

BRIFF SUMMARY

INDICATIONS AND USAGE UDISTA is indicated for the treatment of insomnia. In controlled outpatient and sleep laboratory studies, LUNESTA administered at bedtime decreased sleep latency and improved sleep maintenance.

CONTRAINDICATIONS

None know WARNINGS

WARNINGS Because sleep disturbances may be the presenting manifestation of a physical and/or psychiatric disorder, symptomatic treatment of insomnia should be initiated only after a careful evaluation of the patient. The failure of insomnia to remit after 7 to 10 days of treatment may indicate the presence of a primary psychiatric and/or medical liness that should be evaluated. Worsening of insomalia or the emergence of new thinking or behavior abnormalities may be the consequence of a unnecognized psy-chiatric or physical disorder. Such findings have emerged during the course of treat-ment with seddive/flyponic drugs, including LUNESTA. Because some of the impor-tant adverse effects of LUNESTA appear to be dose-related, it is important to use the lowest possible effective dose, sepecially in the elderly (se DOSAGE AND ADMINIS-TRATION in the Full Prescribing Information). A variety of abnormal thinking and behavior chances have been reported to occur in

TRATION in the Full Prescribing Information). A variety of abnormal thinking and behavior changes have been reported to occur in association with the use of sedative/hypnotics. Some of these changes may be char-acterized by decreased inhibition (e.g., aggressiveness and extroversion that seen out of character), similar to effects produced by alcohol and other CNS depressants. Other reported behavioral changes have included bizarre behavior, agitation, halluci-nations, and depersonalization. Annesis and other neuropsychiatric symptoms may occur unpredictably. In primarily depressed patients, worsening of depression, including suicidal thinking, has been reported in association with the use of sed-tive/hypnotics.

It can rarely be determined with certainty whether a particular instance of the abnor-It can rately be deemined with certainly whence a particular instance of the ability mail behaviors listed above ard forug-induced, spontaneous in origin, or a result of an underlying psychiatric or physical disorder. Nonetheless, the emergence of any new behavioral sign or symptom of concern requires careful and immediate evaluation. Following rapid dose decrease or abrupt discontinuation of the use of sedative/hyp notics, there have been reports of signs and symptoms similar to those associated with withdrawal from other CNS-depressant drugs (see DRUG ABUSE AND DEPENDENCE) withdrawal from other CNS-depressant drugs (see DRUG ABUSE AND DEPRENDENCE). LUNESTA, like other hypotics, has CNS-depressant effects. Because of the rapid onset of action, LUNESTA should only be ingested immediately prior to going to bed or after the patient has gone to bed and has experienced difficulty failing asleep. Patients receiving LUNESTA should be cautioned against engaging in hazardous occupations requiring complete mental alertness or motor coordination (e.g., oper-ating machinery or driving a motor vehice) after ingesting the drug, and be cautioned about potential impairment of the performance of such activities on the day follow-ing ingestion of LUNESTA. LINESTA, like other hypotics, may produce additive CNS-depressant effects when coadministered with other psychotropic medications, anticorrivilasm, antihistamines, ethanol, and other drugs that themselves produce CNS depression. LUNESTA should no ta taken with alcohol. Dose adjustment may be encessary when LUNESTA is administered with other CNS-depressant agents, because of the potentially additive effects. Percentrons PRECAUTIONS

General

Timing Of Drug Administration: LUNESTA should be taken immediately before bedtime. Taking a sedative/hypnotic while still up and about may result in short-term memory impairment, hallucinations, impaired coordination, dizziness, and lightheadedness.

Impaintent, nanotins, imparte coronation, duziness, and injuneatedness. Use In The ElderHy And/Or Debilitated Patients: Imparted motor and/or cognitive performance after repeated exposure or unusual sensitivity to sedative/hypnotic drugs is a concern in the treatment of diderly and/or debilitated patients. The recom-mended starting does of LUNESTA for these patients is 1 mg (see DOSAGE AND ADMINISTRATION in the Full Prescribing Information).

Use In Patients With Concomitant Illness: Clinical experience with eszopiclone in patients with concomitant illness is limited. Eszopiclone should be used with caution in patients with diseases or conditions that could affect metabolism or hemodynamic respons

A study in healthy volunteers did not reveal respiratory-depressant effects at doses 2.5-fold higher (7 mo) than the recommended struct 2.5-fold higher (7 mg) than the recommended dose of eszopicione. Caution is advised, however, if LUNESTA is prescribed to patients with compromised respiratory function. However, it LUNES IA is prescribed to patients with compromised respiratory function. The dose of LUNESTA should be reduced to 1 mg in patients with severe hepatic impairment, because systemic exposure is doubled in such subjects. No dose adjust-ment appears necessary for subjects with mild or moderate hepatic impairment. No dose adjust-ment appears necessary in subjects with any degree of renal impairment, since less than 10% of escopicione is excreted unchanged in the urine.

The dose of LUNESTA should be reduced in patients who are administered potent inhibitors of CVP3A4, such as ketoconazole, while taking LUNESTA. Downward dose adjustment is also recommended when LUNESTA is administered with agents having known CNS-depressant effects

Use In Patients With Depression: Sedative/hypnotic drugs should be administered with caution to patients exhibiting signs and symptoms of depression. Suicidal ten-dencies may be present in such patients, and protective measures may be required. Intentional overdose is more common in this group of patients; therefore, the least amount of drug that is feasible should be prescribed for the patient at any one time. Information.

Laboratory Tests: There are no specific laboratory tests recommended

Drug Interactions

CNS-Active Drugs

Ethanol: An additive effect on psychomotor performance was seen with coadministra-tion of escopicione and ethanol 0.70 g/kg for up to 4 hours after ethanol administration. *Paroxetine:* Coadministration of single doses of escopicione 3 mg and parovetine 20 mg daily for 7 days produced no pharmacokinetic or pharmacodynamic interaction. Lorazepam: Coadministration of single doses of escopicione 3 mg and lorazepam 2 mg did not have clinically relevant effects on the pharmacodynamics or pharmaco-kinetics of either drug.

Olarzapine: Coadministration of eszopiclone 3 mg and olarzapine 10 mg produced a decrease in DSST scores. The interaction was pharmacodynamic; there was no alteration in the pharmacokinetics of either drug.

ation in the pharmacokinetics of entering or rung. Drugs That Inhibit CVP3A4 (*Ketoconazole*): CVP3A4 is a major metabolic pathway for elimination of eszopicione. The AUC of eszopicione was increased 2.2-fold by coad-ministration of eketoconazole a potent inhibitor of CVP3A4. Adv Dmg daily for 5 days. C_{rug} and t₂₀ were increased 1.4-fold and 1.3-fold, respectively. Other strong inhibitors of CVP3A4 (e.g., interconazole, clarithornycin, netlazother, troleandomycin, ritonavir, netlinavir) would be expected to behave similarly. Durus Ther theory CVP3A4 (e.g., Clarithornycin, netlazother, troleandomycin, ritonavir, netlinavir) would be expected to behave similarly.

Drugs That Induce CYP3A4 (Rifampicin): Racemic zopicione exposure was decreased 80% by concomitant use of rifampicin, a potent inducer of CYP3A4. A similar effect would be expected with eszopicione. Drugs Highly Bound To Plasma Protein: Eszopicione is not highly bound to plasma

proteins (52-59% bound); therefore, the disposition of eszopicione is not expected to be sensitive to alterations in protein binding. Administration of eszopicione 3 mg to a patient taking another drug that is highly protein-bound would not be expected to cause an alteration in the free concentration of either drug.

Drugs With A Narrow Therapeutic Index

Diagosin: A single dose of escopicilone 3 mg did not affect the pharmacokinetics of digosin measured at steady state following dosing of 0.5 mg twice daily for one day and 0.25 mg daily for the next 6 days. Warfarin: Escopicione 3 mg administered daily for 5 days did not affect the pharma-cokinetics of (1.9 or (5)-varfarin, nor were there any changes in the pharmacody-namic profile (prothrombin time) following a single 25-mg oral dose of warfarin.

Training proving (proving the proving a single 2-ring that uses of warrain). Carcinogenesis, Mutagenesis, Inpairment of Fertility Carcinogenesis: In a carcinogenicity study in Sprague-Dawley rats in which eszopi-clone was given by oral gavage, no increases in tumors were seen; plasma levels (AUC) of eszopicione at the highest dose used in this study (16 mg/kg/day) are esti-mated to be 80 (females) and 20 (males) times those in humans receiving the max-imum recommended human dose (MRHD). However, in a carcinogenicity study in

Sprague-Dawley rats in which racemic zopiclone was given in the diet, and in which plasma levels of escopiclone were reached that were greater than those reached in the above study of escopiclone, an increase in mammary gland adenocarrinomas in females and an increase in thyroid gland follicular cell adenomas and carcinomas in males were seen at the highest dose of 100 mg/kg/day. Plasma levels of eszopiclone at this dose are estimated to be 150 (females) and 70 (males) times those in humans at the obset are semicated to be 150 clinates jated roles in transmiss receiving the MRHD. The mechanism for the increase in marmary adenceationans is unknown. The increase in thyroid tumors is thought to be due to increased levels of TSH secondary to increased metabolism of circulating thyroid hormones, a mech-anism that is not considered to be relevant to humans.

anish india is not consistent to be relevant to finitians. In a carcinogenicity study in BGCSF1 mice in which racemic zopiclone was given in the diet, an increase in pulmonary carcinomas and carcinomas plus adenomas in females and an increase in skin fibromas and sarcomas in males were seen at the highest dose of 100 mg/kg/day. Plasma levels of escopicione a this dose are estimat-ed to be 8 (females) and 20 (males) times those in humans receiving the MRHD. The et o be o (ternales) and 20 (males) inities index in numais receiving terminities transmission and the soft a 12 times the exposure in the racemate study.

Eszopiclone did not increase tumors in a p53 transgenic mouse bioassay at oral doses up to 300 mg/kg/day.

doses up to sour migrkgoday. Mutagenesis: Escopicione was positive in the mouse lymphoma chromosomal aberration assay and produced an equivocal response in the Chinese hamster ovary cell chromosomal aberration assay, It was not mutagenic or clastogenic in the bacterial Ames gene mutation assay, in an unscheduled DNA synthesis assay, or in an in vivo mouse bone marrow micronucleus assay.

(S)-N-desmethyl zopiclone, a metabolite of eszopiclone, was positive in the Chinese hamster ovary cell and human lymphocyte chromosomal aberration assays. It was negative in the bacterial Ames mutation assay, in an in vitro ³²P-postlabeling DNA adduct assay, and in an *in vivo* mouse bone marrow chromosomal aberration and micronucleus assay.

Impairment Of Fertility: Escopicione was given by oral gavage to male rats at doses up to 45 mg/kg/day from 4 weeks premating through mating and to female rats at doses up to 180 mg/kg/day from 2 weeks premating through day 7 of pregnancy. An additional study was performed in which only females were treated, up to 180 mg/kg/day. Escopicione decreased fertility, probably because of effects in both males and females, with no females becoming pregnant when both males and females were treated with the highest dose; the no-effect dose in both seves was female. If the man both and the seven the tendes where treated with the ingress does, the indicated does in the indicates was 5 mg/kg (16 times the MRHD on a mg/m² basis). Other effects included increased preimplantation loss (no-effect dose 25 mg/kg), abnormal estrus cycles (no-effect dose 25 mg/kg), and decreases in sperm number and motility and increases in mor-phologically abnormal sperm (no-effect dose 5 mg/kg).

Pregnancy Pregnancy Category C: Eszopicione administered by oral gavage to pregnant rats and rabbits during the period of organogenesis showed no evidence of teratogenicity up to the highest doses tested (250 and 16 mg/kg/day in rats and rabbits, respectively; these doses are 800 and 100 times, respectively, the maximum recommended human dose MBURD on a provide bacin, La the rest clicktraductions in fath uncident human dose [MRHD] on a mg/m² basis). In the rat, slight reductions in fetal weight and evidence of developmental delay were seen at maternally toxic doses of 125 and and evidence of developmential delay were seen at maternality toxic doses of 125 and 150 mg/kg/day, but not at 62.5 mg/kg/day (200 times the MHAT Do an ang/m² basis). Escopicione was also administered by oral gavage to pregnant rats throughout the pregnancy and lactation periods at doses of up to 180 mg/kg/day. Increased post-implantation loss, decreased postnatal pup weights and survival, and increased pup startle response were seen at all doses; the lowest dose tested, 60 mg/kg/day, is 200 times the MRHD on a mg/m² basis. These doses did not produce significant mater-pat basis/mc. nal toxicity. Eszopicione had no effects on other behavioral measures or reproductive function in the offspring.

There are no adequate and well-controlled studies of eszopicione in pregnant women Eszopiclone should be used during pregnancy only if the potential benefit justifies the notential risk to the fetus

Labor And Delivery: LUNESTA has no established use in labor and delivery.

Nursing Mothers: It is not known whether LUNESTA is excreted in human milk. Because many drugs are excreted in human milk, caution should be exercised when LUNESTA is administered to a nursing woman.

Pediatric Use: Safety and effectiveness of eszopiclone in children below the age of 18 have not been established.

nave not user is scausing. *Geratific Use:* A total of 287 subjects in double-blind, parallel-group, placebo-con-trolled clinical trials who received escopicione were 65 to 86 years of age. The over-al pattern of adverse events for elderly subjects (median age = 71 years) in 2-week studies with nighttime dosing of 2 mg escopicione was not different from that seen in younger adults: LUNESTA z mg exhibited significant reduction in sleep latency and improvement in sleep maintenance in the elderly population.

ADVERSE REACTIONS

The premarketing development program for LUNESTA included eszopiclone The premarketing development program for LUNESIA included escopicione exposurse in patients and/or normal subjects from two different groups of studies: approximately 400 normal subjects in clinical pharmacology/pharmacokinetic studies, and approximately 1550 patients in placebo-controlled clinical effectiveness studies, corresponding to approximately 263 patient-exposure years. The conditions and duration of treatment with LUNESTA varied greatly and included (in overlapping categories) poen-label and double-bilding phases of studies, inpatients and outpatients, and short-term and longer-term exposure. Adverse reactions were reagened the advertised in the lower of exposure that leaves the lower of the lower of the studies of the lower of exposition and with leaves of the lower of the lower of exposition and the lower of exposition and the lower of the low assessed by collecting adverse events, results of physical examinations, vital signs, weights, laboratory analyses, and ECGs.

Adverse events during exposure were obtained primarily by general inquiry and Adverse events during exposure were obtained primarily by general induity and recorded by clinical investigators using terminology of their own choosing. Consequently, it is not possible to provide a meaningful estimate of the proportion of individuals experiencing adverse events without first grouping similar types of events into a smaller number of standardized event categories. In the tabulations that follow, 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 it occurred for the first time or worsened while the patient was receiving therapy following baseline evaluation.

while the patient was receiving therapy following baseline evaluation. Adverse Findings Observed in Placebo-Controlled Trials Adverse Events Resulting in Discontinuation of Treatment: In placebo-controlled, parallel-group clinical trials in the elderly, 38% of 208 patients who received placebo, 23% of 215 patients who received 2 mg ULWSTA, and 1.4% of 72 patients who received 1 mg LUNESTA discontinued treatment due to an adverse event. In the 6-week parallel-groups study in adults, no patients in the 3 mg arm discontinued because of an adverse event. In the long-term 6-month study in adult insomnia patients, 7.2% of 195 patients who received placebo and 12.8% of 533 patients who received 3 mg LUNESTA discontinued due to an adverse event. No event that resulted in discontinuation occurred at a rate of greater than 2%.

Adverse Events Observed at an Incidence of >2% in Controlled Triats. The follow-ing lists the incidence (% placebo, 2 mg, 3 mg, respectively) of treatment-emergent adverse events from a Phase 3 placebo-controlled study of LUNESTA at doses of 2

adverse events from a Phase 3 placebo-controlled study of LUNESTA at doess of 2 or 3 mg in no-defdry adults. Treatment duration in this trial was 44 days. Data are limited to adverse events that occurred in 2% or more of patients treated with LUNESTA 2 mg (n=104) or 3 mg (n=105) in which the incidence in patients treated with LUNESTA was greater than the incidence in placebo-treated patients (n=99). <u>Body as a whole</u>: headache (13%, 21%, 17%), viral infection (1%, 3%, 3%), <u>Digestive system</u> dry mouth (3%, 5%, 7%), obspecia (4%, 4%, 5%, 7%), nausa (4%, 5%, 4%), womiting (1%, 3%, 0%), <u>Nervous system</u> anxiety (0%, 3%, 1%), lotlucian-tions (0%, 0%, 3%), depression (0%, 4%, 1%), diziness (4%, 5%, 7%), hallucian-tions (0%, 1%, 3%), hibid decreased (0%, 0%, 5%, 1%), nervousness (3%, 5%, 0%), somnolence (3%, 10%, 8%). <u>Bespiratory system</u>: infection (3%, 5%, 1%), <u>Skin and appendangs; nat (1%, 3%, 4%). <u>Special senses</u>: unpleasant tate (3%, 17%, 34%). <u>Urogenital system</u>: dymenorthae "(0%, 3%, 0%), gynecomastia** (0%, 3%, 0%).</u> Gender-specific adverse event in females

**Gender-specific adverse event in males

Events for which the LUNESTA incidence was equal to or less than placebo are not listed, but included the following: abnormal dreams, accidental injury, back pain, diarrhea, flu syndrome, myalgia, pain, pharyngitis, and rhinitis.

Adverse events that suggest a dose-response relationship in adults include viral infection, dry mouth, dizziness, hallucinations, infection, rash, and unpleasant taste, with this relationship clearest for unpleasant taste.

with this relationship clearest for unpleasant taste. The following lists the incidence (% placebo, z mg, 3 mg, respectively) of treatment-emergent adverse events from combined Phase 3 placebo-controlled studies of UINESTA at does of 1 or 2 mg in elderly adults (gales 65-86). Treatment duration in these trials was 14 days. Data are limited to events that occurred in 2% or more of patients treated with LUNESTA mg (n-72) or 2 mg (n-215) in which the incidence in patients treated with LUNESTA was greater than the incidence in placebo-treated matients. patients

patents: <u>Body as a whole:</u> accidental injury (1%, 0%, 3%), headache (14%, 15%, 13%), pain (2%, 4%, 5%), <u>Digestive system</u> diarrhea (2%, 4%, 2%), dry mouth (2%, 3%, 7%), dyspepsia (2%, 6%, 2%), <u>Nervous system</u>; abnormal dreams (0%, 3%, 1%), dizzi-ness (2%, 1%, 6%), nervousness (1%, 0%, 2%), neuralgia (0%, 3%, 0%), <u>Siki and</u> <u>appendages</u>; pruritus: (1%, 4%, 1%), <u>Special senses</u>; unpleasant taste (0%, 8%, 1%). <u>Uncentual system</u> vinnary tract infection (0%, 3%, 0%). 'Events for which the LUMESTA incidence was equal to or less than placebo are not leted, but incident die folgewine: photoginal pain acthentic nauses, zeb, and

listed, but included the following; abdominal pain, asthenia, nausea, rash, and somnolence

Adverse events that suggest a dose-response relationship in elderly adults include pain, dry mouth, and unpleasant taste, with this relationship again clearest for unpleasant taste. These figures cannot be used to predict the incidence of adverse events in the course of usual medical practice because patient characteristics and other factors may differ from those that prevailed in the clinical trials. Similarly, the citled frequencies cannot be compared with figures obtained from other clinical inves-tigations involving different treatments, uses, and investigators.

tigations involving different treatments, uses, and investigators. The cited figures, however, do provide the prescribing physician with some basis for estimating the relative contributions of drug and non-drug factors to the adverse event incidence rate in the population studied. **Other Vents Observed During The Premarketing Evaluation Of LUNESTA.** Following is a list of modified COSTART terms that reflect treatment-emergent adverse events as defined in the introduction to the **ADVERSE REACTIONS** section and reported by approximately 1550 subjects treated with LUNESTA at doese in the range of 1 to 3.5 mg/day during Phase 2 and 3 clinical trials throughout the United States and Canada. All reported events are included except those already listed here or listed service to be directed. Although the events reported documed during treatment with LUNESTA, they were not necessarily caused by it. Levents are listed in profer of decreasing freques according to the following defini-

treatment with EURESIA, they were not necessarily classed by it. Events are listed in order of decreasing frequency according to the following defini-tions: **Frequent** adverse events are those that occurred on one or more occasions in fewer than 1/100 patients but in at least 1/1.000 patients; **care** adverse events are those that occurred in fewer than 1/100 patients but in at least 1/1.000 patients; **care** adverse events are those that occurred in fewer than 1/1.000 patients; **care** adverse events are those that based on their incidence for the appropriate gender.

Frequent: chest pain, migraine, peripheral edema,

Frequent: chest pain, migraine, peripheral edema. Infrequent: acne, agitation, allergic reaction, alopecia, amenorrhea, anemia, anorexia, apathy, arthitis, asthma, ataxia, breast engorgement, breast enlargement, breast neoplasm, breast pain, bronchitis, bursitis, celluitits, choleititiasis, conjunctivitis, contact dermatitis, csysittis, dry eyes, dry skin, dyspnea, dysuria, eczerna, aer pain, emotional lability, epistaxis, face defma, female lactation, fever, halitosis, heat stroke, welling, stiffness, and pain), kolney calculate, instrumentor, hypertonia, hypesthesia, incoordination, increased appetite, insomnia, joint disorder (mainty welling, stiffness, and pain), kolney calculus, kidney pain, laryngits, leg cramps, lymphadenopathy, malaise, mastitis, melera, memory impairment, menorrhagia, attical, uterine hemorrhage, anginitis, uninary frequency, urinary incontinence, uticaria, uterine hemorrhage, vaginal hemorthage, vaginitis, weritgo, vesibular discoloration, weight loss.

Lasorder, weigin gain, weigin toss. Rare: abnormal gait, arthrosis, colitis, dehydration, dysphagia, erythema multiforme, euphoria, furunculosis, gastritis, gout, hepatitis, hepatomegaly, herpes zoster, hirsutism, hyperacusis, hyperesthesia, hyperilpemia, hypokalemia, hypokalemia, ritis, liver damage, maculopapular rash, myóriasis, myopathy, neuritis, neuropathy, oliguria, photophobia, ptosis, pyelonephritis, rectal hemorrhage, stomach ulcer, stomatitis, stupor, thrombophlebitis, tongue edema, tremor, urethritis, vesiculobullous rash.

DRUG ABUSE AND DEPENDENCE

DRUG RAUSE AND DEPENDENCE Controlled Substance Class:: UNESTA is a Schedule IV controlled substance under the Controlled Substance SAct. Other substances under the same classification are benzodiazepines and the nonbenzodiazepine hypotoics zalepion and zolpidem. While escopicione is a hypotoic agent with a chemical structure unrelated to benzodi-azepines, it shares some of the pharmacologic properties of the benzodiazepines.

azepines, it shares some of the pharmacologic properties of the benzodiazepines. Abuse, Dependence, and Dieterance Abuse and Dependence: in a study of abuse liability conducted in individuals with known historics of benzodiazepine abuse, eszolicione at doses of 6 and 12 mg pro-duced euphonic effects similar to those of diazepam 20 mg. In this study, at doses 2-fold or grater than the maximum recommended doses, a dose-related increase in reports of amnesia and hallucinations was observed for both LUNESTA and diazepam. reports of annesia and hallucinations was observed for both LUNESTA and diazepam. The clinical trial experience with LUNESTA revealed no evidence of a serious withdrawal syndrome. Nevertheless, the following adverse events included in DSM-IV criteria for uncomplicated sedative/hyponic withdrawal were reported during clinical trials following placebo subsitution occurring within 48 hours following the last LUNESTA treatment: anxiety, abnormal dreams, nausea, and upset stomach. These reported adverse events occurred at an incidence of 2% or less. Use of benzodiazepines and similar agents may lead to physical and psychological dependence. The risk of abuse and dependence increases with the dose and duration of treatment and concomiant use of other psychoactive drugs. The risk is also greater for patients who have a history of alcohol or drug abuse or history of psychiatric disorders. These patients should be under careful surveillance when receiving LUNESTA or any other hyponotic.

Tolerance: Some loss of efficacy to the hypnotic effect of benzodiazepines and benzo-Interance: Some loss of erricacy to the hypototic effect of benzoñazepines and benzo-diazepine-like agents may develop after repeated use of these drugs for a few weeks. No development of tolerance to any parameter of sleep measurement was observed over six months: Tolerance to the efficacy of LUNESTA's my was assessed by 4-week objective and 6-week subjective measurements of time to sleep onset and sleep main-tenance for LUNESTA in a placebo-controlled 4-day study, and by subjective assess-ments of time to sleep onset and WASO in a placebo-controlled study for 6 months. OVERDOSAGE

Rx only.

OVERDOSAGE There is limited premarketing clinical experience with the effects of an overdosage of LUNESTA. In clinical trials with eszopicione, one case of overdose with up to 36 mg of eszopicione was reported in which the subject fully recovered. Individuals have tully recovered from razemic zopicione overdoses up to 340 mg (56 times the maximum recommended dose of eszopicione).

Signs And Symptoms: Signs and symptoms of overdose effects of CNS depressants can be expected to present as exaggerations of overlades encoded effects noted in preclinical testing. Impairment of consciousness ranging from somnolence to coma has been described. Rare individual instances of fatal outcomes following overdose with racemic zopiclone have been reported in European postmarketing reports, most often associated with overdose with other CNS-depressant agents.

often associated with overdose with other CNS-depressint agents. Recommended Treathernt: General symptomatic and supportive measures should be used along with immediate gastric lavage where appropriate. Intravenous fluids should be administered as needed. Humazenii may be useful. As in all cases of drug overdose, respiration, pulse, blood pressure, and other appropriate signs should be monitored and general supportive measures employed. Hypotension and CNS depression should be monitored and treated by appropriate medical intervention. The value of dialysis in the treatment of overdosage has not been determined.

Poison Control Center: As with the management of all overdosage, the possibility of multiple drug ingestion should be considered. The physician may wish to consider contacting a poison control center for up-to-date information on the management of hypotolic drug product overdosage.

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12/06

Master Fine Art of Sleep

Prescribe EUNESTA first-line—for a full 7 to 8 hours of sleep

LUNESTA has been studied in large, well-controlled clinical trials in all of the following patient types:

- Patients With Insomnia Comorbid With Major Depressive Disorder
- Patients With Insomnia Comorbid With Generalized Anxiety Disorder
- Patients With Insomnia Comorbid With Rheumatoid Arthritis
- Patients With Insomnia Comorbid With Menopause

The failure of insomnia to remit after 7 to 10 days of treatment should be medically evaluated.

Any night or every night



LUNESTA has been classified as a Schedule IV controlled substance. Sedative hypnotics have produced withdrawal signs and symptoms following abrupt discontinuation. The risk of abuse and dependence increases with the dose and duration of treatment and concomitant use of other psychoactive drugs. The risk is also greater for patients who have a history of alcohol or drug abuse or history of psychiatric disorders. These patients should be under careful surveillance when receiving LUNESTA or any other hypnotic. Sedative/hypnotic drugs should be administered with caution to patients exhibiting signs and symptoms of depression. Suicidal tendencies may be present in such patients, and protective measures may be required. Intentional overdose is more common in this group of patients; therefore, the least amount of drug that is feasible should be prescribed for the patient at any one time.

LUNESTA, like other hypnotics, may produce additive CNS-depressant effects when coadministered with other psychotropic medications, anticonvulsants, antihistamines, ethanol, and other drugs that themselves produce CNS depression. LUNESTA should not be taken with alcohol. Dosage adjustment may be necessary when LUNESTA is administered with other CNS-depressant agents because of the potentially additive effects.

Impaired motor and/or cognitive performance after repeated exposure or unusual sensitivity to sedative/hypnotic drugs is a concern in the treatment of elderly and/or debilitated patients. See dosage and administration in complete prescribing information.

Please see brief summary of complete prescribing information.

LUNESTA is indicated for the treatment of insomnia. In controlled outpatient and

and improved sleep maintenance. LUNESTA is not indicated for the treatment of depression, generalized anxiety disorder, rheumatoid arthritis, or menopause.

LUNESTA, like other hypnotics, has CNS-depressant effects. Because of the rapid

onset of action, LUNESTA should only be ingested immediately prior to going to bed or after the patient has gone to bed and has experienced difficulty falling asleep. Patients should not take LUNESTA unless they are prepared to get a full night's sleep. As with other hypnotics, patients receiving LUNESTA should be cautioned against engaging

in hazardous occupations requiring complete mental alertness or motor coordination (eg, operating machinery or driving a motor vehicle) after ingesting the drug, including potential impairment of the performance of such activities that may occur the day following ingestion of LUNESTA. In clinical trials, the most common adverse events

associated with LUNESTA were unpleasant taste, headache, somnolence, dizziness,

Important Safety Information

dry mouth, infection, and pain.

sleep laboratory studies, LUNESTA administered at bedtime decreased sleep latency

6SRZ0415

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nervousness	unexplained pains
fati	gue

Treat the symptoms of depression your patients talk about, and those they don't. When patients don't express all their symptoms to you, it can make treating depression to remission more complex. Cymbalta is indicated for major depressive disorder (MDD) and treats the emotional, anxious, and painful somatic symptoms of depression.^{1a-c.2*} Cymbalta also offers high rates of remission, so patients can feel more like themselves again.^{1d+} To learn more about treating beyond the obvious, visit www.insidecymbalta.com

NOW indicated for generalized anxiety disorder (GAD)

* Cymbalta 60 mg/day vs placebo (P≤.05) by MMRM for major depressive disorder (MDD) on mean change in HAM-D₁₇ Total Score, Maier Subscale, Psychic Anxiety, and Visual Analog Scale. Full antidepressant response may take 4-6 weeks.

MMRM=Mixed-effects Models Repeated Measures analysis

⁺ Remission=HAM-D₁₇ Total Score \leq 7, 43% vs 27% placebo, *P* \leq .001, 4 pooled studies.

References: 1. Data on file, Lilly Research Laboratories; a: CYM20060101A; b: CYM20060101B; c: CYM20050315S; d: CYM20060101C. **2.** Fava M, et al. *J Clin Psychiatry.* 2004;65(4):521-530.

treat beyond the obvious



Important Safety Information

- Antidepressants increased the risk of suicidal thinking and behavior (suicidality) in short-term studies in children, adolescents, and young adults with major depressive disorder (MDD) and other psychiatric disorders.
- Patients of all ages started on therapy should be monitored appropriately and observed closely for clinical worsening, suicidality, or unusual changes in behavior.
- Cymbalta is not approved for use in pediatric patients.

Cymbalta should not be used concomitantly with monoamine oxidase inhibitors (MAOIs) or thioridazine and not in patients with a known hypersensitivity or with uncontrolled narrow-angle glaucoma.

Clinical worsening and suicide risk: All patients being treated with an antidepressant for any indication should be monitored appropriately and observed closely for clinical worsening, suicidality, and unusual changes in behavior, especially when initiating drug therapy and when increasing or decreasing the dose. A health professional should be immediately notified if the depression is persistently worse or there are symptoms that are severe, sudden, or were not part of the patient's presentation. If discontinuing treatment, taper the medication.

Development of a potentially life-threatening serotonin syndrome may occur with SNRIs and SSRIs, including Cymbalta treatment, particularly with concomitant use of serotonergic drugs, including triptans. Concomitant use is not recommended. Cymbalta should not be administered to patients with any hepatic insufficiency or patients with end-stage renal disease (requiring dialysis) or severe renal impairment (CrCl <30 mL/min).

Postmarketing, severe elevations of liver enzymes or liver injury with a hepatocellular, cholestatic, or mixed pattern have been reported.

Cymbalta should generally not be prescribed to patients with substantial alcohol use or evidence of chronic liver disease.

Cases of orthostatic hypotension and/or syncope as well as cases of hyponatremia have been reported.

As observed in DPNP clinical trials, Cymbalta treatment worsens glycemic control in some patients with diabetes. In the extension phases up to 52 weeks, an increase in HbA₁_c in both the Cymbalta (0.5%) and routine care groups (0.2%) was noted.

Most common adverse events (≥5% and at least twice placebo) in premarketing clinical trials were: **MDD**: nausea, dry mouth, constipation, fatigue, decreased appetite, somnolence, and increased sweating. **DPNP**: nausea, somnolence, dizziness, constipation, dry mouth, increased sweating, decreased appetite, and asthenia. **GAD**: nausea, fatigue, dry mouth, somnolence, constipation, insomnia, appetite decreased, increased sweating, libido decreased, vomiting, ejaculation delayed, and erectile dysfunction.

