugs and Triptans (see WARNINGS. Serotonergic Drugs and the potential for serotonin syndrome, caution is advised then Effexor XR and the potential for serotonergic normality and the effect of the constraint see such as triptane. SSRIe constraints of action of Effexor XR and the potential for serotonin syndrome, caution is advised then Effexor XR. The mechanism of action of Effexor XR and the potential for corrotinn syndrome, caution is advised when Effexor XR is coadministered with other drugs that may affect the servtonergic neurotransmitter systems, such as triptans, SSRIs, other SNRIs, linezoldi, lithium, tramadol, or SJ. John's wort. If concomitant treatment of Effexor XR with these drugs is clinically waranted, careful observation of the patient is advised, particularly during treatment is advised when Effexor XR increases. The concomitant use of Effexor XR with typotpoints usphements is not recommended. Electroconvulsive Therapy (EC): There are no clinical data establishing the benefit of ECT combined with Effexor XR treatment. Carcinogenesis, Nutagenesis, Inpairment of Fertility—Carcinogenesis: There was no increase in tumors in mice and rats given up to 1.7 times the maximum recommended human dose (MRHD) on a mg/m' basis. Mutagenesis: Venlataxine and ODV were not mutagenic in the Ames reverse mutation assay in Salmonella bacteria or the CHOHGPRT mammalian cell forward gene mutation assay. Venlataxine was not clastogenic in several assays. DU elicited a clastogenic response in the in vivo chromosomal aberration assay in rat bone marrow. Impairment of Fertility, Ne ad lactation when dosing begains prevaled on antiformations in offspring. However, in rats given 2.5 times, and hersbits given a limes the MRHD (mg/m basis; prevaled on matformations in offspring. However, in rats given 2.5 times, the MRHD, there was a decrease in pup weight, an increase in stillom pups, and an increase in pup deaths during the first of agva flactation when dosing begain during pregnancy and continued until weaking. There are no adequate and well-controlled studies in pregnant women; use Effexor XR during pregnancy only if clearly needed. *Nonteratogenic Effects*. Neonates exposed to Effexor XR during Complications can arise immediately upon requiring prolonged hospitalization, respiratory support, and tube feeding. Complications can arise immediately u requiring prolonged hospitalization, respiratory support, and tube feeding. Complications can arise immediately upon delivery. Reports include respiratory distress, cyanosis, apnea, seizures, temperature instability, reding difficulty, wonting, hypogylocenia, hypotonia, hypererflexia, tremor, titteriness, irritability, and constant crying. This is consistent with a direct toxic effect of SNRIs or a drug discontinuation syndrome. In some cases, it is consistent with consistent with a direct boxic effect of SNRis or a drug discontinuation syndrome. In some cases, it is consistent with serotonin syndrome. When treating a pregnant woman with Effexor XR during the third trimester, carefully consider the potential risks and benefits of treatment and consider tapering Effexor XR in the third trimester. Labor, Delivery, Nursing—The effect on labor and delivery in humans is unknown. Venlataxine and ODV have been reported to be excreted in human milk. Because of the potential for serious adverse reactions in nursing infrants from Effexor XR, a decision should be made whether to discontinue nursing or to discontinue the drug, taking into account the importance of the drug to the mother. **Pediatric Use**—Safety and effectiveness in the pediatric population have not been established (see **BOX WARNING** and **WARNINGS:** Clinical **Worsening and Suicide Risk**). No studies have adequately assessed the importance of children and adversely advelopment, and maturation of children and advescents. Studies suggest Effexor XR may adversely affect weight and height (see **PRECAUTIONS-General**, *Changes in Height*). Should the decision be made to treat a pediatric patient with Effexor XR, for pediatric patients has not been assessed to crhonic treatment >6 months. In studies in patients aged 6-17, blood pressure

and cholesterol increases considered to be clinically relevant were similar to that observed in adult patients. The and choicador includes borisacione to be canned in taking the anti-two same at the function of a data place at the precautions for adults apply to pediatric patients. Genature Wee–No overall differences in effectiveness or safety were observed between genatric and younger patients. Greater sensitivity of some older individuals cannot be ruled out. Hyoonatremia and SIADH have been reported, usually in the elderty. ADVERSE REACTIONS: Associated with Discontinuation of Treatment—The most common events leading to discontinuation in MDD, GAD, SAD, and PD Discontinuation or meanment—mine intex common events leading to discontinuation in word, vex, 3-ev, ain P-trais included nausea, anorekis, motekis, importence, dry mouth, dizziness, insonnia, somolence, hypertension, diarrhea, paresthesia, tremor, abnormal (mostly blurred) vision, abnormal (mostly delayed) ejaculation, asthenia, vomiting, nervourses, headache, vasoditation, thinking abnormal, decreased libido, and sweating. Commonly Observed Adverse Events in Controlled Clinical Trials for MDD, GAD, SAD, and PD—Body as a Whole: asthenia, headache, flu syndrome, accidental injury, advominal pain. Cardioascular vasoditation, hypertension, palpitation. Digestive: nausea, constipation, anorexia, vomiting, flatulence, diarrhea, eructation, Metabolic/Nutritional: weight loss Maeaus, Sciencer, distributes, companya, dominal pain, cardioascular, detabolic/Nutritional; weight loss. Digestive nausea, constipation, anorexia, vomiting, flatulence, diarrhea, eructation. <u>Metabolic/Nutritional</u>: weight loss <u>Nerous</u> System: dizziness, somolence, insomital, dry mouth, nervousness, abnormal dreams, tremor, depression, sportonia, presthesia, ilioid decreased, agitation, anviety, buttohing, <u>Respiratory</u> System: pharyngitis, yawn, sinusitis. <u>Skin</u>: sweating, <u>Special Senses</u>: abnormal vision. <u>Urogenital System</u>: abnormal ejaculation, impotence, orgasnic dystonction (including anorgasmia) in females. <u>Wita Sign Changes</u>: Effexor XI was associated with a mean increase in pulse rate of about 2 beats/min in depression and GAD trials and a mean increase in pulse rate of 4 beats/min in SAD trials. <u>See WARNINGS-Sustained Pypertension</u>). Laboratory Changes: Clinically relevant increases in serum cholesterol were noted in Effexor XR clinical trials. Increases were duration dependent over the study period and tended to be greater with higher doses. <u>Other Events Observed During the Premarketing</u> <u>Pauluation of Effexor and Effexor XR --</u>M-e6;70. "Frequent"=events <u>Observed During the Premarketing</u> <u>Evaluation of 11</u>(1000 patientis; 'rare<sup>2</sup>=fever than 1/1000 patientis. <u>Body as a whole</u> - Frequent chest pain instemat, initia, fever, neck pain; Infrequent face edema, intentional injury, malaise, monitalis, heckreigktiv, pelvic pain, photosensitivity reaction, suicide attempt, withdrawal syndrome; Rare: appendicitis, bacteremia, carcinoma, ecluluitis. <u>Cardinase temper</u> - Frequent impartian photosensitivity reaction, suicide attempt, withdrawal syndrome; Rare: appendicitis, bacteremia, carcinoma, ecluluitis. earlip bioconstant, facto approximation of the second standard a grant of the second standard and standard and the second standard and standard and standard and standard standa Standard stan Standard s automodpliedus, nate aduć aleurjasin, atelna, inst-degree autovenintulai buck, bigeniny, buline bialch buck, capilary fragility, cerebral ischemia, coronary artery disease, congestive heart failure, heart arrest, hematoma, cardivascular disorder (mitral valve and circulatory disturbance), muccottaneous hemorrhage, myocardial infarct, pallor, sinus arrhythmia. Digestive system – Frequent: increased appetite; Infrequent: bruxism, collits, dysphagia, tongue edema, esophagitis, gastritis, gastrointestinal ulcer, gingvittis, glossitis, rectal hemorrhage, hemorrhoids, choleithasis, esophageal spasms, duodenitis, hematemesis, gastroesophageal reflux disease, cholecystitis, choleithinasis, esophageal spasms, duodenitis, hematemesis, gastroesophageal erflur disease, gastrointestinal hemorrhage, gum hemorrhage, hepatitis, ielitis, jaundice, intestinal obstruction, liver tendemess, parotitis, periodontitis, proctitis, rectal disorder, salivary gland enlargement, increased salivation, soft stools, tongue discoloration. <u>Endocrine system</u> - Rare: galactorrhoea, goiter, hyperthyroidism, hypothyroidism, hypothyroidis Increased, creatinine increased, diabetes mellitus, glycosuria, gout, healing abnormal, hemochromatosis, hypercalcinuria, hyperkalemia, hyporphosphatemia, hyperuncemia, hypocholesteremia, hyponatremia, hypophosphatemia, hypoproteinemia, uremia. Musculosketetal system - Frequent: arthraigia; Infrequent: arthritis, arthrosis, bone spurs, bursitis, leg cramps, myasthenia, tenosynovitis; Rare: bone pain, pathological fracture, muscle arinciss, oune spuis, oursius, leg claritips, invasionena, teriosyttowis, hare: cone pain, partiological rature, incised cramp, muscle spasms, musculoskeletal stiffness, myopathy, osteoporosis, osteocaterosis, plantar fascitits, rheumatoid arthritis, tendon rupture. <u>Nervous system</u> - Frequent amnesia, confusion, depersonalization, hypesthesia, tinking abnormal, trismus, verifico infrequent akathisia, apathy, tatxia, circumoral paresthesia, CNS stimulation, emotional lability, euphoria, hallucinations, hostility, hyperesthesia, hyperkina, hypotonia, incoordination, manic reaction, myodonus, neuralgia, neuropathy, psychosis, seizure, abnormal speech, stupor, suicidal ideation; Rare: abnormal/changed behavior, adjustment disorder, akinesia, alcohol abuse, aphasia, backan netator, nato animinariangeo entrona, adjestimi deoreta, natosa, atendar, a atendar, a nytecomistry and inpatients in provide implane control information in the model of the set of the s Infrequent: acne, alopecia, contact dermatitis, dry skin, eczema, maculopapular rash, psoriasis, urticaria; Rare: brittle nails, erythema nodosum, extoliative dermatitis, lichenoid dermatitis, hair discoloration, skin discoloration, furunculosis, hans, et yuenta noussuin, extendance et inteuts, incretendo terinteuts, intersolution terinteuts, son usconradori, son usconradori, nun turcurssa, hinsutism, leukoderma, miliaria, petechiai rash, purutitar rash, pustular rash, vesiculobullous rash, seborrhea, skin atrophy, skin hypertrophy, skin striae, sweating decreased. <u>Special senses</u> - Frequent abnormality of accommodation, mydriasis, taste perversion; Infrequent: conjunctivitis, diplopia, dry eyes, eye pain, hyperacusis, otitis media, parosmia, photophobia, taste loss, visual field defect; Rare: biepharitis, cataract, chromatopsia, conjunctival edema, correal proopnoola, taste ioss, visual neio derect; hare: biepnarius, cataract, chromaupsia, conjunctival deenta, cometa lesion, deafness, exophitamisos, eye hemorrhage, glaucoma, retinal hemorrhage, subconjunctival hemorrhage, keratitis, labyrinthitis, miosis, papilidedma, decreased pupillary reflex, otitis externa, scleritis, uveitar system - Frequent prostatic disorder (prostattis, enlarged prostate, and prostate irritability), urination impaired; hifrequent: albuminurá, amenorrhea, cystitis, dysuría, hematuria, kidney calculus, kidney pain, leukorrhea, menorrhagia, metrorrhagia, nocturá, breast pain, polyuria, pyuría, urinary incontinence, urinary retention, urinary urgency, vaginia hemorrhage, vaginitis; Rare: abortion, anuria, balantis, biadder pain, breast discharge, breast engorgement, breast enlargement, endometriosis, female lactation, fibrocystic breast, calcium cystaturia, cervicitis, corbitis, werien ouct profenoed erection, ourcenzed and huronesporte kideder pain, outriono ahnormal, anzettis. enguigement, oreast enlargement, encomenuss, ennae tacation, inordoysic breast, calculin crystantina, cervicitis, orchitis, ovarian cyst, prolonged erection, grupcomastia (maile), hypomenorhae, kidney function abnormal, mastitis, menopause, pyelonephritis, oliguria, salpingitis, urolithiasis, uterine hemorrhage, uterine spasm, vaginal dryness. **Postmarketing Reports:** agranulocytosis, anaphytaxis, aplastic anemia, catatonia, congenital anomalies, CPK increased, deep vein thrombonphelbitis, dell'inm. KG abnormalities such as OT prolongation; cardiac arrhythmias including atrial fibrillation, supraventricular tachycardia, ventricular extrasystoles, and rare reports of ventricular Including and indiniation, supravenincular lashycatila, vennicular extraspones, and rate reports of vennicular points, endormal extraspones, and the report of the report of the report of the report of vennicular erythema multiforme, extrapyramidal symptoms (including dyskinesia and tardive dyskinesia), angle-closure glaucoma, hemorrhage (including eye and gastrointestinal bleeding), hepatic events (including GGT elevation; anonmalities of unspecified liver function tests; liver damage, necrosis; or failure; and fatty liver), interstitial lung disease (including pulmonary eosinophila), involuntary movements, LDH increased, neuroleptic malignant syndrome. laceds (including particular) according man, incontinuer, incontinuer, particular partic discontinuation of ventataxine or tapering of dose), and SIADH (usually in the elderly). Elevated circargine levels that were temporally associated with adverse events, including seizures, have been reported following the addition of ventataxine. Increases in prothrombin time, partial thromboglastin time, or INR have been reported when ventataxine evaluate patients carefully for history of drug abuse and observe such patients closely for signs of misuse or abuse. **OVEDOSAGE:** Electrocardiogram changes (e.g., prolongation of 0T interval, bundle branch block, ORS prolongation), sinus and ventricular tachycardia, bradycardia, hypotension, altered level of consciousness (ranging from somnolence to corra), hiadomyolysis, seizures, vertigo, liver necrosis, and death have been reported. Treatment should consist of those general measures employed in the management of overdosage with any antidepressant. Ensure an adequate anivay, oxygenation and ventiliation. Monitor cardia: hythym and vital signs. General supportive and symptomatic measures are also recommended. Induction of emesis is not recommended. Gastric lavage with a large bore orgastric tube with appropriate airway protection, if needed, may be indicated if performed soon after ingestion or in symptomatic patients. Activated charcoal should be administered. Due to the large volume of distribution of this drug, forced diuresis, dialysis, hemoperfusion, and exchange transfusion are unlikely to be of benefit. No specific antidotes or ventataria are known. In managing overdosage, consider the possibility of multiple drug involvement. Consider Torced outless, claryss, nemoperusion, and exchange transusion are unikely to be or benefit, wo specific antiootes for ventatavia are known. In managing overdosage, consider the possibility of multiple drug involvement. Consider contacting a poison control center for additional information on the treatment of overdose. Telephone numbers for certified poison control center ser al isted in the Physicians' besk Reference<sup>®</sup> (PR). **DOSAEE ADD DMINISTRATION:** Consult full prescribing information for dosing instructions. **Switching Patients to or From an MAOI**—At least 14 days should elapse between discontinuation of an MAOI and initiation of therapy with Effexor XR. At least 7 days should be allowed after stopping Effexor XR. Before starting an MAOI (see **CONTRAINDECTIONS and WARNINGS**). This brief summary is based on Effexor XR Prescribing Information W10404C024, revised June 2006.

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**41%** of all patients had the metabolic syndrome at baseline in the landmark CATIE schizophrenia study.<sup>1</sup>

Be aware. Screen and monitor your patients. Make a difference.



**Reference:** 1. McEvoy JP, Meyer JM, Goff DC, et al. Prevalence of the metabolic syndrome in patients with schizophrenia: baseline results from the Clinical Antipsychotic Trials of Intervention Effectiveness (CATIE) schizophrenia trial and comparison with national estimates from NHANES III. *Schizophr Res.* 2005;80:19-32.

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## Start and stay with nonscheduled Rozerem– ZERO evidence of abuse or dependence



- First and only—nonscheduled prescription insomnia medication...not a controlled substance and approved for long-term use<sup>1</sup>
- First and only—prescription insomnia medication that targets the normal sleep-wake cycle<sup>1</sup>
- First and only—prescription insomnia medication with no evidence of abuse potential in clinical studies<sup>1</sup>
- First and only—prescription insomnia medication that does not promote sleep by CNS depression<sup>1</sup>
- Promote sleep with Rozerem—patients who took Rozerem fell asleep faster than those who took placebo<sup>1</sup>
- One simple 8-mg dose<sup>1</sup>

\*Rozerem is not a controlled substance. A clinical abuse liability study showed no differences indicative of abuse potential between Rozerem and placebo at doses up to 20 times the recommended dose (N=14). Three 35-day insomnia studies showed no evidence of rebound insomnia or withdrawal symptoms with Rozerem compared to placebo (N=2082).<sup>12</sup>

Please visit www.rozerem.com

Rozerem is indicated for the treatment of insomnia characterized by difficulty with sleep onset. Rozerem can be prescribed for long-term use. Rozerem should not be used in patients with hypersensitivity to any components of the formulation, severe hepatic impairment, or in combination with fluvoxamine. Failure of insomnia to remit after a reasonable period of time should be medically evaluated, as this may be the result of an unrecognized underlying medical disorder. Hypnotics should be administered with caution to patients exhibiting signs and symptoms of depression. Rozerem has not been studied in patients with severe sleep apnea, severe COPD, or in children or adolescents. The effects in these populations are unknown. Avoid taking Rozerem with alcohol. Rozerem has been associated with decreased testosterone levels and increased prolactin levels. Health professionals should be mindful of any unexplained symptoms possibly associated with such changes in these hormone levels. Rozerem should not be taken with or immediately after a high-fat meal. Rozerem should be taken within 30 minutes before going to bed and activities confined to preparing for bed. The most common adverse events seen with Rozerem that had at least a 2% incidence difference from placebo were somnolence, dizziness, and fatigue.

Please see adjacent Brief Summary of Prescribing Information.



Proven for sleep. Nonscheduled for added safety.

Rozerem is a trademark of Takeda Pharmaceutical Company Limited and used under license by Takeda Pharmaceuticals North America, Inc.

## **O**Rozerem.

Brief Summary of Prescribing Information

#### ROZEREM™

(ramelteon) Tablets

INDICATIONS AND USAGE ROZEREM is indicated for the treatment of insomnia characterized by diffi-culty with sleep onset.

CONTRAINDICATIONS ROZEREM is contraindicated in patients with a hypersensitivity to ramelteon or any components of the ROZEREM formulation.

WARNINGS

Since sleep disturbances may be the presenting manifestation of a physical Since sleep disturbances may be the presenting manifestation of a physical and/or psychiatric disorder, symptomatic treatment of insommia should be initiated only after a careful evaluation of the patient. The failure of insomnia to remit after a reasonable period of treatment may indicate the presence of a primary psychiatric and/or medical illness that should be evaluated. Worsening of insomnia, or the emergence of new cognitive or behavioral abnormalities, may be the result of an unrecognized underlying psychiatric phynotics, exacerbation of insomnia and emergence of continue and behavioral abnormalities were seen with ROZEREM during the clinical development pronoram. program

ROZEREM should not be used by patients with severe hepatic impairment. ROZEREM should not be used in combination with fluvoxamine (see PRE-CAUTIONS: Drug Interactions).

A variety of cognitive and behavior changes have been reported to occur in association with the use of hypnotics. In primarily depressed patients, worsening of depression, including suicidal ideation, has been reported in association with the use of hypnotics. Patients should avoid engaging in hazardous activities that require concentra-

tion (such as operating a motor vehicle or heavy machinery) after taking BOZEBEM

After taking ROZEREM, patients should confine their activities to those necessary to prepare for bec

#### PRECAUTIONS

General ROZEREM has not been studied in subjects with severe sleep apnea or severe COPD and is not recommended for use in those populations. Patients should be advised to exercise caution if they consume alcohol in combination with ROZEREM.

#### Use in Adolescents and Children

Use in Addressenis and children ROZEREM has been associated with an effect on reproductive hormones in adults, e.g. decreased testosterone levels and increased prolactin levels. It is not known what effect chronic or even chronic intermittent use of ROZEREM Indentities of the control of the co

going to bed and should confine their activities to those necessary to prepare for bed.

Patients should be advised to avoid engaging in hazardous activities (such as operating a motor vehicle or heavy machinery) after taking ROZEREM.

Patients should be advised that they should not take ROZEREM with or immediately after a high fat meal Patients should be advised to consult their health care provider if they experi-

ence worsening of insomnia or any new behavioral signs or symptoms of concern.

Patients should consult their health care provider if they experience one of the following: cessation of menses or galactorrhea in females, decreased libido, or problems with fertility.

Laboratory Tests No standard monitoring is required.

For patients presenting with unexplained amenorrhea, galactorrhea, decreased libido, or problems with fertility, assessment of prolactin levels and testos-terone levels should be considered as appropriate.

Drug Interactions ROZEREM has a highly variable inter-subject pharmacokinetic profile (approximately 100% coefficient of variation in C<sub>max</sub> and AUC). As noted above, CYP1A2 is the major isozyme involved in the metabolism of ROZEREM; the CYP2C subfamily and CYP3A4 isozymes are also involved to a minor degree.

to a minor degree. Effects of Other Drugs on ROZEREM Matabolism Ruvoxamine (strong CYP1A2 inhibitor): When fluvoxamine 100 mg twice daily was administered for 3 days prior to single-dose co-administration of ROZEREM 16 mg and fluvoxamine, the AUG<sub>sinf</sub> for ramelteon increased approximately 190-fold, and the C<sub>max</sub> increased approximately 70-fold, compared to ROZEREM administered alone. ROZEREM should not be used in combination with fluvoxamine (See WARNINGS). Other less potent CYP1A2 inhibitors have not been adequately studied. ROZEREM should be administered with caution to patients taking less strong CYP1A2 inhibitors. administrator with location to patients along less strong OT FRE imputors. *Rilampin (Strong CVP enzyme inducer):* Administration of riffampin 600 mg once daily for 11 days resulted in a mean decrease of approximately 80% (40% to 90%) in total exposure to ramelteon and metabolite M-II, (both AUC<sub>0-ma</sub>) after a single 32 mg dose of ROZEREM. Efficacy may be reduced when ROZEREM is used in combination with strong CYP enzyme inducers such as riffampin.

Inducers such as ritampin. *Ketoconazole (strong CYP344 inhibitor):* The AUCe<sub>level</sub> and C<sub>imax</sub> of ramelteon increased by approximately 84% and 36%, respectively, when a single 16 mg does of R0ZEREM was administered on the fourth day of ketoconazole 200 mg twice daily administration, compared to administration of R0ZEREM alone. Similar increases were seen in M-II pharmacokinetic variables. R0ZERM should be administered with caution in subjects taking strong CYP3A4 inhibitors such as ketoconazole.

CHTCAM immutors such as keucorauxe. Fluconazole (strong CVP2C2 inhibitor): The total and peak systemic exposure (AUC<sub>9-wit</sub> and C<sub>mm</sub>) of rameteon after a single 16 mg dose of ROZEREM was increased by approximately 150% when administered with fluconazole.

Interaction studies of concomitant administration of BOZEBEM with fluoxe-Interaction studies or concommant administration or NO2EPEer with induce-ting (VYP206 inhibitor), omegrazole (VYP1A2 inducer/CVP2201 inhibitor), theophylline (CVP1A2 substrate), and dextromethorphan (CYP206 substrate) did not produce clinically meaningful changes in either peak or total expo-sures to ramelleon or the M-II metabolite.

Subst or transaction of the mm in inclusion. Effects of ROZEREM on Metabolism of Other Drugs Concomitant administration of ROZEREM with omeprazole (CYP2C19 sub-strate), dextromethorphan (CYP2O5 substrate), midazolam (CYP3A4 substrate), theophylline (CYP1A2 substrate), digoxin (p-gylcoprotein sub-strate), and variani (CYP2C6 [SI/CYP1A2 (IR) substrate) did not produce clinically meaningful changes in peak and total exposures to these drugs.

Effect of Alcohol on Rozerem Alcohol: With single-dose, daytime co-administration of ROZEREM 32 mg and alcohol (0.6 g/kg), there were no clinically meaningful or statistically sig-

nificant effects on peak or total exposure to ROZEREM. However, an additive effect was seen on some measures of psychomotor performance (i.e., the Digit Symbol Substitution Test. the Psychomotor Vigilance Task Test, and a Visual Analog Scale of sedation) at some post-dose time points. No additive effect was seen on the Delayed Word Recognition Test. Recause alcohol by itself impairs performance, and the intended effect of ROZEREM is to pro-mote sleep, patients should be cautioned not to consume alcohol when using ROZEREM.

Tructions Drug/Laboratory Test Interactions ROZEREM is not known to interfere with commonly used clinical laboratory tests. In addition, *in vitro* data indicate that ramelteon does not cause false-positive results for benzodiazepines, opiates, barbfurates, cocaine, cannabi-noids, or ampletamines in two standard urine drug screening methods in vitro.

#### Carcinogenesis, Mutagenesis, and Impairment of Fertility

Carcinogenesis, Mutagenesis, and Impairment of Ferunny Carcinogenesis In a two-year carcinogenicity study, B6C3F, mice were administered rametteon at doess of 0, 30, 100, 300, or 1000 mg/kg/day by oral gavage. Male mice exhibited a doss-related increase in the incidence of hepatic tumors at dose levels >100 mg/kg/day inciduing hepatic admona, hepatic carcinoma, and hepatoblastoma. Female mice developed a dos-related increase in the inci-dence of hepatic adenomas at dose levels > 300 mg/kg/day and hepatic carcinoma at the 1000 mg/kg/day (dose level. The no-effect level for hepatic tumors in male mice was 300 mg/kg/day and hepatic carcinoma at the 1000 mg/kg/day (dose level. The no-effect level for hepatic tumors in male mice was 300 mg/kg/day and based on an area-under-the-curve (AUC) comparison). The no-effect level for hepatic tumors in female mice was 100 mg/kg/day (dose tudy Law dose Level. The meal-mice turnes the thrapeu-tor amelteon and M-1, respectively, at the MRHD based on AUC). In a two-year carcinogenicity study conducted in the Sprague-Dawley rat, male and female rats were administered ramelteon at doses of 0, 15, 60,

In a two-yeak calculation study collocated in the splague-barry 5, 60, maile and femalic rats were administered rameliton at doses of 0, 15, 60, 250 or 100 mg/kg/dgy by oral gavage. Alder ats exhibited a dose-related increase in the increase of hereis and being Legydgi cell tumors of the testis at dose levels 2 ±50 mg/kg/day and hereis at cellation arease in 1000 mg/kg/day see level. the incidence of hepatic adenoma at dose levels  $\geq$  60 mg/kg/day and hepatic carcinoma at the 1000 mg/kg/day dose level. The no-effect level for hepatic Calcillottica at the TOU migrafication uses level. The tro-effect level of migrafication terms and beginning Legding cell tumors in and being Legding cell tumors in and being Legding cell tumors in the area was 60 mg/kg/day (472-times and 16-times the therapeutic exposure to ramelteon and M-II, respectively, at the MRHD based on AUC). The no-effect level for hepatic tumors in female rats was 15 mg/kg/day (472-times and 16-times the therapeutic exposure to ramelteon and M-II, respectively, at the MRHD based on AUC).

Interapeutic exposure to rameliteon and w-II, respectively, at the MHHD based on AUC). The development of hepatic tumors in rodents following chronic treatment with non-genotoxic compounds may be secondary to microsomal enzyme induction, a mechanism for tumor generation not thought to occur in humans. Leydig cell tumor development following treatment with non-genotoxic compounds in rodents has been linked to reductions in circulating testosterone levels with compensatory increases in luteinizing hormone release, which is a known proliferative stimulus to Leydig cells in the rat testosterone levels with compensatory increases in luteinizing hormone fueltinizing hormone than human Leydig cells. In mechanistic studies con-ducted in the rat, daily ramelteon administration at 250 and 1000 mg/kg/day for 4 weeks was associated with a reduction in plasma testosterone levels. In the same study, luteinizing hormone levels were elevated over a 24 hour period after the last ramelteon administration at 250 and 1000 mg/kg/day for 4 weeks was not clearly established. Although the rodent tumors observed following ramelteon treatment occurred at plasma levels of ramelton and M-II in excess of mean clinical plasma con-centrations at the MRHD, the relevance of both rodent hepatic tumors and benign rat Leydig cell tumors to humans is not known. *Mutagenesis* 

benign rat Leydig cell tumors to humans is not known. Mutagenesis Ramelleon was not genotoxic in the following: *in vitro* bactrial reverse muta-tion (Ames) assay, *in vitro* mammalian cell gene mutation assay using the mouse lymphoma TK<sup>+7</sup> cell line, *in vivoin vitro* unscheduled DNA synthesis assay in rat hepatocytes; and in *in vivo* micronucleus assays conducted in mouse lymphoma TK<sup>+7</sup> cell line, *in vivoin witro* unscheduled DNA synthesis assay in rat hepatocytes; and in *in vivo* micronucleus assays conducted in mouse and rat. Ramelteon was positive in the chromosomal aberration assay in Chinese hamster lung cells in the presence of S9 metabolic activation. Separate studies indicated that the concentration of the M-II metabolite formed by the rat liver S9 fraction used in the *in vitro* genetic toxicology studies described above, exceeded the concentration of ramelteon; therefore, the genotoxic potential of the M-II metabolite was also assessed in these studies. studies.