See Brief Summary of full Prescribing Information, including Boxed Warning, on adjacent page.

DD46609 0707 PRINTED IN USA \otimes 2007, ELI LILLY AND COMPANY. ALL RIGHTS RESERVED. Cymbalta is a registered trademark of Eli Lilly and Company.



Brief Summary: Consult the package insert for complete prescribing information.

WARNING

Suicidality and Antidepressant Drugs-Antidepressants increased the risk compared to placebo of suicidal Suicidality and Antidepressant Drugs-Antidepressants increased the risk compared to placedo of suicidal thinking and behavior (suicidality) in children, adolescents, and young adults in short-term studies of major depressive disorder (MDD) and other psychiatric disorders. Anyone considering the use of Cymbalta or any other antidepressant in a child, adolescent, or young adult must balance this risk with the clinical need. Short-term studies of moto wan increase in the risk of suicidality with antidepressants compared to placebo in adults beyond age 24; there was a reduction in risk with antidepressants compared to placebo in adults beyond age 24; there was a reduction in risk with antidepressants compared to placebo in adults beyond age 24; there was a reduction in risk with antidepressants compared to placebo in adults beyond age 24; there was a reduction in risk with antidepressants compared to placebo in adults beyond age 24; there was a reduction in risk with antidepressants compared to placebo in adults beyond age 24; there was a reduction other psychiatric disorders are themselves associated with increases in the risk of suicide. Patients of all ages who are started on antidepressant therapy should be monitored appropriately and 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. Cymbalta is not approved for use in pediatric patients.

INDICATIONS AND USAGE: Cymbalta is indicated for the: treatment of major depressive disorder (MDD); the management of neuropathic pain associated with diabetic peripheral neuropathy (DPN); treatment of generalized anxiety disorder (GAD).

CONTRAINDICATIONS: Hypersensitivity—Known hypersensitivity to duloxetine or any of the inactive ingredients. Monoamine Oxidase Inhibitors (MAOIs)—Concomitant use with Cymbalta is contraindicated (see WARNINGS). Uncontrolled Narrow-Angle Glaucoma—In clinical trials, Cymbalta use was associated with an increased risk of mydriasis; therefore, its use is not recommended in patients with uncontrolled narrow-angle glaucoma.

WARNINGS: Clinical Worsening and Suicide Risk—Patients with major depressive disorder (MDD), both adult and WARNINGS: LININGAI WORSENING and SUICIDE HISK—HATGENS WITI TAGIO GEPTESSIVE DISOFDET (MUUD), 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. Suicide is a known risk of depression and certain other psychiatric disorders, and these disorders themselves are the strongest predictors of suicide. There has been a long-standing concern, however, that antidepressants may have a role in inducing worsening of depression and the emergence of suicidality in certain patients during the early phases of treatment. Pooled analyses of short-term placebo-controlled trials of antidepressant drugs (SSRIs and others) showed that these drugs increase the risk of suicidal Hinking and hebavior (suicidality) in children addescents and young adults

Pooled analyses of short-term placebo-controlled trials of antidepressant drugs (SSRIs and others) showed that these drugs increase the risk of suicidal thinking and behavior (suicidality) in children, adolescents, and young adults (ages 18-24) with major depressive disorder (MDD) and other psychiatric disorders. Short-term studies did not show an increase in the risk of suicidality with antidepressants compared to placebo in adults beyond age 24; there was a reduction with antidepressants compared to placebo and ults aged 65 and older. The pooled analyses of placebo-controlled trials in children and adolescents with MDD, obsessive compulsive disorder (OCD), or other psychiatric disorders included a total of 24 short-term trials of 9 antidepressant drugs in over 4400 patients. The pooled analyses of placebo-controlled trials in adults with MDD or other psychiatric disorders included a total of 24 short-term trials of 9 antidepressant drugs in over 4400 patients. The pooled analyses of placebo-controlled trials in adults with MDD or other psychiatric disorders included a total of 24 short-term trials of 9 antidepressant drugs in over 4400 patients. The pooled analyses of placebo-controlled trials in adults with MDD or other psychiatric disorders included a total of 23 short-term trials (median duration of 2 months) of 11 antidepressants drugs in over 77,000 patients. There was considerable variation in risk of suicidality among drugs, but a tendency toward an increase in the younger patients for almost all drugs studied. There was considerable variation in risk of there were differences (drug vs placebo), however, were relatively stable within age strata and across indications. These risk differences (drug-placebo difference in the number of cases of suicidality appression dates are appression of the short and across indications. These risk differences (drug-placebo difference in the number of cases of suicidality appressions dates are appression dates are appression and a strata and across indications. These ri

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Age Range	Drug-Placebo Difference in Number of Cases of Suicidality per 1000 Patients Treated	
	Drug-Related Increases	
<18	14 additional cases	
18-24	5 additional cases	
	Drug-Related Decreases	
25-64	1 fewer case	
≥65	6 fewer cases	

No suicides occurred in any of the pediatric trials. There were suicides in the adult trials, but the number was not

It is unknown whether the suicidality risk extends to longer-term use, i.e., beyond several months. However, there is substantial evidence from placebo-controlled maintenance trials in adults with depression that the use of the substantial evidence from placebo-controlled maintenance trials in adults with depression that the use of antidepressants can delay the recurrence of depression

antidepressants can delay the recurrence of depression. All patients being treated with antidepressants for any indication should be monitored appropriately and 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. 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 MDD 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 feasible, but with recognition that abrupt discontinuation can be associated with certain symptoms (see PRECAUTIONS, Discontinuation of Treatment with Cymbalta)

of Treatment with Cymbila). Families and caregivers of patients being treated with antidepressants 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, and to report such symptoms immediately to health care providers. Such monitoring should include daily observation by families and caregivers. Prescriptions for Cymbalta should be written for the smallest quantity of capsules consistent with good patient management, in order to reduce the risk of overdose. 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 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. However, prior to initiating treatment with an antidepressant, patients with depressive symptoms should be adequately screened to determine i they are at risk for bipolar disorder, such screening should include a detailed psychiatric history, including a family history of suicide, bipolar disorder, such screening should be noted that Cymbalta (duloxetine) is not approved for use in treating bipolar depression. approved for use in treating bipolar depression.

MAOIs-In patients receiving a serotonin reuptake inhibitor (SSRI) in combination with an MAOI, there have been MAOIs—In patients receiving a serotonin reuptake inhibitor (SSRI) in combination with an MAOI, there have been reports of serious, sometimes fatal, reactions including hyperthermia, rigidity, myoclonus, autonomic instability with possible rapid fluctuations of vital signs, and mental status changes that include extreme agitation progressing to delirium and coma. These reactions have also been reported in patients who have recently discontinued SSRIs and are then started on an MAOI. Some cases presented with features resembling neuroleptic malignant syndrome. The effects of combined use of Cymbalta and MAOIs have not been evaluated in humans or animals. Therefore, because Cymbalta is an inhibitor of both serotonin and norepinephrine reuptake, it is recommended that Cymbalta not be used in combination with an MAOI, or within at least 14 days of discontinuing treatment with an MAOI. Based on the hall-life of Cymbalta treatment, particularly with concomitant use of sortonine syndrome may occur with SNRIs and striken syndrome—The development of a potentially life-threatening serotonin syndrome may occur with SNRIs and with drugs which imgair metabolism of serotonin (audiouding MAOIs). Serotoning vincome syndrome may include and with drugs which imgair metabolism of serotonin (audiouding MAOIs). Serotoning vincome syndrome syndrome and with drugs which imgair wetabolism of serotonin (audiouding MAOIs). Serotoning vincome syndrome syndrome and with drugs which imgair wetabolism of serotonin (audiouding MAOIs).

and with drugs which impair metabolism of serotonin (including MAOLS). Serotonin synchrome symptoms may include mental status changes (eg, agitation, hallucinations, coma), autonomic instability (eg, tachycardia, labile blood pressure, hyperthermia), neuromuscular aberrations (eg, hyperreflexia, incoordination) and/or gastrointestinal symptoms (eg, nausea vomiting diarrhea)

The concomitant use of Cymbalta with MAOIs intended to treat depression is contraindicated (see CONTRAINDICATIONS and WARNINGS, Potential for Interaction with MAOIs). If concomitant treatment of Cymbalta with a 5-hydroxytryptamine receptor agonist (triptan) is clinically warranted,

areful observation of the patient is advised, particularly during treatment initiation and dose increases (see PRECAUTIONS, Drug Interactions)

Cymbalta® (duloxetine hydrochloride) Delayed-release Capsules

The concomitant use of Cymbalta with serotonin precursors (such as tryptophan) is not recommended (see PRECAUTIONS, Drug Interactions).

PRECAUTIONS: General—Hepatotoxicity—Cymbalta increases the risk of elevation of serum transaminase levels. Liver transaminase elevations resulted in the discontinuation of 0.4% (31/8454) of Cymbalta-treated patients. In these patients, the median time to detection of the transaminase elevation was about two months. In controlled trials in MDD, patients, the median time to detection of the transaminase elevation was about two months. In controlled trials in MDD, elevations of alanine transaminase (ALT) to >3 times the upper limit of normal occurred in 0.9% (8/930) of Cymbalta-treated patients and in 0.3% (2/652) of placebo-treated patients. In controlled trials in DPN, elevations of ALT to >3 times the upper limit of normal occurred in 1.68% (8/477) of Cymbalta-treated patients and in 0.9% (2/652) of placebo-treated patients. In optication of ALT is placebo-treated patients. In the full cohort of placebo-controlled trials in any indication, elevation of ALT >3 times the upper limit of normal occurred in 1% (39/372) of Cymbalta-treated patients compared to 0.2% (6/2568) of placebo-treated patients. In placebo-controlled studies using a fixed-dose design, there was evidence of a dose-response relationship for ALT and AST elevation of 3 times the upper limit of normal and >5 times the upper limit of normal and to normal, respectively. Postmarketing reports have described cases of hepatitis with abdominal pain, hepatomegaly and elevation of transcentices levate to more then there there then the limit of normal units or without intending approximation a mixed of transaminase levels to more than twenty times the upper limit of normal with or without jaundice, reflecting a mixed or hepatocellular pattern of liver injury. Cases of cholestatic jaundice with minimal elevation of transaminase levels have also been reported.

of transaminase levels to more than twenty times the upper limit of normal with or without jaundia, Feffecting a mixed or hepatocellular pattern of liver injury. Cases of cholestatic jaundia: with minimal elevation of transaminase levels have also been reported. The combination of transaminase elevations and elevated bilinubin, without evidence of obstruction, is generally recognized as an important predictor of severe liver injury. In clinical trials, three Cymbalta patients had levals on all elevated transaminases, bilinubin and alkaline phosphatase. suggesting an obstructive process: in these patients, there was evidence of heavy alcohol use and this may have contributed to the abnormalities seen. Two placebo-trated patients also had transaminase elevations with volta be prescribed to patients with chronic liver disease or cirritosis. Because it is possible that duloxetine and alcohol may interact to cause liver injury or that duloxetine may aggravate pre-existing liver disease. (Jmtasti abhold ordinarity in the particulary after dose increases. The risk of blood pressure decreases. (Jmtasti alcoulostine. Syncope and orthosphatic hypotension and ysncope trake to represerve decreases may be greater in patient staing duloxetine at torsease. The risk of blood pressure decreases may be greater in patient staing ducoteline at doses above 60 mg daily. Consideration should be given to discontinuing duloxetine in patients taking ducoteline at doses above 60 mg daily. Consideration should be given to discontinuing duloxetine in patients taking ducoteline at doses when a caclerated dose titration, there was evidence of increases in supine blood pressure at doses up to 20 mm Hig in disstolic blood pressure ad up to 2.3 mm Hig in diastolic blood pressure in adults. High dastolic blood pressure adults at the ability of 24.5 mm Hig (diastolic) up to 12 hours aft dosign. Blood pressure with an accelerated dose titration, there was evidence of increases in supine blood pressure at doses up to 20 mg BIO. At the highest 200 m

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Cymbalta® (duloxetine hydrochloride) Delayed-release Capsules

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Serotonin Syndrome). The concomitant use of Cymbalta with other SSRIs, SNRIs, or tryptophan is not recommended (see PRECAUTIONS, Drug Interactions). <u>Triptans</u>—There have been rare postmarketing reports of serotonin syndrome with use of an SSRI and a triptan. If concomitant treatment of Cymbalta with a triptan is clinically warranted, careful observation of the patient is advised, particularly during treatment initiation and dose increases (see WARNINGS, Serotonin Syndrome). <u>Potential for Interaction with Drugs that Affect Gastric Arcidity</u>—Cymbalta has an enteric coating thet prevised increases of the activation to the advised particularity during the transfer of the during of the activation of the content of the activation and dose of the activation to the advised of the activation of the activation and dose of the activation of the activation of the activation activation activation of the a Serotonin Syndrome). <u>Potentia tor Interaction with Urugs that Aftect Gastric Acidity</u>—Cymbatta has an enteric coating that resists dissolution until reaching a segment of the gastrointestinal tract where the pH exceeds 5.5. In extremely acidic conditions, Cymbatta, unprotected by the enteric coating, may undergo hydrolysis to form naphthol. Caution is advised in using Cymbatta in patients with conditions that may slow gastric emptying (eg, some diabetics). Drugs that raise the gastrointestinal pH may lead to an earlier release of duloxetine. However, co-administration of Cymbatta with aluminum- and magnesium-containing antacids (51 mEq) or Cymbatta with famotidine, had no significant effect on the rate or extent of duloxetine absorption after administration of a d-mg oral dose. It is unknown whether the concomitant administration of proton pump inhibitors affects duloxetine absorption. Ovidene Leibitore, *Concol DULTED* MDICCHINGS and MURUMESC

autimum and magnesion-containing antactos (51 med) or Cymbata Wink antonuom, had no signinicant enect on the rate or extent of duloxetine absorption after administration of a 40-mg oral dose. It is unknown whether the concomilant administration of proton pump inhibitors affects duloxetine absorption. Monoamine Dudase Inhibitors—See CONTRAINDICATIONS and WARNINGS. **Carcinogenesis, Mutagenesis, Impairment of Fertifity—Carcinogenesis—D**uloxetine was administered in the diet to mice and rats for 2 years. In female mice receiving duloxetine at 140 mg/kg/day (11 times the maximum recommended human dose (MHED, 60 mg/day) and 6 times the human dose of 120 mg/day on a mg/m² basis), there was an increased incidence of hepatocellular adenomas and carcinomas. The no-effect dose was 50 mg/kg/day (4 times the MRHD and 1 times the attorne was not increased in male mice receiving duloxetine at doses up to 100 mg/kg/day (8 times the MRHD and 4 times the human dose of 120 mg/day on a mg/m² basis). Turnor incidence was not increased in male mice receiving duloxetine at doses of to 100 mg/kg/day (8 times the MRHD and 4 times the MRHD and 2 times the human dose of 120 mg/day on a mg/m² basis) and up to 36 mg/kg/day in males (6 times the MRHD and 3 times the human dose of 120 mg/day on a mg/m² basis) and up to 36 mg/kg/day in males (6 times the MRHD and 3 times the human dose of 120 mg/day on a mg/m² basis) and up to 36 mg/kg/day in males (6 times the MRHD and 3 times (6 times the Internet to 100 mg/day on a mg/m² basis) and up to 36 mg/kg/day in males (6 times the MRHD and 3 times (120 mg/day on a mg/m² basis) and up to 36 mg/kg/day in males (6 times the MRHD and 3 times (100 mg/day on a mg/m² basis) and up to 36 mg/kg/day (7 times the numan dose of 120 mg/day on a mg/m² basis) and up to 36 mg/kg/day (7 times the numan dose dose up enotation assay in mouse tymphoma cells or in an *in vitro* bacterial reverse mutation assay in mouse kertone day to the male rats prior to and throughing the period or organogenesis, there was no evid

maternal exposure to 30 mg/kg/day. Post-weaning growth and reproductive performance of the progery were not affected adversely by maternal duloxetine treatment. There are no adequate and well-controlled studies in pregnant women; therefore, duloxetine should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus. <u>Monteratorenci Effects-</u> Neonates exposed to SSRIs or serotonin and norepinephrine reuptake inhibitors (SNRIs), late in the third trimester have developed complications requiring prolonged hospitalization, respiratory support, and tube feeding. Such complications can arise immediately upon delivery. Reported clinical findings have included respiratory distress, cyanosis, apnea, seizures, temperature instability, feeding difficulty, vornting, hypodycernia, hypotonia, hyperfetical SSRIs and SNRIs or, possibly, a drug discontinuation syndrome. It should be noted that, in some cases, the clinical picture is consistent with serotonin syndrome (see WARNINGS, Monamine Oxidase Inhibitors). When treating a pregnant woman with Cymbatta during the third trimester, the physician should carefully consider the potential risks and benefits of treatment. **Labor and Delivery**—The effect of duloxetine on labor and delivery in humans is unknown. Duloxetine should be used during basis is approximately 0.14% of the maternal dose. Because the safety of duloxetine in infants is not known, nursing while on Cymbatta is not recommended. **Pediatric Use**—Safety and effectiveness in the pediatric population have not been established (see BOX WARNING GM WARNING S, Moreoning AD were for a delivery or WARNING S, Ware 65 years of age or over. Of the 1074 patients in premarketing slucides, 33% (357) were 65 years of age or over. Premarketing clinical studies of GAD did not include sufficient numbers of subjects, and ofterrine whether they respond differences in safety of ween been these subjects. In the DPN premarketing studies, 33% (357) were add series add younger oreal differences in a

refectiveness were observed between these subjects and younger subjects, and other reported clinical experience has not identified differences in responses between the elderly and younger patients, but greater sensitivity of some older individuals cannot be ruled out. As with other antidepressants, Cymbalta has been associated with cases of clinically significant hyponatremia (see Hyponatremia, under PRECAUTIONS)

significant hyponatremia (see Hyponatremia, under PRECAUTIONS). **ADVERSE REACTIONS:** Cymbalta has been evaluated for safety in 2418 patients diagnosed with MDD who participated in multiple-obse premarkeling trials, representing 1099 patient-years of exposure. Among these 2418 Cymbalta-treated patients, 1139 patients participated in eight 8 or 9 week, placebo-controlled trials at doses ranging from 40 to 120 mg/day, while the remaining 1279 patients were followed for up to 1 year in an open-label safety study using flexible doses from 80 to 120 mg/day. Two placebo-controlled studies with doses of 80 and 120 mg/day had 6-month maintenance extensions. Of these 2418 patients, 993 Cymbalta-treated patients were exposed for at least 194 as also been evaluated for safety in 1044 patients with diabetic peripheral neuropathy representing 472 patient-years of exposure. Among these 1074 Cymbalta-treated patients, 568 patients participated in wo 12 to 13 week, placebo-controlled trials at doses ranging from 20 to 120 mg/day. An additional 449 patients were enrolled in an open-label safety study using 120 mg/day for a duration of 6 months. An other 57 patients, originally treated with placebo, were exposed to Cymbalta are doses ranging from 20 to 120 mg/day in an extension phase. Among these 1074 patients, 484 had 6 months of exposure to Cymbalta, and 220 had 12 months of exposure. of exposure. Cymbalta has also been evaluated for safety in 668 patients with GAD representing 95 patient-years of exposure.

Cymoata has also been evaluated for safety in bolo patients with GAU representing Vs patient-years of exposure. These 668 patients participated in 9- or 10-week placebo-controlled trials at doess ranging from 60 to 120 mg once daily. Of these 668 patients, 449 were exposed for at least 2 months to Cymbalta. In the full cohort of placebo-controlled chinical trials for any indication, safety has been evaluated in 8504 patients treated with duloxetine and 6123 patients treated with placebo. In clinical trials, a total of 23,983 patients have been exposed to duloxetine. In duloxetine clinical trials daverse reactions were assessed by collecting adverse events, results of physical examinations, vital signs, weights, laboratory analyses, and ECGs. Clinical investigators recorded adverse events using descriptive terminology of their own choosing. To provide a adverse events.

adverse events

a smaller number of standardized event categories is necessary. MedDRA terminology was 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 it occurred for the first time or worsened while receiving therapy following baseline evaluation. Events reported during the studies were not necessarily caused by the therapy, and the frequencies do not reflect investigator impression (assessment) of causality. *Adverse Events Reported as Reasons for Discontinuation of Treatment in Praceho-Controlled Trials*—Major Depressive Disorder—Approximately 10% of the 1139 patients who received Cymbalta in the MDD placebo-controlled trials discontinued treatment due to an adverse event, compared with 4% of the 777 patients receiving placebo. Nausea (Cymbalta 1.4%, placebo 1.01%) was the only common adverse event reported as reason for discontinuation of at least twice that of placebo). Diabetic Peripheral Neuropatitic Eain—Approximately 14% of the 568 patients who received Cymbalta in the DPN placebo-controlled trials discontinued treatment due to an adverse event, compared with 7% of the 223 patients receiving placebo. Nausea (Cymbalta 1.5%, placebo 0.4%), dizziness (Cymbalta 1.6%, placebo 0.4%), dizziness (Cymbalta 1.6%, placebo 0.4%), adjacebo 0.4%), dizziness (Cymbalta 1.6%, placebo 0.2%), were the common adverse events reported as reasons for discontinuation and considered to be drug-related (ie, discontinuation occurring in at least 1% of the Cymbalta 1.4%, placeb 0.0%), and tart at ead talest twice that of placebo). Generalized Anxiety Disorder— Approximately 16% of the 688 patients who received Cymbalta in the G

N=777 placebo) with an incidence greater than placebo were: <u>Gastrointestinal Disorders</u>—nausea, dry mouth, constipation, diarrhea, vomiting: <u>Metabolism and Nutrition Disorders</u>—appetite decreased (includes anorexia); <u>Investigations</u>—weight decreased; <u>General Disorders</u> and <u>Administration</u>. Site <u>Conditions</u>—fatigue; <u>Neurosity</u>, <u>System Disorders</u>—dizziness, sommolence, termors; <u>Skin and Subcutaneous Tissue Disorders</u>—sweating increased; <u>Vascular Disorders</u>—hot flushes; <u>Eve Disorders</u>—vision Diurred; <u>Psychiatric Disorders</u>—insormai (includes middle <u>Insormia)</u>, anxiety, libid occreased, organs abnormal (includes anorgamia); <u>Reproductive System all Breast</u> <u>Disorders</u>—males only: erectile dysfunction, ejaculation delayed, ejaculatory dysfunction (includes ejaculation disorder and ejaculation faiure). ejaculation failure).

The following events were reported by at least 2% of patients treated with Cymbalta for MDD and had an incidence ≤ placebo: upper abdominal pain, palpitations, dyspepsia, back pain, arthralgia, headache, pharyngitis, cough, nasopharyngitis, and upper respiratory tract infection. The most commonly observed adverse events in Cymbalta-treated MDD patients (incidence ≥5% and at least twice

the incidence in placebo patients) were: nausea; dry mouth; constipation; decreased appetite; fatigue; somnolence; and increased sweating.

The increased sweating. Diabetic Peripheral Neuropathic Pain—Treatment-emergent adverse events that occurred in 2% or more of patients treated with Cymbalta in the premarketing acute phase of DPN placebo-controlled trials (N=225 Cymbalta 60 mg BID; N=228 Cymbalta 60 mg DD; N=115 Cymbalta 20 mg DD; N=223 placebo) with an incidence greater than placebo were: Sastrointestinal Disorders—nausea. constipation, diarthea. dry mouth, vomiting, dyspepsia, loose stools; General Disorders—muscle cramp, malgia; Mervous System and Disorders—somolence, headache, dirziness, tremor; Systhatric Disorders—insomnia; Renal and Unnary Disorders—ponlakiuria; Reproductive System and Breast Disorders—rectile dysfunction; Respiratory, Thoracic and Mediastinal Disorders—cough, pharyngolaryngeal pain; Skin and Subcutaneous Tissue Disorders—hyperhidrosis. The following events were reported by at least 2% of patients treated with Cymbalta for DPN and had an incidence ≤ placebo: edema peripheral, influenza, upper respiratory tract infection, back pain, arthralgia, pain in extremity, and pruritus. The most commonly observed adverse events in Cymbalta-treated DPN patients (incidence aS% and at least twice the incidence in placebo patients) were anawas, comsolineer, dizzines; constipation; dry mouth; hyperhidrosis; The indivence in placebo patients) were mase, constipation; dry mouth; hyperhidrosis; The most commonly observed adverse events in Cymbalta-treated DPN patients (incidence aS%) and at least twice is placebo: edema peripheral, influenza, upper respiratory tract infection, back pain, arthralgia, pain in extremity, and pruritus. The most commonly observed adverse events in Cymbalta-treated DPN patients (incidence aS%) and at least twice

the incidence in placebo patients) were: nausea; somnolence; dizziness; constipation; dry mouth; hyperhidrosis;

the incidence in placebo patients) were: nausea; somnolence; dizziness; constipation; dry mouth; hyperhidrosis; decreased appetite; and asthenia. <u>Generalized Anxiety Disorder</u>—Treatment-emergent adverse events that occurred in 2% or more of patients treated with Cymbalta in the premarketing acute phase of GAD placebo-controlled trials (dosse of 60-120 mg once daily) (M=668 (ymbalta; N=459 placebo) and with an incidence greater than placebo were: <u>Eve Disorders</u>—mison blurred; <u>Gastrointestinal Disorders</u>—nausea, dry mouth, constipation, diarrhea, vomiting, abdominal pain, dyspepsia; <u>General</u> <u>Disorders and Administration Site Conditions</u>—fatigue; <u>Metabolism and Nutrition Disorders</u>—misonia, libido decreased, agitation, orgasm abnormal; <u>Reproductive System and Breast Disorders</u>—ejaculation delayed, erectile dystruction; <u>Respiratory. Thoracic and Mediastinal Disorders</u>—ayawning; <u>Skin and Subcutaneous Tissue Disorders</u>—

hyperhidros: <u>respiratory</u> modes—hof luces. The following events were reported by at least 2% of patients treated with Cymbalta for GAD and had an incidence ≤ placebo: nasopharyngitis, upper respiratory tract infection, heachache, pollakiuria, and musculoskeletal pain (includes mvalgia, neck pain)

myagia, neck pain). The most commonly observed adverse events in Cymbalta-treated GAD patients (incidence ≥5% and at least twice the incidence in placebo patients) were: nausea; fatigue; dry mouth; somnolence; constipation; insomnia, appetite decreased; hyperhidrosis; libido decreased; vomiting; ejaculation delayed; and erectile dysfunction. Adverse events seen in men and women were generally similar except for effects on sexual function (described below). Clinical studies of Cymbalta did not suggest a difference in adverse event rates in people over or under 65 years of age. There were too few non-Caucasian patients studied to determine if these patients responded differently from Caucasian patients

Effects on Male and Female Sexual Function—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. Reliable estimates of the incidence and severity of untoward experiences involving sexual desire, performance and satisfaction are difficult to obtain, however, 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 understimate their actual incidence. Sexual side effects spontaneously reported by at least 2% of either male or female patients taking Cymbalta in MDD placebo-controlled trials were: Males (N=378 Cymbalta; N=247 placebo): orgasm abnormal (includes anorgasmia), ejaculatory dysfunction (includes ejaculation disorder and ejaculation failure), libido decreased, erectile dysfunction, ejaculation delayed. Females (N=761 Cymbalta; N=530 placebo): orgasm abnormal, libido decreased

libido decreased. Because adverse sexual events are presumed to be voluntarily underreported, the Arizona Sexual Experience Scale (ASEX), a validated measure designed to identify sexual side effects, was used prospectively in 4 MDD placebo-controlled trials. In these trials, patients treated with Cymbalta experienced significantly more sexual dysfunction, as measured by the total score on the ASEX, than did patients treated with placebo. Gender analysis showed that this difference occurred only in males. Males treated with Cymbalta experienced more difficulty with ability to reach orgasm (ASEX Item 4) than males treated with placebo. Females did not experience more sexual dysfunction on Cymbalta than on placebo as measured by ASEX total score. These studies did not, however, include an active control drug with known effects on female sexual dysfunction, so that there is no evidence that its effects differ from other antidepressants.

on placebo as 'measured by ASEX total score. These studies did not, 'nowever, include an active control drug with known effects on female sexual dysfunction, so that there is no evidence that its effects differ from other antidepressants. *Physicians* should routinely inquire about possible sexual side effects. See Table 5 in full PI for specific ASEX results. *Urinary Hesitation—*Cymbata is in a class of drugs known to affect urethral resistance. It's ymptoms of urinary hesitation develop during treatment with (fymbata, consideration should be given to the possibility that they might be drug-related. *Laboratory Changes—*Cymbata treatment, for up to 9 weeks in MDD, 9-10 weeks in GAD, or 13 weeks in DPN placebo-controlled clinical trials, was associated with small mean increases from baseline to endpoint in ALT, AST, CPK, and alkaline phosphatase; infrequent, modest, transient, abnormal values were observed for these analytes in clinical trials across iniciations, relative to placebo, duloxetine treatment was associated with mean increases of up to 2.1 mm Hg in systolic blood pressure and up to 2.3 mm Hg in disatolic blood pressure, averaging up to 2 mm Hg. There was no significant difference in the frequency of sustained (3 consecutive visits) elevated blood pressure (see PRECAUTIONS). Duloxetine treatment, for up to 13 weeks in placebo-controlled trials typically caused a small increase in heart rate compared to placebo dui to 3 beats per minute. *Weight Changes—* In placebo-controlled trials Line ADP placebo-controlled with Cymbata for up to 13 weeks experienced a mean weight loss of approximately 0.2 kg in placebo-treated patients. In DPN placebo-controlled trials treated with Cymbata for up to 13 weeks experienced a mean weight loss of approximately 0.5 kg, compared with a mean weight gain of approximately 0.2 kg in placebo-treated patients. In DPN placebo-controlled trials lasting up to 13 weeks. No clinicall trials exolutions thetween duloxetine-treated antelents endplacebo-treated patients and placeb

DRUG ABUSE AND DEPENDENCE: Controlled Substance Class-Duloxetine is not a controlled substance. Physical

UNUG ABUSE AND UPPENDENCE: Controlled Substance Class—Duloxettine is not a controlled substance. Physician and Psychological Dependence—In animal studies, duloxetine di not demonstrate barbiturate-like (depressant) abuse potential. In drug dependence studies, duloxetine di dont demonstrate dependence-producing potential in rats. While Cymbalta has not been systematically studied in humans for its potential for abuse, there was no indication of drug-seeking behavior in the clinical trials. However, it is not possible to predict on the basis of premarketing experience the extent to which a CNS-active drug will be misused, diverted, and/or abused once marketed. Consequently, physicians should carefully evaluate patients for a history of drug abuse and follow such patients closely. observing them for signs of misuse or abuse of Cymbalta (eg, development of tolerance, incrementation of dose, drugseeking behavior).

OVERDOSAGE: There is limited clinical experience with Cymbalta overdose in humans. In clinical trials, cases of acute Overhousable: There is limited clinical experience with cylindata divertorse in fluintaris. In clinical risks, cases of actue ingestions up to 3000 mg, alone or in combination with other drugs, were reported with none being fatal. However, in postmarketing experience, fatal outcomes have been reported for acute overdoses, primarily with mixed overdoses, but also with duloxetine only, at doses as low as approximately 1000 mg. Signs and symptoms of overdose (mostly with mixed drugs) included serotonin syndrome, somnolence, vomiting, and seizures. Management of Overdose—There is no specific antidote to Cymbalta, but if serotonin syndrome ensues, specific treatment (such as with cyproheptadine and/or temperature control) may be considered. In case of acute overdose, treatment should consist of those general measures omeland it the measures of the outdow. measures employed in the management of overdose with any drug.

Literature revised May 15, 2007 PV 5903 AMF



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Cymbalta® (duloxetine hydrochloride) Delaved-release Capsules

PV 5903 AMP

PRINTED IN USA

The effect of Agitation...

The effect of a start toward long-term symptom control

Physicians who elect to use ABILIFY for extended periods should periodically re-evaluate the long-term usefulness of the drug for the individual patient. In schizophrenia or bipolar mania

ABILIFY[®] (aripiprazole) Injection Rapidly Controls Agitation¹

Significant reduction in symptoms of agitation in schizophrenia as measured by PANSS[™]-EC score*



Adapted from Andrezina et al. Psychopharmacology (Berl). 2006.

*Last observation carried forward.

See study description on next page.

PANSS¹⁰-EC=Positive and Negative Syndrome Scale Excited Component. PANSS¹⁰⁰ is a trademark of Multi-Health Systems, Inc.

ABILIFY Injection is indicated for the treatment of agitation associated with schizophrenia or bipolar mania

ABILIFY is also 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.