#### Impairment of Fertility

studies. Impairment of Fertility Ramelteon was administered to male and female Sprague-Dawley rats in an initial fertility and early embryonic development study at dose levels of 6, 60, or 600 mg/kg/day. No effects on male or female mating or fertility were observed with a rameleon dose up to 600 mg/kg/day. (78-times higher than the MRHD on a mg/m<sup>2</sup> basis). Irregular estrus cycles, reduction in the num-ber of implants, and reduction in the number of live embryos were noted with dosing temales als 260 mg/kg/day (78-times higher than the MRHD on a mg/m<sup>2</sup> basis). A reduction in the number of corpora lute a occurred at the 600 mg/kg/day dose level. Adday (79-times higher than the MRHD on on mg/m<sup>2</sup> basis). A reduction in the number of corpora lute a occurred at the 600 mg/kg/day dose level. Adday (79-times higher than the MRHD on a mg/m<sup>2</sup> basis). A reduction in the number of a same study duration, females demonstrated irregular estrus cycles with doses  $\geq$  60 mg/kg/day, but no effects were seen on implantation or embryo viability. The no-effect dose for fertility endpoints was 20 mg/kg/day in the same study duration, females demonstrated irregular estrus cycles with doses  $\geq$  60 mg/kg/day, but no effects were seen on implantation or embryo viability. The no-effect dose for fertility endpoints was 20 mg/kg/day in males (78-times the MRHD on a mg/m<sup>2</sup> basis) when considering all studies. **Pregnancy: Pregnancy Category C R**amelteon has been shown to be a developmental tratogen in the rat when given in doses 197 times higher than the maximum dose [MRHD] on a mg/m<sup>2</sup> basis. There are no adequate and well-controlled studies in pregnant women. Ramelteon should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus. The effects of ramelteon on embryo-fetal development were assessed in both the rat and hib. Pregnant tawere administered ramelteon pure lawere

studies in pregnant women. Rametedon should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus. The effects of ramelteon on embryo-fetal development were assessed in both the rat and rabib. Pregnant rats were administered ramelteon by oral gavage at doses of 0, 10, 40, 150, or 600 mg/kg/day during gestation days 6-17, which is the period of organogenesis in this species. Evidence of maternal toxicity and fetal teratogenicity was observed at doses greater than or equal to 150 mg/kg/day. Maternal toxicity was chiefly characterized by decreased body weight and, at 600 mg/kg/day, ataxia and decreased spontaneous move-ment. At maternally toxic doses (150 mg/kg/day or greater), the fetuses demonstrated visceral malformations consisting of diaphragmatic hernia and minor anatomical variations of the skeleton (irregularly shaped scapula). At 600 mg/kg/day, reductions in tella body weight as and 45-times higher than the therapeutic exposure to ramelteon and the active metabolite M-II, respectively, at the MHAI based on an area-under-the-curve [AUC] comparison). Pregnant rabbits were administered ramelteon by oral gavage at doses of 0, 12, 60, or 300 mg/kg/day, no evidence of fetal effects or teratogenicity was associated with any dose level. The no-effect level for teratogenicity was associated with any dose level. The no-effect level for teratogenicity was associated with any dose level. The no-effect level for teratogenicity was, therefore, 300 mg/kg/day (11,862-times and 99-times

higher than the therapeutic exposure to ramelteon and M-II, respectively, at the MRHD based on AUC). The effects of ramelteon on pre- and post-natal development in the rat were

The effects of ramelteon on pre- and post-natal development in the rat were studied by administration of ramelteon to the pregnant rat by oral gavage at doses of 0, 30, 100, or 300 mgk/g/day from day 6 of gestation through par-turition to postnatal (lactation) day 21, at which time offspring were weaned. Maternal toxicity was noted at doses of 100 mg/k/g/day or greater and con-sisted of reduced body weight gain and increased adrenal gland weight. Reduced body weight during the post-weaning period was also noticed in the offspring of the groups given 100 mg/kg/day and higher. Offspring in the 300 mg/kg/day group demonstrated physical and developmental delays including delayed eruption of the lower incisors, a delayed acquisition of the righting reflex. and an alteration of emotional response. These delays are often observed in the presence of reduced offspring body weight but may still be indicative of developmental delay. An apparent decrease in the wiability of offspring in the 300 mg/kg/day group was likely due to altered maternal behavior and function observed at this dose level. Offspring of the 300 mg/kg/day group also showed evidence of diaphragmatic hernia, a find-ing observed in the embry-relat development tudy previously described. There were no effects on the reproductive capacity of offspring and the resulting progregny were not different from those of vehicle-trated offspring. The no-affect level for pre- and postnatal development in this study was 30 mg/kg/day (39-times higher than the MRHD on a mg/m<sup>2</sup> basis). Labor and Delivery

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estationation due in radio and dentery. Mursing Mothers Rametteon is secreted into the milk of lactating rats. It is not known whether this drug is excreted in human milk. No clinical studies in nursing mothers have been performed. The use of ROZEREM in nursing mothers is not recommended

#### Pediatric Use

Penantic use Safety and effectiveness of ROZEREM in pediatric patients have not been established. Further study is needed prior to determining that this product may be used safely in pre-pubescent and pubescent patients.

may be used sately in proposed in the procession of the set of the

Overview The data described in this section reflect exposure to ROZEREM in 4251 subjects, including 346 exposed for 6 months or longer, and 473 subjects fo one vear.

Paces, including Sete Exposer for 6 informs or holger, and 470's subjects for her year.
Adverse Reactions Resulting in Discontinuation of Treatment Five percent of the 3594 individual subjects exposed to ROZEREM in clinical studies discontinued treatment owing to an adverse event, compared with 2% of the 1370 subjects receiving placebo. The most frequent adverse events leading to discontinuation in subjects receiving ROZEREM were somolence (0.8%), dizziness (0.5%), nausea (0.3%), fatigue (0.3%), headache (0.3%), and insonnia (0.3%).
ROZEREM Most Commonly Observed Adverse Events in Phase 1-3 trials (% placebo, n=1370; % ramelteon [8 mg], n=1250) were; headache NOS (%7, 7%), somolence (3%, 5%), fatigue (2%, 4%), dizziness (3%, 5%), nausea (2%, 3%), insomnia exacerbated (2%, 3%), upper respiratory tract infection NOS (2%, 3%), dirate NOS (2%, 5%), matigia (1%, 2%), depression (1%, 2%), dysgeusia (1%, 2%), arthralgia (1%, 2%), influenza (0, 1%), biod cortisol decreased (0, 1%) Because clinical trials are conducted under widely varying conditions, adverse

influenza (0, 1%), blood cortisol decreased (0, 1%) Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly com-pared to rates in clinical trials of other drugs, and may not reflect the rates observed in practica. The adverse reaction information from clinical trials does, however, provide a basis for identifying the adverse events that appear to be related to drug use and for approximating rates. DRUG ABUSE AND DEPENDENCE ROZERME in sola controlled substance. Human Data: See the CLINICAL TRIALS section, Studies Pertinent to Stately Concerne for Slean-Dromoting American in the Complete Prescribing

#### Safety Concerns for Sleep-Promoting Agents in the Complete Prescribing Information.

Information. Animal Data. Ramelteon did not produces any signals from animal behavioral studies indicating that the drup produces rewarding effects. Monkeys did not self-administer ramelteon and the drug did not induce a conditioned place preference in rats. There was no generalization between ramelteon and midszolam. Ramelteon did not affect roborod performance, an indicator of disruption of motor function, and it did not potentiate the ability of diazeppan to interfere with rotorod performance. Discontinuation of rametteon in animals or in humans after chronic adminis-tration did not produce with roboral signals. Samelleon dness not anoner to

tration did not produce withdrawal signs. Ramelteon does not appear to produce physical dependence.

#### OVERDOSAGE

Signs and Symptoms No cases of ROZEREM overdose have been reported during clinical develop-ment.

ROZEREM was administered in single doses up to 160 mg in an abuse liabil-ity trial. No safety or tolerability concerns were seen.

#### Recommended Treatment

General symptomatic and supportive measures should be used, along with General symponiae can supporter integrates and outporter integrates and the second of the second of

Hemodialysis does not effectively reduce exposure to ROZEREM. Therefore, the use of dialysis in the treatment of overdosage is not appropriate.

Poison Control Center As with the management of all overdosage, the possibility of multiple drug ingestion should be considered. The physician may contact a poison control center for current information on the management of overdosage.

#### Rx only Manufactured by:

Takeda Pharmaceutical Company Limited 540-8645 Osaka, JAPAN

Manufactured in: Takeda Irland Ltd. Kilruddery, County Wicklow, Republic of Ireland

Marketed by: Takeda Pharmaceuticals America, Inc. 475 Half Day Road Lincolnshire, IL 60069

5/06

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 PI02-0002-PI02-0002-1

References: 1. Rozerem package insert, Takeda Pharmaceuticals America, Inc. 2. Johnson MW, Suess PE, Griffiths RR. Ramelteon: a novel hypnotic lacking abuse liability and sedative side effects. Arch Gen Psychiatry. In press.



# For Your Patients with Bipolar I Disorder

ABILIFY<sup>®</sup> (aripiprazole) is indicated for the treatment of acute manic and mixed episodes associated with Bipolar I Disorder.

Please see IMPORTANT SAFETY INFORMATION, including Bolded WARNING, and INDICATIONS on following pages.



# **Treating Bipolar I Disorder**

WARNING: Increased Mortality in Elderly Patients With Dementia-Related Psychosis-Elderly patients with dementia-related psychosis treated with atypical antipsychotic drugs are at an increased risk of death compared to placebo. Although the causes of death were varied, most of the deaths appeared to be either cardiovascular or infectious in nature. ABILIFY is not approved for the treatment of patients with dementiarelated psychosis (see Boxed WARNING).

# **Takes Understanding**

## where your patients have been

They have struggled with their symptoms and relapses. They have felt misunderstood for years before seeking treatment.

## where your patients want to go

They want to move forward with treatment to help stabilize their mood swings. It starts with effective symptom control.

## and how you can help them get there

ABILIFY® (aripiprazole) may be able to help. ABILIFY is indicated for treating acute manic or mixed episodes associated with Bipolar I Disorder and maintaining efficacy in patients who have been stabilized and then maintained for at least six weeks.\* That means ABILIFY could help control the symptoms of bipolar mania, stabilize mood, and reduce the risk of manic relapse. In clinical trials, most patients taking ABILIFY did not gain weight or feel drowsy.<sup>†</sup>

Commonly observed adverse events reported with ABILIFY in 3-week bipolar mania trials at a  $\geq$ 5% incidence for ABILIFY and at a rate at least twice the rate of placebo include, respectively, akathisia (15% vs 4%), constipation (13% vs 6%), and accidental injury (6% vs 3%).

\*Physicians who elect to use ABILIFY for extended periods, that is longer than 6 weeks, should periodically re-evaluate the long-term usefulness of the drug for the individual patient.

On average, in short-term trials, patients reported: meaningful weight gain, ABILIFY 3%, placebo 2%; drowsiness, ABILIFY 12%, placebo 8%.

Please see IMPORTANT SAFETY INFORMATION, including Bolded WARNING, and INDICATIONS on following pages.



www.abilify.com

#### IMPORTANT SAFETY INFORMATION and INDICATIONS for ABILIFY® (aripiprazole)

#### IMPORTANT SAFETY INFORMATION:

Increased Mortality in Elderly Patients With Dementia-Related Psychosis

Elderly patients with dementia-related psychosis treated with atypical antipsychotic drugs are at an increased risk of death compared to placebo. Although the causes of death were varied, most of the deaths appeared to be either cardiovascular or infectious in nature. ABILIFY (aripiprazole) is not approved for the treatment of patients with dementia-related psychosis (see Boxed WARNING).

- ABILIFY is contraindicated in patients with a known hypersensitivity to the product.
- As with all antipsychotic medications, including ABILIFY, a rare condition referred to as neuroleptic malignant syndrome (NMS) has been reported. As with all antipsychotic medications, prescribing should be consistent with the need to minimize the risk of tardive dyskinesia (TD).
- Cerebrovascular adverse events (eg, stroke, transient ischemic attack), including fatalities, have been reported at an increased incidence in clinical trials of elderly patients with dementia-related psychosis treated with ABILIFY, including a significant dose-response relationship in a fixed-dose trial. ABILIFY is not approved for the treatment of patients with dementia-related psychosis.
- Hyperglycemia, including some serious cases ranging from ketoacidosis, hyperosmolar coma, or death, has been reported in patients treated with atypical antipsychotics. Patients on ABILIFY should be appropriately tested before and monitored during treatment.

ABILIFY may be associated with **orthostatic hypotension** and should be used with caution in patients with known cardiovascular disease, cerebrovascular disease, or conditions which would predispose them to hypotension.

As with other antipsychotic drugs, ABILIFY should be used with caution in patients with a history of **seizures** or with conditions that lower the seizure threshold.

Like other antipsychotics, ABILIFY may have the potential to impair judgment, thinking, or motor skills. Patients should not drive or operate hazardous machinery until they are certain ABILIFY does not affect them adversely.

Disruption of the body's ability to reduce **core body temperature** has been attributed to antipsychotics. Appropriate care is advised for patients who may exercise strenuously, be exposed to extreme heat, receive concomitant medication with anticholinergic activity, or be subject to dehydration.

As antipsychotics have been associated with esophageal dysmotility and aspiration, ABILIFY should be used cautiously in patients at risk for aspiration pneumonia. As the possibility of a **suicide** attempt is inherent in psychotic illness and bipolar disorder, close supervision of high-risk patients should accompany drug therapy. Prescriptions for ABILIFY (aripiprazole) should be written for the smallest quantity consistent with good patient management to reduce the risk of overdose.

Physicians should determine if a patient is **pregnant** or intends to become pregnant while taking ABILIFY. Patients should be advised not to breast-feed while taking ABILIFY.

Patients should be advised to avoid alcohol while taking ABILIFY.

Both CYP3A4 and CYP2D6 are responsible for ABILIFY metabolism. Agents that induce CYP3A4 (eg, carbamazepine) could cause an increase in ABILIFY clearance and lower blood levels. Inhibitors of CYP3A4 (eg, ketoconazole) or CYP2D6 (eg, quinidine, fluoxetine, or paroxetine) can inhibit ABILIFY elimination and cause increased blood levels.

**Commonly observed adverse events** reported with ABILIFY in 3-week bipolar mania trials at a  $\geq$ 5% incidence for ABILIFY and at a rate at least twice the rate of placebo include, respectively, akathisia (15% vs 4%), constipation (13% vs 6%), and accidental injury (6% vs 3%).

Treatment-emergent adverse events reported with ABILIFY in short-term trials at an incidence  $\geq 10\%$  and greater than placebo, respectively, include headache (31% vs 26%), agitation (25% vs 24%), anxiety (20% vs 17%), insomnia (20% vs 15%), nausea (16% vs 12%), dyspepsia (15% vs 13%), somnolence (12% vs 8%), akathisia (12% vs 5%), lightheadedness (11% vs 8%), vomiting (11% vs 6%), and constipation (11% vs 7%).

The adverse events reported in a 26-week, double-blind schizophrenia trial comparing ABILIFY and placebo were generally consistent with those reported in the short-term, placebo-controlled schizophrenia trials, except for a higher incidence of tremor: 9% for ABILIFY vs 1% for placebo.

INDICATIONS: ABILIFY is indicated for the treatment of:
 Schizophrenia, including maintaining stability in patients who had been symptomatically stable on other antipsychotic medications for periods of 3 months or longer and observed for relapse during a period of up to 26 weeks\*

- Acute manic and mixed episodes associated with Bipolat I Disorder
- Maintaining efficacy in patients with Bipolar I Disorder with a recent manic or mixed episode who had been stabilized and then maintained for at least 6 weeks\*
- \*Physicians who elect to use ABILIFY for extended period should periodically re-evaluate the long-term usefulness of the drug for the individual patient.

ABILIFY is taken once daily with or without food.

Please see BRIEF SUMMARY of FULL PRESCRIBING INFORMATION, including **Boxed WARNING**, on the following pages.

## Imagine what you could do with 2: A new 2-mg tablet and with 2: a nonrefrigerated Oral Solution

A lower dosage strength of ABILIFY (aripiprazole), a 2 mg tablet, is now available. It allows you to customize dosing for your patients by helping you cross-taper or titrate to reach a therapeutic dose.\*

The nonrefrigerated Oral Solution (1 mg/mL) may provide convenience for your patients.

ABILIFY can be taken once daily with or without food.

All to give you more flexible dosing possibilities.



No refrigeration necessary.

\*Effective dosage range: 10 to 30 mg/day for schizophrenia patients; 15 or 30 mg/day for Bipolar I Disorder patients.

ABILIFY should be written for the smallest quantity consistent with good patient management to reduce the risk of overdose.

The safety of doses above 30 mg/day has not been evaluated in clinical trials.

Please see IMPORTANT SAFETY INFORMATION and INDICATIONS, including Bolded WARNING, on previous page.

Bristol-Myers Squibb Cosuka America Pharmaceutical, Inc. 02006 Otsuka America Pharmaceutical, Inc. Reckville, MD D6-K0144 April 2006



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Printed in USA

## ABILIFY<sup>®</sup> (aripiprazole) Tablets ABILIFY<sup>®</sup> (aripiprazole) Oral Solution

Brief Summary of Prescribing Information. For complete prescribing information please consult official package circular.

#### WARNING

Increased Mortality in Elderly Patients with Dementia-Related Psychosis

Elderly patients with dementia-related psychosis treated with atypical antipsychotic 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 This is the rate of death in drug-treated patients use the conse of a typical forwerk 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. ABILIFY (aripiprazole) is not approved for the treatment of patients with dementia-related psychosis.

#### CONTRAINDICATIONS

ABILIFY (aripiprazole) is contraindicated in patients with a known hypersensitivity to the product

#### WARNINGS

Increased Mortality in Elderly Patients with Dementia-Related Psychosis Elderly patients with dementia-related psychosis treated with atypical antipsychotic drugs are at an increased risk of death compared to placebo. ABILIFY is not approved for the treatment of patients with dementia-related psychosis (see Boxed WARNING).