Elderly patients with dementia-related psychosis treated with atypical antipsychotic drugs are at an increased risk (1.6 to 1.7 times) of death compared to placebo (4.5% vs 2.6%, respectively). ABILIFY is not approved for the treatment of patients with dementia-related psychosis.

Please see IMPORTANT SAFETY INFORMATION, including **Boxed WARNING**, on next page.



HELP ILLUMINATE THE PERSON WITHIN

IMPORTANT SAFETY INFORMATION for ABILIFY® (aripiprazole)

Elderly patients with dementia-related psychosis treated with atypical antipsychotic drugs are at an increased risk (1.6 to 1.7 times) of death compared to placebo (4.5% vs 2.6%, respectively). ABILIFY is not approved for the treatment of patients with dementia-related psychosis (see Boxed WARNING).

- Neuroleptic malignant syndrome (NMS)—As with all antipsychotic medications, a rare and potentially fatal condition known as NMS has been reported with ABILIFY. NMS can cause hyperpyrexia, muscle rigidity, diaphoresis, tachycardia, irregular pulse or blood pressure, cardiac dysrhythmia, and altered mental status. If signs and symptoms appear, immediate discontinuation is recommended
- Tardive dyskinesia (TD)-The risk of developing TD and the potential for it to become irreversible may increase as the duration of treatment and the total cumulative dose increase. Prescribing should be consistent with the need to minimize TD. If signs and symptoms appear, discontinuation should be considered since TD may remit, partially or completely
- 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

Hyperglycemia and diabetes mellitus-Hyperglycemia, in some cases associated with ketoacidosis, coma, or death, has been reported in patients treated with atypical antipsychotics including ABILIFY. Patients with diabetes should be monitored 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 should also undergo fasting blood glucose testing. There have been few reports of hyperglycemia with ABILIFY

Treatment-emergent adverse events reported with: ABILIFY Oral

In short-term trials of patients with schizophrenia (up to 6 weeks) or bipolar disorder (up to 3 weeks), the following were reported at an incidence $\geq 10\%$ and greater than placebo, respectively: headache (30% vs 25%), anxiety (20% vs 17%), insomnia (19% vs 14%), nausea (16% vs 12%), vomiting (12% vs 6%), dizziness (11% vs 8%), constipation (11% vs 7%), dyspepsia (10% vs 8%), and akathisia (10% vs 4%),

ABILIFY Injection

In short-term (24 hour) trials, the following were reported at an incidence \geq 5% and greater than placebo, respectively: headache (12% vs 7%), nausea (9% vs 3%), dizziness (8% vs 5%), and somnolence (7% vs 4%).

ABILIFY[®](aripiprazole) offers your patients:

- Rapid control of agitation*1
- Early and sustained symptom control
- Low potential of unwanted sedation
- Favorable weight and lipid profile
 - In a 52-week schizophrenia trial, the percentage of patients with ≥7% increase in baseline body weight was 30% for those with BMI <23, 19% for those with BMI 23 to 27, and 8% for those with BMI >27.
- *With ABILIFY Injection at primary endpoint (2 hours).

Physicians who elect to use ABILIFY for extended periods should periodically re-evaluate the long-term usefulness of the drug for the individual patient.

Study Description:

Double-blind, placebo-controlled, randomized, multicenser study conducted with 448 patients. If needed, concomitant hencodiazepine (loczoepani (4 mg/dzy) or equivalent) could be administered at least 60 minutes after the second injection. After completing the 24-hour IM phase, patients received blinded oral tablet analy medication corresponding to their initial treatment arm for 4 days. Patients randomized to arbitpteasole or placebo during the 24-hour IM phase received 15-mg aritpteasole oral tablets (with the option of decreasing to 10-mg aritptpearole based on clinical judgment).

References

 Andrezina B., Josiasen RC., Marcuz RN, et al. Intramuscular aripipezole for the treatment of acute schizophrenia or schizoaffective disorder: a double-blind, placebo-cosmolled comparison with intramuscular haloperidol. *Psychopharmanology (Berl)*, 2006;188:281-292.

Please see accompanying Brief Summary of FULL PRESCRIBING INFORMATION, including Boxed WARNING, for ABILIFY on following pages.

🛞 Bristol-Myers Squibb 🛛 📳 Otsuka America Pharmaceutical, Inc.

ABILIFY® (aripiprazole) **TABLETS**

ABILIFY[®] (aripiprazole) ORAL SOLUTION ABILIFY[®] DISCMELT[™] (aripiprazole) Orally Disintegrating Tablets ABILIFY[®] (aripiprazole) INJECTION FOR INTRAMUSCULAR USE ONLY BRIEF SUMMARY: PLEASE CONSULT PACKAGE INSERT FOR COMPLETE PRESCRIBING INFORMATION.

INCREASED MORTALITY IN ELDERLY PATIENTS WITH DEMENTIA-RELATED PSYCHOSIS

Increased mortal if in ELDERLY PATIENTS with DEWENTIA-REATED FORMS 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. Over the course of a typical 10-week appeared to be either cardiovascular (eg, heart failure, sudden death) or infectious (eg, pneumonia) in nature. ABILIFY is not approved for the treatment of patients with dementia-related psychosis.

CONTRAINDICATIONS: Known hypersensitivity to aripiprazole

WARNINGS: <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. ABLILFY (aripiprazole) is not approved for the treatment of patients with dementia-related psychosis (see Boxed WARNING).

Neuroleptic Malignant Syndrome (NMS): Potentially fatal NMS has been reported in association with administration of antipsychotic drugs, including ABILEY. Clinical manifestations 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. If signs and symptoms appear, immediate discontinuation is recommended (see Full Prescribing Information for additional information on management of NMS). Patients requiring antipsychotic drug treatment after recovery from NMS should be carefully monitored since recurrences of NMS have been reported.

Tardive Dyskinesia (TD): Potentially irreversible TD may develop in patients treated with antipsychotic Tardive Dyskinesia (TD): Potentially irreversible TD may develop in patients treated with antipsychotic drugs. Although the prevalence of TD appears to be highest among the defary, especially elderly women, it is impossible to predict which patients are more likely to develop the syndrome. The risk of developing TD and the potential for it to become irreversible may increase as the duration of treatment and the total cumulative does increase. Prescribing should be considered since TD may remit, partially or completely. Antipsychotic treatment, itself, may suppress (or partially suppress) the signs and symptoms of the syndrome and, thereby, may possibly mask the underlying process. 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. The need for continued treatment ishould be reasessed periodically.

The transmission of appropriate, the field of definition transmission of experisons of periodically. 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 (eg, stroke, transient ischemic attack), including fatalities, in aripiprazole-treated patients. In the fixed-dose study, there was a statistically significant dose response relationship for cerebrovascular adverse events in patients treated with aripiprazole. ABLIFY is not approved for the treatment of patients with dementia-related explosions. (See also Boxed WARNING, WARNINGS and PRECAUTIONS in Full Prescribing Information)

Boxed WARNING, WARNINGS and PRECAUTIONS in Full Prescribing information.) Hyperglycemia and Diabetes Mellitus: Hyperglycemia, in some cases associated with ketoacidosis, hyperosmolar coma or death, has been reported in patients treated with atypical antipsychotics including ABILFY. 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. 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 should undergo baseline and periodic fasting blood glucose (FBG) testing. Any patient being treated with an atypical antipsychotic should be monitored for symptoms of hyperglycemia and these who develop symptoms of hyperglycemia should also undergo FBG testing.

PRECAUTIONS: General:

PRECAUTIONS: General: Orthostatic Hypotension: ABILIFY may be associated with orthostatic hypotension, perhaps due to its α_1 -adrenergic receptor antagonism. The incidence of orthostatic hypotension-associated events from five short-term, placebe-controlled trials in schizophrenia (n=926) on oral ABILIFY included: orthostatic hypotension (1.9%), postural dizziness (0.8%), and syncope (0.6%). The incidence of orthostatic hypotension associated events from short-term, placebe-controlled trials in schizophrenia or here, placebe-controlled trials in bipolar mania (n=597) on oral ABILIFY included: orthostatic hypotension-associated events from short-term, placebe-controlled trials in bipolar mania (n=597) on oral ABILIFY included: orthostatic hypotension-associated events from short-term, placebe-controlled trials in agritation associated with schizophrenia or bipolar mania (n=501) on ABILIFY included: orthostatic hypotension (0.6%), postural dizziness (0.2%), and syncope (0.4%). The incidence of a significant orthostatic change in blood pressure (defined as a decrease of at least 30 mmHg in systellic blood pressure when changing from a supine to standing position) for aripiprazole was not statistically different from placebo in trials in patients with schizophrenia, bipolar mania, or agliation associated with schizophrenia or bipolar mania, and agliaton associated with schizophrenia or bipolar mania, and tradiment with antihypertensive medications). If parenteral berzodiazeline therapy is deemed necessary in addition to ABILIFY injection treatment, patients benuits to hypotension (dehydration, hypovelenia, and treatment with antihypertensive medications). If parenteral berzodiazepine therapy is deemed necessa

Seizures: In short-term trials, seizures/convulsions occurred in 0.1% (1/926) of oral aripiprazole-treated Setzumes: In sind retent thats, setzures/convariants accurate in 0.1% (1/320) to that antipitation-realized patients with schizophrenia, in 0.3% (2/329) of oral anjpitazole-treated patients with bipolar mania, and in 0.2% (1/501) of anipitrazole injection-treated patients with agitation associated with schizophrenia or bipolar mania. Use cautiously in patients with a history of seizures or with conditions that lower the seizure threshold. Conditions that lower the seizure threshold may be more prevalent in a population of 65 years or older.

Continuous that lower the set/off entersion may be indue prevalent in a population to be years to doub. **Potential for Cognitive and Motor Impairment:** Despite the relatively modest increased incidence of somolence compared to placebo, ABILIFY, like other antipsychotics, may have the potential to impair judgment, thinking, or motor skills. In short-term fraits, somnolence (including sedation) was reported in 10% of patients with schizophrenia on oral ABILIFY compared to 8% of patients on placebo; 14% of patients with bipolar mania on oral ABILIFY compared to 7% of patients on placebo; and in 9% of patients on placebo; and on bipolar mania on ABILIFY linjection compared to 6% of patients on placebo. 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 body temperature regulation has been attributed to antipsycholic agents. Use appropriate care when prescribing aripiprazole for patients who will be experiencing conditions that may contribute to an elevation in core body temperature.

Dysphagia: Esophageal dysmotility and aspiration have been associated with antipsychotic drug use, including ABILIFY. Aspiration pneumonia is a common cause of morbidity and mortality in patients with advanced Alzheimer's disease. ABILIFY and other antipsychotic drugs should be used cautiously in patients at risk for aspiration pneumonia.

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.

Use in Patients with Concomitant Illness: Clinical experience with ABILIFY in patients with certain concomitant systemic illnesses is limited. ABILIFY has not been evaluated or used to any appreciable extent in patients with a recent history of myocardial infarction or unstable heart disease.

In three, 10-week, placebo-controlled studies of aripiprazole in elderly patients with psychosis associated In the, TO-Week, placebo-controlled subles of anipplazole in elosity placems with psychols associated with Alzheimer's disease (n=238), the retarment-emergent adverse events that were reported at an incidence of a 3% and aripiprazole incidence at least twice that for placebo were lethargy, sonnolence (ninularing sedation), incontinence (primarily, unirary incontinence), avecasive salivation, and lightheadendess. ABILP' is not approved for treatment of patients with dementia-related psychosis. If the prescriber elects to treat such patients with ABILP', vigilance should be exercised, particularly for the emergence of difficulty swallowing or excessive salivation approxed in could predisorse to accidental injury or aspiration (See Boxed WARNING, WARNINGS and CLINICAL PHARMACOLOGY: Special Populations in Full Prescribing Information.) Information for Patients: Physicians are advised to discuss the following issues with patients for whom they prescribe ABILIFY (aripiprazole). See Full Prescribing Information for the complete information to discuss with patients taking ABILIFY:

Interference with Cognitive and Motor Performance: Patients should be cautioned about operating hazardous machinery, including automobiles, until they are reasonably certain that ABILIFY 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 over-the-counter drugs, since there is a potential for interactions. Heat Exposure and Dehydration: Patients should be advised regarding appropriate care in avoiding overheating and dehydration.

Phenylketonurics: Phenylalanine is a component of aspartame. Each ABILIFY DISCMELT orally disintegrating tablet contains the following amounts: 10 mg - 1.12 mg phenylalanine and 15 mg - 1.68 mg phenylalanine.

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

and 200 mg of muctose. **Drug Interactions:** Use caution when ABILIFY is taken in combination with other centrally acting drugs and alcohol. ABILIFY may enhance the effect of certain antihypertensive agents. ABILIFY is unlikely to cause clinically important drug interactions mediated by the enzymes CYP1A1, CYP1A2, CYP2A6, CYP2B6, CYP2C9, CYP2C9, CYP2C19, or CYP2C1 enzymes. *In vivo* studies using 10- to 30-mg/day doses of aripiprazole had no significant effect on metabolism by CYP2D6 (dextromethorphan), CYP2C9 (warfarin), CYP2C19 (omeprazole, warfarin), and CYP3A4 (dextromethorphan) substrates. No clinically significant effect of famotidine, valproate, or lithium was seen on the pharmacokinetics of antipiprazole.

Inducers of CYP3A4 (eg. carbamazepine) could cause an increase in anipiprazole clearance and lower blood levels. When a CYP3A4 inducer is added to ABILIFY, the dose of ABILIFY should be doubled. Additional dose increases should be based on clinical evaluation. When the CYP3A4 inducer is withdrawn from combination therapy, the ABILIFY dose should be reduced.

Carbamazepine: Coadministration of carbamazepine (200 mg BID) with ABILIFY (30 mg QD) resulted in an approximate 70% decrease in C_{max} and AUC values of aripiprazole and its active metabolite, dehydro-aripiprazole.

Inibitors of CYP3A4 (eg, ketoconazole) or CYP2D6 (eg, quinidine, fluoxetine, or paroxetine) can inhibit the elimination of aripiprazole and cause increased blood levels. When a strong CYP3A4 or CYP2D6 inhibitor is added to ABILIPY, the dose of ABILIPY should be reduced to one-half of the usual dose. When the CYP3A4 or CYP2D6 inhibitor is withdrawn from the combination therapy, the ABILIPY dose should then be increased.

Ketoconazole: Coadministration of ketoconazole (200 mg/day for 14 days) with a 15-mg single dose of ABILIFY increased the AUC of aripiprazole and its active metabolite by 63% and 77%, respectively.

Quinidine: Coadministration of a 10-mg single dose of ABILIFY with quinidine (166 mg/day for 13 days) increased the AUC of aripiprazole by 112% but decreased the AUC of its active metabolite, dehydro-aripiprazole, by 35%.

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.

coadrimistered with ethaniol on performance of gross motior skills or stimulus response in healthy subjects. As with most psychoactive medications, patients should be advised to avoid alcohol while taking ABILFY. Carcinogenesis, **Mutagenesis**, **Impairment of Fertility: Carcinogenesis**: Carcinogenicity studies were conducted in ICR mice and in Sprague-Dawley (SD) and F344 rats. Aripiprazole was administered for 2 years in the diet at doses of 1, 3, 10, and 30 mg/kg/day to ICR mice and at 10, 20, 40, 60 mg/kg/day 13 to 19 times the maximum recommended human dose (MHHD) based on mg/m²) to SD rats and 1, 3, and 10 mg/kg/day to F344 rats (0.2 to 5 and 0.3 to 3 times the MHD based on mg/m²) respectively. In dedition, SD rats were dosed orally for 2 years. Aripiprazole did not induce tumors in male mice or rats. In female mice, the incidences of pitulary gland adenomas and mammary gland adenocarcinomas and adenoacanthomas were increased at dietary doses of 3 to 30 mg/kg/day (0.1 to 0.9 times human exposure at MHD based on AUC and 0.5 to 5 times the MHHD based on mg/m²). In female rats, the incidences of adenocortical carcinomas and combined adrenoortical adenomas/carcinomas were increased at an oral dose of 60 mg/kg/day (14 times human exposure at MHHD based on mg/m²). These findings are considered to be prolactin-mediated. Increases in serum prolactin ware observed in a 13 week dietary study in female mice at doses used in the carcinogenicity study. Serum prolactin ware not increased in a 4- and 13 week dietary study in female rats. The relevance for human risk of prolactin-mediated endocrine tumors in rodents is unknown. **Mutagenesis:** Aripiprazole and a metabolite (2,3-DCPP) were clastogenic in the *in vitwo* informate alteration assay in Chinese hamster turg (CHL) cells, with and without metabolic activation. Estima cycle irregularities and increased on rouman risk or prolactin-mediated endocrine tumors in modernis unknown. **Mutagenesis:** Aripiprazole and a metabolite (2,3-DCPP) produced

Pregnancy Category C: There are no adequate and well-controlled studies in pregnant women. Aripiprazole should be used in pregnancy only if the potential benefit justifies the potential risk to the fetus. In animal studies, aripiprazole demonstrated developmental toxicity, including possible teratogenic effects in rats and rabbits.

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

Nursing Mothers: Anipiprazole 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.

requarric use: sarely and enectworess in pediatric and adolescent patients have not been established. Geriatric Use: Placebo-controlled studies of oral 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 (a65 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 Alzheiner's disease have suggested that there may be a different tolerability profile in this population compared to younger patients with schizophrenia. (See also Boxed WARNING, WARNINGS and VRECAUTIONS in Full Prescribing Information.) ADVERSE FRACTIONS

ADVERSE REACTIONS

Advisor neorona and the safety in 8456 patients who participated in multiple-dose, clinical trials in schizophrenia, bipolar mania, and dementia of the Alzheimer's type, and who had approximately 5635 patient-years of exposure to oral aripiprazole and 749 patients with exposure to aripiprazole injection. A total of 2442 patients were treated with oral aripiprazole for at least 180 days and 1667 patients treated with oral aripiprazole and at least 1 year of exposure. Adverse Events Associated with Discontinuation of Treatment: Overall, there was little difference in the

Adverse Events Associated with discontinuation or relatinent: Overlai, there was note directed in the incidence of discontinuation due to adverse events in placebo-controlled oral aripiprazole indis (aripiprazole vs placebo: schizophrenia, 7% vs 9%, bipolar mania, 11% vs 9%, or in placebo-controlled intramuscular aripiprazole injection trials (aripiprazole injection, 0.8%; placebo 0.5%). The types of adverse events that led to discontinuation were similar between the oral aripiprazole and placebo-treated patients.

to discommutation were similar between the ortal anjpirazole and placeto-inteace placeto. **Commonly Observed Adverse Events:** (a5% incidence and at a rate at least twice the rate of placebo for ABILPY vs placebo, respectively): In 4- to 6-week, placebo-controlled, schizophrenia trials (2 to 30 mg/day), the one commonly observed adverse event associated with the use of oral anjpirazole was: aktilisia (3%, 4%). In 3-week, placebo-controlled, biplar mania trisls (15 or 30 mg/day), the most common adverse events associated with oral anjpirazole were: akathisia (15%, 3%), constipation (13%, 6%), sedation (8%, 3%), thermor (7%, 3%), restlessness (6%, 3%), extrapyramidal disorder (5%, 2%). In 24-hour placebo-controlled trials of intramuscular anjpirazole injection for associated with schizophrenia or bipolar mania, nausea was the one adverse event observed (9%, 3%).

Adverse Events with an Incidence ≥2% in Oral Aripiprazole Trials: The following treatment-emergent

events were reported at an incidence of ≥2% with oral aripiprazole (doses ≥2 mg/d), and at a greater incidence with aripiprazole than with placebo in short-term placebo-controlled trials (aripiprazole N=1523, placebo N=849), respectively, were: headache (30%, 25%), anxiety (20%, 17%), insomnia (19%, 14%), nausea (16%, 12%), owniting (12%, 6%), diziness (11%, 8%), constipation (11%, 7%), dyspepsia (10%, 8%), aktralisa (10%, 4%), settapyranidal disorder (6%, 4%), somolence (5%, 4%), dry mouth (5%, 4%), arthraligia (5%, 4%), tremor (5%, 3%), nessal congestion (3%, 2%), sabominal discontort (3%, 2%), somolence (5%, 4%), nessal congestion in extremity (4%, 2%), coupl (3%, 2%), nesal congestion (3%, 2%), biomach discomfort (3%, 2%), pain (3%, 2%), vision blurred (3%, 1%), salivary hypersecretion (2%, 1%), paripheral edema (2%, 1%), hypertension (including blod pressure increased) (2%, 1%). The following events were reported by patients treated with oral aripiprazole with an incidence equal to or less than placebo: diarrhea, toothache, upper abdominal pain, abdominal pain, musculoskeletal stiffness, back pain, myalgia, agitation, psychotic disorder, dysmenorrhea (percentage based on gender total), and rash. (percentage based on gender total), and rash.

(percentage based in gender total), and rash. Adverse Events with an Incidence \geq 1% in Intramuscular Aripiprazole Injection Trials: The following treatment-emergent events were reported at an incidence \geq 1% with intramuscular aripiprazole injection (doese \geq 5.25 mg/day) and at incidence greater than placebo in 24-hour, placebo-controlled trials (aripiprazole injection N=501, placebo N=220) in agitated patients with schizophrenia or bipolar mania, respectively, include: headache (12%, 7%), nausea (9%, 3%), dizziness (8%, 5%), somolence (7%, 4%), sedation (3%, 2%), vomiting (3%, 1%), fatigue (2%, 1%), tachycardia (2%, <1%), akathisia (2%, 0%), dyspepsia (1%, <1%), the following events were reported by patients treated with aripiprazole injection with an incidence equal to reless than placebo: injection site pain, injection site burning, insomna, agitation.

Dose-Related Adverse Events: Dose response relationships for the incidence of treatment-emergent adverse events were evaluated from four trais in patients with schizophrenia comparing various fixed doses (2, 5, 10, 15, 20, and 30 mg/day) of oral aripiprazole to placebo. The one adverse event to have a possible dose response relationship was somolence (including sedation) which was most prominent at the 30 mg/day dose (placebo, 7.1%; 10 mg, 8.5%; 15 mg, 8.7%; 20 mg, 7.5%; 30 mg, 12.6%).

Extrapyramidal Symptoms: In the short-term, placebo-controlled trials of schizophrenia, the incidence of Extrapyramidal Symptoms: In the short-term, placebo-controlled trials of schizophrenia, the incidence of reported EPS-related events, excluding events related to akathisia was (oral aripiprazole 13%, placebo 12%) and the incidence of akathisia-related events was (oral aripiprazole 8%, placebo 4%). In the short-term, placebo-controlled trials in bipolar mania, the incidence of reported EPS-related events, excluding events related to akathisia was (oral aripiprazole 15%, placebo 8%) and the incidence of akathisia-related events was (oral aripiprazole 15%, placebo 4%). In the placebo-controlled trials in patients with seltzophrenia or bipolar mania, the incidence of reported EPS-related events excluding events related to akathisia was (aripiprazole injection 2%, placebo 2%) and the incidence of akathisia-related events was (ariniar projein injection 2%, placebo 2%) and the incidence of akathisia-related was (argued events) in the placebo-controlled trials in patients with seltzophrenia or bipolar mania, the incidence of reported EPS-related events excluding events related to akathisia was (aripiprazole injection 2%, placebo 2%) and the incidence of akathisia-related events was (ariniar angued in interimo 2%, placebo 2%) and the incidence of akathisiarelated events was (aripiprazole injection 2%, placebo 0%).

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 electric terms the mean chence from headles in protein in contents of the placebo-controlled trial there were no medically important differences between the aripiprazole and electric terms trialworld. and placebo patients in the mean change from baseline in prolactin, fasting glucose, triglyceride, HDL, LDL, and total cholesterol measurements.

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 z7% of body weight [aripiprazole (8%) compared to placebo (3%)]. In 3-week trials in mania, the mean weight gain for aripiprazole and placebo patients was 0.0 kg vs. -0.2 kg, respectively. The proportion of patients meeting a weight gain criterion of z7% of body weight was aripiprazole (3%) compared to placebo (2%). In a 26-week schizophrenia trial, weight change, respectively, for ABLLPY (and placebo-treated patients was -0.5 kg and -0.5 kg for those with BMI EMI = 23, -1.3 kg and -0.6 kg for those with BMI = 23 to 27, and -2.1 kg and -1.5 kg for those with BMI > 23. The percentage of ABILIPY- and placebo-treated patients, respectively, with z7% increase in baseline body weight was 6.8% and 3.7% for those with BMI < 23, 5.1% and 4.2% for those with BMI > 23 to 27, and -1.2 kg for those with BMI > 23. Patients was 2.6 kg for those with BMI < 23, 1.4 kg for those with BMI 23 to 27, and -1.2 kg for those with BMI > 27. The percentage of ABILIPY-treated patients with z7% increase in baseline body weight was 2.6 kg for those with BMI > 23, 1.4 kg for those with BMI > 23 to 27, and -2.6 kg for those with BMI > 27. The percentage of ABILIPY-treated patients with z7% increase in baseline body weight was 30% for those with BMI < 23, 1.9% for those with BMI > 24 to 27, and -2.6 kg for those with BMI > 27. The percentage of ABILIPY-treated patients with z7% increase in baseline body weight was 30% for those with BMI < 23, 1.9% for those with BMI > 24 to 27, and -2.8 kg for those with BMI > 27. The percentage of ABILIPY-treated patients with z7% increase in baseline body weight was 30% for those with BMI < 23, 1.9% for those with BMI > 24 to 27, and 2.8 kg for those with BMI > 27. The percentage

ECG Changes: Pooled analysis of placebo-controlled trials in patients with schizophrenia or bipolar mania Eco Changes: Police analysis of placeo-controlled trials in justices with solicophrenia or bipolar maina treated with oral anipiprazole or in patients with agritation associated with schizophrenia or bipolar maina treated with intramuscular aripiprazole injection, revealed no significant differences between aripiprazole and placebo of potentially important changes in ECG parameters. Oral 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.

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

The adverse events reported in a 26-week, double-blind trial comparing oral ABILIFY and placebo in patients with schizophrenia or bipolar mania were generally consistent with those reported in the short-term, placebo-controlled trials, except for a higher incidence of tremor (ABILIFY 8% vs placebo 2%).

Other Adverse Events Observed During the Premarketing Evaluation of Oral Aripiprazole

The following adverse events were reported with oral aripiprazole at multiple doses ≥ 2 mg/day in clinical trials (8456 patients, 5365 patient) years of exposure). This list may not include events prevously listed essewhere in the labeling those events for which a drug cause was remote, those terms which were so general as to be uninformative, and those events reported with an incidence of $\leq 0.05\%$ and which did not general as to be uninformative, and those events reported with an incidence of $\pm 0.05\%$ and which did not have a substantial probability of being acutely life-threatening. Frequent events are those occurring in the events are those occurring in the test 1/100 patients; *intrequent events* are those occurring in the test of 1/100 patients; *rare events* are those occurring in the distribution of the test of test of the test of te hypothylotinsin, *nate* - guitte, injterparativotusin, injterpartivotusin, eye Disbutes, reducting conjunctivitis, *infrequent* - eye redness, eye irritation increased; *Bare* - eyelid tunction disorder, coulogration, eyelid odeema, photophobia, diplogia, eyelid ptosis, eye haemorrhage. **Castrointestinal Disorders:** Frequent - loose stools; *infrequent* - flatulence, dysphagia, gastroesophageal reflux disease, gastriits, haemorrhoids, abdominal distension, faecal incontinence, haematochezia, gingiyal pain, rectal haemorrhage, abdominal pain lower, oral pain, retching, faecaloma, gastrointestinal haemorrhage, **diser** (including gastric, duodenal, peptic), tooth fracture, gingiyitis, lip dry; *Rare* - abdominal tendeness, chapped lips, periodontitis, aptvalism, gastrointestinal pain, hypoaestitesia oral, inguinal hernia, swollen tongue, colitis, haematemesis, hyperchlorhydria, irritable bowel syndrome, cesophagitis, faetases hard, gingiyal bleeding, glossodynia, mouth ulceration, reflux oesophagitis, cheititis, intestinal obstruction, pancreatitis, eructation, gastric ulcer haemorrhage, melaena, glossitis, stomatitis. **General Disorders and Administration** Site **Conditions:** Frequent - ashenia, pyrexia, chest pain, gait disturbance, Infraquent malaise, oedema, influenza-like iliness; chilis, general physical health deteiroration, feeling ittery, mobility decreased, thirst, feeling cold, difficulty in walking, facial pain, sluggishness, condition agravated; *Rare* - holentitis, onvchorwcosis, vaginal, energy increased, inflammation, abasia, varosis, feeling hot, hyperthermia, hypothermia. **Hepatobiliary Disorders:** Infrequent - cholecystitis (including gacute and chronic); *Rare* - choleithiasis, hepatitis. Immune System Disorders: Infrequent - bilster, scratch, joint spran, tum, muscle strain, periorbita haematoma, arthropod bile/sting, head injury, suburr, *Rare* - joint dislocation, alcohol poisoning, road traffic accident, septit shock. *Injury, Poisoning, and Procedural Complications:* Frequent - 10kod ta

count increased, platelet count increased, red blood cell count decreased, white blood cell count decreased, blood potassium increased, neutrophil count decreased, urine output decreased, blood creatine phosphokinase MB increased, ECG signs of myocardial ischemia, electrocardiogram T-wave inversion, phosphokinase MB increased, ECG signs of myocardial ischemia, electrocardiogram T-wave inversion, heart rate decreased, tuberculin test positive, glucose urine present, glycosylated haemoglobin increased. Metabolism and Nutrition Disorders: Frequent - decreased appetite, lipcusche terzinarkedly reduced dietary intake), delivoration, infraquent - anorexia, increased appetite, hypercholesterolaemia, hypokalaemia, hyperglycaemia, diabetes mellitus, hypoglycaemia, hyponatremia, diabetes mellitus non-insulin-dependent, hyperlipidaemia, obesity (including overweight), polydipsia, Pare -hypertriglyceridaemia, gour hyperatriane, weight fluctuation, diabetes mellitus inadequate control. Musculoskeletal and Connective Tissue Disorders: Frequent - musculoskeleta pain (including pain fluctus), betar weil beach buttook ergina flagering hore beach beach englisher beach beach beach buttook ergina flagering hore buttook ergina flagering chest wall, bone, buttock, groin, flank, musculoskeleta chest, public, and sacrail, muscle rigidity, muscle cramp; Infrequent - muscle twitching, joint swelling, muscle spasms, muscle tightness, arthritis, osteoarthritis, muscular weakness, joint range of motion decreased, sensation of heaviness; Rare cramp: Infraquent - musčle tvittching, joint swelling, muscle spasms, muscle tightnës, arthritis, osteoarthritis, muscular weakness, joint range of motion decreased, senastion of heaviness; Rare-tendonitis, osteoporosis, trismus, arthropathy, bursitis, exostosis, night cramps, coccydynia, joint contracture, localised osteoarthritis, osteopenia, rhabdomyolysis, costochondritis, rheumatoli arthritis, torticolits. *Nervous System Disorders: Frequent* - lethargy, dyskinesia, Infraquent - disturbance in attention, parkinsonism, dystonia, drooling, cogwheel rigidity, dysarthria, paraesthesia, hypoaetilesia, logo of consciousness (including depressed level of consciousness), hypersomina, psychomotor hyperaclivity, balance disorder, cerebrovascular accident, hypokinesia, tardive dyskinesia, memory impairment, amnesia, ataxia, dementa, hypotonia, burning sensation, dysgeussi, restless leg syndrome, hypertonia, Parkinson's disease, akinesia, dysphasia, transient ischaemic attack, facial palsy, hemiparesis, mycolonus, sciatica; *Rare* - bradykinesia, coordination abnormal, cognitive disorder, syncope vasovagal, carpal tunnei syndrome, hyporellexia, intention tremor, muscle contractions involuntary, sleep apnea syndrome, dementia Alzheimer's type, epilepsy, hyperrelfexia, masication disorder, mental impairment, nerve compression, parkinsonian gait, tonge paralysis, aphasia, choreadthesis, formication, masked facies, neuralgia, paresthesia, haemorrhage intracranial, ischaemic stroke, judgrennt impaired, subarachnoid haemorrhage. **Psychiatric Disorders:** Frequent - schizophrenia (including schizoaffective disorder), depression (including depressive symptom), hallucination fincluding auditory, visual, tactile, mixed, olfactory, and somatic, mod altered (including depressed, euphorc, elevated, and mood swings), paranoia, irritability, suicida lideation, contusional state, aggression, mania, delusion (including persecutory, perception, somatic, and granedur); hifrequent - testhang, dysohoria, completed suicide, fat affect, imp Sucial avoludant behaviour, psycholiotor testino dublic, solubilitiss, and solubility, and sol Mattion, tudpout, auto intracological i constructional i constructional organization in construction in the severals, rash erythematous, Rare - rash scaly, uriticaria, rash maculopapular, rosacea, seborrhoea, periorbital oedema, rash vesicular. Vascular Disorders: Frequent - hypotension; Infrequent - hot flush (including flushing), haematoma, deep vein thrombosis, phlebitis; Rare - pallor, petechiae, varicose vein, circulatory collapse, haemorrhage, thrombophlebitis, shock.

Other Adverse Events Observed During the Premarketing Evaluation of Aripiprazole Injection

The following adverse events were reported with aripiprazole injection at doses $\geq 1 \mod day$ in clinical trials The following adverse events were reported with aripiprazole injection at doses ≥1 mg/day in clinical trials (749 patients). This list may not include events previously listed deswhere in the labeling, those events for which a drug cause was remote, those terms which were so general as to be uninformative, and those events reported with an incidence of ±0.05% and which did not have a substantial probability of being acutely life-threatening. Frequent events are those occurring in 1/100 to 1/1000 patients; rare events are those occurring in fewer than 1/1000 patients. Far and Labyrinth Disorders: Infrequent - hyperacusis. General Disorders and Administration Site Conditions: Infrequent - injection site stinging, abnormal feeling, injection site pruritus, injection site bruise. Infrequent - blood pressure abnormal, heart rate irregular, electrocardiogram T-wave abnormal. Psychiatric Disorders: Infrequent - blood pressure abnormal, heart rate irregular, electrocardiogram T-wave abnormal. Psychiatric Disorders: Infrequent - hand Mediastinal Disorders: Infrequent - pharyngolaryngeal pain, nasal congestion. Vascular Disorders: Infrequent - blood pressure disorders: Infrequent, Disorders: Infrequent - pharyngolaryngeal pain, nasal congestion. Vascular Disorders: Infrequent - blood pressure fluctuation.

Postintroduction Reports: Reported since market introduction and temporally (not necessarily causally) related to aripiprazole therapy: allergic reaction (eg, anaphylactic reaction, angioedema, laryngospasm, oropharyngeal spasm, pruritis, or urticaria), grand mal seizure, and jaundice.

DRUG ABUSE AND DEPENDENCE: Aripiprazole is not a controlled substance

Abuse and Dependence: Aripiprazole has not been systematically studied in humans for its potential for Adduse and Dependence: Alight active has not been systematically source in mountains for its potential to abuse, toterance, or physical dependence. While the clinical irrais did not reveal any tendency for any drug-seeking behavior, 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. Patients should be evaluated carefully for a history of drug abuse and closely observed for signs of ABILIFY (aripiprazole) misuse or abuse.

carefully for a history of drug abuse and closely observed for signs of ABILHY (anp)prizzole) misuse of abuse. **OVERDOSAGE:** To cases of deliberate or accidental overdosage with oral ABILHY alone or in combination with other substances were reported worldwide [44 cases with known outcome, 33 recovered without sequelae and one recovered with sequelae (mydriasis and feeling abnormal). Additionally, 10 of these cases were in children (age 12 and younger) involving oral arbiprazole ingestions up to 195 mg with no fatalities. The largest known acute ingestion was 1080 mg of oral aripiprazole [36 times maximum recommended daily dose) in a patient who fully recovered. Common adverse events (reported in at least 5% of all overdose cases) were vomiting, somolence, and tremor. For more information on symptoms of nvertose case full Breaction. of overdose, see Full Prescribing Information.

of overdose, see Full Prescribing information. Management of Overdosage: No specific information is available on the treatment of overdose with anipiprazole. An electrocardiogram should be obtained in case of overdosage and, if QTc interval prolongation is present, cardiac monitoring should be instituted. 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. **Charcoal:** In the event of an overdose of ABLIFY, an early charcoal administration may be useful in partially preventing the absorption of aripiprazole. Administration of 50 g of activated charcoal, one hour after a single 15-mg oral dose of aripiprazole, decreased the mean AUC and C_{max} of aripiprazole by 50%. **Hemotalitysis:** Athrough there is no information on the effect of hemotalitysis 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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References: 1. Colton CW, Manderscheid RW. Congruencies in increased mortality rates, years of potential life lost, and causes of death among public mental health clients in eight states. *Prev Chronic Dis* [serial online]. 2006 April;3(2). Available at: http://www.cdc.gov/pcd/issues/2006/apr/05_0180.htm. Accessed December 7, 2006. 2. Miller BJ, Paschall CB III, Svendsen DP. Mortality and medical comorbidity among patients with serious mental illness. *Psychiatr Serv*. 2006;57:1482-1487. 3. *Third Report of the National Cholesterol Education Program (NCEP) Expert Panel on Detection, Evaluation, and Treatment of High Blood Cholesterol in Adults (Adult Treatment Panel III) Executive Summary*. Bethesda, Md: National Institutes of Health, National Heart, Lung, and Blood Institute; 2001. NIH publication 01-3670.

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Representative patient portrayal

Meet Matthew, age 12, who has ADHD Combined Type with comorbid ODD*

- · Doesn't finish tests or schoolwork
- Forgets to do homework and chores
- Argues with teachers and parents
 *00D=Oppositional Defiant Disorder; CD=Conduct Disorder.



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- Reduces ADHD symptoms in children with ADHD and ODD/CD* as well as in patients with ADHD alone¹
- Improves academic performance and classroom behavior in children with ADHD²
- Significantly reduces ADHD symptoms and conflict with family members in adolescents with ADHD³

Important Safety Information

CONCERTA® is indicated for the treatment of ADHD in children and adolescents. CONCERTA® should not be taken by patients with: significant anxiety, tension, or agitation; allergies to methylphenidate or other ingredients in CONCERTA®; glaucoma; Tourette's syndrome, tics, or family history of Tourette's syndrome; current/recent use of monoamine oxidase inhibitors (MAOIs). Children under 6 years of age should not take CONCERTA®. Abuse of methylphenidate may lead to dependence.

Use with caution in patients with psychosis, bipolar disorder, history of seizures/ EEG abnormalities, and hypertension. CONCERTA® should not be used in patients with pre-existing severe gastrointestinal narrowing, known structural cardiac abnormalities, or other serious heart problems. Stimulants may cause new psychotic or manic symptoms; discontinuation of treatment may be appropriate. Aggressive behavior or hostility should be monitored in patients beginning treatment. Methylphenidate may produce difficulties with accommodation and blurring of vision. Hematologic monitoring is advised during prolonged therapy.

The most common adverse events reported in children aged 6 to 12 years receiving up to 54 mg were headache (14%), upper respiratory tract infection (8%), and abdominal pain (7%). The most common adverse events reported in adolescents receiving up to 72 mg were headache (9%), accidental injury (6%), and insomnia (5%).

Please see brief summary of full prescribing information and references on next page.

CON07-034

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CONCERTA® C (methylphenidate HCI) Extended-release Tablets

ARIEF SUMMARY: Please see full prescribing information. DESCRIPTION

⁹ is a central nervous system (CNS) stimulant, CONCERTA¹ is available in four tab. strengths. Each extended-release fablet for ence-e-day oral administration contains 18, 27, 36, or 54 mg of methylphenidate HCI USP and is designed to have a 12-hour duration of effect. CONTRAINDICATIONS

Agitation: CONCERTA® is contraindicated in patients with marked anxiety tension, and agitation,

Server the drug may approve these symptoms Reperseasively to Methylapenidate: CONCENTA* is containdicated in patients known to be hypersemalitive to methylapenidate: control components of the product. Glascenar, CORCENTA* is contraindicated in patients with glascome.

Galactions, Lonzenier & contrainscaro Inplement with generative These CONCENTRY & contraindicated in guidents with inter to so years with a tamily testory or diagnosis of Tourite's sundrome (see ADVEPSE REACTIONS). Monosamile Dridsee Inhibitors, CONCENTRY is contraindicated during treatment with monosamile Dridsee (MAX) inhibitors, and also unities a minimum of 14 days toloxieng discontinuation of a MAX-inhibitor (hypertensive cross may result) (see PRECAUTIONS).

Drug Interactions) WERNINGS

WARNESS Servinas Carolisovascular Events: Sudden Death and Pre-existing Structural Cardiac Recomatities or Other Serious Heart Problems Dhalom and Acclerateris: Sudden death has been reported in association with CPUs trimulant trethermit at associations on children and acclerators with structural cardiac astocramities or other serious heart problems. Although some serious heart problems alone carry an increased risk of sudden death, stimulant products generally should not be used in children or addescents with known serious structural cardiac zbnormalites, cardionyopathy, serious heart rhytrin abnormalities, or other serious cardiac problems that may place them at increased valmenability

to the sympathonismetic effects of a stansalant drug. Adults: Sudden deaths, stroke, and myocandial infanction have been imported in adults taking stimulant drugs at usual dooles for ADHD, Atthough the role of stimulants in these adult cases is also unknown, adults have a greater likelihood than children of having serious structural cardiac abromaities, cardiomyopathy, serious heart inlyttim abnormalities, coronary artery docese, or other serious cardiac problems. Adults with such abnormalities should also generally not be treated with stimulant drugs.

pe reveal new services reago. Hypertension and other Cartineurstater Carditions: Stematert medications cause a modest noncesse in average blood pressure (about 2-4 mmHg) and average heart rate (about 3-6 topm) (see Adverse Reactions-Hypertensium), and individuals may have larger increases. While the nean chances alone would not be expected to have short-term conservations, all patients Insuit data get and in too the de relation to the end of the second end of the secon

impozitima etaction or virtecuta antytima. Accessing condisestant Status in Polinitis being Treated with Stimulart Medications Oxidem, adolescents, or adults who are being considered for treatment with stimulart medications, should have a careful History (including assessment for a tamlify history of solution status viewinciate antihytima) and physical exists has assess. For the presence of cardiac disease, and should nocke further cardiac evaluation # findings toogent such deelse (e.g., electrocardiopan and echocardiopan). Patienti who device synchroni such as eventional chest pain, unequianed syncape, or other symptoms suggestive of cardiac deelse during stimulant instment should undergo a prompt cardiac realization.

Psychiatric Adverse Events: Pre-Existing Psycholas: Administration of stimularts may expertate symptoms of behavior and thought disorder in patients with a pre-existing

Boolar Reess: Particular care should be taken in using stimulants to Inst ADHD in paterts with comobilid byolar dearder because of concern for possible induction of a mixed htranic episode in such patients. Prior to initiating treatment with a stimulant, patients with comorbal depressive symptoms should be adequately scienced to determine if Teny and it.

which could be depresent spinption in which de adaptation to advanting a demined to the set of the stimulant, and discontinuation of treatment may be appropriate. In a pooled analysis of multiple short-term, pilotebe-controlled studies, such symptoms occurred in about 0.1% (4 patients with events out of 0482 exposed to methylphenidate or amphetamice for several senies at usual levers) of stimulant-braited outlents compared to 0 in placebo-braited patients.

decision of low-later-induced patients of our patients of patients of the p

Long-Term Suppression of Growth: Careful follow-up of weight and height in children ages 7 to 10 years who were randomized to effect methylpheniate or non-medication treatment props over 14 months, as well as in naturalistic subgroups of neuly methylpheniate-heated and non-medication treated children over 36 months (to the ages of 10 to 13 years), suggests that consistently modicated children (i.e. treatment for 7 days per week throughout the year) taxe a temporary solving in growth safe (on average, a trut of about 2 on ties growth in height and 27 kg less growth in weight over 3 years), without evidence of growth indoord during this period of devisionment. Publicate status are indequale to adverse whether drovic use of amphetamines may cause similar suppression of growth, however, it is anticipated that they likely have this effect as well. Therefore, growth should be monitored during trastment with stemularity, and patients who are not growing or gaining height or weight as expected may need

to have their treatment interrupted. Seizures: There is some clinical evidence that stimularits may low ver the convulsive threshold In patients with prior history of secures, in patients with prior EEG abcompaties in absence of secures, and, very rarely, in patients without a history of secures and no prior EEG evidence of secures, in the presence of secures, the drug should be documented.

Visual Disturbance: Cifficulties with accommodation and bluming of vision have been reported with stimulant triatment.

Petential for Gastrointestinal Obstruction: Gecause the CONCENTA[®] tablet is nondeformable and does not approciably change in shape in the GI tract, CONCENTA[®] should not ordinarily be administered to patients with presenting severe patholetestrial nanowing (pathologic or al-rogenic, for example escopagal motility descrites, small borei inflammatary floates, short pathorase, chronic instituti possibilities descrites from pathology of performine, syste floates, chronic instituti possibilities (Medialiti Swintcuum). There have been me Terrors, choine these an processed sector (or recently service and the controlled regords of otherwise synchrons regulaters with investment archers as a secondario with the rege-tion of drugs in nondeformable controlled-release formulations. Due to the controlled-release design of the table, CONCETTA' should only be used in patients who are able to building the table whole your PRECATIONS's Internation for Patients). Use in Children Under Six Years of Age: CONCETTA' should not be used in children under six years, since safety and efficacy in this age group faste not been established.

DRUG DEPENDENCE

CONCERDA[®] should be given cautiously to patients with a history of doug dependence or atcoholism. Chronic abosive see care lead to marked tolerance and psychological depeneconomics consists and consists and consists on memory amongs and (bit)conception depen-dence with varying degrees of all anomal behavior. Trains (porthodic products can occur, especially with parenteel above. Candid supportions is required during withorbase) from abuve use support event depression may occur. Withorbase 10 form growth through use may summark symptoms of the underlying disorder that may require follow-up. PRECAUTIONS

agic Monitoring: Periodic CBC, differential, and platelet counts are advised during

processing tempsy-biocrastics for Patients: Patients should be interned that CONCERTA[®] should be surflowed whole with the aid of lexists. Tablets should not be cheved, divided, or crusted. The medication is contained within a romationshable shell designed to release the drug at a controlled rate. The tablet shell, along with insoluble core components,

is eliminated from the body patients should not be concerned if they occasionally notice in their stool something that looks like a tablet.

Brog Interactions: COVERTRY should not be used in patients being treated (currently or within the proceeding 2 weeks) with MAD inhibitors (see CONTRAID/CATTORS, Monoammer Declare Inhibitors), Because of possible increases in blood pressure, CONCERTA' should be unues instored, bitation of portion for these in short presence control to the short that and caudooutly with valoprenary agent. Human pharmacologic sheet have short that methylpheniate may inhibit the metabolism of countain anticoaguiers, anticonvolutints (a) phenotanitiat, phenyton; primdove); and some antidopressame (hisydica and selective sections: mulpiles inhibitos). Downward does adjustment of these does may be enaived interrupives conconstantly with methylphinidate. In may be necessary to adjust the doesge and monitor planta drug concentrations (or, in the case of countains, casgailation times), when have before or doesding and constraints methylphinidate. Scheme antice have, awards have been adviced and the second and adviced and the second and the beautions. initiating or discontinuing concornitiant methyloheridate. Serious adverse events have been eported in conconitant use with donidine, although no causality for the continuation has been stabilisted. The safety of using methylphenidate in containation with clonidine or other centrality ating alpha-2 apprents has not been systematically evaluated.

Cartinopeneis, Mutageneia, and Impainment of Fertility, in a lifetime cartinopenicity study cartied out in 1903F1 mice, methylphenidate caused an increase in hepatocelular adenoma and, is males only, an increase in hepatoblastomas at a daily dole of approximately 60 rigNg/day. This share is approximately 30 bries and 4 times the maximum recommended suman dose of CONCERTA* on a mg/kg and mg/m* tasis, respectively. Healabilisations is a islatively care indext malignant tumor type. There was no increase in table malignant tegate turbins. The mouse strain used is sensitive to the development of hegatic turbins, and the significance of these results to humans is unknown. Methylphendate did not cause any homases in turbins in a setting carbongenicity study camele out in 1344 sets. The highest done used was approximately 45 mg/kg/stu, which is approximately 22 times and 5 times the maximum recommended human dose of CONCERTAP or a mg/kg and mg/mb basis, respectively. In a 24-week carbongenicity study in the basisgonic mouse strain gis34-1, which is sensitive to genotocic carbongenicity study in the basisgonic mouse strain gis34-1, which is sensitive to genotocic carbongenicity study in the basisgonic counce strain gis34-1. When themais more were look data containing the same concentration or instrain/particular as in the litterine carbongenicity study, the high-dose groups were reported to 60 to 74 mg/kg/tag of methylphendate. Methylphendate was not in maximum static assass. Setter strained in centuring endurone and than one static carbongenic trained assas or the wine mouse kontrologic control mutagonic in the wintho Armes resume mutation. ato turbors. The mouse strain used is sensitive to the development of hepatic turbors assay to the e-vitro mouse lymphome cell forward mutation assay. Seter chromatid exchanges and chromosome advertations were increased, indicative of a visual classogenic response, in an air vitro assay in cultured Chinese Harnster Ovary cells. Methylphenidate was regative in vivo in males and females in the mouse bone marrow micronucleus assay. Methylphenidate did not impair lettility in male or female mice that were field dets containing the drug in an 15-week Continuous Breeding study. The study was conducted at doese up to 160 mg/kg/tay, approximately 80-toxid and 5-fold the fugiest recommended human base of COMXERTA⁴ on a sket and th to' besit me

roging and rogin' basis, inspectively. Preparacy: Tendogenic Effects: Programacy Category C: Methylphemiotic has been shown to have tendogenic effects in robbs when given in dones of 200 mg/kg/dag, which is approximately 100 times and 40 times the maximum incommended human does on a mg/kg approximately (30 lines and 40 times the maximum incommended human does on a molecular and motify basis, respectively. A regroduction study in ratio revealed to evidence of harm to the fields at one does up to 30 molecular, approximately (3-hold and 3-hold the maximum recommended human does of CDMCERIA' on a molecular and molecular basis, espectively. The approximate platma exposure to methylphenidate plus its main metabolitie PRA in pregnant molecular approximate platma exposure to methylphenidate plus its main metabolitie PRA in pregnant does of CDMCERIA' tased on the 4AC. The safety of methylphenidate busies during human pregnant water. CDMCERIA's should be used during pregnancy only if the potential benefit patients for potential risk to the fitus.

Namine Methers: It is not known whether methylohemittie is excepted in human drugs are exceed in human milk, caution should be exercised if CONCERTA¹⁴ is of to a hursing woman.

Pediatric Use: The sality and efficacy of CONCERTA® in children under 6 years old have estatished Long-6 (see WARNINGS) m effects of methylpheridate in children take not been well

ADVERSE REACTIONS

Annonae now name The development program for CONCERTR* included exponents in a total of 2121 participants in clinical thisis (1715: patients, 324 healthy adult subjects). These participants movived CONCERTR* 18, 36, 54, and/or 72 mg/day. Distorer, adolescents, and adults with ADHD went evaluated in thus computed clinical studies, three upper-lube clinical studies and two clinical pharmacology studies. Adverse reactions were assessed by collecting adverse events, results of physical examinations, vital sigm, weights, laboratory analyses, and EOGs. Adverse events during exposure were obtained primarily by general inquiry and recorded by clinical investiga-turs using terminology of their own choosing. Consequently, it is not possible to provide a meaningful estimate of the proportion of individuals separencing adverse events without first grouping similar types of events into a smaller number of standardsed event categories. In the tables and leatings that blow, COSTART terminology has been used to classly reported adverse events. The stated Impacroles of adverse events mpresent the proportion of individua-als who experiments, at least onco. a trustment-evengent adverse event of the type listed, Arevent vias considered instiment emergent if it occurred for the first time or worsened while

nonving theopy tolewing tablete exacution. Adverse: Findings in Clinical Trials with CONCERTA®: <u>Adverse: Events: Associated with</u> Wuntion of Trustment in the 4-week placebo controlled, panalle group that in chaltern 3) one CONCEHIA*-trusted patient (0.9%, 1/306) and one placebo treated patient 1/95) discontinued due to an adverse event (sadness and increase in fact, respectively) (10%: 199): discontinued that to an adverse event (tabless and increase in tics, respectively). In the 2-week placeb concreted the place of a trial in adverseme (Survey 4, no COMEREN-trusted patients, (PK: 087) and 1 placebo-branted patient (1.1%: 199) discontinued due to an adverse event (increased mood inholify), in the two oper-latel, long-leten safety table. Scales 5 and 16 one 24-mont mady in chalman gaids 5 to 12 and one 5-month stady in child, advelscent and adult patients branted with CONCERTAP) 6.7% (101/1514) of patients decorbinand due to adverse events. These neuris with an incidence of 3-05% includent informati (15.7%), lotticing (10%), in-montaness (10.7%), emotional lability (0.7%), abdominal gain (0.7%), and anversa (0.7%).

pan (0.7%), and annexes (0.7%). Institute Tensport Adverse Events Annous CONCERTIA*-Instant Patients-Table 1 enume-sites, for a 4-week plocate-controlled, paralle-group trail (Study 3) in chicken wet ADHD at CONCERTIA* does of 13, 36, or 54 roytabu, the inclance of trastrese-energient altered events. The table includes only those events that occurred in TVs or more of patients trasted whit CONCERTIA* where the includers on patients traded with CONCERTIA* was greater than the includence in placeto-trasted patients. The prescriber should be away that these figures cannot includence in placeto-trasted patients. The prescriber should be away that these figures cannot build in pactor trade parts a share even in the cast e of an in redsal parts where patient characteristics and other lactors differ from those which pavalled in the clinical trade. Sentarly, the cited inspacous cannot be compand with figures obtained from other clinical trade of the sentaria statement of the sentaria statement of the sentaria. investigations involving offlerent treatments, uses, and investigations. The cited figures, he do provide the prescribing physicial with some basis for estimating the relative contribu-drug and non-drug factors to the advense event incidence rate in the population studied.

Table 1 Incidence of Twatment Frances of Frank' is a fullest

Body System	Preferred Term	CONCERTA® (s=106)	Placebo (n= 99)
General	Hostache Abdomital pain	14 %	10 %
Digestive	(stomachache) Vomiting	2%	12
Nervous	(loss of appetite) Duzmess	4% 2%	0%
Respiratory	Upper Respiratory Tract Infection	EN	5%
	Couph Increased Pharyngfin Souwith	2 % 4 %	2%

Events, regardless of causality, for which the incidence for patients insated with CDACERTAN was at least 1% and greater than the incidence among placebo-treated patients. Incidence has been rounded to the nearest whole number.

Table 2 lots the incidence of treatment-emergent adverse events for a 2-week placebo-controlled trial (Study 4) in adolescents with ADHO at DONCERTA* doses of 18, 36, 54 or 72 mg/day. Table 2

Incidence of Treatment-Emergent Events' in a 2-Week

Body System	Preferred Term	CONCERTA® (n=87)	Placebo (n= 90)
General	Accidental injury Fear	6% 3%	3%
Digestive	Headache Anorexia Diarrhea	9% 2% 2%	8% 0% 0%
Nervous Respiratory	Vorntrig Insomna Pharyrights	352	0% 0% 1%
Uropenital	Dysmenorthea	24	2%

Events, regardless of causality, for which the incidence for patients treated with CONCERTA*

was at least 2% and gradient than the incidence among placebo-treated patients, incidence has been manded to the manarest whole number. Togs in a surg-quere minoritimuled study (n=422 children), the cumulative incidence of new ornalit to so was 9% after 27 months of treatment with CONCERTA* in a second uncontrolled study.

or too was the article of treatment with CURACHAY. If a people uncertained study, imAB2 children the currulative incoleration of new teams from was 11%, (6462 children). The treatment period was up to 9 months with mean treatment duration of 72 months. Hopetypeople in the keloratory discovery diskut histis in children (Studies 1 and 2), both CURACHAY of and methylphenidate fol increased resting palse by an average of 2-6 type and produced samage increases of systilic and distabilic (Mood pressure of moughly 1-4 mm High during the day, relieve to placebo. In the placebo-controlled adolescent traid (Study 4), mean teams for day with the placebo. In the placebo-controlled adolescent traid (Study 4), mean teams for the day, relieve to placebo. increases from baseline in nesting public rate were observed with CONCERTAR[®] and placeto at the end of the double-blind phase (5 and 3 basels/innute, nepactively). Man increases from baseline in blood persoare at the end of the out-blind phase for CONCERTAR[®] and placebo-treated pulseries, were 0.7 and 0.7 mm Hg (systelic) and 2.6 and 1.4 mm Hg (diambic). spectively, (see WARNINGS)

Inspectives; one revenues) Post-Markeling Experience with COINCERTA*". Post-marketing experiences with COINCERTA* have revealed spontaneous reports of the tolkwing adverse events. difficulties in visual accommodation, barred vision, atnormal iteer function test (e.g., transaminase elevation). populations, antythmic incorence, and thromocologiesis. Adverse Events with Other Methylphenidate HCI Products: Nervousness and incornal

are the most common adverse reactions reported with other methylpheniate products. Other reactions include hypersensitivity (including skin real), uritizaria, hiver, arthraigia, exhibitive demostisii, erythema multiforme with histopathological findings of necrotaring vasculitia, and demonstrating experiment memory moves, massing discusses invaluation, education and thromboxyborney purparity, anvorsal, massing, discusses. Invaluation, educations, advantances, blood pressure and public charges, both up and down: barbycardia, anglura, advantance purp registric and advantances. There have been rear events of invariations syndrome. Toxic psychosis has been reported in patients taking this drug hepatic coma-solution causes of central anterior analysis and an experiment depresent movies of a traveless syndrome. Toxic psychosis has been reported in patients taking this drug hepatic coma-solution causes of central anterior and/or consumers, amenia, brander depresent movies, a two instances of scalp hard loss. Way care reports of recursively movies depresent movies and the loss enders. have been received, and, in most of these, patients were concurrently receiving therapies assoc-ated with NMS. In a single report, a ten-year-old boy who had been taking methylphenidate for approximately 18 months experienced an NMS-like event within 45 minutes of ingesting his Ind does of ventatione. It is uncertain whether this case represented a drug-drug interaction, a response to either drug alone, or some other cause. In children, loss of appette, abdominal pain, weight loss during protonoid therapy, incomina, and tachycainfai may occur more trequerity. and of the other ad rse reactions listed above may also occur DRUG ABLISE AND DEPENDENCE

Controlled Solution of Charles ContERTAP, like other methylphenidate products, is classified as a Schedule II controlled substance by Release implation. Abuse, Dependence, and Talerance: See WARDINGS for bowd warning containing drug.

enderce information.

OVERDOSAGE

Sienes and Somehame: Sears and sumptions of acute methodologicality coefficience resulting signa are symptonic soft's and symptoms of actain memorybrinnials ormosologi, misiong principally from overstmaatavi of the CNS and from excessive symptomientic effects, may include the tolowing-conting, aptation, territoris, hyperestileus, match telefang, foundation (may be followed by come), exphonia, confusion, fullkainations, delinum, sweating, flushing, heubiche, hyperpyrisia, tachycardia, palptations, cardiac antrythinias, hypertension, and dryness tri mucous membranes.

ind dryress of mucous membranes. Recommended Treatment: Treatment consists of appropriate supportive measures. The pitient must be pottected against self-excry and against external stimuli that would aggravite overstimulation already present. Gashic contents may be exacuted by gashic lavage as indicated. Before performing gashic lavage, control agatation and secures if present as inclusion, dense pertenning galantic walagi, control application and sections if present in and present the annual, Other measures to diversity the gal include automatication of activated charcosal and a calibraric, intensive care must be provided to maintain adequate circulation and respectively exchange external cooling procedures may be required for hypotry-resul. Efficacy of pertoneal dialysis or exchances preservices are been established. The averdpage face not been established. The provinged release of methylphenidate from OVCEHTAP security because the established. The provinged release of methylphenidate from OVCEHTAP should be considered when tracking galantics with providue.

se considered when theiring patients with overside. Puiseer Control Center: As with the management of all overdosage, the possibility of multiple drog logistion transal to considered. The physician may with the consider contacting a potion control center for up-to-date information on the management of overdosage with ethylphenidate.

Rx Only

For more information call 1-888-440-7903 or whit www.zoncerta.net. Manufactured by ALZA Corporation, Mountain View, CA 94043. Distributed and marketied by McNeil Protuince, Dislain of McNeil-PPC, Inc., Fort Washington, PA 19034.



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Editor: June 2006 References: 1. McBurnett K. Cooper KM. Effectiveness of OROS® methylphenidate in children with or without comorbid oppositional defaint disorder and conduct disorder. Poster presented at: American Academy of Child and Adolescent Psychiatry/Canadian Academy of Child and Adolescent Psychiatry Joint Annual Meeting: October 21, 2005: Toronto, Dritario, Canada. 2, Pelham WE, Gnagy EM, Burrows-Maclean L, et al. Once-a-day Concerta methylphenidate versus three daily methylphenidate in laboratory and natural settings. Pediatrics 2001;107(6). Available at: http://www.piediatrics.org/cgi/content/tul/107/6/e105. 3. Wilens TE. McSurnett K. Bukstein O. et al: Multisite controlled study of OROS methylphenidate in the treatment of adolescents with Pediatr Adolesc Med. 2006;160:82-90. its with attention-deficit/hyperactivity disorder. Arch





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PSYCHIATRY BOARD REVIEW SERIES THE KAUFMAN COURSES

Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

CLINICAL NEUROLOGY FOR PSYCHIATRISTS David Myland Kaufman, MD

This intensive three-day weekend course, offered for the 35th year, is designed for psychiatrists in practice and in residency as an update or board preparation. Focusing on essential topics, the course will use lectures, extensive syllabus, and the new edition of Clinical Neurology for Psychiatrists, David M. Kaufman (6th edition, Elsevier).

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PSYCHIATRY FOR PSYCHIATRISTS Andrea J. Weiss, MD and David Myland Kaufman, MD

This two-day course will be a pre-test that will complement standard psychiatry review courses and complete the review in Clinical Neurology for Psychiatrists. In this course, an expert group of faculty who are experienced and well-informed about modern psychiatry and test-taking strategies will present essential information through a series of test-type questions utilizing audience response system keypads and using answers for discussions and explanations.

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MAINTENANCE OF CERTIFICATION (THE RECERT COURSE) Dan Smuckler, MD, Andrea J. Weiss, MD and David Myland Kaufman, MD

This intensive two-day course designed for psychiatrists will review the psychiatric information likely to appear on the recertification examination. It will cover current evidence-based treatments for psychiatric disorders, emphasizing clinical matters and advances in diagnosis and treatment. Presentation of the material will be in a mixed format, with both lecture and question and answer utilizing audience response system keypads.

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The Westin Hotel at the Los Angeles Airport 5400 West Century Boulevard, Los Angeles, CA 90045 Friday, September 7 to Sunday, September 9, 2007 7:45 AM – 5:00 PM

NEW YORK

The Graduate Center, Concourse Level City University of New York (CUNY) Friday, October 5 to Sunday, October 7, 2007 8:15 AM – 5:15 PM

LOS ANGELES

The Westin Hotel at the Los Angeles Airport 5400 West Century Boulevard, Los Angeles, CA 90045 Monday, September 10 to Tuesday, September 11, 2007 7:45 AM – 5:00 PM

NEW YORK

The Graduate Center, Concourse Level City University of New York (CUNY) Monday, October 8 to Tuesday, October 9, 2007 8:15 AM – 5:15 PM

NEW YORK

The Graduate Center, Main Level City University of New York (CUNY) 365 Fifth Avenue (Between 34th and 35th Streets), New York, NY 10016 Friday, February 1 to Saturday, February 2, 2008 8:15 AM – 5:15 PM

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AN ORAL ATYPICAL ANTIPSYCHOTIC FOR THE TREATMENT OF SCHIZOPHRENIA



IMPORTANT SAFETY INFORMATION FOR INVEGA™ AND RISPERDAL[®]

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. Neither INVEGATM (paliperidone) nor RISPERDAL[®] (risperidone) are approved for the treatment of patients with Dementia-Related Psychosis.

Commonly observed adverse events: The most commonly observed adverse events occurring at an incidence of \geq 5% and at least 2 times placebo were: **INVEGA**: akathisia and extrapyramidal disorder; **RISPERDAL**: anxiety, somnolence, extrapyramidal symptoms, dizziness, constipation, nausea, dyspepsia, rhinitis, rash, and tachycardia.

QT Prolongation: INVEGA causes a modest increase in the corrected QT (QTc) interval. INVEGA should be avoided in combination with other drugs that are known to prolong the QTc interval, in patients with congenital long QT syndrome or a history of cardiac arrhythmias. Certain circumstances may increase the risk of torsades de pointes and/or sudden death in association with the use of drugs that prolong the QTc interval.