#### Neuroleptic Malignant Syndrome (NMS)

A potentially fatal symptom complex sometimes referred to as Neuroleptic Malignant Syndrome (NMS) has been reported in association with administration of antipsychotic drugs, including antiprazole. Two possible cases of NMS occurred during aripiprazole treatment in the premarketing worldwide clinical database. Clinical manifesta-tions of NMS are hyperpyrexia, muscle rigidity, altered mental status, and evidence of autonomic instability (irregular pulse or blood pressure, tachycardia, diaphoresis, and cardiac dysrhythmia). Additional signs may Include elevated creatine phosphokinase, myoglobinuria (rhabdomyolysis), and acute renal failure. The diagnostic evaluation of patients with this syndrome is complicated. In arriving at a diagnosis, it is important

to exclude cases where the clinical presentation includes both serious medical illness (e.g., pneumonia, systemic infection, etc.) and untreated or inadequately treated extrapyramidal signs and symptoms (EPS). Other important considerations in the differential diagnosis include central anticholinergic toxicity, heat stroke, drug fever, and primary central nervous system pathology.

The management of NMS should include: 1) immediate discontinuation of antipsychotic drugs and other drugs not essential to concurrent therapy; 2) intensive symptomatic treatment and medical monitoring; and 3) treatment of any concomitant serious medical problems for which specific treatments are available. There is no general agreement about specific pharmacological treatment regimens for uncomplicated NMS.

If a patient requires antipsychotic drug treatment after recovery from NMS, the potential reintroduction of drug therapy should be carefully considered. The patient should be carefully monitored, since recurrences of NMS have been reported.

#### Tardive Dyskinesia

A syndrome of potentially irreversible, involuntary, dyskinetic movements may develop in patients treated with antipsychotic drugs. Although the prevalence of the syndrome appears to be highest among the elderly, especially elderly women, it is impossible to rely upon prevalence estimates to predict, at the inception of antipsychotic treatment, which patients are likely to develop the syndrome. Whether antipsychotic drug products differ in their potential to cause tardive dyskinesia is unknown.

The risk of developing tardive dyskinesia and the likelihood that it will become irreversible are believed to increase as the duration of treatment and the total cumulative dose of antipsychotic drugs administered to the patient increase. However, the syndrome can develop, although much less commonly, after relatively brief treatment periods at low doses.

There is no known treatment for established cases of tardive dyskinesia, although the syndrome may remit, partially or completely, if antipsychotic treatment is withdrawn. Antipsychotic treatment, itself, however, may suppress (or partially suppress) the signs and symptoms of the syndrome and, thereby, may possibly mask the underlying process. The effect that symptomatic suppression has upon the long-term course of the syndrome is

Given these considerations, ABILIFY should be prescribed in a manner that is most likely to minimize the over these considerations, Abour's should be prescribed in a manner that is most newly to minimize the occurrence of tardive dyskinesia. Chronic antipsychotic treatment should generally be reserved for patients who suffer from a chronic illness that (1) is known to respond to antipsychotic drugs, and (2) for whom alternative, equally effective, but potentially less harmful treatments are not available or appropriate. In patients who do require chronic treatment, the smallest dose and the shortest duration of treatment producing a satisfactory clinical response should be sought. The need for continued treatment should be reassessed periodically. If signs and symptoms of tardive dyskinesia appear in a patient on ABILIFY, drug discontinuation should be

considered. However, some patients may require treatment with ABILIFY despite the presence of the syndrome

#### Cerebrovascular Adverse Events, Including Stroke, in Elderly Patients with Dementia-Related Psychosis

In placebo-controlled clinical studies (two flexible-dose and one fixed-dose study) of dementia-related psychosis, there was an increased incidence of cerebrovascular adverse events (e.g., stroke, transient ischemic attack), including fatalities, in anipiprazole-treated patients (mean age: 84 years; range: 78-88 years). In the fixed-dose study, there was a statistically significant dose response relationship for cerebrovascular adverse events in patients treated with anipiprazole. Anipiprazole is not approved for the treatment of patients with dementia-related psychosis. (See also Boxed WARNING, WARNINGS: Increased Mortality in Elderly Patients with Dementia-Related Psychosis, and PRECAUTIONS: Use in Patients with Concomitant Illness: Safety Experience in Elderly Patients with Psychosis Associated with Alzheimer's Disease.)

#### Hyperglycemia and Diabetes Mellitus

Hyperglycemia, in some cases extreme and associated with ketoacidosis or hyperosmolar coma or death, has been reported in patients treated with atypical antipsychotics. There have been few reports of hyperglycemia in patients treated with ABILIFY. Although fewer patients have been treated with ABILIFY, it is not known if this more imited experience is the sole reason for the paucity of such reports. Assessment of the relationship between atypical antipsychotic use and glucose abnormalities is complicated by the possibility of an increased background risk of diabetes mellitus in patients with schizophrenia and the increasing incidence of diabetes mellitus in the general population. Given these confounders, the relationship between atypical antipsychotic use and hyperglycemia-related adverse events is not completely understood. However, epidemiological studies which did not include ABILIFY suggest an increased risk of treatment-emergent hyperglycemia-related adverse events in patients treated with the atypical antipsychotics included in these studies. Because ABILIFY was not marketed at the time these studies were performed, it is not known if ABILIFY is associated with this increased risk. Precise risk estimates for hyperglycemia-related adverse events in patients treated with atypical antipsychotics are not available.

Patients with an established diagnosis of diabetes mellitus who are started on atypical antipsychotics should be monitored regularly for worsening of glucose control. Patients with risk factors for diabetes mellitus (e.g., obesity, family history of diabetes) who are starting treatment with atypical antipsychotics should undergo fasting blood glucose testing at the beginning of treatment and periodically during treatment. Any patient treated with atypical subsort barning at the beginning of the beginning to be according to be according to the beginning to the be discontinuation of the suspect drug.

#### PRECAUTIONS General

Rx only

#### Orthostatic Hypotension

Aripiprazole may be associated with orthostatic hypotension, perhaps due to its an-adrenergic receptor antagonism. The incidence of orthostatic hypotension-associated events from five short-term, placebo-controlled trials in schizophrenia (n=926) on ABILIFY (aripiprazole) included: orthostatic hypotension (placebo 1%, aripiprazole 1.9%), orthostatic lightheadedness (placebo 1%, aripiprazole 0.9%), and syncope (placebo 1%, aripiprazole 0.6%). The incidence of orthostatic hypotension-associated events from short-term, placebo-controlled trials in biplar mania (m=597) on ABILIFY include: orthostatic hypotension (glacebo 0%, aripiprazole 0.7%), orthostatic lightheadedness (placebo 0.5%, aripiprazole 0.5%), and syncope (placebo 0.9%, aripiprazole 0.5%). The incidence of a significant orthostatic change in blood pressure (defined as a decrease of at least 30 mmHg in systolic blood pressure when changing from a supine to standing position) for aripiprazole was not

statistically different from placebo (in schizophrenia: 14% among aripiprazole-treated patients and 12% among placebo-treated patients and 2% among placebo-treated placebo-treated patients and 2% among placebo-treated placebo-treated placebo-treated placebo-treated placebo-treated placebo-treated placebo-treated placebo-treated placeb treated patients).

Aripiprazole should be used with caution in patients with known cardiovascular disease (history of myocardial infarction or ischemic heart disease, heart failure or conduction abnormalities), cerebrovascular disease, or conditions which would predispose patients to hypotension (dehydration, hypovolemia, and treatment with antihypertensive medications

#### Seizure

Seizures occurred in 0.1% (1/926) of aripiprazole-treated patients with schizophrenia in short-term, placebocontrolled trials. In short-term, placebo-controlled clinical trials of patients with bipolar mania, 0.3% (2/597) of aripiprazole-treated patients and 0.2% (1/436) of placebo-treated patients experienced seizures. As with other antipsychotic drugs, aripiprazole should be used cautiously in patients with a history of seizures or with conditions that lower the seizure threshold, e.g., Alzheimer's dementia. Conditions that lower the seizure threshold may be more prevalent in a population of 65 years or older.

#### Potential for Cognitive and Motor Impairment

In short-term, placebo-controlled trials of schizophrenia, somnolence was reported in 11% of patients on ABILIFY compared to 8% of patients on placebo; somnolence led to discontinuation in 0.1% (1/926) of patients with schizophrenia on ABILIFY in short-term, placebo-controlled trials. In short-term, placebo-controlled trials of bipolar mania, somnolence was reported in 14% of patients on ABILIFY compared to 7% of patients on placebo, but did not lead to discontinuation of any patients with bipolar mania. Despite the relatively modest increased incidence of somnolence compared to placebo, ABILIFY, like other antipsychotics, may have the potential to impair judgment, thinking, or motor skills. Patients should be cautioned about operating hazardous machinery, including automobiles, until they are reasonably certain that therapy with ABILIFY does not affect them adversely. 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 aripiprazole for 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. Dysphaoia

Esophageal dysmotility and aspiration have been associated with antipsychotic drug use. Aspiration pneumonia is a common cause of morbidity and mortality in elderly patients, in particular those with advanced Alzheimer's dementia. Aripiprazole and other antipsychotic drugs should be used cautiously in patients at risk for aspiration pneumonia (see PRECAUTIONS: Use in Patients with Concomitant Illness ). Suicide

The possibility of a suicide attempt is inherent in psychotic illnesses and bipolar disorder, and close supervision of high-risk patients should accompany drug therapy. Prescriptions for ABILIFY should be written for the smallest quantity consistent with good patient management in order to reduce the risk of overdose.

#### Use in Patients with Concomitant Illness

Clinical experience with ABILIFY in patients with certain concomitant systemic illnesses (see CLINICAL PHARMA-COLOGY: Special Populations: Renal Impairment and Hepatic Impairment in Full Prescribing Information) is limited. ABILIFY has not been evaluated or used to any appreciable extent in patients with a recent history of myo-

cardial infarction or unstable heart disease. Patients with these diagnoses were excluded from premarketing clinical studies.

Safety Experience in Elderly Patients with Psychosis Associated with Alzheimer's Disease: In three, 10-week, placebo-controlled studies of aripiprazole in elderly patients with psychosis associated with Alzheimer's disease (n=938; mean age: 82.4 years; range: 56-99 years), the treatment-emergent adverse events that were reported at an incidence of ≥3% and aripiprazole incidence at least twice that for placebo were asthenia (placebo 3%, aripiprazole 8%), somnolence (placebo 3%, aripiprazole 9%), urinary incontinence (placebo 1%, aripiprazole 5%), excessive salivation (placebo 0%, aripiprazole 4%), and lightheadedness (placebo 1%, aripiprazole 4%).

The safety and efficacy of ABILIFY in the treatment of patients with psychosis associated with dementia have not been established. If the prescriber elects to treat such patients with ABILIFY, vigilance should be exercised, particularly for the emergence of difficulty swallowing or excessive somnolence, which could predispose to acci-dental injury or aspiration. (See also Boxed WARNING and WARNINGS: Increased Mortality in Elderly Patients with Dementia-Related Psychosis and Cerebrovascular Adverse Events, Including Stroke, in Elderly Patients with Dementia-Related Psychosis.)

#### Information for Patients

Physicians are advised to discuss the following issues with patients for whom they prescribe ABILIFY:

#### Interference with Cognitive and Motor Performance

Because aripiprazole may have the potential to impair judgment, thinking, or motor skills, patients should be cautioned about operating hazardous machinery, including automobiles, until they are reasonably certain that aripiprazole therapy does not affect them adversely.

#### Pregnancy

Patients should be advised to notify their physician if they become pregnant or intend to become pregnant during therapy with ABILIFY.

Nursing Patients should be advised not to breast-feed an infant if they are taking ABILIFY.

Concomitant Medication

Patients should be advised to inform their physicians if they are taking, or plan to take, any prescription or overthe-counter drugs, since there is a potential for interactions

Alcohol

Patients should be advised to avoid alcohol while taking ABILIFY.

Heat Exposure and Dehydration

Patients should be advised regarding appropriate care in avoiding overheating and dehydration.

Sugar Content

Patients should be advised that each mL of ABILIFY oral solution contains 400 mg of sucrose and 200 mg of fructose

#### Drug-Drug Interactions

en the primary CNS effects of aripiprazole, caution should be used when ABILIFY is taken in combination with other centrally acting drugs and alcohol. Due to its  $\alpha_1$ -adrenergic receptor antagonism, aripiprazole has the potential to enhance the effect of certain antihypertensive agents.

#### Potential for Other Drugs to Affect ABILIFY

Aripiprazole is not a substrate of CYP1A1, CYP1A2, CYP2A6, CYP2B6, CYP2C8, CYP2C9, CYP2C19, or CYP2E1 enzymes. Aripiprazole also does not undergo direct glucuronidation. This suggests that an interaction of aripiprazole with inhibitors or inducers of these enzymes, or other factors, like smoking, is unlikely. Both CYP3A4 and CYP2D6 are responsible for aripiprazole metabolism. Agents that induce CYP3A4

(e.g., carbamazepine) could cause an increase in aripiprazole clearance and lower blood levels. Inhibitors of CYP3A4 (e.g., ketoconazole) or CYP2D6 (e.g., quinidine, fluoxetine, or paroxetine) can inhibit aripiprazole elimination and cause increased blood levels

Ketoconazole: Coadministration of ketoconazole (200 mg/day for 14 days) with a 15-mg single dose of aripiprazole increased the AUC of aripiprazole and its active metabolite by 63% and 77%, respectively. The effect of a higher ketoconazole dose (400 mg/day) has not been studied. When concomitant administration of keto-conazole with aripiprazole occurs, aripiprazole dose should be reduced to one-half of its normal dose. Other strong inhibitors of CYP3A4 (itraconazole) would be expected to have similar effects and need similar dose reduc-tions; weaker inhibitors (erythromycin, grapefruit juice) have not been studied. When the CYP3A4 inhibitor is withdrawn from the combination therapy, aripiprazole dose should then be increased. Quinidine: Coadministration of a 10-mg single dose of aripiprazole with quinidine (166 mg/day for 13 days), a

automatic Columnities autor of a 10-ing single cose of an pipe accession (uniformer (cosing) of 15 days), a potent inhibitor of CYP2D6, increased the AUC of an piperazole by 112% but decreased the AUC of its active metabolite, dehydro-ar/piprazole, by 35%. Aripiprazole dose should be reduced to one-half of its normal dose when concomitant administration of quinidime with aripiprazole cocurs. Other significant inhibitors of CYP2D6, such as fluozetine or paroxetine, would be expected to have similar effects and, therefore, should be accompanied by similar dose reductions. When the CYP2D6 inhibitor is withdrawn from the combination therapy, aripiprazole dose should then be increased.

*Carbamazepine:* Coadministration of carbamazepine (200 mg BID), a potent CYP3A4 inducer, with aripiprazole (30 mg DD) resulted in an approximate 70% decrease in C<sub>max</sub> and AUC values of both aripiprazole and its active metabolite, dehydro-aripiprazole. When carbamazepine is added to aripiprazole therapy, aripiprazole dose should be doubled. Additional dose increases should be based on clinical evaluation. When carbamazepine is withdrawn from the combination therapy, aripiprazole dose should then be reduced. No clinically significant effect of famotidine, valproate, or lithium was seen on the pharmacokinetics of

aripiprazole (see CLINICAL PHARMACOLOGY: Drug-Drug Interactions in Full Prescribing Information).

#### Potential for ABILIFY (aripiprazole) to Affect Other Drugs

Aripiprazole is unlikely to cause clinically important pharmacokinetic interactions with drugs metabolized by cytochrome P450 enzymes. In *in vivo* studies, 10- to 30-mg/day doses of aripiprazole had no significant effect on metabolism by CYP206 (dextromethorphan), CYP209 (warfarin), CYP2C19 (omeprazole, warfarin), and CYP3A4 (dextromethorphan) substrates. Additionally, aripiprazole and dehydro-aripiprazole did not show potential for altering CYP1A2-mediated metabolism *in vitro* (see **CLINICAL PHARMACOLOGY: Drug-Drug Interactions** in Full Prescribing Information).

Alcohol: There was no significant difference between aripiprazole coadministered with ethanol and placebo coadministered with ethanol on performance of gross motor skills or stimulus response in healthy subjects. As with most psychoactive medications, patients should be advised to avoid alcohol while taking ABILIFY.

#### Carcinogenesis, Mutagenesis, Impairment of Fertility: (Please see Full Prescribing Information.)

#### Pregnancy

Pregnancy Category C

In animal studies, aripiprazole demonstrated developmental toxicity, including possible teratogenic effects in rats and rabbits.

Pregnant rats were treated with oral doses of 3, 10, and 30 mg/kg/day (1, 3, and 10 times the maximum recommended human dose [MRHD] on a mg/m<sup>2</sup> basis) of aripiprazole during the period of organogenesis. Sestation was islightly prolonged at 30 mg/kg. Treatment caused a slight delay in fetal development, as evi-denced by decreased fetal weight (30 mg/kg), undescended testes (30 mg/kg), and delayed skeltal ossification (10 and 30 mg/kg). There were no adverse effects on embryofetal or pup survival. Delivered offspring had decreased bodyweights (10 and 30 mg/kg), and increased incidences of hepatodiaphragmatic nodules and diaphragmatic hernia at 30 mg/kg (the other dose groups were not examined for these findings). (A low incidence of diaphragmatic hernia was also seen in the fetuses exposed to 30 mg/kg.) Postnatally, delayed vaginal opening was seen at 10 and 30 mg/kg and impaired reproductive performance (decreased fertility rate, corpora lutea, implants, and live fetuses, and increased post-implantation loss, likely mediated through effects on female offspring) was seen at 30 mg/kg. Some maternal toxicity was seen at 30 mg/kg, however, there was no evidence to suggest that these developmental effects were secondary to maternal toxicity.

In suggest that they be development and the sector way in initiate that 0xx10y. Pregnant rabbits were treated with oral doese of 10, 3 and 100 mg/kg/day (2, 3, and 11 times human exposure at MRHD based on AUC and 6, 19, and 65 times the MRHD based on mg/kg/day (2, 3, and 11 times human exposure organogenesis. Decreased maternal food consumption and increased abortions were seen at 100 mg/kg, treatment caused increased fetal mortality (100 mg/kg), decreased fetal weight (30 and 100 mg/kg), increased incidence of skeletal abnormality (fused sternebrae at 30 and 100 mg/kg) and minor skeletal variations (100 mg/kg). In a study in which rats were treated with oral doses of 3, 10, and 30 mg/kg/day (1, 3, and 10 times the

MRHD on a mg/m<sup>2</sup> basis) of aripirazole perinatally and postnatally (from day 17 of gestation through day 21 postpartum), slight maternal toxicity and slightly prolonged gestation were seen at 30 mg/kg. An increase in still-births, and decreases in pup weight (persisting into adulthood) and survival, were seen at this dose. There are no adequate and well-controlled studies in pregnant woman. It is not known whether aripiprazole can cause fetal harm when administered to a pregnant woman or can affect reproductive capacity. Aripiprazole should be used during pregnancy only if the potential benefit outweighs the potential risk to the fetus.

#### Labor and Delivery

The effect of aripiprazole on labor and delivery in humans is unknown.

#### **Nursing Mothers**

Aripiprazole was excreted in milk of rats during lactation. It is not known whether aripiprazole or its metabolites are excreted in human milk. It is recommended that women receiving aripiprazole should not breast-feed.

#### Pediatric Use

Safety and effectiveness in pediatric and adolescent patients have not been established.

#### Geriatric Use

Of the 7951 patients treated with aripiprazole in premarketing clinical trials, 991 (12%) were ≥65 years old and 789 (10%) were ≥75 years old. The majority (88%) of the 991 patients were diagnosed with dementia of the Alzheimer's type.

Alzheimer's type. Placebo-controlled studies of aripiprazole in schizophrenia or bipolar mania did not include sufficient numbers of subjects aged 65 and over to determine whether they respond differently from younger subjects. There was no effect of age on the pharmacokinetics of a single 15-mg dose of aripiprazole. Aripiprazole clearance was decreased by 20% in elderly subjects (£65 years) compared to younger adult subjects (18 to 64 years), but there was no detectable effect of age in the population pharmacokinetic analysis in schizophrenia patients. Studies of elderly patients with psychosis associated with Alzheimer's disease have suggested that there may be a different fulerability norfile in this population compared to younger patients with schizophrenia (see

Boxed WARNING; WARNINGS: Increased Mortality in Elderly Patients with Dementia-Related Psychosis; Cerebrovascular Adverse Events, Including Stroke, in Elderly Patients with Dementia-Related Psychosis; and PRECAUTIONS: Use in Patients with Concomitant Illness). The safety and efficacy of ABILIFY in the treatment of patients with psychosis associated with Alzheimer's disease has not been established. If the prescriber elects to treat such patients with ABILIFY, vigilance should be exercised.

#### ADVERSE REACTIONS

Aripiprazole has been evaluated for safety in 7951 patients who participated in multiple-dose, premarketing trials in schizophrenia, bipolar mania, and dementia of the Alzheimer's type, and who had approximately \$235 patient-years of exposure. A total of 2280 aripiprazole-treated patients were treated for at least 180 days and 1558

The conditions and duration of treatment with aripiprazole included (in overlapping categories) double-blind, comparative and noncomparative open-label studies, inpatient and outpatient studies, fixed- and flexible-dose studies, and short- and longer-term exposure.

Adverse events during exposure were obtained by collecting volunteered adverse events, as well as results of physical examinations, vital signs, weights, laboratory analyses, and ECG. Adverse experiences were recorded by clinical investigators using terminology of their own choosing. In the tables and tabulations that follow, modified COSTART dictionary terminology has been used initially to classify reported adverse events into a smaller number of standardized event categories, in order to provide a meaningful estimate of the proportion of individuals experiencing adverse events.

The stated frequencies of adverse events represent the proportion of individuals who experienced at least once, a treatment-emergent adverse event of the type listed. An event was considered treatment emergent if it occurred for the first time or worsened while receiving therapy following baseline evaluation. There was no attempt to use investigator causality assessments; i.e., all reported events are included.

The prescriber should be aware that the figures in the tables and tabulations cannot be used to predict the incidence of side effects in the course of usual medical practice where patient characteristics and other factors differ from those that prevailed in the clinical trials. Similarly, the cited frequencies cannot be compared with figures obtained from other clinical investigations involving different treatment, uses, and investigators. The cited figures, however, do provide the prescribing physician with some basis for estimating the relative contribution of drug and nondrug factors to the adverse event incidence in the population studied.

#### Adverse Findings Observed in Short-Term, Placebo-Controlled Trials of Patients with Schizophrenia The following findings are based on a pool of five placebo-controlled trials (four 4-week and one 6-week) in

which aripiprazole was administered in doses ranging from 2 to 30 mg/day.

Adverse Events Associated with Discontinuation of Treatment in Short-Term, Placebo-Controlled Trials Overall, there was no difference in the incidence of discontinuation due to adverse events between aripiprazole-treated (7%) and placebo-treated (9%) patients. The types of adverse events that led to discontinuation were similar between the aripiprazole- and placebo-treated patients.

#### Adverse Findings Observed in Short-Term, Placebo-Controlled Trials of Patients with Bipolar Mania The following findings are based on a pool of 3-week, placebo-controlled, bipolar mania trials in which aripiprazole was administered at doses of 15 or 30 mg/day.

Adverse Events Associated with Discontinuation of Treatment in Short-Term, Placebo-Controlled Trials

Overall, in patients with bipolar mania, there was no difference in the incidence of discontinuation due to adverse events between aripiprazole-treated (11%) and placebo-treated (9%) patients. The types of adverse events that led to discontinuation were similar between the aripiprazole and placebo-treated patie

#### Commonly Observed Adverse Events in Short-Term, Placebo-Controlled Trials of Patients with Bipolar Mania

Commonly observed adverse events associated with the use of aripiprazole in patients with bipolar mania (incidence of 5% or greater and aripiprazole incidence at least twice that for placebo) are shown in Table 1. There were no adverse events in the short-term trials of schizophrenia that met these criteria.

Table 1: Commonly Observed Adverse Events in Short-Term, Placebo-Controlled Trials of Patients with Bipolar Mania				
Percentage of Patients Reporting Event				
Adverse Event	Aripiprazole (n=597)	Placebo (n=436)		
Accidental Injury	6	3		
Constipation	13	6		
Akathisia	15	4	1.02	

Adverse Events Occurring at an Incidence of 2% or More Among Aripiprazole-Treated Patients and Greater than Placebo in Short-Term, Placebo-Controlled Trials

Table 2 enumerates the pooled incidence, rounded to the nearest percent, of treatment-emergent adverse events that occurred during acute therapy (up to 6 weeks in schizophrenia and up to 3 weeks in bipolar mania), including only those events that occurred in 2% or more of patients treated with aripiprazole (doses  $\ge 2 \operatorname{mg/day}$ ) and for which the incidence in patients treated with aripiprazole was greater than the incidence in patients treated with placebo in the combined dataset.

#### Table 2: Treatment-Emergent Adverse Events in Short-Term, Placebo-Controlled Trials

	Percentage of Patien		
Body System Adverse Event	Aripiprazole (n=1523)	Placebo (n=849)	
Body as a Whole			
Headache	31	26	
Asthenia	8	7	
Accidental Injury	5	4	
Peripheral Edema	2	1	
Cardiovascular System			
Hypertension	2	1	
Digestive System			
Nausea	16	12	
Dyspepsia	15	13	
Vomiting	11	6	
Constipation	11	7	
Musculoskeletal System			
Myalgia	4	3	
Nervous System			
Agitation	25	24	
Anxiety	20	17	
Insomnia	20	15	
Somnolence	12	8	
Akathisia	12	5	
Lightheadedness	11	8	
Extrapyramidal Syndrome	6	4	
Tremor	4	3	
Increased Salivation	3	1	
Respiratory System			
Pharyngitis	4	3	
Rhinitis	4	3	
Coughing	3	2	
Special Senses			12
Blurred Vision	3	1	

\* Events reported by at least 2% of patients treated with anipiprazole, except the following events, which had an incidence equal to or less than placebo: abdominal pain, back pain, dental pain, diarrhea, dry mouth, anorexia, psychosis, hypertonia, upper respiratory tract infection, rash, vaginitis', dysmenorrheat. Percentage based on gender total.

An examination of population subgroups did not reveal any clear evidence of differential adverse event incidence on the basis of age, gender, or race.

#### Dose-Belated Adverse Events Schizophrenia

Dose response relationships for the incidence of treatment-emergent adverse events were evaluated from four trials in patients with schizophrenia comparing various fixed doses (2, 10, 15, 20, and 30 mg/day) of aripiprazole to placebo. This analysis, stratified by study, indicated that the only adverse event to have a possible dose response relationship, and then most prominent only with 30 mg, was somnolence (placebo, 7.7%; 15 mg, 8.7%; 20 mg, 7.5%; 30 mg, 15.3%).

#### Extrapyramidal Symptoms

In the short-term, placebo-controlled trials of schizophrenia, the incidence of reported EPS for aripiprazoletreated patients was 6% vs. 6% for placebo. In the short-term, placebo-controlled trials in bipolar mania, the incidence of reported EPS-related events excluding events related to akathisia for aripiprazole-treated patients was 17% vs. 12% for placebo. In the short-term, placebo-controlled trials in bipolar mania, the incidence of

akathisia-related events for aripiprazole-treated patients was 15% vs. 4% for placebo. Objectively collected data from those trials was collected on the Simpson Angus Rating Scale (for EPS), the Barnes Akathisia Scale (for akathisia) and the Assessments of Involuntary Movement Scales (for dyskinesias). In the schizophrenia trials, the objectively collected data did not show a difference between aripiprazole and placebo, with the exception of bujectively contected bate during another a dimensioner between anotherazofe and placebo, with the exception for the Barnes Akathisia Scale (aripiprazole a.0.08; placebo, -0.05). In the biploar mania trials, the Simpson Angus Rating Scale and the Barnes Akathisia Scale showed a significant difference between aripiprazole and placebo (aripiprazole, 0.61; placebo, 0.03 and aripiprazole, 0.25; placebo, -0.06). Changes in the Assessments of Involuntary Movement Scales were similar for the aripiprazole and placebo groups.

Similarly, in a long-term (26-week), placebo-controlled trial of schizophrenia, objectively collected data on the Simpson Angus Rating Scale (for EPS), the Barnes Akathisia Scale (for akathisia), and the Assessments of Involuntary Movement Scales (for dyskinesias) did not show a difference between aripiprazole and placebo. Laboratory Test Abnormalities

A between group comparison for 3- to 6-week, placebo-controlled trials revealed no medically important differences between the aripiprazole and placebo groups in the proportions of patients experiencing potentially clinically significant changes in routine serum chemistry, hematology, or urinalysis parameters. Similarly, there were no aripiprazole/placebo differences in the incidence of discontinuations for changes in serum chemistry, hematology, or urinalysis.

In a long-term (26-week), placebo-controlled trial there were no medically important differences between the aripiprazole and placebo patients in the mean change from baseline in prolactin, fasting glucose, triglyceride, HDL, LDL, and total cholesterol measurements.

#### Weight Gain

In 4- to 6-week trials in schizophrenia, there was a slight difference in mean weight gain between aripiprazole and placebo patients (+0.7 kg vs. -0.05 kg, respectively), and also a difference in the proportion of patients meeting a weight gain criterion of ≥7% of body weight [aripiprazole (8%) compared to placebo (3%)]. In 3-week trials in mania, the mean weight gain for aripipracele and placebo patients was 0.0 kg vs. -0.2 kg, respectively. The proportion of patients meeting a weight gain criterion of ≥7% of body weight was aripipracele (3%) compared to placebo (2%).

Table 3 provides the weight change results from a long-term (26-week), placebo-controlled study of aripiprazole, both mean change from baseline and proportions of patients meeting a weight gain criterion of ≥7% of body weight relative to baseline, categorized by BMI at baseline:

#### Table 3: Weight Change Results Categorized by BMI at Baseline: Placebo-Controlled Study in Schizophrenia, Safety Sample

	BMI <23		BMI 23-27		BMI >27	
	Placebo	Aripiprazole	Placebo	Aripiprazole	Placebo	Aripiprazole
Mean change from baseline (kg)	-0.5	-0.5	-0.6	-1.3	-1.5	-2.1
% with ≥7% increase BW	3.7%	6.8%	4.2%	5.1%	4.1%	5.7%

Table 4 provides the weight change results from a long-term (52-week) study of aripiprazole, both mean change from baseline and proportions of patients meeting a weight gain criterion of ≥7% of body weight relative to baseline, categorized by BMI at baseline;

Table 4: Weight Change Results Categorized by BMI at Baseline: Active-Controlled Study in Schizophrenia, Safety Sample					
	BMI <23	BMI 23-27	BMI >27		
Mean change from baseline (kg)	2.6	1.4	-1.2		
% with ≥7% increase BW	30%	19%	8%		

ECG Changes

Between group comparisons for a pooled analysis of placebo-controlled trials in patients with schizophrenia or bipolar mania, revealed no significant differences between aripiprazole and placebo in the proportion of patients experiencing potentially important changes in ECG parameters. Aripiprazole was associated with a median increase in heart rate of 5 beats per minute compared to a 1 beat per minute increase among placebo patients.