Neuroleptic malignant syndrome (NMS): NMS, a potentially fatal symptom complex, has been reported with the use of antipsychotic medications, including INVEGA and RISPERDAL. Clinical manifestations include muscle rigidity, fever, altered mental status and evidence of autonomic instability (see full Prescribing Information). Management should include immediate discontinuation of antipsychotic drugs

Please see accompanying brief summary of full Prescribing Information for INVEGA and RISPERDAL.

Powerful Efficacy for the Mind With Safety and Tolerability for the Body

Created to combine

- The active metabolite of RISPERDAL[®] (risperidone)
- Innovative OROS[®] extended-release technology

Shown to deliver

- Significant efficacy in the positive and negative symptoms of schizophrenia¹
- Low weight gain and EPS rates comparable with placebo in 6-week trials with the recommended 6-mg dose¹

and other drugs not essential to concurrent therapy, intensive symptomatic treatment and medical monitoring, and treatment of any concomitant serious medical problems.

Tardive dyskinesia (TD): TD is a syndrome of potentially irreversible, involuntary, dyskinetic movements that may develop in patients treated with antipsychotic medications. The risk of developing TD and the likelihood that dyskinetic movements will become irreversible are believed to increase with duration of treatment and total cumulative dose. Elderly patients appeared to be at increased risk for TD. Prescribing should be consistent with the need to minimize the risk of TD. The syndrome may remit, partially or completely, if antipsychotic treatment is withdrawn.

Hyperglycemia and Diabetes: Hyperglycemia, some cases extreme and associated with ketoacidosis, hyperosmolar coma or death, has been reported in patients treated with atypical antipsychotics (APS). Patients starting treatment with APS who have or are at risk for diabetes, should undergo fasting blood glucose testing at the beginning of and during treatment. Patients who develop symptoms of hyperglycemia should also undergo fasting blood glucose testing.

Gastrointestinal: INVEGA should ordinarily not be administered to patients with pre-existing severe gastrointestinal narrowing. Rare instances of obstructive symptoms have been reported in patients with known strictures taking non-deformable formulations. INVEGA should only be used in patients who are able to swallow the tablet whole.

Cerebrovascular adverse events (CAEs): CAEs, including fatalities, have been reported in elderly patients with dementia-related psychosis taking atypical antipsychotics in clinical blaither UNVECA per PISERAL clinical trials. Neither INVEGA nor RISPERDAL are approved for treating these patients.

Orthostatic hypotension and Syncope: INVEGA and RISPERDAL can cause orthostatic hypotension and syncope in some patients. Appropriate monitoring of orthostatic vital signs should be considered.

Seizures: INVEGA and RISPERDAL should be used cautiously in patients with a history of seizures.

Hyperprolactinemia: As with other drugs that antagonize dopamine D₂ receptors, INVEGA and RISPERDAL elevate prolactin levels and the elevation persists during chronic administration.

Suicide: The possibility of suicide attempt is inherent in psychotic accompany drug therapy

Maintenance treatment: Physicians who elect to use INVEGA and RISPERDAL for extended periods should periodically re-evaluate the long-term risks and benefits of the drug for the individual patient.

Extrapyramidal symptoms (EPS): Total EPS-related adverse events in the higher 9-mg and 12-mg treatment groups were 25% and 26%, respectively, versus 11% for the placebo group.

Weight gain: The proportion of subjects having a weight gain of \geq 7% body weight were comparable to placebo (5%) for 3 mg (7%) and 6 mg (6%). A higher incidence was seen for 9 mg (9%) and 12 mg (9%).

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INVEGA[™]

(paliperidone) Extended-Release Tablets

BEFORE PRESCRIBING, PLEASE CONSULT COMPLETE PRESCRIBING INFORMATION OF WHICH THE FOLLOWING IS A BRIEF SUMMARY

Rx only

Increased Mortality in Elderly Patients with Dementia-Related Psychosis

Increased wortainty in Elderly Patients with Dementar-Heladed Psychosis Elderly patients with dementia-related psychosis treated with atypical antipsychotic drugs are at an increased risk of death compared to placebo. Analyses of 17 placebo-controlled trials (modal duration of 10 weeks) in these subjects revealed a risk of death in the drug-treated subjects of between 1.6 to 1.7 times that seen in placebo-treated subjects. Over the course of a typical 10-week controlled trial, the rate different seen in placebore subjects of the outer of a spice of a spice of the outer controlled unit, the face of death in drugt-reated subjects 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. INVEGA™ (paliperidone) Extended-Release Tablets is not approved for the treatment of patients with dementia-related psychosis.

INDICATIONS AND USAGE: INVEGA™ (paliperidone) Extended-Release Tablets is indicated for the treatment of

INDICATIONS AND USAGE: INVEGATM (paliperidone) Extended-Release 1 ablets is indicated for the treatment of schizophrenia. CONTRAINDICATIONS: INVEGATM (paliperidone) is contraindicated in patients with a known hypersensitivity to paliperidone, risperidone, or to any components in the INVEGATM formulation. WARNINGS: 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. INVEGATM (paliperidone) Extended-Release Tablets is not approved for the treatment of dementia-related psychosis (see Boxed Warning). QT Prolongation: Paliperidone causes a modest increase in the corrected QT (CT) interval. The use of paliperidone should be avoided in combination with other drugs that are known to prolong QTc including Class TA (e.g., quindime, procainamide) or Class III (e.g., amiodarone, sotalol) antiarrhythmic medications, antipsycholic medications (known to prolong the QTc interval. Paliperidone should also be avoided in patients with congenital long QT syndrome and in patients with a history of sudden death in association with the use of drugs that prolong the QTc interval, (a) (ly prokalemia or hypomagensemia; (3) concomitant use of other drugs that prolong the QT interval; and (4) hypokalemia or hypomagnesemia; (3) concomitant use of other drugs that prolong the QT interval; and (4) with schizophrenia and schizoaffective controlled (inoxilfoxacir do Orng single dose), multicale Governotter QT interval were evaluated in a double-blind, active-controlled (inoxilfoxacir di in three placebo- and active-controlled 6-wes((fixed) release oral paliperidone (n=44) showed a mean placebo- subtracted increase tree mas bady-state peak plasma concentration for this 8 mg dose of antiongring of a start shower post-dose. The mean steady-state peak plasma concentration for this 8 mg dose of antiongring in madults with schizophrenia. In the QT study (n = 1 efficacy trials in adults with schizophrenia. In the QT study (n = 141), the 8 mg dose of immediate-release oral paliperidone (m=44) showed a mean placebo-subtracted increase from baseline in OTeLD of 12.3 msec (90% CL 2) and 2.5 msec (90% CL 2) mediate the state of paliperidone immediate-release was more than twice the exposure observed with the maximum recommended 12 mg dose of INVEGA^M ($C_{maxy} = 13$ and 45 mg/mL, respectively, when administered with a standard breakfast). In this same study, a 4 mg dose of the immediate-release oral formulation of paliperidone, for which $C_{maxy} = 35$ ng/mL, showed an increased placebo-subtracted OTLD of 6.4 msec (90% CL 3) for 0 nday 2 at 1.5 hours post-dose. None of the subjects had a change exceeding 60 msec or a QTcLD exceeding 500 msec at any time during this study. For the three fixed-dose efficacy studes, electrocardiogram (ECG) measurements taken at various time points showed only one subject in the INVEGATM 12 mg group had a Change exceeding 60 msec at one time-point on Day 6 (increase of 62 msec). No subject receiving INVEGATM had a QTcLD exceeding 500 msec at any time in any of these three studies. Neuroleptic Malignant Syndrome: A potentially fatal symptom complex sometimes referred to as Neuroleptic Malignant Syndrome (NMS) has been reported with antipsychotic drugs. Clinical manifestations of NMS are hyperpyrexia, muscle rigidity, altered mental status, and evidence of autonomic instability. Other signs may include elevated creatinine phosphohinase, myoglobinuria (rhabdomyolysis), and acute renal failure. Management should include: discontinuation of the antipsychotic and other drugs not essential to therapy; intensive syndrome ic potentially irreversible, involutary, dyskinesia: A syndrome of potentially reversible, involutary, dyskinesia converse have been reported. Tardive Dyskinesia: A syndrome of potentially reversible, involutary, dyskinesia and text drease at the duration of treatment and medical monitoring; and treatment for estabilishe dca a manner to minimize the occurrence. In patients who 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 should appear drug discontinuation should be considered. Hyperglycemia and Diabetes Mellifus: Hyperglycemia, in some cases extreme and associated with ketoacidosis or hyperosmolar coma or death, has been reported in patients treated with all atypical antipsychotics. 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, formit, bietory of diabeted) who are patient treatment with the threid a literusphice should underen fortion blood. Training history of diabetes) who are starting treatment with atypical antipsycholics should undergo fasting blood glucose testing at the beginning of treatment and periodically during treatment. **Castrointestinal**: Because the INVEGA™ bablet is non-deformable and does not appreciably change in shape in the gastrointestinal tract, INVEGA™ should ordinarily not be administered to patients with pre-existing severe gastrointestinal narrowing INVEGA[™] should ordinarily not be administered to patients with pre-existing severe gastrointestinal narrowing (pathologic or iatrogenic, for example: esophageal motility disorders, small bowel inflammatory disease, "short gut" syndrome due to adhesions or decreased transit time, past history of peritonitis, cystic fibrosis, chronic intestinal pseudoobstruction, or Meckel's diverticulum). There have been rare reports of obstructive symptoms in patients with known strictures in association with the ingestion of drugs in non-deformable controlled-release formulations. Because of the controlled-release design of the tablet, INVEGA[™] should only be used in patients who are able to swallow the tablet whole (see PRECAUTIONS: Information for Patients). A decrease in transit time, e.g., as seen with diarrhea, would be expected to decrease bioavailability and an increase in transit time, e.g., as seen with diarrhea, would be expected to decrease bioavailability. These changes in transit time, e.g., as seen with diarrhea, cult advective, in Elderly Patients With Dementia-Related Psychosis: In placebo-controlled trials with risperidone, anipirazole, and olanzapine in elderly subjects with dementia, there was a higher incidence of cerebrovascular adverse events (cerebrovascular accidents and transient ischemic attacks) including fatalities compared to placebo-treated subjects. INVEGA[™] was not marketed at the time these studies were performed. INVEGA[™] 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).

PRECAUTIONS

Psychoisis). PRECAUTIONS General: Orthostatic Hypotension and Syncope: Paliperidone can induce orthostatic hypotension and syncope in some patients because of its alpha-blocking activity. In pooled results of the three placebo-controlled, 6-week, fixed-dose trials, syncope was reported in 0.8% (7/850) of subjects treated with INVEGA™ (3, 6, 9, 12 mg) compared to 0.3% (1/355) of subjects treated with placebo. INVEGA™ should be used in caution in patients with known cardiovascular disease (e.g., heart failure, history of myocardial infeared with caution in patients with nom cardiovascular disease (e.g., heart failure, history of myocardial infeared with caution in gradients abound be used cautiously in patients with a history of seizures: Like other antipsychotic drugs, INVEGA™ should be used cautiously in patients with a history of seizures or other conditions that potentially lower the seizure threshold. Hyperprolactinemia: Like other drugs that antagonize dopamine D, arceptors, paliperidone elevates prolactin levels and the elevation persists during chronic administration. Paliperidone has a prolactin-elevating effect similar to that seen with risperidone, a drug that is associated with higher levels of polacin than other antipsychotic drugs. Galactorrhea, amenorrhea, gynecomastia, and impotence have been reported in patients receiving prolactin-elevating compounds. An increase in the incidence of pitulary gland, mamary gland, and pancreatic Islet cell neoplasia (mammary adenocarcinomas, pituliary and pancreatic adenomas) was observed in the shown an association between chronic administration of this class of drugs and tumorigenesis in humans, but the available evidence is too limited to be conclusive. Dysphagia: Esophageal dysmotility and aspiration have been associated with antipsychotic drug use. Aspiration neuronia is a common cause of morbidity. and mortality in avained with antipsychotic drug use. Aspiration in the adas of drugs and tumorigenesis in humans, but the avainable evidenc dismotility and aspiration have been associated with antipsychotic drug use. Aspiration pneumonia is a common cause of morbidity and mortality in patients with advanced Alzheimer's dementia. INVEGA™ and other antipsychotic drugs should be used cautiously in patients at risk for aspiration pneumonia. Sucide: The possibility of suicide attempt is inherent in psychotic illnesses, and close supervision of high-risk patients should accompany drug therapy. Potential for Cognitive and Motor Impairment: Somnolence and sedation were reported in subjects treated with INVEGA™ (see ADVERSE TREATIONS). Antipsychotics, including INVEGA™, have the potential to impair judgment, thinking, or motor skills. Patients should be cautioned about performing

activities requiring mental alertness, such as operating hazardous machinery or operating a motor vehicle, until they are reasonably certain that paliperidone therapy does not adversely affect them. Priapism: No cases of priapism have been reported in clinical trials with INVEGA[™]. Thrombotic Thrombocytopenia Purpura (TTP): No cases of TTP were observed during clinical studies with paliperidone. Although cases of TTP have been reported in association with risperidone administration, the relationship to risperidone therapy is unknown. Body No cases of TTP were observed during clinical studies with paliperidone. Although cases of TTP have been reported in association with risperidone administration, the relationship to risperidone therapy is unknown. **Body Tempsrature Regulation**: Disruption of the body's ability to reduce core body temperature has been attributed to antipsychotic agents. Appropriate care is advised when prescribing INVEGA[™] to patients who will be experiencing conditions which may contribute to an elevation in core body temperature. **Antiemetic Effect**: An antiemetic effect was observed in preclinical studies with paliperidone. This effect, if it occurs in humans, may mask the signs and symptoms of overdosage with certain drugs or of conditions such as intestinal obstruction, Reye's syndrome, and brain tumor. **Use in Patients with Concomitant Illness**: Clinical experience with INVEGA[™] in patients with certain concomitant illnesses is limited (see CLNICAL PHARMACOLOGY: Pharmacokinetics: Special Populations: Hepatic Impairment and Renal Impairment in full PI). Patients with Parkinson's Disease or Dementia with Lewy Bodies are reported to have an increased sensitivity to antipsychotic medication. Manifestations of this increased sensitivity include confusion, obtundiation, postural instability with frequent falls, extrapyramidal symptoms, and clinical features consistent with the neuroleptic malignant syndrome. INVEGA[™] the set of the risk of orthostatic hypotension with INVEGA[™]. Austion should be observed in patients with known cardiovascular disease. Patients with these diagnoses were excluded from premarketing clinical infarction or unstable heart disease. Patients with these diagnoses were excluded from premarketing clinical infarction or unstable heart disease (see PRECAUTIONS: General: Orthostatic Hypotension and Syncope). Information for **Patients:** Physicians are advised to discuss the following issues with patients for whom they prescribe INVEGA[™]. **MCEGA[™] Othostatic Hypotension:** Patients should be advised that they are taking invocation - Concommant methation - rate in should be advised to motimite physication they are taking, or plan to take, any prescription or over-the-counter drugs, as there is a potential for interactions. Alcohol: Patients should be advised to avoid alcohol while taking INVEGA™. Heat Exposure and Dehydration: Alconoi: Patients should be advised to avoid actionto Wine taking INVESA^{IM}, near Exposure and benydration: Patients should be advised regarding appropriate care in avoiding overheating and dehydration. Administration: Patients should be informed that INVEGA^{IM} should be swallowed whole with the aid of liquids. Tablets should not be chewed, divided, or crushed. The medication is contained within a nonabsorbable shell designed to release the drug at a controlled rate. The tablet shell, along with insoluble core components, is eliminated from the body; The drug at a controller rate. The table shell, along with insolute core components, is eliminated from the body, patients should not be concerned if they occasionally notice something that looks like a tablet in their stool. **Drug Interactions: Potential for INVEGA™ to Affect Other Drugs** – Paliperidone is not expected to cause clinically important pharmacokinetic interactions with drugs that are metabolized by cytochrome P450 isozymes. In *vitro* studies in human liver microsomes showed that paliperidone does not substantially inhibit the metabolism of drugs metabolized by cytochrome P450 isozymes, including CYP1A2, CYP2A6, CYP2CB(SI/10, CYP2D6, CYP2E1, CYP2A4, and CYPA35, Therefore, paliperidone is not expected to inhibit clearance of drugs that are metabolized by these metabolic pathways in a clinically relevant manner. Paliperidone is a table on texpected to CYP2E1, CYP3A4, and CYP3A5. Ineretore, paliperidone is not expected to inhibit clearance of drugs that are metabolized by these metabolic pathways in a clinically relevant manner. Paliperidone is also not expected to have enzyme inducing properties. At therapeutic concentrations, paliperidone did not inhibit P-glycoprotein. Paliperidone is therefore not expected to inhibit P-glycoprotein-mediated transport of other drugs that a clinically relevant manner. Paliperidone is also not expected to inhibit P-glycoprotein-mediated transport of other drugs in a clinically relevant manner. Biven the primary CNS effects of paliperidone (see ADVERSE REACTIONS), INVEGA[™] should be used with caution in combination with other centrally acting drugs and alcohol. Paliperidone may antagonize the effect of levodopa and other dopamine agonists. Because of its potential for inducing orthostatic hypotension, an additive effect may be observed when INVEGA[™] is administered with other therapeutic agents that have this potential (see PRECAUTIONS: General: Orthostatic Hypotension and Syncope). **Potential for Other Drugs to Affect INVEGA[™]** – Paliperidone is not a substrate of CYP1A2, CYP2A6, CYP2O9, and CYP2C19, so that an interaction with inhibitors or inducers of these isozymes is unlikely. While *in vitro* studies of not show decreased elimination by these isozymes and they contribute to only a small fraction of total body clearance. **Carcinogenesis, Mutagenesis, Impairment of Fertility: Carcinogenesis**; Carcinogenicity studies of paliperidone in rats, mice, and humans, were conducted in Swiss albino mice and Wist arts. Risperidone was administered in the diet at daily doses of 0.63, 2.5, and 10 mg/kg for 18 months to mice and for 25 months to rats. A maximum tolerated dose was not achieved in male mice. There were statistically significant increases in pituitary gland adenomas, endocrine pancreas indeministration of other albugy-choic drugs and a considered to be mediated ther chonoic administrate of other administret of these t does for these tumors was less than or equal to the maximum recommended human does of risperidone on a mg/m² basis (see risperidone package insert). An increase in marmary, pitulary, and endocrine pancreas neoplasms has been found in rodents after chronic administration of other antipsychotic drugs and is considered to be mediated by prolonged dopamine D₂ antagonism and hyperprolactinemia. The relevance of these tumor findings in rodents in terms of human risk is unknown (see PRECAUTIONS: General: Hyperprolactinemia). **Mutagenesis:** No evidence of genotoxic potential for paliperidone was found in the Ames reverse mutation test, the mouse bymphoma assay, or the *in* who rat micronucleus test. **Impairment of Ferliliy:** In a study of ferlility, the percentage of treated female rats that became pregnant was not affected at oral doses of paliperidone of up to 2.5 mg/kg/day. However, pre- and post-implantation loss was increased, and the number of live embryos was slightly decreased, at 2.5 mg/kg, a dose that also caused slight maternal toxicity. These parameters were not affected at a dose of 0.63 mg/kg, which is half of the maximum recommended human doses on a mg/m² basis. The ferlility of male rats was not affected at oral doses of paliperidone. In a subchronic study in Beagle dogs with risperidone, which is extensively converted to paliperidone in dogs and humans, all doses tested (0.031-50 mg/kg) resulted in decreases in serum testosterone and in sperm molility and concentration. Serum testosterone and sperm parameters partially recovered, but remained decreased after the last observation (two months after treatment was discontinued). **Pregnancy: Pregnancy Category C**: In studies in rats and rabbits in which apliperidone was given orally during the period or oganogenesis, there were no increases in fetal abnormalities up to the highest doses tested (10 mg/kg/day in rats and ab mg/kg/day in rabbits, which are 8 times the maximum recommended human dose on a mg/m² basis). In rat reproduction studies with r reduced doses. Because elderly patients are more likely to have decreased renal function, care should be taken in dose selection, and it may be useful to monitor renal function (see DOSAGE AND ADMINISTRATION: Dosing in Special Populations in full PI). ADVERSE REACTIONS

ADVERSE REACTIONS The information below is derived from a clinical trial database for INVEGA[™] consisting of 2720 patients and/or normal subjects exposed to one or more doses of INVEGA[™] for the treatment of schizophrenia. Of these 2720 patients, 2054 were patients who received INVEGA[™] while participating in multiple dose, effectiveness trials. The conditions and duration of treatment with INVEGA[™] wared greatly and included (in overlapping categories) open-label and double-blind phases of studies, inpatients and outpatients, fixed-dose and flexible-dose studies, and short-term and longer-term exposure. Adverse events were assessed by collecting adverse events and performing physical examinations, vital signs, weights, laboratory analyses and ECGs. Adverse events and performing instandardized categories using MedDRA terminology. The stated frequencies of adverse events were grouped in standardized categories using MedDRA terminology. The stated frequencies of adverse events the proportions of individuals who experienced a treatment-emergent adverse event of the type listed. An event was

considered fishing in encourse for the first time or worsened while receiving the ray following beside controlled. Sweek, fixed-does studies based on subjects with schizophrenia who received INVEGA¹⁴ of adju does within the recommende range of 3 to 12 mg (= 850). Advess EventS Occurring at a Incidence of 2% or More Among INVEGA¹⁴ Treated Patients with Schizophrenia and More Frequent on Drug than Placebo Table 1 subjects with Schizophrenia. To Schizophrenia and More Frequent on Drug than Placebo Table 1 subjects with Schizophrenia. To Schizophrenia and More Frequent on Drug than Placebo Table 1 subjects with Schizophrenia. To Schizophrenia and More Frequent on Drug than Placebo Treated subjects treated with INVEGA¹⁴ may or the dose groups, and for which the incidence in INVEGA¹⁴ treated subjects treated with INVEGA¹⁴ may or the dose groups, and for which the incidence in INVEGA¹⁴. Treated subjects treated with INVEGA¹⁴ may or the dose groups, and for which the incidence in INVEGA¹⁴. Treated subjects and Schizophrenia. To Schizophrenia Dose (Schizophrenia Dose) Treater and the schizophrenia Dose (Schizophrenia Dose) the schizophrenia Dose (Schizophrenia Do These occurring on one or moto creations in less than in 1000 subjects. Blood and Lymphatic System Disorders: rare: thrombocytopenia; Cardiac Disorders: frequent: pablitations; infrequent: badycardia; Gastrointestinal Disorders: frequent: abdominal pain; infrequent: swollen tongue; General Disorders: infrequent: detema; Immune Disorder: rare: anaphylactic reaction; Nervous System Disorders: rare: coordination abnormal; Psychiatric Disorders: infrequent: confusional state; Respiratory, Thoracic and Mediastinal Disorders: frequent dyspnea; rare: pulmonary embolus; Vascular Disorders: rare: ischemia, venous thrombosis; Adverse Events Reported With Risperidone; Paliperidone is the major active metabolite of risperidone. Adverse events reported with risperidone can be found in the ADVERSE REACTIONS section of the risperidone neckane insert. DRUG ABUSE AND DEPENDENCE Controlled Substance: INVEGA™ (paliperidone) is not a controlled substance

For more information on symptoms and treatment of overdosage, see full Prescribing Information. 10105900B Issued: December 2006 © Janssen, L.P. 2006



RISPERDAL (RISPERIDONE) ABLETS/ORAL SOLUTION

RISPERDAL® M-TAB® (RISPERIDONE) ORALLY DISINTEGRATING TABLETS

Brief Summary of Full Prescribing Information for Schizophrenia and Bipolar Mania. CLINICAL STUDIES FOR OTHER INDICATIONS WILL HAVE DIFFERING ADVERSE EVENTS AND SAFETY CONCERNS. PLEASE SEE FULL PI FOR THIS INFORMATION REGARDING RISPERDAL® FOR AUTISM

Increased Mortality in Elderly Patients with Dementia-Related Psychosis

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. RISPERDAL[®] (risperidone) is not approved for the treatment of patients with Dementia-Related Psychosis.

INDICATIONS AND USAGE: RISPERDAL® (risperidone) is indicated for the treatment of schizophrenia. Monotherapy: RISPERDAL® is indicated for the short-term treatment of acute manic or mixed episodes associated with Bipolar I Disorder. Combination Therapy: The combination of RISPERDAL® with lithium or valproate is indicated for the short-term treatment of acute manic or mixed episodes associated with Bipolar I Disorder. CONTRAINDICATIONS: RISPERDAL® (risperidone) is contraindicated in patients with a known hypersensitivity to

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. RISPERDAL® (risperidone) is not approved for the treatment of dementia-related psychosis (see Boxed Warning). Neuroleptic Malignant Syndrome (NMS): A potentially fatal symptom complex sometimes referred to as Neuroleptic Malignant Syndrome (NMS): A potentially fatal symptom complex sometimes referred to as Neuroleptic Malignant Syndrome (NMS): A potentially fatal symptom complex sometimes referred to as Neuroleptic Malignant Syndrome (NMS): A potentially fatal symptom complex sometimes referred to as Neuroleptic Malignant Syndrome (NMS): A potentially fatal symptom complex sometimes referred to as Neuroleptic Malignant Syndrome (NMS): A potentially table carefully considered. The patient should hickute: discontinuation of the antipsychotic and other drugs not essential to therapy; intensive symptomatic treatment and medical monitoring; and treatment of other serious medical problems. If a patient requires antipsychotic drugs after recovery from NMS, the reintroduction of drug therapy should be carefully considered. The patient should be carefully monitored, since recurrences have been reported. Tardive Dyskinesia: A syndrome of potentially inversible, involutary, dyskinetic movements may develop, inter their treatment periods at low doses. There is no known treatment for established cases of tardive dyskinesia, although it may remit, partially or completely, if the antipsychotic is withdrawn. Prescribing should be reassessed periodically. If signs and symptoms should appear drug discontinuation should be considered. Creebrovascular adverse events, Including Stroke, in Elderly Patients With dementia-related psychosis: Creebrovascular adverse events (e.g., stroke, transient ischemic attack), including ataties, were reported in patients (mean age 85 years; range 73-97) in WARNINGS: Increased Mortality in Elderly Patients with Dementia-Related Psychosis: Elderly patients with

The anternation of the antipolyclous should underly tasking blood glucose testing at the beginning of treatment and periodically during treatment. PRECAUTIONS: General: Orthostatic Hypotension: RISPERDAL® (risperidone) may induce orthostatic hypotension associated with dizziness, tachycardia, and in some patients, syncope, especially during the initial dose-titration period, probably reflecting its alpha-adrenergic antagonistic properties. Syncope was reported in 0.2% (6/2607) of RISPERDAL®-treated patients in Phase 2 and 3 studies. The risk of orthostatic hypotension and syncope may be minimized by limiting the initial dose to 2 mg total (either D0 or 1 mg BID) in the elderly and patients with renal or hepatic impairment (see DOSAGE AND ADMINISTRATION in full PI). Monitoring of the cast of the synchronized sector and the sector sector sector sectors and the sector sectors an In the level of priming the initial dose to 2 mg total (either DD or 1 mg BDD) in normal adults and 0.5 mg BDD in the elderly and patients with renal or hepatic impairment (see DDSAGE AND ADMINISTRATION in thu PI). Monitoring of orthostatic vital signs should be considered in patients for whom this is of concern. A dose reduction should be considered if hypotension occurs. RISPERDAL® should be used with particular caution in patients with known cardiovascular disease (history of myocardial infarction or ischemia, heart failure, or conduction abnormalities), cerebrovascular disease, and conditions which would predispose patients to hypotension, e.g., dehydration and hypovolemia. Clinically significant hypotension has been observed with concomitant use of RISPERDAL® and anthypotensive medication. Seizures: RISPERDAL® should be used cautiously in patients with a history of seizures. **Dysphagia:** Esophageial dysmotility and mortality in patients with advanced Alzheimer's dementia. RISPERDAL® and other antipsychotic drugs should be used cautiously in patients with a history of seizures. **Dysphagia:** Esophageial dysmotility and mortality in patients with advanced Alzheimer's dementia. RISPERDAL® and other antipsychotic drugs should be used cautiously in patients with advanced Alzheimer's dementia. RISPERDAL® and the elevation presists during compounds. An increase in pliutary gland, mammary gland, and pancreatic islet cell neoplasis (mammary adenocarcinomas, pliutary and pancreatic aderomas) was observed in the risperidone carcinogenicity studies conducted in mice and rats (see PRECAUTIONS – Carcinogenesis, Muragenesis, Impairment of Fertility). Neither clinical studies on epidemiologic studies conducted to date have shown an association between chronic administration of this class of drugs and tumorigensis in humans; the available evidence is considered too imited to be conclusive at this time. **Potential fO Cognitive and Motor Impairment:** Somoinence was a commonly reported adverse event is dose-related. Patients s Heguation: Disruption of body temperature regulation has been attributed to antipsychotic agents. Caution is advised when prescribing for patients whow libe exposed to temperature extremes. Suicide: The possibility of a suicide attempt is inherent in patients with schizophrenia and bipolar mania, including children and adolescent patients, and close supervision of high-risk patients should accompany drug therapy. Use in Patients With Concomitant Illness: Clinical experience with RISPERDAL® in patients with certain concomitant systemic illnesses is limited. Patients with Parkinson's Disease or Dementia with Lewy Bodies who receive antipsychotics, including RISPERDAL®, are reported to have an increased sensitivity to antipsychotic medications. Manifestations of this increased sensitivity have been reported to include confusion, obtundation, postural instability with frequent falls, extrapyramidal symptoms, and clinical features consistent with the neuroleptic malignant syndrome. Caution is advisable in using RISPERDAL® 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 repatic impairment. A lower starting dose should be used in such patients. Information for Patients: Physicians are advised to discuss the following issues with patients for Whom they prescribe RISPERDAL® in thinking, or motor skills, patients should be cautioned about operating hazardous machinery, including automobiles, until they are reasonably certain that RISPERDAL® therapy does not affect them adversely. Pregnancy: Patients should be advised to notify their physician if they are taking RISPERDAL® Concomitant Medication: Patients should be advised to inform their physicians if they are taking RISPERDAL® Concomitant Medication: Patients should be advised to inform their physicians if they are taking RISPERDAL® Concomitant Medication: Patients should be advised to inform their physici

phenylalanine; each 2 mg RISPERDAL® M-TAB® Orally Disintegrating Tablet contains 0.42 mg phenylalanine; each 1 mg RISPERDAL® M-TAB® Orally Disintegrating Tablet contains 0.28 mg phenylalanine; and each 0.5 mg RISPERDAL® M-TAB® Orally Disintegrating Tablet contains 0.14 mg phenylalanine. Drug Interactions: The interactions of RISPERDAL® and other drugs have not been systematically evaluated. Given the primary CNS effects of risperdone, caution should be used when RISPERDAL® is taken in combination with other centrally acting drugs and alcohol. Because of its potential for inducing hypotension, RISPERDAL® may enhance the hypotensive effects of levodpa and dopamine agonists. Chronic administration of clozapine with risperidone may decrease the clearance of risperidone. **Carbamazepine and Chrone Tuber Deventer**. Chronic administration of clozapine with risperidone may decrease the clearance of risperidone. Carbinamazepine and Other Enzyme Inducers: In a drug interaction study in schizophrenic patients, 11 subjects received risperidone titrated to 6 mg/day for 3 weeks, followed by concurrent administration of carbamazepine for an additional 3 weeks. During co-administration, the plasma concentrations of risperidone and its pharmacologically active metabolite, –-hydroxyrisperidone, were decreased by about 50%. Plasma concentrations of carbamazepine id not appear to be affected. The dose of risperidone may need to be titrated accordingly for patients receiving carbamazepine, particularly during initiation or discontinuation of carbamazepine therapy. Co-administration of other known enzyme inducers (e.g., phenytoin, rifampin, and phenobarbital) with risperidone may cause similar decreases in the combined plasma concentrations of risperidone and 9-hydroxyrisperidone, which could lead to decreased efficacy of risperidone treatment. Fluoxetine and Paroxetine: Fluoxetine (20 gQD) and paroxetine (20 gQD) have been shown to increase the plasma concentration of risperidone. Paroxetine is initiated or discontinued, the physician should re-valuate the dosing of RISPERDAL®. The effects of discontinuation of concomitant fluoxetine corp paravetine is initiated or discontinued, the physician should re-valuate the dosing of RISPERDAL®. The effects of discontinuation of concomitant fluoxetine or paroxetine therapy on the pharmacokinetics of risperidone and 9-hydroxyrisperidone have not been studied. Lithuim: Repeated oral doses of pharmacokinetics of risperidone and 9-hydroxyrisperidone have not been studied. Lithium: Repeated oral doses of pharmacokinetics of risperidone and 9-hydroxyrisperidone have not been studied. Lithium: Repeated oral doses of risperidone (3 mg BID) did not affect the exposure (AUC) or peak plasma concentrations (C_{ma}) of lithium (n=13). Valproate: Repeated oral doses of risperidone (4 mg QD) did not affect the pre-dose or average plasma concentrations and exposure (AUC) of valproate (1000 mg/day in three divided doses) compared to placebo (n=2)1. However, there was a 20% increase in valproate peak plasma concentration (C_{max}) after concomitant administration of risperidone. Digoxin: RISPERDAL[®] (0.25 mg BID) did not show a clinically relevant effect on the pharmacokinetics of digoxin. Drugs That Inhibit CYP 2D6 and Other CYP Isozymes: Risperidone is metabolized to 9-hydroxyrisperidone by CYP 2D6, an enzyme that is polymorphic in the population and that can be inhibited by a variety of psychotropic and other drugs (see CLINICAL PHARMACOLOGY in full PI). Drug interactions that reduce the metabolism of risperidone to 9-hydroxyrisperidone would increase the plasma concentrations of risperidone and lower the concentrations of -burdroxyrisperidone. Maybid is of clinical studies involving a modet number of noor metabolizers (n=70) does not 9-hydroxyrisperidone would increase the plasma concentrations of risperidone and lower the concentrations of 9-hydroxyrisperidone. Analysis of clinical studies involving a modest number of poor metabolizers (n=70) does not suggest that poor and extensive metabolizers have different rates of adverse effects. No comparison of effectiveness in the two groups has been made. In vitro studies showed that drugs metabolized by other CVP loscymes, including 1A1, 1A2, C29, C20, C19, and 3A4, are only weak inhibitors of risperidone metabolized by other CVP loscymes, including 1A1, 1A2, C29, C20, C19, and 3A4, are only weak inhibitors of risperidone metabolized by other CVP loscymes, including 1A1, In vitro studies indicate that insperidone is a relatively weak inhibitor of CVP 2D6. Therefore, RISPERDAL® is not expected to substantially inhibit the clearance of drugs that are metabolized by this enzymatic pathway. In drug interaction studies, risperidone is ginificant linear by the clearance of drugs that are metabolized by this enzymatic pathway. In drug interaction studies, risperidone is ginificantly affect the pharmacokinetics of donepezil and galantamine, which are metabolized by CVP 2D6. Carcinogenesis, Mutagenesis, Impairment of Fertility: Carcinogenesis: Carcinogenicity studies were conducted in Swiss albino mice and Wistar rats. Risperidone was administered in the divert at doses of 0.63, 25, and 10 molks for 18 months to mice and Morz 5 months to rats. These doese are ediverial in the 24, 94, and 37.5 2.5, and 10 mo/kg for 18 months to mice and for 25 months to rats. These doses are equivalent to 2.4, 9.4, and 37.5 2.5, and 10 mg/kg for 16 months to mice and for 25 months to rais. These doeses are equivalent to 2.4, 9.4, and 3.7.5, times the maximum recommended human dose (MRHD) for schizophrenia (16 mg/day) on a mg/kg basis or 0.2, 0.75, and 3 times the MRHD (mice) or 0.4, 1.5, and 6 times the MRHD (rats) on a mg/m² basis. A maximum tolerated dose was not achieved in male mice. There were statistically significant increases in pituitary gland adenomas, endocrine pancreas adenomas, and mamary gland adenocarcinomas. These findings are considered to be prolactin-mediated. The relevance for human risk of the findings of prolactin-mediated endocrine tumors in rodents is unknown (see PRECAUTIONS, General - Hyperprolactinemia). Mutagenesis: No evidence of mutagenic potential for risperidone was not done to the prolactine done of 0.1 to 5 mg/m 10 PRECAUTIONS, General - Hyperprolactinemia). Mutagenesis: No evidence of mutagenic potential for risperidone was found. Impairment of Fertility: Risperidone (0.16 to 5 mg/kg) was shown to impair maing, but not fertility, in Wistar rats in three reproductive studies at doses 0.1 to 3 times the maximum recommended human dose (MRHD) on a mg/m² basis. Pregnancy: Pregnancy Category C: The teratogenic potential of risperidone was studied in three Segment II studies in Sprague-Dawley and Wistar rats (0.63-10 mg/kg or 0.4 to 6 times the maximum recommended human dose (MRHD) on a mg/m² basis) and in one Segment II study in New Zealand rabbits (0.31-5 mg/kg or 0.4 to 6 times the MRHD on a mg/m² basis). The incidence of matformations was not increased compared to control in offspring of rats or rabbits given 0.4 to 6 times the MRHD on a mg/m² basis. In three reproductive studies in rats (10% Segment III and a multineperfaired at days at factation at doses (in 1.6-5 mg/kg). rabbits given C4 to 6 times the MRHD on a mg/m² basis. In three reproductive studies in ratis (two Segment III and a multigenerational study), there was an increase in pup deaths during the first 4 days of lactation at doses of 0.16-5 mg/kg or 0.1 to 3 times the MRHD on a mg/m² basis. It is not known whether these deaths were due to a direct effect on the fetuses or pups or to effects on the dams. There was no no-effect dose for increased rat pup mortality. In one Segment III study, there was an increase in stillborn rat pups at a dose 0.25 mg/kg or 1.5 times the MRHD on a mg/m² basis. In a cross-fostering study in Wistar rats, toxic effects on the fetus or pups, as evidenced by a decrease in the number of lave pups and an increase in the number of dued pups at birth (Day 0), and a decrease in in the number of lave, regardless of whether or not the pups were cross-fostered. Risperidone also appeared to impair maternal behavior in that pup body weight gain and survival (from Day 1 to 4 of lactation) were reduced in pups born to control but reared by drug-freated dams. These effects were all noted at the one dose of risperidone tested, i.e., 5 mg/kg or 3 times the MRHD on a mg/m² basis. Placental transfer of risperidone occurs in rat pups. There are no adequate and well-controlled MRHD on a mg/m² basis. Placential transfer of risperidone occurs in rat pupe. There are no adequate and well-controlled studies in pregnant women. However, there was one report of a case of agenesis of the corpus callosum in an infant exposed to risperidone *in utero*. The causal relationship to RISPERDAL[®] therapy is unknown. Reversible extrapyramidal expose to its periodic in the enonate were observed following postmarketing use of risperidone during the last timester of pregnancy. RISPERDAL® should be used during pregnancy only if the potential benefit justifies the potential risk to the feuts. Labor and Delivery: The effect of RISPERDAL® on labor and delivery in humans is unknown. Nursing Mothers: In animal studies, risperidone and 9-hydroxyrisperidone are excreted in milk. Risperidone and 9-hydroxyrisperidone are also excreted in human breast milk. Therefore, women receiving risperidone should not breast-feed. Pediatric Use: The stafty and effectiveness of RISPERDAL® in pediatric patients with schizophrenia or bipolar mania have not been established. Tardive Dyskinesia: In clinical trials in 1885 children and adolescents with autistic disorder or other eventibility directive to staft with thereoficers 0.0.92% entities were needed to be not ferriting during in the during the device tready the received of the rece established. Tardive Dyskinesia: In clinical trials in 1885 children and adolescents with autistic disorder or other psychiatric disorders treated with hisperidona. 2 (0.1%) patients were reported to have tardive dyskinesia, which resolved on discontinuation of risperidone treatment (see WARNINGS – Tardive Dyskinesia). Weight Gain: In long-term, open-label trials (studies in patients with autistic disorder or other psychiatric disorders), a mean increase of 7.5 kg after 12 months of RISPERDAL[®] treatment was observed, which was higher than the expected normal weight gain (approximately 3 to 3.5 kg per year adjusted for age, based on Centers for Disease Control and Prevention normative data). The majority of that increase occurred within the first 6 months of RISPERDAL[®]. The average percentiles at baseline and 12 months, respectively, were 49 and 60 for weight, 48 and 53 for height, and 50 and 62 for body mass index. When treating patients with RISPERDAL[®], weight gain should be assessed against that expected in placebo-controlled clinical trials of pediatric patients with autistic disorder. Most cases were mild or moderate in severity. These events were most often of early onset with autistic disorder. Most cases were mild or moderate in severity. These events were most often of early onset with autistic disorder. Most cases were mild or moderate in severity. These conclusion clinical tracks of portative of portation with peak incidence occurring during the first two weeks of freatment, and transient with a median duration of 16 days. (See also ADVERSE REACTIONS.) Patients experimening persistent somnolence may benefit from a change in dosing regimen. **Hyperprolactinemia, Growth, and Sexual Maturation**: Risperidone has been shown to elevate prolactin levels in children and adolescents as well as in adults (see PRECAUTIONS - Hyperprolactinemia). In double-blind, placebo-controlled studies of up to 8 weeks duration in children and adolescents (aged 5 to 17 years), 49% of patients who received risperidone had elevated prolactin levels compared to 2% of patients who received placebo. In clinical trials in 1885 children and adolescents with autistic disorder or other by comparison of patients when received phenoton in climitation in dois of motion and aboreservice in the second patients and synchratric clients retard with inspectione, galactorrheave was reported in 0.8% of risperidone-treated patients and gynecomastia was reported in 2.3% of risperidone-treated patients. The long-term effects of risperidone or growth and sexual maturation have not been fully evaluated. **Geriatric Use:** Clinical studies of RISPERDAL® in the treatment of Šivual maturation have not been fully evaluated. Geriatric Use: Clinical Studies of RISPERDI.⁴⁹ in the treatment of schizophrenia did not include sufficient numbers of patients aged 65 and over to determine whether or not they respond differently than younger patients. Other reported clinical experience has not identified differences in responses between elderly and younger patients. In general, a lower starting dose is recommended for an elderly patient, reflecting a decreased pharmacokinetic clearance in the elderly, as well as a greater frequency of decreased hepatic, renal, or cardiac function, and of concomitant disease or other drug therapy (see CLINICAL PHARMACOLOGY and DOSAGE AND ADMINISTRATION in full PI). While elderly patients exhibit a greater tendency to orthostatic hypotension, its risk in the elderly may be minimized by limiting the initial dose to 0.5 mg BID followed by careful titration (see PRECAUTIONS). Monitoring of orthostatic vital signs should be considered in patients for whom this is of concern. This drug is substantially excreted by the kidneys, and the risk of toxir careactions to this drug may be greater in patients with impaired renal function. Because elderly patients are more likely to have decreased renal function, care should be taken in dose selection, and it may be useful to monitor renal function (see DOSAGE AND ADMINISTRATION in full PI). Concomitant use with Furosemide in Elderly Patients with Dementia-Related Psychosis: In placebc-controlled trials in elderly patients with dementia-related psychosis, a higher incidence of mortality was observed in patients reade psychosis, a higher incidence of mortality was observed in patients treated psychosis, a higher incidence of mortality was observed in a patients treated psychosis. with furosemide plus risperidone when compared to patients treated with risperidone alone or with placebo plus Introduction of the second sec abe of high ElbAc regardess of concontant use with fuscentier for ElbAc to the pprotect and the treatment of patients with Dementia-Related Psychosis.) ADVERSE REACTIONS: Associated With Discontinuation of Treatment: Bipolar Mania: In the US placebo-

ADVERSE REACTIONS: Associated With Discontinuation of Treatment: Bipolar Mania: In the US placebocontrolled trial with risperidone as monotherapy, approximately 8% (10/134) of RISPERDAL®-treated patients discontinued treatment due to an adverse event, compared with approximately 6% (77/125) of placebo-treated patients.

The adverse events associated with discontinuation and considered to be possibly, probably, or very likely drug-related The averse events associated with associated with all of insteaded to be possibly, providely, or length of these events occurred in one RISPERDAL®-treated patient (0.7%) and in no placebo-treated patients (0%). In the US placebo-controlled trial with risperidone as adjunctive therapy to mood stabilizers, there was no overall difference in the incidence of discontinuation due to adverse events (4% for RISPERDAL® vs. 4% for placebo). Incidence in Controlled Trials: Commonly Observed Adverse Events in Controlled Clinical Trials: *Bipolar Mania*: In the US placebocontrolled trial with risperidone as monotherapy, the most commonly observed adverse events associated with the use of RISPERDAL® (incidence of 5% or greater and at least twice that of placebo) were somnolence, dystonia, akathisia, dyspepsia, nausea, parkinsonism, vision abnormal, and saliva increased. In the US placebo-controlled trial with of HISPEHDAL® (incidence of 5% or greater and at least twice that of placebo) were somnolence, dystonia, akathisia, dysepsia, nausea, parkinsonism, vision abnormal, and saliva increased. In the US placebo-controlled trial with risperidone as adjunctive therapy to mood stabilizers, the most commonly observed adverse events associated with the use of RISPERDAL® were somnolence, dizziness, parkinsonism, saliva increased, akathisia, abdominal pain, and urinary incontinence. Adverse Events Doccurring at an Incidence of 2% or More Among RISPERDAL® Treated Patients-Bipolar Mania: Adverse Events that occurred at an incidence of 2% or More Among RISPERDAL®. Treated Patients-treated with flexible doses of RISPERDAL® (1-6 mg daily as monotherapy and as adjunctive therapy to mood stabilizers, respectively) than among patients treated with placebo. Reported adverse events were classified using the World Health Organization preferred terms. Incidence of Treatment-Emergent Adverse Events in a 3-Week, Placebo-Controlled Trial-Monotherapy in Bipolar Mania. Body System/Preferred Term: Central & peripheral nervous system: Dystonia, Akathisia, Dizziness, Parkinsonism, Hypoaesthesia Psychiatric: Somnolence, Agitation, Manic reaction, Anviety, Concentration impaired Gastrointestinal system: Dyspesia, Nausea, Saliva increased, Mouth dy Body as a whole - general: Pain, Fatigue, Injury Respiratory system: Sinusitis, Rhinitis, Coughing Skin and appendages: Acne, Pruritus Musculo-Skeletal: Kyalgia, Skeletal pain Metabolic and nutritional: Weight increase Vision disorders: Vision abormal Cardiovascular, general: Hypertension, Hypotension Heart rate and rhythm: Tachycardia. Incidence of Treatment-Emergent Adverse Events in a 3-Week, Placebo-Controlled Trial – Adjunctive Therapy in Bipolar Mania. Body System/Preferred Term: Gastrointestinal system: Suliva increased, Diarrhea, Abdominal pain, Constipation, Mouth dry, Tooth ache, Tooth disorder Central & peripheral nervous system: Dizziness, Parkinsonism, Akathisia, Dystonia Psychiatric: S Dependency of Adverse Events: Data from two fixed-dose trials provided evidence of dose-extragyramidal symptoms associated with insperioden treatment. These symptoms include: sleepiness, increased duration of sleep, accommodation disturbances, orthostatic dizziness, palpitations, weight gain, erectile dysfunction, ejaculatory dysfunction, orgastic dysfunction, asthenia/lassitude/increased faitgability, and increased gimemtation. *Vital Sign Changes:* IRSPERDAL¹⁶ is associated with orthostatic hypotension and tachycardia (see PRECAUTIONS). *Weight Changes:* A statistically significantly greater incidence of weight gain for RISPERDAL⁶ (RIS⁶) compared to placebo (9%). *Laboratory Changes:* A between-group comparison for 6- to 8-week placebo-controlled trials revealed no statistically significant RISPERDAL⁶/placebo differences in the proportions of patients. Similarly, there were no RISPERDAL⁶/placebo differences in the incidence of discontinuations for changes in serum chemistry, hematology, or urinalysis. However, RISPERDAL⁶ administration was associated with increases in serum prolactin (see PRECAUTIONS). *ECG Changes:* abetween-group comparisons for 6-consplet discontered by the serue of the serve and the serve and the server of the server the se Difference of the second secon controlled trials in pediatric patients treated tor irritability associated with Autistic disorder (n=156), two patients (one treated with RISPERDAL® and one treated with placebo) discontinued treatment due to an adverse event. Incidence of Treatment-Emergent Adverse Events in Two 8-Week, Placebo-Controlled Trials in Pediatric Patients with Autistic Treatment-Emlegited Adverse Events in Two 3-week, Place0-Collidoid on the Bollaric Patients with Adverse Events in Two 3-week, Place0-Collidoid Ongotti International Confusion Gastrointestinal: Saliva increased, Constipation, Dry mouth Body as a whole - general: Fatigue Central & peripheral nervous system: Tremor, Dystonia, Dizziness, Automatism, Dyskinesia, Parkinsonism Respiratory: Upger respiratory tract infection Metabolic and nutritional: Weight increase Heart rate and rhythm: Tachycardia Other Events Observed During the Premarketing Evaluation of RISPERDAL®: During its premarketing assessment, multiple doses of RISPERDAL® were administered to 2607 adult patients with schizophrenia and 1923 pediatric patients in Phase 2 and 3 studies and the Idlawing neutrino resultance works for these operations in Phase 2 and 3 Burning the remarketing Evaduation of micro EnderL. Subject 10:00 patients in prediction patients in Phase 2 and 3 studies and the following reactions were reported: (Note: 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. It is important to emphasize that, atthough the events reported occurred during treatment with RISPERDAL®, they were not necessarily caused by it). Serious adverse reactions experienced by the pediatric population were similar to those seen in the adult population (see WARNINGS, PRECAUTIONS, and ADVERSE REACTIONS). **Psychiatric Disorders:** *Frequent* increased dream activity', diminished sexual desire', nervousness. *Infrequent*: impaired concentration, depression, apathy, catatonic reaction, euphoria, increased blibdo, amesia. *Rare:* emotional lability, nightmares, delirum, withdrawal syndrome, yawning. **Central and Peripheral Nervous System Disorders:** *Frequent*: increased seep duration'. *Infrequent:* dysarthria, vertigo, stupor, paraesthesia, contusion. *Rare:* aphasia, choinergie syndrome, hypoesthesia, tongue paralysis, leg cramps, toritoillis, hypotonia, coma, migraine, hypereflexia, choreaathetois. Gastroesophageal reflux, gastroenteritis, esophagitis, tongue discoloration, cholelithiasis, tongue edema, diverticulitis, gingivitis, discolored fees, GI hemorrhage, hematemesis. *Body* as a Whole/General Disorders: *Frequent*: increased appetite, stomatitis, melara, et al. Suborders: Infrequent: tablor, endered abdomen, allergic reaction, aspires, spradeal reflux, increased syndrome, hypersettilis, and reguent adverse adjentention'. *Interquent:* thoreased digmentation', *Interquent:* thoreased digmentation', *Interquent:* edition, astroesophageal reflux, realior, endered abdomen, allergic reaction, castioes, sarcoliossi, flushing, respiratory System Disorders: *Interquent:* thoreased adjentention', *Interquent:* increased gigmentation'. *Interquent:* increased gigmentation', *Interguent:* i Infrequent: increased sweating, acne, decreased sweating, alopecia, hyperkeratosis, puritus, skin exfoliation. *Pare:* bullous eruption, skin ulceration, aggravated psoriasis, furunculosis, verruca, dermatitis lichenoid, hypertrichosis, genital pruritus, urticaria. **Cardiovascular Disorders:** *Infrequent:* palpitation, hypertension, hypotension, AV block, myocardial bullous eruption, skin ulceration, aggravated psoriasis, furunculosis, verruča, dermatitis lichenoid, hypertrichosis, genital pruritus, uricraia. **Cardiovascular Disorders:** Infrequent: palpitation, hypertension, hypotension, AV block, myocardia infarction. *Rare:* ventricular tachycardia, angina pectoris, premature atrial contractions, T wave inversions, ventricular extrasystoles, ST depression, myocarditis. **Vision Disorders:** Infrequent: ahonomal accimmodation, xerophthalmia. *Rare:* diplogia, eve pain, blepharitis, photopsia, photophobia, abnormal lacrimation. **Metabolic and Nutritional Disorders:** Infrequent: hyponatremia, weight increase, creatine phosphokinase increase, thrist, weight decrease, diabetes mellitus. *Rare:* decreased serum iron, cachexia, dehydration, hypokalemia, hypoproteinemia, hyperphosphatemia, hypertriglyceridemia, hyperuricemia, hypoglycemia. **Urinary System Disorders:** *Frequent:* polyunåpolydipsia⁺. *Infrequent:* urinary incontinence, hematuria, dysunia. *Rare:* urinary relation, cystitis, arthritis, skeletal pain. Reproductive Disorders: *Frequent:* menorrhagia⁺, orgastic dysfunction⁺, dy vagina⁺. *Infrequent:* nonpuerperal lactation, amenorthea, female breast pain, leukorthea, mastitis, dysmenorthea, female perineal pain, intermenstrual bleeding, vaginal hemorthage. **Liver and Biliary System Disorders:** *Infrequent:* increased SGOT, increased SGPT. *Are:* hepatic failure, cholestatic hepatitis, cholecystitis, cholelithiasis, hepatocellular damage. Platelet, Bleeding, and Clotting Disorders: *Infrequent:* anyochromic anemia. *Rare:* nemornedic: anemia. *Reproductive Disorders: Infrequent:* granulocytopenia. *Rare:* lensorchice, semia. *Reproductive Disorders: Male: Frequent:* erectile dysfunction⁺. *Infrequent:* ejaculation failure. **White Cell and** *Resistance Disorders: Infrequent:* granulocytopenia. *Rare:* lensorchice, Special **Sense:** *Rare:* bitter taste. [†]Incidence based on elicited reports. *Postitroduction* Reports. *Alvere:* events are treated with other antipsychotic drugs. DRUG ABUSE AND DEPENDENCE

Controlled Substance Class: RISPERDAL® (risperidone) is not a controlled substance.

For more information on symptoms and treatment of overdosage, see full Prescribing Information. 7503233SB Revised December 2006 © Janssen 2003



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ZYPREXA[®] (Olanzapine Tablets) ZYPREXA® ZYDIS® (Olanzapine Orally Disintegrating Tablets) ZYPREXA® IntraMuscular (Olanzapine for Injection) Brief Summary: Please consult package insert for complete prescribing information.

WARNING

Increased Mortality in Elderly Patients with Dementia-Related Psychosis—Elderly patients with dementia-related psychosis treated with alypical 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 schizophrenia, 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 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 demonsions (2.5%) were storighted to reveater than placebo-treated detaints (2.5%) were storighted by the storighted by the storighted to reveater than placebo-treated detaints (2.5%) were storighted by the storighted by the storighted to reveater than placebo-treated detaints (2.5%) were storighted by the storighted by the storighted to reveater than placebo-treated detaints (2.5%) were storighted by the storighted by the storighted to reveater than placebo-treated detaints (2.5%) were storighted by the storighted by the storighted to storighted to storighted to storighted by the storight

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%). Cerebrovascular Adverse Events. Including Stroke, in Elderly Patients with Dementia—Cerebrovascular adverse events (eg. stroke, transient ischemic attack), including fatalities, were reported in patients in trials of olanzapine 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 olanzapine compared to patients treated with placebo. Olanzapine is not approved for the treatment of patients with dementia-related psychosis. <u>Hyperdycernia and Diabetes Mellitus</u>—Hyperdycernia, in some cases associated with ketoacidosis, coma, or death, has been reported in patients treated with adycical 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 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 during treatment. Any patient treated with atypicals should be monitored for symptoms of hyperglycemia. Patients who develop symptoms of hyperglycemia during ratement with atypicals should undergo FBG testing. <u>Neuroleptic Malignant Syndrome (NMS)</u>—Potentially fatal NMS has been reported in association with administration of antipsychotic drugs, including olanzapine. See complete prescribing information for information on management of NMS. Patients requiring antipsychotic drug treatment after recovery from NMS should be carefully monitored since recurrences have beem

PRECAUTIONS: Hemodynamic Effects—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 intramuscular 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 intramuscular olanzapine for injection in clinical trials. Three normal volumeters in phase 1 studies with intramuscular olanzapine for injection inclinical trials. Three normal volumeters in phase 1 studies with intramuscular olanzapine for vents 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 atter injection with intramuscular olanzapine of mycometal trials with hypotension, bradycardia, and/or hypoventilation. Olanzapine should be used with particular caution in patients with known cardiovascular disease, and conditions which would predispose patients hypotension (dehydration, hypovolemia, and treatment with antihypertensive medications) where the occurrence of syncope, or hypotension and/or badycardia mying effects that can induce hypotension, bradycardia, patients receiving treatment with other drugs having effects that can induce hypotension, bradycardia patients recommended. Succentre committed and is not recommended. If such combination treatment is considered, careful evaluation of clinical status for excessive sedation and cardiorespiratory depression is recommended. <u>Seizures During bremarketing testing</u>, seizures occurred in 0.9% (22/2500) ol olanzapine-treated patients, regardless of causality. Use cautiously in patients with a history of seizures or with conditions that potentially

Secures—During prefinanceing testing, secures occurred in 0.9% (22/2000) of olarappine-traded patients, regardless of causality. Use cautiously in patients with a history of secures or with conditions that potentially lower the seizure threshold. <u>Hyperproductional conditions</u> 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. Transaminase Elevations—In placeho-controlled studies, clinically significant ALT (SGPT) elevations.

Apploximately one limit of natural blast calculates are provided to the provided in which chowers, network of trugs and turnorigenesis in humans; the available evidence is inconclusive. <u>Transaminase Elevations</u>—In placebo-controlled studies, clinically significant ALT (SGPT) elevations (\$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 jauncice. Among about 2400 patients with baseline SGPT =901 IU/L, 2% (50/2381) had asymptomatic SGPT elevations to >200 IU/L. Most were transient charges that tended to normalize while olanzapine treatment was continued. Among 2500 patients in oral olanzapine triads, 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 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 hepatotxic 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 (olanzapine 26% vs placebo 15%). Somnolence led to discontinuation in 0.4% (9/2500) of patients in the oral premarketing database. <u>Body Temperature Regulation</u>—Use appropriate care when prescribing olanzapine for patients who will be experiencing conditions that may contribute to an elevation in orce body temperature. <u>Uysphaig</u>—Esophageal dysmotility and aspiration have been associated with antipsychotic drug use. Aspiration pneumonia is a common cause of morbidity and mortality in patients with advanced Azheimer's disease. Olanzapine and other antipsychotic drugs should be used (autiously in patients with advanced Azheimer's disease. Olanzapine and other antipsychotic dr

Hemodynamic Effects)

Information for Patients—See full prescribing information for information to discuss with patients taking olanzapine

Laboratory Tests—Periodic assessment of transaminases is recommended in patients with significant

Drug 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. Olanzapine may antagonize the effects of levodopa and dopamine agonists. Agents that induce CYP1A2 or glucuronyl transferase enzymes (eg, omeprazole, rifampin) may cause an increase in olanzapine clearance. Inhibitors of CYP1A2 could potentially inhibit olanzapine clearance. Although olanzapine is matabolized by multiple enzyme systems, interfere or inhibition of a single enzyme may appreciably alter olanzapine clearance. A dosage adjustment may

potentially infinite oranzapine clearance. Attroogn oranzapine is metabolized by multiple enzyme systems, induction or inhibition of a single enzyme may appreciably alter olanzapine clearance. A dosage adjustment may need to be considered with specific drugs. Activated charcoal (1 g) reduced the Cmax and AUC of oral olanzapine by about 60%. Single doses of cimetidine (800 mg) or aluminum- and magnesium-containing antacids did not affect the oral bioavailability of olanzapine. Carbamazepine (200 mg bid) causes an approximately 50% increase in the clearance of olanzapine. of olanzapine. Carbamazepine (200 mg bid) causes an approximately 50% increase in the clearance of olanzapine. Higher daily doses 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 Cmax 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. Fluoxamine 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 pharmacokinetics interaction between olanzapine and valproate is unlikely. Olanzapine is unlikely to cause clinically important drug interactions mediated by the enzymes CYP1A2, CYP2O9, CYP2O19, CYP2O16, and CYP3A. Single doses of olanzapine did not affect the pharmacokinetics of impramine/designamine or warfarin. Multiple doses of olanzapine did not affect the pharmacokinetics of the orthostatic hypotension observed with olanzapine. Multiple doses of olanzapine did not affect 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 or injection added to the somnolence observed with either drug alone (*se*

Hemodynamic Effects)

Hemodynamic Effects). Carcinogenesis, Mutagenesis, Impairment of Fertility—The incidence of liver hemangiomas and hemangiosarcomas in female mice was significantly increased in one carcinogenicity study at 2 times the maximum human daily oral dose (MHDOD) but not in another study at 2-5 times the MHDOD (mg/m² basis). 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. Muse vidence of mutaenic potential for planzapine bas basen found.

unknown. No evidence of mutagenic potential for olarization included included included included in outside in the included in the included included included in the included included

the MHDÓD (mg/m² basis). Diestrous was prolonged and estrous delayed at 0.6 times the MHDOD (mg/m² basis); therefore, olanzapine may produce a delay in ovulation. <u>Pregnancy 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 olanzapine; its effect on labor and delivery in humans is unknown. In a study in lactating, healthy women, olanzapine was excreted in breast 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. **Use in Pediatric and Geriatric Patients**—Safety and effectiveness in pediatric patients have not been established. In premarketing clinical trials in patients with schizophrenia, there was no indication of any different loelarabity 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 with dementia-related psychosis treated with olanzapine at an increased risk of death compared to placebo. Olarzapine 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 dose for any geriatric patient in the presence of factors that might decrease pharmacokinetic clearance or increase the pharmacodynamic response to olarzapine (see BOX WARNING, WARNINGS, and PRECAUTIONS).

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 olarzapine and 722 patients with exposure to intramuscular olarzapine for injection, including patients with schizophrenia, bipolar mania, or Alzheimer's disease (oral olarzapine trials) and patients with aplation associated with schizophrenia, bipolar loisorder (manic or mixed episodes), or dementia (intramuscular olarzapine for injection trials). See the full prescribing information for details on these trials. Certain portions of the discussion below relating to dose-dependent adverse events, vital sign changes, weight dain, 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 more and apitation.

Associated with Discontinuation—Overall there was no difference in discontinuations due to adverse events

the hard interview opported to sport maine or agritution, nonveret, this information is used gritulity approaches to bipolar mania and agritution. —Overall there was no difference in discontinuations due to adverse events in placebo-controlled or of olanzapine trials (olanzapine y placebo: schizophrenia, 5% vs 6%; bipolar mania cotherapy, 11% [olanzapine plus lithium or valproate alone]); or in placebo-controlled intramuscular olanzapine tor injection, 0.4%; placebo 0%). Discontinuations in oral schizophrenia trials due to increase in SGPT were considered to be drug related (olanzapine 2% vs placebo 0%); see PRECAUTIONS). *Commonly Observed Adverse Events*—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) 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 observed with oral onazpine incidence at least twice that for placebo were; asthenia, dy mouth, constipation, dyspepsia, increased appetite, somolence, dizziness, and tremor. In short-term bipolar mania combination therapy trials, the most common treatment-emergent adverse events observed with calanzapine plus lithium or valproate were dry mouth, onethy dain, increased appetite, dizziness, back pain, constipation, speech disorder; increased aslivation, amesia, and parsthesia. In 24-hour placebo-controlled trials of intramuscular olanzapine for injection for aglitation associated with schizophrenia trial, somolence was the one adverse event observed at an incidence a≥5% with oral olanzapine (forses ≥2.5 glacebo 3%). *Adverse Events with an Incidence* 2% with oral olanzapine (forses ≥2.5 glacebo 1%). *Body as a Whole*—accidental injury, asthenia, fever, back pain, chest

This. Dury is a winne-astrelina, back pain, accurate injury, crest pain, cantovasturar-hypertension, Digestive-dry mouth, increased appetite, thirst, constipation, increased salivation; **Melabolic and Nutritional**-weight gain, peripheral edema, edema; **Nervous System**—somnolence, tremor, depression, diziness, speech disorder, ammesia, paresthesia, apathy, confusion, euphoria, incoordination; **Respiratory**—pharyngitis, dyspnea; **Skin and Appendages**—sweating, acne, dry skin; **Special Senses**—amblyopia, abnormal vision; **Urogenital**-

Skin and Appendages—sweating, ache, dry skin; Special Senses—amblyopia, abnormal vision; Urogenital— dysmenorrhea, vaginitis. Adverse Events with an Incidence ≥1% in Intramuscular Trials—The following treatment-emergent adverse events were reported at an incidence ≥1% with intramuscular olarazpine 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, diziness, tremor. Dose Dependency of Adverse Events in Short-Term, Placebo-Controlled Trials—Extrapyramidal 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 vakthisia (Barmes Akathisia and hyperkinesia) showed a statistically significantly greater adverse events incidence with the 2 higher doses of olanzapine than with placebo. Ther was son significantly greater than placebo. There was there than placebo. The same trial, only adathisia events (spontaneously reported COSTART terms akathisia and hyperkinesia) showed a statistically significantly greater adverse events incidence with the 2 higher doses of olanzapine than with placebo. The incidence of patients reported was significantly greater than placebo ofly with the inčidence óf patients reporting any extrapyramidal event was significantly greater than placebo only with the

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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 symptoms, assessed by either rating scales incidence or spontaneously reported adverse events.