#### Additional Findings Observed in Clinical Trials

Adverse Events in Long-Term, Double-Blind, Placebo-Controlled Trials

The adverse events in congregation, practo-controlled intrais comparing ABILIFY (aripiprazole) and placebo in patients with schizophrenia were generally consistent with those reported in the short-term, placebo-controlled trials, except for a higher incidence of tremor [9% (13/153) for ABILIFY vs. 1% (2/153) for placebo]. In this study, the majority of the cases of them the dense of a while [9/13 mills] and 4/13 moderate, occurred early in the rapy (9/13  $\leq$ 49 days), and were of limited duration (9/13  $\leq$ 10 days). Tremor infrequently led to discontinuation (<1%) of ABILIFY. In addition, in a long-term (52-week), active-controlled study, the incidence of tremor for ABILIFY was 4% (34/859). A similar adverse event profile was observed in a long-term study in bipolar disorder.

#### Other Adverse Events Observed During the Premarketing Evaluation of Aripiprazole

Following is a list of modified COSTART terms that reflect treatment-emergent adverse events as defined in the introduction to the **ADVERSE REACTIONS** section reported by patients treated with aripiprazole at multiple doses az mg/day during any phase of a trial within the database of 7951 patients. All reported events are included except those already listed in Table 2, or other parts of the **ADVERSE REACTIONS** section, those considered in the WARNINGS or PRECAUTIONS, those event terms which were so general as to be uninformative, events reported with an incidence of ≤0.05% and which did not have a substantial probability of being acutely lifethreatening, events that are otherwise common as background events, and events considered unlikely to be drug related. It is important to emphasize that, although the events reported occurred during treatment with aripiprazole, they were not necessarily caused by it.

Events are further categorized by body system and listed in order of decreasing frequency according to the following definitions: frequent adverse events are those occurring in at least 1/100 patients (only those not already listed in the tabulated results from placebo-controlled trials appear in this listing); infrequent adverse events are those occurring in 1/100 to 1/1000 patients; rare events are those occurring in fewer than 1/1000 patients

Body as a Whole: Frequent – flu syndrome, fever, chest pain, rigidity (including neck and extremity), neck pain, pelvic pain; Infrequent – face edema, suicide attempt, malaise, migraine, chills, photosensitivity, tightness

pain, johno pain, modelan – nado colona, solucios aconpci, matalos, matalos, matalos, material, totating, enlarged abdomen, chest (including abdomen, back, extremity, head, jaw, neck, and tongue), jaw pain, bioating, enlarged abdomen, chest tightness, throat pain, *Rare* – moniliasis, head heaviness, throat tightness, Mendelson's syndrome, heat stroke. *Cardiovascular System: Frequent* – tachycardia (including ventricular and supraventricular), hypotension, bradycardia; *Infrequent* – palpitation, hemorrhage, heart failure, myocardial infarction, cardiac arrest, atrial fibrillation. AV block, prolonged QT interval, extrasystoles, myocardial ischemia, deep vein thrombosis, angina pectoris, pallor, cardiopulmonary arrest, phlebitis; Rare - bundle branch block, atrial flutter, vasovagal reaction, cardiomegaly, thrombophlebitis, cardiopulmonary failure.

Digestive System: Frequent - nausea and vomiting; Infrequent - increased appetite, dysphagia, gastroenteritüs, flatulence, tooth caries, gastritis, gingivitis, gastrointestinal hemorrhage, hemorrhoids, gastro-esophageal reflux, periodontal abscess, fecal incontinence, rectal hemorrhage, stomatitis, colitis, tongue edema, cholecystitis, mouth ulcer, oral moniliasis, eructation, fecal impaction, cholelithiasis: Bare - esophaoitis, nematemesis, intestinal obstruction, gum hemorrhage, hepatitis, peptic ulcer, glossitis, melena, duodenal ulcer, cheilitis, hepatomegaly, pancreatitis.

Endocrine System: Infrequent – hypothyroidism; Rare – goiter, hyperthyroidism. Hemic/Lymphatic System: Frequent – ecchymosis, anemia; Infrequent – hypochromic anemia, leukocytosis, leukopenia (including neutropenia), lymphadenopathy, eosinophilia, macrocytic anemia; Rare – thrombo cythemia, thrombocytopenia, petechiae.

Metabolic and Nutritional Disorders: Frequent – weight loss, creatine phosphokinase increased, dehydration; Infrequent – edema, hyperglycemia, hypercholesteremia, hypokalemia, diabetes mellitus, hypoglycemia, hyperlipemia, SGPT increased, thirst, BUN increased, hyponatremia, SGOT increased, creatinine increased, cyanosis,

alkaline phosphatase increased, bilirubinemia, iron deficiency anemia, hyperkalemia, hyperuricemia, obesity; Rare -lactic dehydrogenase increased, hypernatremia, gout, hypoglycemic reaction. Musculoskeletal System: Frequent - muscle cramp; Infrequent - arthralgia, myasthenia, arthrosis, bone pain, arthritis, muscle weakness, spasm, bursitis, myopathy; Rare - rheumatoid arthritis, rhabdomyolysis, tendonitis, tenosynovitis.

Nervous System: Frequent - depression, nervousness, schizophrenic reaction, hallucination, hostility, confusion, paranoid reaction, suicidal thought, abnormal gait, manic reaction, delusions, abnormal dream; Infrequent -emotional lability, twitch, cogwheel rigidity, impaired concentration, dystonia, vasodilation, paresthesia, impotence, extremity tremor, hypesthesia, vertigo, stupor, bradykinesia, apathy, panic attack, decreased libido, hypersomnia, dyskinesia, manic depressive reaction, ataxia, visual hallucination, cerebrovascular accident, hypokinesia, depersonalization, impaired memory, delirium, dysarthria, tardive dyskinesia, amnesia, hyperactivity, increased libido, myoclonus, restless leg, neuropathy, dysphoria, hyperkinesia, cerebral ischemia, increased reflexes, akinesia, decreased consciousness, hyperesthesia, slowed thinking; *Rare* – blunted affect, euphoria, incoordination, oculogyric crisis, obsessive thought, hypotonia, buccoglossal syndrome, decreased reflexes,

derealization, intracranial hemorrhage. Respiratory System: Frequent – sinusitis, dyspnea, pneumonia, asthma; Infrequent – epistaxis, hiccup, laryngitis, aspiration pneumonia; Rare – pulmonary edema, increased sputum, pulmonary embolism, hypoxia, piratory failure, apnea, dry nasal passages, hemophysis. Skin and Appendages: Frequent – skin ulcer, sweating, dry skin; Infrequent – pruritus, vesiculobullous rash,

acne, eczema, skin discoloration, alopecia, seborrhea, psoriasis; Rare - maculopapular rash, exfoliative dermatitis, urticaria.

Special Senses: Frequent – conjunctivitis; Infrequent – ear pain, dry eye, eye pain, tinnitus, cataract, otitis media, altered taste, blepharitis, eye hemorrhage, deafness; Rare – diplopia, frequent blinking, ptosis, otitis Werterna, amblyopia, photophobia. Urogenital System: Frequent – urinary incontinence; Infrequent – urinary frequency, leukorrhea, urinary

retention, cystitis, hematuria, dysuria, amenorrhea, vaginal hemorrhage, abnormal ejaculation, kidney failure, vaginal moniliasis, urinary urgency, gynecomastia, kidney calculus, albuminuria, breast pain, urinary burning; Rare - nocturia, polyuria, menorrhagia, anorgasmy, glycosuria, cervicitis, uterus hemorrhage, female lactation, urolithiasis, priapism.

Other Events Observed During the Postmarketing Evaluation of Aripiprazole Voluntary reports of adverse events in patients taking aripiprazole that have been received since market introduction and not listed above that may have no causal relationship with the drug include rare occurrences of allergic reaction (e.g., anaphylactic reaction, angioedema, laryngospasm, pruritis, or urticaria).

#### DRUG ABUSE AND DEPENDENCE

**Controlled Substance** ABILIFY (aripiprazole) is not a controlled substance.

#### Abuse and Dependence

Aripiprazole has not been systematically studied in humans for its potential for abuse, tolerance, or physical dependence. In physical dependence studies in monkeys, withdrawal symptoms were observed upon abrupt cessation of dosing. While the clinical trials did not reveal any tendency for any drug-seeking behavior, these observations were not systematic and it is not possible to predict on the basis of this limited experience the extent to which a CNS-active drug will be misused, diverted, and/or abused once marketed. Consequently, patients should be evaluated carefully for a history of drug abuse, and such patients should be observed closely for signs of ABILIFY misuse or abuse (e.g., development of tolerance, increases in dose, drug-seeking behavior).

#### OVERDOSAGE

MedDRA terminology has been used to classify the adverse events.

#### Human Experience

A total of 76 cases of deliberate or accidental overdosage with aripiprazole have been reported worldwide. These include overdoses with aripiprazole alone and in combination with other substances. No fatality was reported from these cases. Of the 44 cases with known outcome, 33 recovered without sequelae and one recovered with sequelae (mydriasis and feeling abnormal). The largest known acute ingestion with a known outcome involved 1080 mg of aripiprazole (36 times the maximum recommended daily dose) in a patient who fully recovered. Included in the 76 cases are 10 cases of deliberate or accidental overdosage in children (age 12 and younger) involving aripiprazole ingestions up to 195 mg with no fatalities. Common adverse events (reported in at least 5% of all overdose cases) reported with aripiprazole overdosage

(alone or in combination with other substances) include voniting, somnolence, and tremor. Other clinically important signs and symptoms observed in one or more patients with arisiprazole overdoses (alone or with other substances) include acidosis, aggression, aspartate aminotransferase increased, atrial fibrillation, bradycardia, coma, confusional state, convulsion, blood creatine phosphokinase increased, depressed level of consciousness, hypertension, hypokalemia, hypotension, lethargy, loss of consciousness, QRS complex prolonged, QT prolonged, pneumonia aspiration, respiratory arrest, status epilepticus, and tachycardia.

Management of Overdosage No specific information is available on the treatment of overdose with aripiprazole. An electrocardiogram should be obtained in case of overdosage and, if OTc interval prolongation is present, cardiac monitoring should be insti-tuted. Otherwise, management of overdose should concentrate on supportive therapy, maintaining an adequate airway, oxygenation and ventilation, and management of symptoms. Close medical supervision and monitoring should continue until the patient recovers.

Should continue only the patient recovers. Charcoal: In the event of an overdose of ABILIFY, an early charcoal administration may be useful in partially preventing the absorption of an ipprazole. Administration of 50 g of activated charcoal, one hour after a single 15-mg oral dose of aripiprazole, decreased the mean AUC and C<sub>max</sub> of aripiprazole by 50%. Hemodialysis: Although there is no information on the effect of hemodialysis in treating an overdose with

aripiprazole, hemodialysis is unlikely to be useful in overdose management since aripiprazole is highly bound to plasma proteins

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**<u>BILOXI/PENSACOLA</u>** Outpatient Psychiatry positions. Expertise in substance abuse, geropsychiatry, and PTSD preferred. BE/BC psychiatrist, state license (any state), U.S. citizen or permanent resident. Send applications to Jean Williams, HRMS (05), 400 Veterans Avenue, Biloxi, MS 39531 or email **Jean.Williams4@med.va.gov**. Phone: 228-523-5633

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OKLAHOMA CITY General and specialty psychiatry for VA Medical Center and University of Oklahoma Health Sciences Center. BE/BC Assistant or Associate Professor levels. Includes teaching and supervision of med students, residents, and trainees. Salary is credentials and experienced based and generally \$90,000 to \$175,000 plus fringe and malpractice coverage. Send CV to Ann Davidson, Human Resources Specialist, VA Medical Center, 921 NE 13 Street, Oklahoma City, OK 73104. Additional information can be obtained from Emily Rosenberg, M.D., Ph.D., at (405) 270-5168.

#### Child & Adolescent Psychiatry Practice Opportunity

Excellent opportunity for a Board Certified or Board Eligible Child & Adolescent Psychiatrist to join Linden Oaks at Edward Hospital located in Naperville Illinois, just 35 miles west of downtown Chicago. Linden Oaks is a JCAHO accredited Behavioral Health facility affiliated with Edward, a community based hospital with a Medical Staff of over 800 members. Linden Oaks currently offers a specialized treatment in Child & Adolescence, eating disorders, chemical dependency services and self injury programs. Our Child Psychiatry Institute offers physicians the ability to practice in an on-site outpatient program and an acute care setting.

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## **Psychiatrist**

The VA Medical Center, White River Jct., VT is currently seeking an Addiction Psychiatrist to join our facility. The VAMC, White River Jct., VT is closely affiliated with Dartmouth Medical School. The successful candidate will serve as Director of Addiction Treatment Services at the White River Junction VA. Duties will include direct clinical care of patients with substance use disorders and co-occurring psychiatric and substance use disorders, administration of the Addiction Services and clinical supervision of the addiction clinical team including addiction therapists, addiction fellows, psvchiatry residents, and medical students. The candidate will also direct the Dartmouth Medical School Addiction Psychiatry Fellowship. Research opportunities are available and encouraged. Candidates should be Board Certified or eligible in Psychiatry. Experience and APA Added Qualifications in Addiction Psychiatry and/or ASAM certification are highly desired. Salary will be commensurate with experience. Successful incumbent must qualify for academic appointment at Dartmouth Medical School.

Send letter of interest, CV and references to Human Resources Management Service/05, VA Medical Center, 215 N. Main St., White River Jct., VT 05009, fax (802) 296-6350. Inquiries may be directed to: Vince Watts, MD, Chair, Search Committee Bradley.V.Watts@Dartmouth.edu. EOE.

## CLINICAL PSYCHIATRIST

\$78,485-\$129,868 DOQ plus stipend for Bd. Cert., and full City benes, including malpractice. Full time, no-weekends or on-call general adult psychiatrist to provide care to adults in outpatient. Requires: Licensed in VA to practice psychiatry and osteopathic medicine. Ability to diagnose, treat and advise on the treatment of patients with severe psycho pathology. Must pass preemployment Fed crim records check and child abuse/neglect registry. Prefer: Geriatric and substance abuse experience and bilingual (Eng/Span) skills. REF#MNH-6-1559. For more information and to apply, visit www.alexandriava.gov or call 703-838-4485.

The City of Alexandria, VA presents a dynamic and diverse environment with a rich architectural, and cultural history. The City employs approximately 2,300 regular, fulltime employees and approximately 700 parttime and temporary employees to assist with administering government services. The City offers generous benefits packages and competitive salaries. Visit www.alexandriava.gov for more information on our position openings and benefits. EOE/AA

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## National Institute of Mental Health

Department of Health and Human Services National Institute of Mental Health Director, Division of Pediatric Translational Research and Treatment Development

The National Institute of Mental Health, a major research component of the National Institutes of Health (NIH) and the Department of Health and Human Services (DHHS), is seeking exceptional candidates for the position of Director, Division of Pediatric Translational Research and Treatment Development (DPTR). This position provides overall scientific, programmatic, and administrative leadership for an extramural grants and contracts portfolio of approximately \$138 million and manages a staff of 22 individuals (http://www.nimh.nih.gov/dptr/dptr.cfm). The DPTR Director is responsible for developing a vision for research and training to bridge basic science into a better understanding of pediatric psychopathology from a developmental perspective, resulting in the discovery of novel treatment and prevention strategies. The Director should also have a keen appreciation for developing a grants and contracts portfolio that guides the national agenda for research on mental illnesses in children.

Applicants must possess an M.D. with a specialty in psychiatry or pediatrics and/or a Ph.D. in neuroscience, psychology, or related discipline with broad senior-level research experience and experience in direct administration of a research program. Applicants should be known and respected within their profession, both nationally and internationally, as distinguished individuals of outstanding scientific competence. Salary is commensurate with experience and accomplishments.