<u>Other Adverse Events</u>: Dose-relatedness of adverse events was assessed using data from this same clinical trial involving 3 fixed oral dosage ranges (5±2.5, 10±2.5, or 15±2.5 mg/d) compared with placebo. The following treatment-emergent events showed a statistically significant trend: asthenia,

placebo. The following treatment-entergent events showed a statisticary symmatry and a subscription of the following barriers and a subscription of the following barriers with schizophrenia, schizophreniform disorder, or schizoaffective disorder comparing fixed doses of 10, 20, and 40 mg/d, statistically significant differences were seen between doses for the following: baseline to endpoint weight gain, 10 vs 40 mg/d, incidence of treatment-emergent prolactin elevations >24.2 ng/mL (female) or >18.77 ng/mL (male), 10 vs 40 mg/d, attation and 20 vs 40 mg/d; tatigue, 10 vs 40 mg/d and 20 vs 40 mg/d;

10 vs 40 mg/d; incidence of treatment-emergent prolactin elevations >24.2 ng/mL (female) or 718.77 ng/mL (male), 10 vs 40 mg/d and 20 vs 40 mg/d; fatigue, 10 vs 40 mg/d and 20 vs 40 mg/d; *Mial Sign Changes*—Oral olanzapine was associated with orthostatic hypotension and tachycardia in clinical trials. Intramuscular olanzapine for injection was associated with bradycardia, hypotension, and tachycardia in clinical trials (see PRECAUTIONS). *Weight Gain*—In placebo-controlled 6-week schizophrenia studies, weight gain was reported in 56% of oral olanzapine patients (average 2.8-kg gain) compared to 0.8% of placebo patients (average 0.4-kg loss); 29% of olanzapine 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. *Laboratory Changes*—Olanzapine is associated with asymptomatic increases in SGPT, SGOT, and GGT and with increases in serum prolactin and CPK (see PRECAUTIONS). Asymptomatic elevation of a risk of clinically significant neutropenia associated with blazapine in the premarketing dtabase. In clinical trials among olanzapine-treated patients with baseline random triglyceride levels of 4150 mg/dL (M=659), 0.5% experienced triglyceride levels of ±200 mg/dL, avprime during the trials. In these same trials, olanzapine-treated patients (M=1034) experienced cholesterol levels of ±240 mg/dL anytime during the trials more often than placebo-treated patients (M=602; 3.6% vs ±2% respectively). In these same trials, olanzapine-treated patients (M=602; 3.6% vs ±2% respectively). In these same trials, olanzapine-treated patients (M=602; 3.6% vs ±2% respectively). In these same trials, olanzapine-treated patients (M=602; 3.6% vs ±2% respectively). In these same trials, olanzapine-treated patients (M=602; 3.6% vs ±2% respectively). In these same trials, olanzapine-treated patients (M=

22% respectively). In these same trais, note other than plactude ideated by the 2528h and a mean increase of 0.4 mg/dL in cholesterol from a mean baseline of 203 mg/dL, which was significantly different compared to placeb-treated platients (N=1415) with a mean decrease of 4.6 mg/dL from a mean baseline of 203 mg/dL.
 EGG Changes—Analyses of pooled placebo-controlled trials revealed no statistically significant of anzapine/placebo differences in incidence of potentially important changes in EGG parameters, including QT, QTc, and PR intervals. Olanzapine at multiple doese s 1 mg/dl in clinical trials (6661 patients, 4165 patient-years of exposure). 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. *Frequent* events occurred in 1/100 patients; *infrequent* events occurred in 1/100 patients; *infrequent* tail for inflution, bradycaular accident, congestive heart failure, heart arrest, hemorrhage, migraine, pallor, palpitation, vasodilatation, ventricular extrasyloles; Rare: achilis, and fever, hangover effect, suddem death. *Cardiovascular - Frequent* tail for plantion, bradycautia, careborovascular accident, congestive heart failure, heart arrest, hemorrhage, migraine, pallor, palpitation, vasodilatation, ventricular extrasyloles; Rare: achitis, heart aline, longuagi, esophagitis, fecal impaction, field, public, intervalis, soliter. Hemic and Lymphatico- Infrequent: dispets, hitropuent, manie, keyora, palpagis, leukopetis, kare: aphthous stomatitis, entertis, erectuation, esophagia, esophagitis, fecal impaction, field, public, cardiosis, alkaline hypotaris, heart and the devention, hypocretine, keyora, and unmiliasis, periodontal abscess, recal hemorrhage, thrombocythemia, keyorotis, leukopetia, kyportenie, and threat acidosis, golicer. He

(*Adjusted for gender.) The following treatment-emergent events were reported with intramuscular olanzapine for injection at one or more doese ≥2.5 mg/nipection 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: Ablock, heart block, syncope. Digestive—Infrequent: creatine phosphokinase increased, dehydration, hyperkalemia. Metabolic and Nutritional—Infrequent: creatine phosphokinase increased, dehydration, hyperkalemia. Musculoskeletal—Infirequent: twitching. Nervous System—Infrequent: abnormal gait, akathisia, articulation impairment, confusion, emotional lability. Skin and Appendages—Infrequent: sweating. Postintroduction Reports—Reported since market introduction and temporally (not necessarily causally) related to olanzapine therapy: allergic reaction (eg, anaphylactoid reaction, angioedema, 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 reported. DRUG ABUSE AND DEPENDENCE: Olanzapine is not a controlled substance.

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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Treat With the Body in Mind

CHOOSE COMPARABLE POWER...

Consistent results in acute head-to-head studies1-3





Mean % improvement from baseline at end point

A 6-week, double-billint, randomized study of GEDDON vs islaszapitie and an 8-week, double-billind, randomized study of GEDDON vs insperidone.

- 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 risperidone1
 - -up to 6 months vs olanzapine*

GEODON is indicated for the treatment of schizophrenia.

... WITHOUT COMPROMISING METABOLIC PARAMETERS

Significant results in switch studies after 1 year13



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 triglycerides⁶
- 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)¹²
- In the GEODON vs risperidone study, risperidone increased body weight (2 lb vs 0 lb for GEODON, P<0.01)¹³

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 nyocardial 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%).





Please see brief summary of prescribing information, including boxed warning, on adjacent page.

BRIEF SUMMARY. See package insert for full prescribing information.

Increased Mortality in Elderty Patients with Dementia-Related Psychosis: Elderty patients with dementia-related psychosis treated with atypical antipsychotic drugs are at an increased risk of death compared to placebe. Analyses of seventeen placebe controlled trials (modal duration of 10 weeks) in these patients revealed a risk of death in the drug-treated patients between 1.8 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 interclous (e.g., pneumonia) in nature. GEODON (ziprasidone) is not approved for the treatment of patients with Dementia-Related Psychosis.

NOICATIONS—GEODON Capsules is indicated for the treatment of schizophrenia and acute manic or mixed episodes associated with bipolar disorder with or without psycholic features. GEODON® (ziprasidone mesylate) for Injection is indicated for acute agitation in schizophrenic patients.

schizophrenic patients. CONTRAINDEATIONS — Of Prolongation: Because of GEDDON's dose-related prolongation of the QT interval and the known association of fatal arrhythmias with QT prolongation by some other drugs, GEDDON is contraindicated in patients with a known history of QT prolongation (including congenital long QT syndrome), with recent acute myccardial infarction, or with uncompensate heart failure (see WARNINGS). Pharmacokneticpharmacodynamic studies between GEDODA not other drugs that prolong the QT interval have not been performed. An additive effect of GEDODN and other drugs that prolong the QT interval cannot be excluded. Therefore, GEODON should not be given with defieldide, statol, quinding, other Class I and III anti-arthythmics, mesoridazine, thioridazine, chlorgromazine, droperidol, pimozide, sparifoxacin, quinding, other Class I and III anti-arthythmics, mesoridazine, thioridazine, chlorgromazine, droperidol, pimozide, sparifoxacin, quitfloxacin, moxifloxacin, halofantrine, melloquine, pentamidine, arsenic trioxide, levonethadyl acetate, dolasetron mesylate, probucol, or tacrolimus. GEDODN is also contraindicated with drugs that have demonstrated QT prolongation as one of their pharmacodynamic effects and heave this effect described in the full prescribing information as accinterated approhesis tradeated with a typical antipsychotic drugs are at an increased risk of death compared to placebo. GEDDON (ziprasidone) is not approved to the trastment of palients with dementia-related psychosis: Elder y patients with several to their drugs effective of the the restment of palients with dementia-related psychosis. Elder Stations with several other drugs effective of the the restment of palients with dementia-related psychosis. Elder Stations of this study, the defield of GEDDON is a senee of the datu diffective partients with a the been consistently observed to prolong the QT, interval. Studd incluse, comparing the QT/QT, prolonging after of GEDDON with several other drugs flat have be The relationship of 0 T prolongation to torscade do pointes is clearest for larger increases (20 msec and greater) but it is possible that smaller 017/0T_c 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 GEDDON eater) but it is possible that The relationship of OT prolongation to torsade de pointes is clearest for larger increases (2) more and greater) but it is possible that smaller OT/OT, prolongations may also increase it is, succease it is association, with the use of GEODON at recommended does in premarketing studies, experience is too limited to rule out an increased risk. A study evaluating the OT/OT, prolonging effect of intranucual GEODON, with intranuscular haloperidol as a control, was concluded in patient volve valuating the OT/OT, prolonging effect of intranucual GEODON, with intranuscular haloperidol as a control, was concluded in patient volve valuating the OT/OT, prolonging effect of intranucual GEODON, which intranucual that a 30 mg does of intranuscular GEODON k3 GPC higher than the recommended therapeutic dose. The mean change in OT, from baseline was calculated for each drug using a sample-based correction that removes the effect of hart rate on the OT interval. The mean increase in OT, from baseline for EEDON was 4.5 mes chilowing the first injection and 14.7 mesc following the second injection. In this study, no patient had a 0T, interval exceeding 500 mesc. As with other antipsycholic drugs and placeho, sudden unexplained deaths have been reported in patients king GEODON at recommended doses. The premarketing experience for GEDON bit did not reveal an excess of mortality for GEODON compared to other antipsycholic drugs or placeho, but the extent of exposure was initiled, especially for the drugs used as active controls and placeho. Nevertheless, GEDONN's larger prolongation of OT, length compared to several other antipsycholic drugs raises the possibility needs to be consistered in deciding among alternative drug products. Cortain circumstances may increase the risk of the occurrence el congenital prolongation of the CTI interval. GEODON should also be avoided in patients with conging CTI, interval, including (1) bradycaria; (2) typeslatemia or typoomagneesmia; (3) concomitant use of drug tratpsy, diardnee, and and/or forcard, windreschulturation of the advice the standing of the standing patients with known cardiovascular disease (mistory of myocardial infarction or ischemic heart disease, heart faiure or conduction abnormalities, cerehoroscular disease or conditions that would predispose patients to hypotension (dehydration, hyporoulemia, 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, ScieDON should be used cautiously in patients with abitory of seizures or with conditions that outed in worth the seizure threshold, e.g., Abrianier's domentia, Conditions that lower the seizure threshold may be more prevalent in a population of 65 years or older. <u>Dysphagia</u>: Esophageal dysmotility and aspiration have been associated with antipsychotic drug use. Aspiration pneumonia is a common cause of morbidity and mortality in deforty patients, in particular threes with advanced Arbitemer's dementia, and GEDON and other antipsychotic drugs should be used cautiously in patients at those with advanced Arbitemer's dementia, and GEDON and other antipsychotic drugs should be used cautiously in patients at the aptient be hypercentical to the during three three toreased <u>Mortality in Elderly Patients</u> **Hortensity in patients**. The aptient because a septication prevention and the antipsycholic drug school be used **Cautionsly in patients** at the aptient because a septication prevention and the antipsycholic burges chool becaused **Hortensity in patients** at the lower antipsycholic burges chool burges and the during the antipsycholic burges chool burges and the prevention of the during the subtrate tore that antipsychol burges and bur with Dermetia-Related Psychosis). <u>Hyperprotectine mina</u>. As with other drugs that antagonize dogamine D, receptors, GEODON elevates prolacitinevels in humans. Tissue culture experiments indicate that approximately one third of human breast cancers are protacitin dependent in vitro, a factor of opential 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 Netther clinical studies nor epidemiologic studies conducted to date have shown an association between chronic administration of this class of drugs and twonorigenesis in humans; the available evidence is considered too finited to be conclusive at this time. <u>Putential for Contitive</u> and <u>Motor Impairment</u>. Somnolence was a commonly reported adverse eventin GEODON patients. In the 4- and 6-week placebo-controlled trials, somnolence was reported in 14% of GEODON 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 hazardous machinery until thy are reasonably certain that GEODON therapy does not fafet: the madversey. <u>Planism</u>: One case of prapisem was reported in the premarketing database. <u>Body Temperature Regulation</u>, Although not reported with GEODON in premarketing trials, disturbion of the objek shill bittor redues one about interments than attributed to a contexported vice cost. Suivider. The areaversitient of a cost should be contineed bout performing activities requiring mental alertness, such as operating a motor vehicle (including automobiles) or operating distortion of the body's shill bittor redues one about interments than attributed to a contexported with GEODON in premarketing trials. was reported in the premarketing database. Body Temperature Regulation: Although not reported with GEDDON in premarketing trials, disruption of the body's ability for educe occe body temperature has been attributed to antipsychoic caents. Suicide: The possibility of a suicide attempt is inherent in psychotic illness and close supervision of high-risk patients should accompany drug therapy. GEDDON prescriptions should be written for the smallest quantity of capsules consistent with good patient management to reduce overdoes risk. <u>Use in Patients with these dagnoses were excluded from premarketing clinical studies.</u> Because of the risk of Clip prolongation and Risk of Sudden Deathin orthostatic hypotension with GEDODN, actions hould be observed in cardiac patients; see <u>OT Prolongation and Risk of Sudden Deathin</u> **WARNINGS** and <u>Othostatic Hypotension</u> in **PRECAUTIONS**. Information for Patients: To ensure sale and effective use of GEDODN, the metaberson of the Debuget and the previous of the Debuget and the patients. To ensure sale and effective use of GEDODN, the

Information and instructions in the *Patient Information Sections* hould be discussed with patients. *Laboratory Tasks*: Patients being considered for GEDDON treatment who are a risk of significant electrolyte disturbances should have baseline serum potassium and magnesium mould be repleted before treatment. Patients who are started on diversics during GEDDON therapter May are found to the used with any during the protoing of serum potassium and magnesium. Biocontinue GEDDON therapter May are found to the or entration of the serue MARNINGS. *Drug Interactions*: (1) GEDDON should not be used with any during the protoings the T Interact. (2) Gevint the printry. (10) Sectores of the potential for inducing hypotension, GEDDON. Catacom Should be used when it states in combination with other centrally acting drugs. (3) Because of the potential for inducing hypotension, GEDDON through and in GEDON through any anaporice the effects of certain antihyperinesive against. (4) GEDDON may anaporic the effects of a certain antihyperinesive against. (4) GEDDON may anaporice the first of the discussion of the Schapthrenia billast revealed an apparent relation of adverse event to does for the following: astheria, postanal hypotension, and abnormal vision. *Extrayarmial Edit Symptons* (EPS): The incidence of adverse event to does for the following: astheria, postanal hypotension, and abnormal vision. *Extrayarmial Symptons* (EPS): The incidence of adverse event to does for the following: astheria, postanal hypotension, and abnormal vision. *Extrayarmial Symptons* (EPS): The incidence of adverse event to does for the following: astheria, postanal hypotension, and abnormal vision. *Extrayarmial Symptons* (EPS): The incidence of ECDOV and pietors time Simpson-Angus Rating Scale and the Barnes Akathisis Scale did not generally show adfifterince between GEOD0V and pietos. *Vital Sign* (*Charges*: GEOD0N is associated with nothostatic hypotension (see **PEECAUTIONS)**. *Weight Gain*: In short-term schizophrenia triaks, the proportions of patients meeting a weight gain oritrino to 2:** of body weight were compared, revealing a statisticatily significant weight gain for GEDODN adarets (10%) vs placebo patients (4%). A median weight gain of 0.5 kg was observed in GEODON patients vs 0.0 kg in placebo patients. Weight gain was reported as an adverse event in 0.4% of both GEDODN and placebo patients. Uning long-term threagen with GEODON and placebo patients vs 0.0 kg in placebo patients. Weight gain vas a nean weight gain of 0.5 kg was observed in GEODON and personse with a 'orwari' Biden with a 'orwari' Biden with a 'orwari' Biden with a 'orwari's Biden and the highest incidence of clinically significant weight gain (1 × 6 body weight) in patients with a 'orwari's Biden and the for interval (see MANINGS). No shore hyperiant is, GEODON was associated with mean increase in heart rate of 14 backs per minute compared to a 0.2 beats per minute decrease among placebo patients. *Other Statistical Adverse Events* Bidserved During the Premarketing Evaluation of GEODOR Frequent adverse events are those occurrin WARINIGS). In sekizophrenia trials, ECDOON was associated with a mean increase in hear tate of 14 beats per minute compared to a 0.2 beats per minute decrease among placebo patients. *Other Adverse Events Diarevel During the Premarketing Evaluation of BEDOOK*. Frequent adverse events are those occurring in 1/100 to 1/1000 patients. Schizophrenia: <u>Body asa Whele</u> — Frequent: advortiag in flavese events are those occurring in at least 1/100 patients. Schizophrenia: <u>Body asa Whele</u> — Keynent: <u>Advortiag Evaluation of BEDOOK</u>. Syndrome, Rever, accidenta fail, nacedema, chils, photosensitivity reaction, flantinguent bradycardia, angina pectoris, attal Ibrillation, *Paare*: frst-degree AV block, bundle branch block, phibitibis, <u>Dipositive System</u> — *Frequent*: anorxia, vomiting: <u>Infraquent</u>: restal hemorrhage, Jaustice, Jau

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Neuropharmacology & Neurophysiology | Neurodegeneration

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She couldn't imagine her future without depression. But we can.



Wyeth Neuroscience believes that everyone deserves a healthier tomorrow. That's why Wyeth is building one of the world's leading pipelines focused on such challenging disease areas as depression, schizophrenia, bipolar disorder, Alzheimer's disease, stroke, and pain. Our

passion for research and development has produced innovative therapies that make a real difference for millions of patients. Already recognized as having a top 10 pipeline, Wyeth continues to develop new drugs that we hope will change the future of health care. Because every discovery brings new hope for patients everywhere.

In addition to Wyeth.com, please visit a site dedicated entirely to neuroscience—WyethNeuroscience.com.



Pain | Schizophrenia & Bipolar Disorder | Depression & Anxiety

Still depressed?



Anxiety, insomnia, low energy Currently on an SSRI*

Still suffering

It may be time to make a change

* Patients currently on an SSRI should be evaluated following an adequate trial.



IMPORTANT TREATMENT CONSIDERATIONS

Suicidality and Antidepressant Drugs

Antidepressants increased the risk compared to placebo of suicidal thinking and behavior (suicidality) in children, adolescents, and young adults in short-term studies of Major Depressive Disorder (MDD) and other psychiatric disorders. Anyone considering the use of EFFEXOR XR or any other antidepressant in a child, adolescent, or young adult must balance this risk with the clinical need. Short-term studies did not show an increase in the risk of suicidality with antidepressants compared to placebo in adults beyond age 24; there was a reduction in risk with antidepressants compared to placebo in adults aged 65 and older. Depression

- EFFEXOR XR is contraindicated in patients taking monoamine oxidase inhibitors (MAOIs). 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 EFFEXOR XR before starting an MAOI.
- Adult and pediatric patients with MDD can experience worsening of their depression and/or the emergence of suicidal ideation and

and certain other psychiatric disorders are themselves associated with increases in the risk of suicide. Patients of all ages who are started on antidepressant therapy should be monitored appropriately and 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: Clinical Worsening and Suicide Risk, Precautions: Information for Patients, and Precautions: Pediatric Use.)

behavior, whether or not they are taking antidepressants. All patients treated with antidepressants should be monitored appropriately and 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

Please see brief summary of Prescribing Information on adjacent pages.

Break the Cycle

of unresolved depression with EFFEXOR XR



Achieve remission

In an open-label study of patients who failed previous antidepressant treatment, nearly 60% achieved remission when changed to EFFEXOR XR1.2



Sustain remission

 In the PREVENT[™] study, **77%** of EFFEXOR XR patients were in remission at 2 years vs. 48% with placebo^{2t}

Go beyond remission: Reduce recurrence

In the PREVENT[™] study, there was an 82% reduction in the probability of recurrence with EFFEXOR XR in maintenance year 2 vs. placebo^{2†}

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.

- The most common adverse events reported in EFFEXOR XR short-term placebo-controlled MDD, 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.
- * Based on IMS National Prescription Audit and SDI longitudinal prescription data.
- + A randomized, multicenter, double-blind, placebo-controlled study (N=1,096 adults). This trial included an acute, a continuation, and 2 one-year maintenance phases. At the start of each of the 2 maintenance phases, EFFEXOR XR responders were re-randomized to either EFFEXOR XR or placebo. The primary end point was time to recurrence of depression. For study design, please visit PreventStudy.com.



The change they deserve.

Take a closer look at Dial

Dialogues

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

Dialogues

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 change they deserve.

References: 1. Baldomero EB, Ubago JG, Cerco's CL; et al. Vertialarine extended release. al antidepressants in the remission of depressive disorders after previous antidepressant talure: ARGOS study. Depress Anierty: 2005;22:68-76. 2. 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 and Antidepressant Drugs

Suicidality and Antidepressant Brugs Antidepressants increased the risk compared to placebo of suicidal thinking and behavior (suicidality) in children, addescenta, and young adults in short-term studies of Major Depressive Disorder (MDD) and other psychiatric disorders. Anyone considering the use of EFFEXOR XII or any other antidepressant in a child, addescent, aryoung adult must balance this risk with the clinical need. Short-term disulties did not show an increase in the risk of suicidality with antidepressants compared to placebo in adults aged 65 and other. Depression and certain other psychiatric disorders are themselves associated with increases in the risk of suicide. Patients of all ages who are started on antidepressant therapy should be monitored appropriately and 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 XII is not approved for use in pediatric patients. (See WAININGS: Clinical Worsening and Suicide Risk, PRECAUTIONS: Information for Patienta, and PRECAUTIONS: Pediatric Use.) DINTERMINERGENES: Information for Patienta, behaviors: he name restricts in the hermineties.

These, PRECONTIONES allocations and exploring size recovery responses resument over CONTRAINDICATIONS: Hypersensitivity to venitalizative hydrochizinde or to any escipients in the formulation. Concernitient use in patients taking monoamise oxidate inhibiton (MADIs), WARNINGS: Clinical Worsening and Solicide Risk—Tratents with major depressive disorder (MDI), both adult and podularic, may reperinent worsening of their depression and/or the emergence of suicidal ideation and behavior (salcidatily) or unusual changes in behavior, whether or not they are taking antidepresant medications, and this risk may pensist until significant remains occurs. Suicide is a known risk of depression and certain other psychiatric disorders, and there disorders thermaleves are the stroogenet predictors of suicidal three presents drugs (SSRs and others) showed that these analyses of short-term placebo-controlled this of antidepressant drugs (SSRs and others) and young adults drugs for suicidal three adult there; and behavior indications and there) showed that these drugs for suicidal three adults and behavior tradications and others) and and there advance there also and the emergence of suicidal three advances and there advance there also an advance three advances three advances and the antergence of suicidal three advances analyses of allort-term placebo-controlled thats of antidepressant drugs (SSRs and others) showed that these drugs increase the risk of suicidal thinking and behavior (suicidality) in childron, adolescents, and young adults (ages 15-24) with MID and other psychiatric disorders. Short-term studied and with increase in the risk of suicidality with antidepressants compared to placebo in adults beyond age 24, there was a reduction with antidepressants compared to placebo in adults aged 65 and other. The pooled analyses of placebo-controlled trials, in children and adolescents with MID, obserview-computative disorter (DCDI), or other psychiatric disorders included a total of 24 short-term thats of 9 antidepressant drugs in over 4,400 patients. The pooled analyses of placebo-controlled trials in adults which MID) or other psychiatric disorders in cluded a total of 295 short-term trials (median duration of 12 months) of 11 antidepressant drugs in over 7,000 patients. There were considerable variation in risk of muicidality among drugs, but a tendency toward an increase in the younger patients considered and across indications. There were differences (drug placebo-collected) difference in the number of cases of suicidality and across indications. There is differences (drug placebo difference in the number of cases of suicidality 1,000 patients trials. Then were mix differences (drug placebo difference) the number was not attricture in any 1,000 patients trials. There were mix differences (drug placebo difference) were neithively stable within age statul ad drugs directions. The suicides in Table 1 of the hall prescribing information. No suicides occurated is any 1,000 patients trialed) are provided in Table 1 of the hall prescribing information. No suicides no conclusion about drug direct on axiede. It is uncreased whether the suicidality is extended to longer-term as abstantial evidence from placebo-controlled mainterance trials in adults with depressants ton toward where the suicidalis in the author w aboliting effect on axidise. It is unknown whether the suicidisky tisk extends to longer-term use Alwaver, there is substantial evidence from placeto-controlled maintenance trials in adults with depression that the use of anticidepressions can dealy the incurrence of depression. All patients being treated with anticidepressions for any indication should be menitored appropriately and observed closely for clinical worsening, suicidiality, and unusual changes in behavior, especially during the initial few meeting for adult and the use of anticidepressions, effect and the initial few meeting of the state of the state of the state hosting, and there is an advect the state of t presenting symptoms. If the decision has been made to discontinue treatment, medication should be taplend, an rapidly as is headbib, but with recognition that abrupt discontinuation can be associated with certain symptoms (see PRECAUTIONS and DOSAGE AND ADMINISTRATION). Families and caregivers of patients being treated with antidepremants for MDO or other indications, both psychiatric and nonpsychiatric, should be alerted with antidepremants for MDO aro other indications, both psychiatric and nonpsychiatric, should be alerted with antidepremants for MDO aro other indications, both psychiatric and nonpsychiatric, should be alerted with antidepremants for MDO aro other indications, both psychiatric and nonpsychiatric, almost behavior, and the other symptoms described above, as well as the emergence of suicidaily, and to report such symptoms immediately to health care providers. Soch monitoring should include daily observation by families and caregivers. Prescriptoms for Effortor XR should be written for the amaliest quantity of capsulas consistent with good patent management, in order to reduce the rak of overdose. 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 precipitions of a main/manic conversion is unknown. Prior to initiating antidepressant breatment, patients with depressive sympoters should be accessed to determine if they are at risk to bipolar disorder, such screening should include a detailed psychiatric history, including a tamily history of saucuke, tepplar disorder, and depression simplaries, or who recently disponentism, nausas, working, fluxishing, disziness hypertheming with fastures resembling menzing disphoresism, nausas, working, fluxishing, disziness hypertheming with fastures resembling menzing they should be alseried and the fitter or Risshount one contribution and development of perintr cambit deservation of the patient is advised, particularly during treatment initiation and dose increases. In economised use of Ethewar XR with semantini precursons (such as hypothalm supplemental) is not incorrevented. Santaived Hyperformion—Verialization is associated with sustained increases in blood proseure (iP) in some patients. Pustmarketing cases of elevated IB requiring immediate treatment tave been reported. Prin-existing freperformion should be caritrided. Require monitoring of IB is neceromended. For patients experiencing autolisation increases in Bio reduction or discontinuation. Mydriases—Mydriases has been reported, monitor patients with raised introceing pressure or at risk of acute nerrow-angle glasuoms (angle-chain glasucoma). PRECAUTIONS: General—Decontinuation of **Deutement with Etheory RX**, hange discontinuation or done molucion of winification of instrumest. Symptome sociate automa, the trequency of which increased with increased dose level and longer duration of modes mode. Symptome sociate across across an evel control content on protein duration of mode moders. Symptome Symptome sociate across across an evel control content on protein duration of modes in associated with perspective. The trequency of which increased with increased dose level and longer duration of modes. Symptome sociate across across an evel content on content on treasent distance duration of moders. Symptome sociate across across an evel content on content on treasent distance duration of the protein Symptome. **Instance** with Effester XR, Abugt discontinuation or dose reduction of ventilatione at various dose is associated with new symptoms, the thespanny of which instrumentated with instrument dose law and longer duration of treatment. Symptoms include agitation, anoresia, arestely, confusion, coordination impaintd, diarrhea, duzinesis, dry mouth, displayhoic mood, emotional lability, thexiculation, tottgail, headaches, hypomania, mortraia, imfability, lettrange, manasa, nerveunesa, inpittmares, sociares, sensory distributions e.e., paresthesis such as electric shock sensational, isomolence, sweating, frontas, termor, vertigo, and verniting. Monitor patients when discontinuing treatment. A gradual modulon in the dose rafter than abrupt constation is recommended. I initiatenide symptoms court following a decrease in the dose or upon discontinuation of treatment, consider meaning the previously prescribed dose. Subsequently, continue decreasing the dose at a more gradual tab. **Insortneis and Nervoussense:** Treatment emografic insortneis and enviounness have been origonide. In Pase 3 Mais, insortneis and Nervoussense: Treatment emografic insortneis and enviounness that been been doed at a more gradual tab. **Insortneis and Nervoussense:** Treatment emografic and the first 25th Nervournees led to drug discontinuation to 19% of depresent patients, in 2% of GAD patients, and in 0% of SAD and Pasic **Changes in Weight Advit Patients** in short-term MDD train, 7% of Efficient XR patients had 25% is to at body weight and 0.1% discontinued for weight isom. In 6-month GAD studees, 3% of Efficient XR patients had 25% isom thody weight and 0.2% discontinued for weight isom. In 6-month GAD studees, 3% of Efficient XR patients had 25% isom at body weight and 0.2% discontinued for weight isom. In 6-month GAD studees, 3% of Efficient XR patients had 25% isom of body weight and no patients discontinues for weight loss. In 12-week SAD table, 3% of Efficient XR patients had 25% isom of body weight and no patients discontinues for weight lo