Interested candidates should send a letter of interest, including a brief description of research experience, contact information for at least three references, and a curriculum vitae and bibliography to: Dr. Daniel Pine, Chair, Search Committee for Director, DPTR at NIMHsearch@mail.nih.gov or at 6001 Executive Blvd. Room 8235, MSC 9669, Bethesda, MD 20893 (Rockville, MD 20852 for express or courier service). Review of applications will begin on August 15, 2006, but applications will continue to be accepted and considered until the position is filled.



The NIH encourages the application and nomination of qualified women, minorities, and individuals with disabilities. HHS and NIH are Equal Opportunity Employers



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#### VENLAFAXINE HCI EFFEXOR XR® Entrope Consultation (Consultation)

BRIEF SUMMARY. See package insert for full prescribing information.

Suicidality in Children and Adolescents

Antidepressants increased the risk of suicidal thinking and behavior (suicidality) in short-term studies in children and adolescents with Major Depressive Disorder (MDD) and other psychiatric disorders. Anyone considering the use of EFFEXOR XR or any other antidepressant in a child or adolescent must balance this risk with the clinical need. Patients who are started on therapy should be observed closely for clinical worsening, suicidality, or unusual changes in behavior. Families and caregivers should be advised of the need for close observation and communication with the prescripter. EFFEXOR XR is not approved for use in pediatric patients. (See Warnings and Precautions: Pediatric Use.)

Pooled analyses of short-term (4 to 16 weeks) placebo-controlled trials of 9 antidepressant drugs (SSRIs and others) in children and adolescents with Major Depressive Disorder (MDD), obsessivecompulsive disorder (OCD), or other psychiatric disorders (a total of 24 trials involving over 4,400 patients) have revealed a greater risk of adverse events representing suicidal thinking or behavior (suicidality) during the first few months of treatment in those receiving antidepressants. The average risk of such events in patients receiving antidepressants was 4%, twice the placebo risk of 2%. No suicides occurred in these trials.

CONTRAINDICATIONS: Hypersensitivity to venlafaxine hydrochloride or to any excipients in the formulation. Concomitant use in patients taking monoamine oxidase inhibitors (MAOIs). WARNINGS: Clinical Worsening and Suicide Risk— Patients with major depressive disorder (MDD), both adult and pediatric, may experience and Suicide Risk— Patients with major depressive disorder (MDD), both adult and pediatric, may experience worsening of their depression and/or the emergence of suicidal ideation and behavior (suicidality) or unusual changes in behavior, whether or not they are taking antidepressant medications, and this risk may persist until significant remission occurs. There has been a long-standing concern that antidepressants may have a role in inducing worsening of depression and the emergence of suicidality in certain patients. Antidepressants increased the risk of suicidal thinking and behavior (suicidality) in short-term studies in children and adolescents with MDD and other psychiatric disorders. It is unknown whether the suicidality risk in pediatric patients extends to longer-term use, i.e., beyond several months. It is also unknown whether the suicidality risk extends to adults. All pediatric patients being treated with antidepressants for any indiciation should a observed cleapely for clinical worsening suicidality and unusual changes in behavior expected. risk extends to adults. All pediatric patients being treated with antidepressants for any indication should be observed closely for clinical worsening, suicidality, and unusual changes in behavior, especially during the initial few months of a course of drug therapy, or at times of dose changes, either increases or decreases. Adults with MDD or comorbid depression in the setting of other psychiatric illness being treated with antidepressants should be observed similarly for clinical worsening and suicidality, especially during the initial few months of a course of drug therapy, or at times of dose changes, either increases or decreases. Anxiety, agitation, panic attacks, insominia, irritability, hostility, aggressiveness, impulsivity, akathisia (psychomotor restlessness), hypomania, and mania have been reported in adult and pediatric patients being treated with antidepressants for MDD and other indications, both psychiatic and depression and/or the emergence of suicidality. Consideration should be overn that such symptoms and either the every of suicidal impulses has not been established, there is concern that such depression and/or the emergence of suicidal impulses has not been established, there is concern that such symptoms may represent precursors to emerging suicidality. Consideration should be given to changing the therapeutic regimen, including possibly discontinuing the medication, in patients whose depression is persistently worse, or who are experiencing emergent suicidality or symptoms that might be precursors to worsening depression or suicidality, especially if these symptoms are severe, abrupt in onset, or were not part of the patient's presenting symptoms. If the decision has been made to discontinue treatment, medication should be tapened, as rapidly as is feasible, but with recognition that abrupt discontinuation can be associated with certain symptoms (see **PRECAUTIONS and DOSAGE AND ADMINISTRATION). Families and caregivers** if and individe the theted with estidence for UDD. with certain symptoms (see PRECAUTIONS and DOSAGE AND ADMINISTRATION). Families and caregivers of pediatric patients being treated with antidepressants for MDD or other indications, both psychiatric, and nonpsychiatric, should be alerted about the need to monitor patients for the emergence of agitation, irritability, unusual changes in behavior, and the other symptoms described above, as well as the emergence of suicidality, and to report such symptoms immediately to health care providers. Such monitoring should include daily observation by families and caregivers. Prescriptions for Effexor XR should be written for the smallest quantity of capsules consistent with good patient management, in order to reduce the risk of overdose. Families and caregivers of adults being treated for depression should be similarly advised. Screening Patients for Bipolar Disorder: A major depressive episode may be the initial presentation of bipolar disorder. It is generally believed that treating such an episode with an antidepressant alone may increase the likelihood of precipitation of a mixed/manic episode in patients at risk for bipolar disorder. Whether any of the symptoms described above represent such a conversion is unknown. Prior to initiating antidepressant treatment, patients with depressive symptoms should be screened to delermine if they are at risk for bipolar disorder; such screening should include a detailed psychiatric history, including a family history of suicide, bipolar disorder, and depression. Adverse reactions, some seen reported in patients of suicide, bipolar disorder, and depression. Effexor XR is not approved for use in treating bipolar depression. Potential for Interaction with MAOIs—Adverse reactions, some serious, have been reported in patients who recently discontinued an MAOI and started on venlafaxine, or who recently discontinued venlafaxine prior to initiation of an MAOI. These reactions, included tremor, myoclonus, diaphoresis, nausea, vomiting, flushing, dizziness, hyperthermia with features resembling neuroleptic malignant syndrome, seizures, and death. Effexor XR should not be used in combination with an MAOI, or within at least 14 days of discontinuing treatment with an MAOI. At least 7 days should be allowed after stopping venlafaxine before starting an MAOI. Serotonin Syndrome—The development of potentially life-threatening serotonin syndrome may occur with Effexor XR treatment, particularly with (i) concomitant use of serotonergic drugs and (ii) with drugs that impair metabolism of serotonin (see CONTRAINDICATIONS—MAOIs). If concomitant treatment of Effexor XR with an SSRI, SNRI, or a 5-hydroxytryptamine receptor agoint (triptan) is clinically warranted, careful observation of the patient is advised, particularly during treatment initiation and dose increases. The concomitant use of Effexor XR with serotonin precursors (such as tryptophan supplements) is not recommended. Sustained Hypertension—Venlafaxine is associated with sustained increases in blood pressure [BP] Increases. The concomitant use of Effexor XR with serotonin precursors (such as typtophan supplements) is not recommended. Sustained Hypertension—Venafaxine is associated with sustained increases in blood pressure (BP) in some patients. Postmarketing cases of elevated BP requiring immediate treatment have been reported. Pre-existing hypertension should be controlled. Regular monitoring of BP is recommended. For patients experiencing sustained increase in BP, consider either dose reduction or discontinuation. *Mydriasis*: Mydriasis has been reported; monitor patients with raised intraacular pressure or at risk of acute narrow-angle glaucoma (angle-closure glaucoma). **PRECAUTIONS. General**—Discontinuation of Treatment with Effexor XR. Abrupt discontinuation or dose reduction of venlataxine at various doses is associated with new symptoms; the frequency of which increased with increased dose level and longer duration of treatment. Kymptoms include agitation, anorexia, anxiety, confusion, coordination impained, diarrhea, dizziness, dry mouth, dysphoric mood, emotional lability, fasciculation, fatigue, headaches, hypomania, insomia, intribulity, lethargur, nausea, nervoursens, ingl/marres, seizures, sensory disturbances (e.g., paresthesias such as electric shock sensations), somnolence, sweating, tinnitus, tremor, vertigo, and vorniting. Monitor patients when discontinuing treatment. A gradual reduction in the dose or upon discontinuation of treatment, consider resuming the previously prescribed dose. Subsequently, confusie doreas have been reported. In Phase 3 trials, insomnia led to drug discontinuation 1% obti depressed patients and Paric Discorder (PD) patients. **Changes in Weight**. Adult Patients. In short-term MDD trials, 7% of Effexor XR patients had 25% loss of body weight and 0.9% discontinued for weight loss. In 3-week SAD trials, 3% of Effexor XR patients had 25% loss of body weight, and 0.9% discontinue for weight loss. In 3-week SAD trials, SM of Effexor XR patients had 25% loss of body and convolution of the patients discontinued for weight loss. In 12-weeka, D of Clickol An patients Intal ≥ 7% loss of body weight and no patients discontinued for weight loss. In 12-weeka, D of Clickol An patients Intal ≥ 7% loss of body weight, and no patients discontinued for weight loss. In 12-weeka, D of Clickol An patients Intal ≥ 7% loss of body weight and no patients discontinued for weight loss. In 12-weeka, D of Clickol An patients Intal ≥ 7% loss of body weight and no patients discontinued for weight loss. In 12-weeka, D of Clickol An patients and ≥ 7% loss of body weight loss agents, including phentermine, have not been established. Cadoministration of Effexor XR and weight loss agents is not recommended. Effexor XR is not indicated for weight loss alone or in combination with other products. **Pediatric Patients:** Weight loss of at least 3.5% in both MDD and GAD studies (18% of Effexor XR patients vs. 3.6% of placetop patients, P<0.001) and the SAD study (47% of Effexor XR patients vs. 3.6% of placetop patients, P<0.001) and the SAD study (47% of Effexor XR patients vs. 3.6% of placetop patients, P<0.001) and the SAD study (47% of Effexor XR patients and ≥ 7% weight loss was not innited to patients with treatment–mergent anorexia (decreased appetite). Children and adolescents in a 6-month MDD study had increases in weight less than expected based on data from age- and sex-matched peers. The difference detween observed and expected mergenge of 1.0 cm (n=132), patients grew an average of 0.2 cm (n=124), while placebo patients grew an average of 0.2 cm (n=146), while placebo patients grew an average of 0.2 cm (n=147), while the Effexor XR (n=109) and the placebo controled exe-matched peers. The difference between observed and expected control neural set age and sex-matched peers. The difference between observed and expected provering that expected based on data from age-and sex-matched peers. The difference between observed and expected provering the set asemated peers. The difference between observed

Therews in SAD studies. Treatment-emergent anorexia was more commonly reported for Effector XR (2%) than placebo (2%) patients in SAD studies. The discontinuation rate for anorexia was 0.4% for up to 12 weeks in SAD studies. The discontinuation rate for anorexia was 0.4% for up to 12 weeks in SAD studies. The discontinuation rate for anorexia was 0.4% for up to 12 weeks in SAD studies. The discontinuation rate for anorexia was 0.4% for up to 12 weeks in SAD studies. The discontinuation rate for anorexia was 0.4% for up to 12 weeks patients in SAD studies. The discontinuation rate for anorexia was 0.4% for up to 12 weeks patients in Databaset 0.4% for up to 12 weeks patients in Databaset 0.4% for up to 140 weeks and 3% of placebo patients had treatment-emergent anorexia. None of the patients receiving Effector XR discontinuation rates for anorexia were 0.7% and 0.0% for patients receiving Effector XR and placebo. Controlled trial for SAD, 22% and 3% of patients aged 6-17 treated for up to 16 weeks with Effector XR and placebo. Controlled trial for SAD, 22% and 3% of patients aged 8-17 treated for up to 16 weeks with Effector XR and placebo. Controlled trial for SAD, 22% and 3% of patients aged 8-17 treated for up to 16 weeks with the fields of anorexia were 0.7% and 0.0% for patients receiving Effector XR and placebo, respectively, reported treatment-emergent anorexia (decreased appetite). The discontinuation rates for anorexia were 0.7% and 0.0% for patients receiving Effector XR and placebo, respectively, reported treatment diher feet maintark typonatemia. Hyponatemia Anorexia, Hyponatemia et and/or the syndrome of inappropriate antidiuretic hormone secretion (SIADH) may occur with venifaxine. Consider this in patients who are volume-depleted, elderly, or taking diuretics. Seizures. In all premarketing depression trials with a story of seizures. Discontinue in any patient who develops seizures. Abnormal Bleeding: Abnormal bleeding intras commonly ecchymosis has been reported. Serum Cholesterol Leval ability. C Use Effexor XR cautiously in patients with diseases or conditions that could affect hemodynamic responses or metabolism. Venlafaxine has not been evaluated in patients with recent history of MI or unstable heard disease. Increases in O' Interval (Or) have been reported in clinical studies. Exercise caution in patients whose underlying medical conditions might be compromised by increases in heart rate. In patients with renal impairment or cirrhosis of medical conditions might be compromised by increases in hear rate. In patients with renal impairment or crirhosis of the liver, the clearances of ventafaxine and its active metabolities were decreased, prolonging the elimination half-lives. A lower dose may be necessary, use with caution in such patients. Information for Patients—Prescribers or other health professionals should inform patients, their framilies, and their caregivers about the benefits and risks associated with treatment with Effexor XR and should ocunsel them in its appropriate use. A patient Medication Guide About Using Antidepressants in Children and Teeragers is available for Effexor XR. The prescriber or health professional should instruct patients, their families, and their caregivers to read the Medication Guide about Using and to obtain answers to any questions they may have. The complete text of the Medication Guide is available at <u>www.effexorx.com</u> or in the approved prescribing information. Patients should be advised of the following issues and exect to last their carecriber (these core with the targer Werry VR) Chines diversed mediation Guide Receiver Beither exected and solution Guide Prescribing information. Patients should be advised of the following issues and www.effexory.com or in the approved prescribing information. Patients should be advised of the following issues and should be advised of the following the should be advised by the should be advised by the should bead by the should be advised by the should <u>International construction</u> and approve presenting including the large present and an approve presenting search and a standard or any structure of the presention of these occur while taking Effective AR clinical Worsening and Suicide Risk Patients, their families, and their caregivers should be encouraged to be alert to the emergence of symptoms listed in WARNINGS: Clinical Worsening and Suicide Risk, especially those sense rary during antidegressant treatment and when the dose is adjusted up or down. Families and caregivers of patients should be advised to observe for the source of the sense. when the dose is adjusted up or down. Families and caregivers of patients should be advised to observe for the emergence of such symptoms on a day-to-day basis, since changes may be abrupt. Such symptoms should be reported to the patient's presenting symptoms. Symptoms such as these may be associated with an increased risk for sucidal thinking and behavior and indicate a need for very close monitoring and possibly changes in the medication. Caution patients 1) about operating hazardous machinery, including automobiles, until they are reasonably sure that venidatame does not adversely affect their abilities; 2) to avoid alcohol while taking Effexor XR; and 3 about the risk of serotonin syndrome with the concomitant use of Effexor XR and triptans, tranadol, tryptophan supplements, or other serotonin syndrome with the concomitant use of Effexor XR and triptans, tranadol, they bonn supplements, or other serotonin syndrome with the concomitant use of Effexor XR and triptans, tranadol, they tophan supplements, or other serotonergic agents. Patients should be advised to notify their physician 1) if they become pregnant or intended to become pregnant during therapy, or if they are nursing; 2) about other prescription or over-the-counter drugs, including herbal preparations and nutritional supplements they are taking or plan to take; 3) if they develop a rash, hives, or related allergic phenomena; or 4) if they have a history of glaucoma or increased intraccular pressure. Laboratory tests are ecommended. **Drug Interactions** — **Alcohori**. A single does of ethanol had no effect on the pharmacokinetics (PK) of venifatixine or O-desmethylvenlafaxine (DDV), and venifatixine did no resugerate the psychomotor and psychometric effects induced by ethanol. **Cimetidine**: Use caution when administering venifaxine with cimetidine to patients with pre-existing hypertension or hepatic dysfurction, and the iderly. **Diazeparn**. A single by contract and by contract of curves induced by catalons **Contractions**. Concerning the contract and by contracting the contract of the contr dose of diazepam dit not appear to affect the PK of either venlafaxine or DDV. Venlafaxine did not have any effect on the PK of diazepam or. Brackersen or its active metabolite, desmethyldiazepam, or affect the psychometric effects induced by diazepam. *Haloperidol*. Venlafaxine decreased total oral-dose clearance of haloperidol. Fuel time of the soft of the psychometric effects induced by diazepam. *Haloperidol* Usenia faxine decreased total oral-dose clearance of haloperidol. Fuel time of the psychometric effects induced by diazepam. *Haloperidol* Usenia faxine decreased 88%, but the haloperidol elimination half-life was unchanged. *Lithium*: A single dose of lithium did not appear to affect the PK of either venlafaxine or ODV. Venlafaxine is not highly bound to plasma proteins: Coadministration of Effexor XR with a highly protein-bound drug should not cause increased free concentrations of the other drug. *Drugs That Inhibit Cytochrome P450 Issenzymes*: CYP206 inhibitors: Venlafaxine is metabolite, DV, by CYP206. Drugs inhibiting this issenzyme have the potential to increase plasma concentrations of venlafaxine and decrease concentrations of DV. No dosage adjustment is required when venlafaxine is coadministred with a CYP2D6 inhibitor. Concomitant use of venlafaxine is an otheen studied. Use caution if therapy includes venlafaxine and any agent(s) that produces simultaneous inhibition of these two enzyme systems. *Drugs Metabolized by Cytochrome P450 Issenzymes*. Venlafaxine is a relatively weak inhibitor of CYP2D6. Herd Not CyP2D6 indication concomitant use and Cym. Bryestrione: Venlafaxine and CYP3A4, the primary metabolizing enzymes the relative is metabolite, e0V = 35% in the presence of venlafaxine. The 2-OH-designamine AUC\_GNP2D6-mediated metabolitism of a 35% in the presence of venlafaxine. The 2-OH-designamine AUC\_GNP2D6-mediated metabolitism of a 35% in the rease in higheridone. Venlafaxine and OV. Kipperidone. Venlafaxine is a relatively weak inhibitor of significantly alter the PK fornile of the t Verlafaxine did not inhibit the metabolism of diazepam, which is partially metabolized by CVP2C19 (see *Diazepam* above). *MADIs*. See CONTRAINDICATIONS and WARNINGS. *CNS-Active Drugs*: Use caution with concomitant use of venlafaxine and other CNS-active drugs. Serotonergic Drugs and Triptans (see WARNINGS: Serotonin Syndrome): Based on the mechanism of action of Effexor XR and the potential for serotonin syndrome, caution is of veniataxine and other CNS-active drugs. Serotomergic Drugs and Triptans (see WARNINGS: Serotomin Syndrome): Based on the mechanism of action of Effexor XR and the potential for serotonin syndrome, caution is advised when Effexor XR is coadministered with other drugs that may affect the serotonergic neutransmitter systems, such as triptans, SSHS, other SNHS, linezoidi, Iltimum, tramadol, or SL. John's wort. If concomitant treatment of Effexor XR with these drugs is clinically warranted, careful observation of the patient is advised, particularly during treatment initiation and dose increases. The concomitant use of Effexor XR with trytophan supplements is not recommended. Electroconvulsive Therapy (ECT): There are no clinical data establishing the benefit of ECT combined with Effexor XR treatment. Carcinogenesis, Mutagenesis, Impairment of Fertility — Carcinogenesis: There was no increase in tumors in mice and rats given up to 1.7 times the maximum recommended human dose (MRHD) on a mg/m<sup>5</sup> basis. Mutagenesis. Venkataxine and ODV were not mutagenic in the Ames reverse mutation assay increase in tumors in mice and rats given up to 1.7 times the maximum recommended human dose (MRHD) on a mg/m<sup>5</sup> basis. Mutagenesis. Venkataxine and ODV were not mutagenic in the Ames reverse mutation assay in alt MRHD on a mg/m<sup>5</sup> basis. Programacy—Teratogenic Effects—Pregnancy Category C. Reproduction studies in rats given 2.5 times, and rabits given 4 times the MRHD (mg/m<sup>5</sup> basis) revealed no matiomations in pups, and an increase in pup deaths during the first 5 days of lactation when dosing began during pregnancy worthed lactor dubers of the first have developed complications requiring prolonged hospitalization, respiratory support, and tube feeding regnancy only if clearly needed. Monteratogenic Effects. Neonates exposed to Effexor XR late in the third trimester have developed complications requiring prolonged hospitalization, respiratory distres, caynosis, apnea, seizures, temperature instability, actoriant crying. This is jitteriness, intrability, and constant crying. This is consistent with a direct toxic effect of SNMS or a drug discontinuation syndrome. In some cases, it is consistent with serotion syndrome. When treating a pregnant woman with Effexor XR during the third trimester, carefully consider the potential risks and benefits of treatment and consider tapering Effexor XR in the third trimester. **Labor, Delivery, Nursing**—The effect on labor and delivery in humans is unknown. Venfatzine and ODV have been reported to be excreted in human milk. Because of the potential for serious adverse reactions in nursing infants from Effexor XR, a decision should be made whether to discontinue to discontinue the drug, taking into account the importance of the drug to the mother. **Pediatric Use**—Safety and effectiveness in the pediatric population have not been established (see **BOX WARNING** and **WARNINGS: Clinical Worsening and Suicide Risk)**. No studies have adequately assessed the impact of Effexor XR or growth, and indepit (see **PRECAUTIONS-General**, *Changes in Height* and *Changes in Weight*). Should the decision be made to read a pediatric patient with Fifterox XR, regular monitoring of weight and height is expressed for chronic treatment > mortical apidiatic patient. The safety of Effexor XR for pediatric patients has not been assessed for chronic treatment > months. In studies in patients aged 6-17, blood pressure and cholesterol increases considered to be clinically relevant

studies. The discontinuation rate for anorexia was 1.0% in MDD studies. Treatment-emergent anorexia was more commonly reported for Effexor XR (8%) than placebo (2%) patients in GAD studies. The discontinuation rate for anorexia was 0.9% for up to 8 weeks in GAD studies. Treatment-emergent anorexia was more commonly reported for Effexor XR (20%) than placebo (2%) patients in SAD studies. The discontinuation rate for anorexia, was 0.4% for up to

were similar to that observed in adult patients. The precautions for adults apply to pediatric patients. Geriatric Use—No overall differences in effectiveness or safety were observed between geriatric and younger patients. Greater sensitivity of some older individuals cannot be ruled out. Hyponatremia and SADH have been reported, usually in the elderly. ADVERSE REACTIONS: Associated with Discontinuation of Treatment—The most common events leading to discontinuation of NDDS. Associated with Discontinuation of Treatment—The most common events leading to discontinuation of NDDS. Associated with Discontinuation of Treatment—The most common events leading to discontinuation of NDDS. Associated with Discontinuation of Treatment—The most common events leading to discontinuation of weating. Commonly Observed Adverse Events in Controlled Clinical Trials for MDD, GAD, SAD, and PD—Body as a Whole: asthenia, headache, flu syndrome, accidental injury, abdominal pain. Cardiovascular vasodilatation. Metabalc/Nutritional: weight loss. Nervous System: dizziness, somnolence, insomnia, flatenea, cardiarte, agreation. Metabalc/Nutritional: weight loss. Nervous System: dizziness, abordine, agreation, and yot, butter devices, weating, the Repiratory System: pharynally listo decreased, agriation, amotely, twicthing: Respiratory System: pharynality, syawn, sinustits. Skin: constpation, anorexia, vorniting, itatulence, diarritea, eructation. <u>Metabolic/Nurfinonai</u>: weight loss. <u>Nervous System</u>: diziness, somolence, insomia, dr mouth, nervousness, ahonrani dreams, tremor, depression, hypertonia, paresthesia, libido decreased, agitation, anxiety, twitching. <u>Respiratory System</u>: pharyngitis, yawn, sinusitis. <u>Skin</u>: sweating. <u>Special Senses</u>: abnormal vision. <u>Urogential System</u>: abnormal ejaculation, impotence, orgasmic dystunction (including anorgasmia) in females. *Vital Sign Changes*: Effexor XR was associated with a mean increase in pulse rate of about 2 beats/min in depression and GAD trials and a mean increase in pulse rate of 4 beats/min in SAD trials. (See WARNINGS: Sustained Hypertension). Laboratory Changes: Clinically relevant increases in serum cholesterol were noted in Effexor XR clinical trials. Increases were duration dependent over the study period and tended to be greater with higher doses. *Other Events Observed During the Premarketing Evaluation of Effexor and Effexor XR*—N=6,670. "Frequent" =events occurring in at least 1/100 patients, "infrequent" =1/100 t 1/000 patients, "rare" =fewer than 1/1000 patients. <u>Body as a whole</u> - Frequent chest pain substemal, chilis, fever, neck pain, Infrequent: face edema, intentional injury, malaise, moniliasis, neck rigidity, pelvic pain, photosensitivity reaction, suicide attempt, withdrawal syndrome; Rare: appendicitis, bacteremia, carcinoma, cellulitis, Eardiovascult system - Frequent: Imgriane, postural hypotension, tachycardia; Infrequent fangina pectoris, arrhythmia, extrasystoles, hypotension, peripheral vascular disorder (mainly cold feet and/or cold hands), syncope, radiovascular disorder (mitral valve and circulatory disturbance), mucocutaneous hemorrhage, myocardial infract, pallor, sinus arrhythmia, <u>Bigestive system</u> - Frequent: Increased appetite, Infrequent tangina, pectoria, arrhythmia, exdiovascular disorder (mitral valve and circulatory disturbance), mucocutaneous hemorrhage, myocardial infract, pallor, si brigte eueria, esopringius, gasums, gasumentens, gasumentens, gasumentens, gursums, gursumentens, bilary pain, cheilitis, cholecystitis, choleithiasis, esophageal spasms, duodenitis, hematemesis, gastroesophageal reflux disease, gastrointestitis, periodontitis, proctitis, rectal disorder, salivary gland enlargement, increased salivation, ost toxols, tongue discoloration. Endocrine system – Rere: abaophila, bleeding time increased, cyanosis, eosimophila, lymphadenopathy, thromborythemia; Rare: basophila; bleeding time increased, cyanosis, eosimophila; lymphadenopathy, thromborythemia; Rare: basophila; bleeding time increased, cyanosis, eosimophila; lymphadenopathy, thromborythemia; Rare: basophila; bleeding time increased, cyanosis, eosimophila; lympohocytosis, multiple myeloma, purpura, thromborytopenia, <u>Metabolic and nutritional</u> - Frequent edama, weight gain; Infrequent: alkaline increased, defryitation, hypercholestermia, hypergiycemia, hyperipemia, hypophosphatemia, hypoproteinemia, uremia. <u>Musculoskeletal system</u> - Frequent attributinemia, BUN increased, creatinine increased, diabetes melitikus, glycosuria, gout, healing abnormal, hemochromatosis, hypercalcinica, hyperkalemia, hyperprosphatemia, hyperprosphatemia, hypophosphatemia, hypophosphatemia, hypophosphatemia, hypophosphatemia, hypophosphatemia, hypophosphatemia, hypophosphatemia, hypophosphatemia, hullucinationo, hypesthesia, thinking abnormal, tismus, vertigo, infrequent akathisa, apathy, ataxa, circumoral paretisa, hypophosia, incoordination, manic reaction, myocionus, neuragia, neuropathy, psychosis, seizure, abnormal speech, stupor, suicidal ideation, Rare: abnormal/tismus, vertigo, infrequent akathisa, apathy, ataxa, circumoral paretisa, hypophosia, indytrina, hypokesia, hystera, inquise control disorder, sakinesia, alcohol abuse, aphasia, bradykinesia, buccoglossal syndrome, ceretrovascular accident, feeling druh, loss of consolusness, delusions, dementia, dystonia, energy increased, data paralysis, abnormal ageace - frequent purifus, hrady events (including a case of a 10-year-old who may have been taking methylphenidate, was treated and recovered), neutropenia, night sweats, pancreatitis, pancytopenia, panic, prolactin increased, renal failure, rhabdomyolysis, serotonin syndrome, shock-like electrical sensations or tinnitus (in some cases, subsequent to the discontinuation of venifaxine or tapering of dose), and SIADH (usually in the elderly). Elevated clozapine levels that were temporally associated with adverse events, including seizures, have been reported following the addition of venifaxine. Increases in prothormbin time, partial thromboplastin time, or INR have been reported divoling the addition of venifaxine. Increases on warfarin therapy. **DRUG ABUSE AND DEPENDENCE:** Effexor XR is not a controlled substance. Evaluate patients carefully for history of drug abuse and observe such patients closely for signs of misuse or abuse. **OVERDOSAGE:** Electrocardiogram changes (e.g., prolongation of QT interval, bundle branch block, QRS prolongation), sinus and venting intervariation throwardia brownersion, altered level of consolisousses (ranning mm sompolence the coma) Electrocardiogram changes (e.g., prolongation of QT interval, bundle march block, QRS prolongation), sinus and ventricular tachycardia, bradycardia, hypotension, altered level of consciousness (ranging from somnelence to coma), inabdomyolysis, seizures, vertigo, liver necrosis, and death have been reported. Treatment should consist of those general measures employed in the management of overdosage with any antidepressant. Ensure an adequate airway, oxygenation and ventilation. Monitor cardiac rhythm and vital signs. General supportive and symptomatic measures are also recommended. Induction of emesis is not recommended. Gastric lavage with a large bore orogastric tube with appropriate airway protection, if needed, may be indicated if performed soon after ingestion or in symptomatic patients. Activated charcoal should be administered. Due to the large volume of distribution of this drug, forced diuresis, daiysis, hemoperfusion, and exchange transfusion are unlikely to be of benefit. No specific antibotes for ventafaxine are known. In managing overdosage, consider the possibility of multiple drug involvement. Consider contacting a poison control center for additional information on the treatment of overdose. Telephone numbers for cortified poisol acontorio for theres are listed in the Physicians' Desk Reference? (POR). DOSAE AND ADMINISTRATION: Consult full prescribing information for dosing instructions. **Switching Patients to or From an MADI**—At least 14 days should elapse between discontinuation of an MAOI and initiation of therapy with Effevor XR. At least 7 days should be allowed after stopping Effevor XR Prescribing Information W10404C024, revised June 2006.

## Take a closer look at Dialogues Time to Talk

## Diglogues

is a unique patient support and education program that is designed to help you foster successful therapy

## Dialogues

offers patients access to a call center to speak with a health care provider for patient support and education to reinforce your efforts

## Dig/ogues

supplies feedback and updates about these patient calls to you, their physician

Encourage your **EFFEXOR XR** patients to enroll in *Dialogues* by calling 866-313-3737 — and you can visit **mddpatientsupport.com** 

 The most common adverse events reported in EFFEXOR XR short-term placebo-controlled depression, generalized anxiety disorder (GAD), social anxiety disorder (SAD), and/or panic disorder (PD) trials (incidence ≥10% and ≥2x that of placebo) were anorexia, asthenia, constipation, dizziness, dry mouth, ejaculation problems, impotence, insomnia, nausea, nervousness, somnolence, and sweating.



## The change they deserve.

References: 1. Data on file, Wyeth Pharmaceuticals Inc. 2. Effexor XR<sup>®</sup> (venlafaxine HCI) Extended-Release and Effexor Immediate-Release Prescribing Information, Wyeth Pharmaceuticals Inc.

Please see brief summary of Prescribing Information on adjacent pages.



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