was most notable in patients <12. In 8-week MDD studies, Effexor XR patients grew an average of 0.8 cm (n=146), while was mask litelated in parents <12. In Greeker who studies, Litelow Tablenis give all average of 0.0 cm (in 1–14), Willer placebo patients grew an average of 0.7 cm (in=147). During the 16-week placebo-controlled SAD study, both the Effexor XR (in=109) and the placebo (in=112) patients grew an average of 1.0 cm. In the 6-month MDD study, children and adolescents had height increases less than expected based on data from age- and sax-matched peers. The difference between observed and expected growth rates was larger for children -12 years old than for adolescents had **Changes in Appetite:** Adult **Patients**: Treatment-emergent anorexia was more commonly reported for Effexor XR (8%) than placebo (4%) patients in MDD studies. The discontinuation rate for anorexia was 1.0% in MDD studies. Treatmentthan placebo (4%) patients in MDD 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 12 weeks in SAD studies. Treatment-emergent anorexia was more commonly reported for Effexor XR (8%) than placebo (3%) patients in PD studies. The discontinuation rate for anorexia was 0.4% for Effexor XR patients in 12-week PD studies. *Pediatric Patientis*. Decreased appetite was seen in pediatric patients receiving Effexor XR patients and MDD trials. 10% of Effexor XR patients receiving Effexor XR discontinued for anorexia or weight loss. In the placebo control of the GAD 0.2%. Can differ and 3% of placebo patients had treatment-emergent anorexia. None of the patients receiving Effexor XR discontinued for anorexia or weight loss. In the placebo emergent anorexia. None of the patients receiving Effexor XR discontinued for anorexia or weight loss. In the placebo, controlled trial for SAD, 22% and 3% of patients aged 8-17 treated for up to 16 weeks with 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 or placebo, respectively, the discontinuation rates for anorexia were 0.7% patients receiving either Effexor XR or placebo. Activation of Mania/Hypomania. Mania or hypomania has occurred during short-term depression and PD studies. As with all drugs effective in the treatment of MDD, Effexor XR should be used cautiously in patients with a history of mania. Hyponatermia: Hyponatermia and/or the syndrome of inappropriate antidiuretic hormone secretion (SIADH) may occur with veniafaxine. Consider this in patients who are volume-depleted, elderly, or taking diuretics. Setzumes: In all premarketing depression trials with Effexor, server server teoported in 0.3% of veniafaxine patients, who has patients with a history of main elder the many patient who develops seizeres. Anoremed Berefiner, Ahorema Holestine, tormonels beck because neoredus. Server: Mohasterne Heavetine Anormal Bedding, Ahormal Bedding, Ahormal bedding and the start of escution backmann and patient motion start of the start Interstant and your section of the comparison of Interactions of the second sec inform patients, their families, and their caregivers about the benefits and risks associated with treatment with Effexor XA and should counsel them in its appropriate use. A patient Medication Guide called "Antidepressant Medicines, Depression and Other Serious Mental Illnesses, and Suicidal Thoughts or Actions" is available for Effexor XR. The prescriber on 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 www.effexorx.com 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 represent functions are during article represent and when the does le 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 look 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 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, until they are reasonably sure that veniataxine 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 Elfevor XB and brindans transdut furndontan sumplements or refers expriments should be advised to notify their obviscion. triptans, tramadol, tryptophan supplements, or other serotonergic agents, Patients should be advised to notify their physician In the second se presence Endotratory research operation laboratory costs are recommended. Endy more actions are recommended and an end an end and an end on the PK of diazepam or its active metabolite, desmethydiazepam, or affect the psychomotor and psychometric effects induced by diazepam. *Haloperidol*: Venlafaxine desmethydiazepam, or affect the psychomotor hal-fife was unchanged. *Lithium:* A single dose of lithium did not appear to affect the PK of either venlafaxine or ODV. Venlafaxine han oeffect on the PK of lithium. *Drugs Highly Bount on Pasame Proteins:* Venlafaxine is not highly bound to plasma proteins; coadministration of Effector XR with a highly protein-bound drug should not cause increase plasma or constrations of ther KN di lithium. *Drugs Highly Bount on Pasame Proteins:* Venlafaxine is not highly bound to plasma proteins; coadministration of Effector XR with a highly protein-bound drug should not cause increased free concentrations of ther drug. *Drugs That Inhibit Cytochrome P450 Isoenzymes*: CVP2D6 Inhibitors: Venlafaxine is metabolized to its active metabolite, ODN, by CVP2D6. Drugs inhibiting this isoenzyme have the potential to increase plasma concentrations of venlafaxine and decrease concentrations of ODV. No dosage adjustment is required when venlafaxine is on commation and any agent(s) that produces simultaneous inhibition of these two enzymes. *Strags Metabolized by Strags Venlafaxine* in a drug dematy that potentially inhibits both CYP2D6 and CYP3A4, the primary metabolizing enzymes for venlafaxine is a netabolized or enzyme systems. *Drugs Metabolized by Cytochrome P450 Isoenzymes*: Venlafaxine is a relatively weak inhibitor of CYP206. Venlafaxine and don't hibit CYP1A2 and CYP3A4, CYP2O5 (in vitro), or CYP2C19. *Imipramine*: Venlafaxine did not affect the PK of imipramine and 2-0+ Imipramine. However, designamine AUC, <u>Cmax and Cmin in creased by</u> ~35% (in the presence of venlafaxine mad 2-0+ Imipramine. However, designamine AUC, <u>Cmax and Cmin in creased by</u> ~35% (in the presence of venlafaxine mad 2-0+ Intigramine. However, designamine AUC, <u>Cmax and Cmin in creased by</u> ~35% (in the presence of venlafaxine mad 2on the PK of diazepam or its active metabolite, desmethyldiazepam, or affect the psychomotor and psychometric effects time order to the other of the other other of the other othe resuming in a ~3.2 mixed in the second rate of the second rate of the second rate of the second rate of the provide of the total active moley (risperidone plus 9-hydroxysperidone), CYP3A4: Venlatavane diginitari ingraine in the provide of the Indinavir. In a study of 9 healthy volunteers, venlatavine administration resulted in a 28% decrease in the AUC of a single does of indirevir and a 36% decrease in indinavir C_{PDR}, Indinavir did not affect the PK of venlatavine and OUC **CYP1A2**: venlatavine did not inhibit CYP1A2 in vitro and in vivo. **CYP2C9**: Venlatavine did not inhibit CYP2C9 in vitro. In vivo, venlatavine 75 mixed and the complexity of t by mouth every 12 hours did not alter the PK of a single 550-mg dose of tolbutamide or the CYP2C9-mediated formation of 4-hydroxy-tolbutamide. CYP2C19: Venlafaxine did not inhibit the metabolism of diazepam, which is partially metabolized of 4-hydroxy-follutarnice. CVP2C19: Ventataxine did ndi inhibit the metabolism of diazepam, which is partially metabolized by CVP2C19 (see Diazepam above). MAOIs: See CONTRAINDICATIONS and WARNINGS. CNS-Active Drugs: Use caution with concomtant use of ventalaxine and other CNS-active drugs. Serotonergic Drugs and Triptans (see WARNINGS: Serotonin Syndrome). Based on the mechanism of action of Effeor XR and the potential for serotonin syndrome, caution is advised when Effext XR is coadministered with other drugs that may affect the serotonergic neurotransmitter systems, such as triptans, SSRIs, other SNRs, linezolid, lithium, tramadol, or SL John's wort. If concomitant treatment initiation and dose increases. The concomitant use of Effexor XR with hydrophan supplements is not recommended. *Detercoomulsitive Therapy (ECT)*: There are no clinical data establishing the benefit of EFC combined with Effexor XR treatment and DV were not mutagenic in the Ames reverse mutation assay in Salmonella bacteria on the CHOHGPRT mammalian cell forward gene mutation assay. Ventafaxine was not clastogenic in serveral assays. DV elicited a clastogenic response in the in vivo chromosomal abareration assay. Ima thom serveral metas assay in Salmonella of Fertility - Celled a clastogenic response in the in vivo chromosomal abareration assay. Imatementations was not clastogenic in serveral seasy. So DV elicited a clastogenic response cell forward gene mutation assay. Venlafaxine was not clastogenic in several assays. DVV elicited a clastogenic response in the in vivo chromosomal aberration assay in rat bore marrow. *Impairment of Fertility*: No effects on reproduction or fertility in ratis were noted at oral doses of up to 2 times the MRHD on an gmth basis. *Fregnancy—Teratogenic Effects— Pregnancy Category C*. Reproduction studies in rats given 2.5 times, and rabbits given 4 times the MRHD, there was a decrease in pup weight, an increase in stillborn pups, and an increase in pup deaths during the first 5 days of lactation when dosing began during pregnancy and continued until weaning. There are no adequate and well-controlled studies in pregnant women, use Effcorx R4 during pregnancy only if clearly needed. *Monteratogenic Effects*. Neonates exposed to Effector XR late in the third timester have developed complications requiring prolonged hospitalization, respiratory support, and tube feeding. Complications can arise immediately upon delivery. Reports include respiratory distress, quence, iteratione, itrability, 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 a schements of there the timester. Rabor, XR during the third timester, carefully consider the potential risks and benefits of treatment and consider tapping Effector XR during the third timester, carefully consider the potential risks and benefits of treatment and consider tapping Effector XR during the there ported to helivery. Murrism_m—The effect on labor and delivery in humans is unknown. Venafaxine and ODV have been reported to helivery furging—The effect on labor and delivery in humans is unknown. Nenfataxine and ODV have been reported to helivery. Intersing—The effect on labor and delivery in humans is unknown. Nenfataxine and ODV have been reported to helivery. Intersing—The effect on labor and delivery in humans is unknown. carefully consider the potential risks and openents of treatment and consider tapening Ertexor Ar in the third timester. Labor, Delivery, Mustingm—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 infants 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 impact of Effexor XR on growth, development, and maturation of children and adolescents. Studies suggest Effexor XR may

adversely affect weight and height (see PRECAUTIONS-General, Changes in Height and Changes in Weight). Should the adversely attect weight and height (see PHECAUIIONS-General, Charges in Height and Charges in Weight). Should the decision be made to treat a pediatric patient with Effexor XR, regular monitoring of weight and height is recommended during treatment, particularly if long term. The safety of Effexor XR for pediatric patients has not been assessed for chronic treatment >6 months. In studies in patients agade 6 - 17, blood pressure and cholesterol increases considered to be clinically relevant were similar to that observed in adult patients. The precautions for adults apply to pediatric patients. Genaties **Use**—No overall differences in effectiveness or safety were observed between genatic and younger patients. Greater sensitivity of some older individuals cannot be ruled out. Hyponatemia and SIADH have been reported, usually in the elderity. **ADVERSE REACTIONS**. Associated with Discontinuation of Treatment—The most common events leading to discontinuation in MDD, GAD, SAD, and PD trials included nausea, anorexia, anviety, impotence, dry mouth, dizziness, insomnia, somolence, hypertension, diarrhea, paresthesia, tremor, ahormal (mostly blurred) vision, ahormal (mostly delaved) elacutation, astheria, oversite of the some served between generation and some of the rule of the some and the some reported. Idelande jaculation, asthenia, comiting, nervouses, headache, vasodilation, thinking abroormal, decreased libido, and sweating. Commonly Observed Adverse Events in Controlled Clinical Trials for MDO, GAD, SAD, and PD—Body as a Wholle: asthenia, headache, flu syndrome, accidental injury, advormal pain. Cardiovascular avaolitation, hypertension, palpitation. <u>Digestive</u>: nausea, constipation, anorexia, vomiting, flatulence, diarrhea, eructation. <u>Metabolic/Nutritional</u>: palpitation. <u>Digestive</u>: nausea, constipation, anorexia, womiting, flatulence, diarhea, eructation. <u>Metabolic/Nutritional</u>; weight loss. <u>Merous. System</u>: dizziness, somolence, insomici, dy mouth, nervousness, abnormal dreams, tremor, depression, hypertonia, paresthesia, libido decreased, agitation, anxiety, twitching. <u>Respiratory System</u>: pharyngits, yawn, sinustits. <u>Skin</u>: sweating. <u>Special Senses</u>: abnormal vision. <u>Urogenital System</u>: abnormal ejaculation, impotence, orgasmic dysfunction (including anorgasmia) in females. *Vital Sign Changes*: Effector XR was associated with a mean increase in pulse rate of about 2 beats/min in depression and GAD trails and a mean increase in pulse rate of 4 beats/min in SAD ritais. (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. <u>Other Events Observed During the Premarketing Evaluation of Effexor and Effexor R</u>, N=–6,670. Prequent^T=events occurring in a telast 1/100 dpatients; "infrequent" increase in juffequent trace adem, intentional juiny malaise molliasis next inditis, being on photensensitivity reaction, suicide atternut withdrawal sundrame. Rare padenta <u>blav is animate</u> rregiona entec pari sostenia, cina cier, noc pari, imequante de constructiones, mentenia, international, international, international, international, international, international, international, international, carcinoma, celluluitis. <u>Cardiovascular system</u> - Frequent: migraine, postural hypotension, tachycardia; infrequent: angina pectoris, arthytimia, extrasystoles, hypotension, peripheral vascular disorder (mainly cold feet and/or cold hands), syncope, thrombophilebitis; Rare: aortic aneurysm, arterits, first-degree atrioventricular block, Teet and/or coid nanos), syncope, mromoopnieouis; nare: aonic aneurysm, artentis, inst-oegree antivemicular biocky, bigeminy, bundle branch block, capillary fragility, cerebral ischemia, coronary artentis, inst-oegreestive heart failure, heart arrest, hematoma, cardiovascular disorder (mitral valve and circulatory disturbance), mucocutaneous hemorrhage, myocardial infarct, pallor, sinus armythmia. <u>Digestive system</u> - Frequent increased appeties, infrequent bruxism, coltis, dysphagia, brouge edema, esophagitis, gastrometris, gastroinettis, gastroinettis, gastroinettis, net hemorrhage, hemorrhoids, melena, oral moniliasis, stomattits, mouth ulceration; Rare: abdominal distension, biliary pain, nemormage, nemormous, meiena, oral moniliasis, stomattis, moutin uiceration; kare: abcominal oisetmosi, bilary pain, chelitis, cholecystitis, cholelitaisis, esophageal spasms, ducidentis, hematemesis, gastrospohageal reflux disease, gastrointestinal hemorrhage, gum hemorrhage, hepatitis, lieitis, jaundice, intestinal obstruction, liver fendemess, paratitis, periodontitis, proctitis, rectal disorder, salivary gland enlargement, increased salivation, soft stools, tongue discoloration. Endecrine system - Rare: galactorrhoea, gotter, hyperthyroidism, hypothyroidism, thyroit nodule, thyroiditis. <u>Hemic and</u> <u>ymphatic. system</u> - Frequent: ecchymosis; Infrequent: anemia, leukocytosis, leukopenia, <u>ymphatenopathy</u>, purgura, thrombocythemia. <u>Rare: hasophila, biending and nutritional</u> - Frequent: edema, weight gain; Infrequent: alkantorhoeatien phosphatase proreased, deliveration, humearthemis, humearthemis, humearthemis, humearthemis, humearthemis, horekalemia. SCPU, increased purpura, anonoocyopenia. Metadoute and nurmonal - requert evenia, weigin gain, intrequert caramite prospitatese increased, delydration, typercholesteremia, hyperglycemia, hyperilpernia, hyperglycemia, hypokalenia, SGOT increased, SGPT increased, thirst; Rare: alcohol intolerance, bilirubinemia, BUN increased, creatinine increased, diabetes mellitus, glycosuria, gout, healing abnormal, hemochromatosis, hypercalcinuria, hyperkalemia, hypophosphatemia, hypoproteinemia, hypophosphatemia, hypoproteinemia, hypophosphatemia, hypoproteinemia, termia. System - Frequent: arthralgia; Infrequent: arthritis, arthrosis, bone spurs, bursitis, leg cramps, myasthenia, tenosynovitis; Rare: bone pain, pathological fracture, muscle cramp, muscle spasms, musculoskeletal stiffness, myopathy, osteoporosis, osteosclerosis, plantar fasciitis, rheumatoid arthritis, tendon rupture. <u>Nervous system</u> - Frequent: annesia, contusion, depersonalization, hypesthesia, thinking abnormal, trismus, vertigo, Infrequent: akathisia, apathy, ataxia, circumoral paresthesia, CNS stimulation, emotional lability, euphoria, hallucinations, hostility, hyperesthesia, hyperkinesia, hypotonia, paresuresia, orse suminationi, emotioni adumit, euplinia, tamonatoria tonis, insamity, ingene suresia, ingenerinas, ingene hypokinesia, hysteria; impulse control difficulties, libido increased, motion sickness, neuritis, nystagmus, paranoid reaction, presis, psychotic depression, reflexes decreased, reflexes increased, torticulis, **Bespiratory system** - Frequent cough increased, dyspnea; Infrequent: asthma, chest congestion, epistaxis, hyperventilation, laryngismus, laryngits, pneumonia, voice alteration; Rare: atelectasis, hemophysis, hypoventilation, hypoxia, larynx edema, pleurisy, pulmonary embolus, sleep apnea. **Skin, and appendages** - Frequent: purtus; Infrequent: acne, alopecia, contact dermatitis, dry skin, eczema, maculopapular rash, psoriasis, urticaria; Rare: brittle nails, erythema nodosum, ediolative dermatitis, lar skin, tariot dermatitis, hard iscoloration, skin discoloration, furunculosis, hirsutism, leukoderma, miliara, petechal rash, protritor cash, pustular rash, vesiculobullous rash, seborrhea, skin atrophy, skin hypertrophy, skin striae, sweating decreased. **Special senses** - Frequent: horogenuis, bittis media, parosmia, photophobia, taste peversion; Infrequent: comjunctivitis, diplopia, dry eyes, eye pain, hyperacusis, otitis media, parosmia, photophobia, taste loss, visual field defect; Rare: blepharitis, cataract, chromatopsia. impaired; Infrequent albuminuria, amenormea, systitis, dysuria, hematuria, kidney calculus, kidney pain, leukormea, menormajai, metormajai, ancouria, breast pain, polyuria, puryia, urinary inconhience, urinary retention, urinary urosing vaginal hemormage, vaginitis, Rare: abortion, anuria, balanitis, bladder pain, breast discharge, breast engorgement, breast enlargement, endometriosis, female lactation, fibrooystic breast, calcium orystalluria, cervicitis, orchitis, ovarian oyst, prolonged erection, gynecomastia (male), hypomenorthea, kidney function abnormal, mastitis, menopause, pyelonephritis, oliguria, salpingitis, uroithiasis, uterine hemorrhage, uterine spasm, vaginal dryness. **Postmarketing Reportis**, elaritanica, sanaphyakas, palastica nemia, catatonia, congenital anomalies, CPK increased, deep vien thromobyhiebits, delirium, EKG abnormalities such as OT prolongation; cardiac arrhythmias including atrial fibrillation apyarventricular tachycardia, territuciar extrasystoles, and rare reports of ventricular fibriliation and ventricular tachycardia, including torsades de pointes; epidermal necrosis/Stevens-Johnson syndrome, crythema multiforme, extrayramidal symptoms (including ventionies) and enclusion), and bleoring. dy paints, opticumer inductor devices contract of particular dy particular and the control of th neutropenia, night sweats, pancreatilis, pancytopenia, panic, prolactin increased, renal failure, rhabdomyolysis, serdonin syndrome, shock-like electrical sensations or tinnitus (in some cases, subsequent to the discontinuation of venlafaxine or tapering of doss), and SIADH (usually in the electric). Elevated cotapine levels that were temporally associated with adverse events, including seizures, have been reported following the addition of venlafaxine. Increases in prothrombin time, partial events, including seizures, have beén reported following the addition of venlataxine. Increases in prothrombin time, partial thromboplastin time, or INR have been reported when venlataxine was given to patients 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. OVENDOSAGE: The most commonly reported events in overdosage include tachycardia, changes in level of consciousness (ranging from sonnolence to coma), mydriasis, seizures, and vomiting. Electrocardiogram changes (eg. prolongation of QT interval, bundle branch block, QRS prolongation), ventricular tachycardia, bradycardia, hypotension, rhabdomyolysis, vertigo, liver necrosis, serotonin syndrome, and death have been reported. Published retrospective studies report that venlataxine overdosage may be associated with an increased risk of fatal outcomes compared to that observed with SSRI antidepressant, Eljdeminological SSRI-breated patients. The extent to which the finding ora increased risk of fatal outcomes can be attributed to the toxicity of venlataxine in overdosage as opposed to some characteristics(s) of venlataxine-treated patients is not clear. Treatment should consist of those general measures employed in the management of overdosage with any antidepressant. Ensure an adequate airway, oxygenation and venliation. Monitor cardiac hythm and vital signs. General supportive and symptomatic measures, supportant of workauter from the second of the recommended. Gastric lavage with a large bore orogastic 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 The age volume of vehicles of the second and the second and the second and exchange translation and exchange the second and exchange the second and exchange the second and exchange the second and the s

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PSYCHIATRIST CARILION CLINIC – RADFORD, VA Carilion New River Valley Medical Center

The Carilion Clinic is seeking a board-eligible or certified Psychiatrist for our Carilion New River Valley Medical Center Campus which includes Saint Albans Behavioral Health, a new, 36-bed wing of the Medical Center. The inpatient psychiatry unit includes an ECT suite, intensive treatment area, geriatric observation, and adjacent outpatient offices for continuity of care. Saint Albans is a training site for medical students at Via College of Osteopathic Medicine on the campus of Virginia Tech in nearby Blacksburg. Call coverage is shared with 7 other psychiatrists. The position includes a competitive base salary that is augmented with a substantial bonus for quality. There is additional compensation for meeting productivity targets and a comprehensive benefits package including relocation. Please submit CV and cover letter outlining work history to: Rhonda B. Creger, Senior Physician Recruiter 800-856-5206 or rhondac@carilion.com

WORKING TOGETHER. MAKING A DIFFERENCE.

Iowa Health Physicians, the state's largest physician group, is searching for a **BE/BC Adult Psychiatrist** to join a highly respected group in Des Moines, IA.

Practice Highlights

- Located on the campus of Iowa Lutheran Hospital, the largest private hospital-based mental health facility in the state.
- · Inpatient and outpatient responsibilities.
- A growing community, in need of an additional Psychiatrist.
- · Teaching opportunities available.
- Call schedule 1:4.
- **Organization Description**
- Iowa Health Physicians is a non-profit 250-member physician group.
- We pride ourselves on providing the highest quality patient care with innovative ways of approaching the health care delivery system.
- · Highly competitive salary and compensation plan.

For more information please contact: Jessica Meisner at (888) 343-4912. To expedite consideration, please email your CV to meisnejj@ihs.org or fax to (319) 739-2750.



The Department of Psychiatry at The University at Buffalo is seeking an academic psychiatrist at the Assistant, Associate or Professor level with the interest and potential to develop a sustained, independent research program. This is a tenure track position with 50% fully protected time for the successful applicant to develop their research program. Resources for this recruitment include financial support for 1 to 2 additional faculty to work closely with the successful candidate and for part-time secretarial support. We are particularly interested in clinical scientists with established research programs in cognitive/ behavioral neuroscience, clinical trials research, clinical psychopharmacology, psychoneuroimmunology, clinical/genetic epidemiology, or PTSD/mood disorders. Salary and benefits are excellent and commensurate with qualifications.

QUALIFICATIONS:

Successful candidates must have strong research oredentials, including current or recent NIH funding as a principal investigator, and a willingness to mentor residents and faculty in research. Investigators whose research programs are closely associated with their clinical work are of particular interest.

The Department of Psychiatry and the School of Medicine have outstanding resources. The Department has an excellent reputation in the medical school and has a prominent teaching program for medical students. The residency programs in general psychiatry and child/adolescent psychiatry are thriving and there is a new geriatrics fellowship. The University and Chair are committed to expanding the research capacities of the Department. The School of Medicine and Biomedical Sciences has organized a consortium of affiliated hospitals offering a wide range of clinical settings and Department of Psychiatry faculty treat patients in many of these settings. This represents a rich and diverse source of potential participants for research programs. In addition, the department maintains relationships with a number of other research and health centers that provide opportunities for collaborative research, including the Buffalo Center of Excellence in Bioinformatics, the Roswell Park Cancer Institute, the UB-VA Center for Positron Emission Tomography, the Research Institute on Addictions, and The VA Western New York Healthcare System with a primary site in Buffalo.

Women and minorities are encouraged to apply. The University at Buffalo is an Equal Opportunity/Affirmative Action employer. Send cover letter describing clinical and research interests, resume, sample publications, and three letters of recommendation to:

Margaret Ubler-Otoka Assistant to the Chair Department of Psychiatry School of Medicine and Biomedical Sciences University at Buffalo ECMC Room 1166 462 Grider Street Buffalo, NY 14215



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The Lebanon VA Medical Center is recruiting for Psychiatrists (3 FT & 1 PT) to provide outpatient, inpatient and substance abuse psychiatric services. Positions available at Lebanon and York facilities. Sign-on bonus authorized. Must be U.S. citizen or permanent resident and possess full, current and unrestricted state license to practice medicine.

> Please respond with CV to: VA Medical Center James Sumlin (121) 1700 S. Lincoln Avenue Lebanon, PA 17042 Phone: (717) 228-5971 email: james.sumlin@va.gov EOE

MEDICAL DIRECTOR Child & Adolescent Services

South Oaks Hospital, Long Island, NY is a comprehensive mental health facility conveniently located on the Nassau/Suffolk County Border. We seek to create a work environment that fosters professional growth and development through communication and learning.

Our Behavioral Services for Children, Adolescents and Adults offers treatment programs in both inpatient and outpatient settings. The Medical Director will provide treatment, consultation and will work closely with service directors. Some work with adults and patients with chemical dependency is required. Qualified candidate must be a Board Certified Child/Adolescent Psychiatrist.

We offer an excellent compensation package of \$200,000+ and noncontributory medical benefits and matching 401K with enhancements. All professional expenses including professional liability insurance are provided by the hospital.

Forward CV to: Medical Director South Oaks Hospital 400 Sunrise Highway Amityville, NY 11701 Email: yupadhyay@south-oaks.org

CLINICAL DIRECTOR (PSYCHIATRIC) Physician Program Manager III

Maryland Department of Health and Mental Hygiene, Clifton T. Perkins Hospital Center, Jessup, MD, is seeking a professional medical and psychiatric worker as a senior management and supervisory level. This position is responsible for the overall quality of clinical services at the hospital center. This hospital is Maryland's only maximum security psychiatric hospital and community forensic program, and is JCAHO accredited. This position coordinates this hospital's services with those of Community Forensic Services, and provides liaison with other state hospitals. The incumbent will: develop and implement programs, policies procedures to provide assessment and treatment of patient needs within the areas of pretrial evaluation and inpatient care to include medical clinical operations; provide direct supervision to all physician staff (psychiatrists, generalists, and consultants), and to the department directors of pharmacy, nursing, psychology, social work, creative and prevocational therapies, and specialized services; Chair Formal Medical Staff meetings, ensure coverage of pretrial and inpatient care units, lead Clinical Review Panels, provide COMAR and JCAHO Clinical Director required oversight functions (e.g. seclusion and restraint); provide oversight for all Medical Staff Monitoring Functions and Therapeutics, Medical Records, Ethics, Credentialing and Privileging, Infection Control) and monitor Medical Staff CQI requirements; and serve on CTPHC Facility Internal Governing Body, Quality Council, Clinical/Forensic Review Board, Root Cause Analysis Team; and provide Inpatient Treatment Team and Office of Pretrial Evaluation Services oversight, supervision and consultation.

Requirements: MD degree, Board Certification in Psychiatry, and two years of medical practice as a Psychiatrist, preferably at a supervisory or administrative level. Five years of medical practice in psychiatry may be substituted for the Board Certification.

Desirable Qualifications: Board Certification in Psychiatry, and specialty training and/or experience in forensic psychiatry. Current license to practice medicine in Maryland required prior to appointment.

Salary: \$130,671 - \$171,331 yr. (negot.); growth to \$215,815 yr. Excellent State benefits/ leave package. Submit resume or application form MS-100 for fullest consideration (MS-100 can be downloaded from website www.dhmh.state.md.us/testingserv).

OPEN UNTIL FILLED.

Mail application to:

Mr. Mark Townend, Chief of Recruitment Department of Health and Mental Hygiene 201 West Preston Street, Room 114-B Baltimore, MD 21201

AN EQUAL OPPORTUNITY EMPLOYER

VA Northern California Clinical Psychologist (LRC)

The VA Northern California Health Care System, affiliated with the UC Davis School of Medicine, is seeking a Clinical Psychologist to function as the Local Recovery Coordinator to join the Sacramento VA Medical Center at Mather. Ideally, candidates should be suitable for joint appointment to the U.C. Davis faculty, with rank and series dependent on credentials and experience. This licensed psychologist functions as a champion and advocate for the recovery model and also serves as a recovery ombudsman to the Associate Chief of Staff for Mental Health, program managers, and staff on recovery and implementation of recovery oriented services across 9 locations in Northern California.

The VA offers a highly competitive salary and a comprehensive benefits package. Applicants selected for this position will be eligible to apply for an award up to the maximum limitation under the provisions of the Education Debt Reduction Program. Candidates must have graduated from an APAaccredited graduate program and APA-accredited internship program and must be a U.S. Citizen or PRA.

The VA is an Equal Opportunity Employer.

Please send inquiry and CV to:

Sacramento VAMC (NCHS) Human Resources (05/SMAT) Attn: Tamiko Greely, Clinical Psychologist (LRC) Search 10535 Hospital Way Mather, CA 95655 Fax (916) 364-0239

PSYCHIATRISTS

The Department of Veterans Affairs, Central Texas Veterans Health Care System (CTVHCS), is accepting applications for several positions for board-certified Psychiatrists at Temple and Waco, Texas. CTVHCS is affiliated with the Texas A&M University Health Science Center. Applicants with interest in teaching and research will be given preference. CTVHCS offers competitive salaries and excellent benefits.

Applicants are required to have expertise in treatment of at least one of the following patient populations: the seriously mentally ill, PTSD or provision of mental health in primary care clinics.

In addition to its close proximity to the metropolitan Austin area famous for its live entertainment, Central Texas offers affordable housing, excellent schools, one of the lowest costs of living in the country and year-round recreational opportunities highlighted by the lakes and rivers of the Texas Hill Country. Texas has no state income tax.

Candidates must be US citizens or permanent residents, as well as possess a valid and unrestricted medical license in at least one state. Reasonable accommodation provided to any applicant with disabilities. Applicants are subject to drug testing.

EOE

Please Fax or send CV to: Mary P. Doerfler, Physician Recruiter Central Texas Veterans Health Care System 1901 Veterans Memorial Drive, Temple, TX 76504 FAX (254) 743-1412, Voice (254) 743-0049 Mary.Doerfler@va.gov

Partner with a Magnet Hospital in Wausau, Wisconsin



BC/BE Adult Psychiatrist needed for 50/50 Inpatient and Outpatient. Call shared with 6 local psychiatrists including a Medical Director of 11 bed inpatient unit at Aspirus Wausau Hospital. Work with a great team of young vibrant psychiatrists. There is a great potential for program growth and development with a focus on expanded community action. Excellent compensation package with outstanding benefits.

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Please contact Jamie Sitko today at 800-792-8728 of fax cv to 715-847-2317. Email: jamiesi@aspirus.org or visit www.aspirus.org.

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Monmouth Medical Center has the following opportunity available:

CHAIR, DEPARTMENT OF PSYCHIATRY

Monmouth Medical Center, located in Long Branch, NJ, an affiliate of the St. Barnabas Health Care System, is seeking a Chair of Psychiatry to lead the clinical and educational activities of the Department, and to establish research opportunities through the Saint Barnabas Health Care System Research Institute. This is an outstanding opportunity for a visionary leader to foster inpatient and outpatient psychiatric services at Monmouth, and develop innovative programs throughout the Saint Barnabas Health Care System. The Chair is also responsible for all teaching activities within the Department, including medical student education through our long-standing affiliation with Drexel University College of Medicine.

MD degree or equivalent and Board certification in psychiatry is necessary, with academic credentials for a faculty appointment at Drexel University College of Medicine. Must show a record of achievement in patient care, administration and education, and have an interest in fostering research.

We offer the finest career advantages and life-friendly opportunities – please forward a letter of interest and current curriculum vitae to: Allan R. Tunkel, MD, PhD, Chair of the Psychiatry Search Committee at: atunkel@sbhcs.com.

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PSYCHIATRISTS

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Psychiatrist positions require: BE/BC Psychiatrists, current, full, unrestricted licensure (any state), U.S. citizen. Great Benefits, Excellent Pay, Rewarding Work. See announcements on www.vacareers.va.gov. Recruitment/ Relocation incentives may be authorized, ask contact individual for details.

BILOXI//PENSACOLA/MOBILE Outpatient and Inpatient Psychiatry positions. Expertise in telepsychiatry, 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 (05A), 400 Veterans Avenue, Biloxi, MS or contact at jean.williams@med.va.gov or (228) 523-5633.

ALEXANDRIA Strong clinical skills. Prefer experience in Geropsychiatry, Substance Abuse and/or PTSD. CV/Application to tammie.arnold@med.va.gov or Tammie Arnold, Psychiatry Service (116), P.O. Box 69004, Alexandria, LA 71306-9004. (318) 473-0010 ext 2696.

SHREVEPORT Prefer experience in Substance Abuse, PTSD. Contact Tracie Bennett at (318) 221-8411, ext 7109 or tracie.bennett@va.gov. Email or mail your CV to VAMC, HRMS (05) TB, 510 E. Stoner Ave, Shreveport, LA. (318) 221-8411, ext 7109.

FAYETTEVILLE, MT. VERNON Contact Laura Berg, HRMS, at laura.berg2@va.gov or (479) 443-4301, ext 5191.

ADULT PSYCHIATRY OPPORTUNITY GEISINGER HEALTH SYSTEM

Geisinger Health System's Division of Psychiatry in Danville, PA, is seeking an adult psychiatrist. This position offers an excellent quality of life and an opportunity to work part-time or full-time depending on the needs of the candidate.

This position offers:

- A flexible schedule start/end times are negotiable, and the specific psychiatric interests and talents of applicants usually can be integrated into the needs of the practice. Opportunities include inpatient – outpatient – emergency – and consultationliaison psychiatry.
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- The support of multiple PAs, a nurse specialist and masterslevel therapists.
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- Research opportunities through the Weis Center for Research and Geisinger Center for Health Research (both located on the campus of Geisinger Medical Center). Current research projects include studies on genomic schizophrenia, adolescent depression and improving the delivery of adult depression through primary care.
- An accredited Clinical Psychology Internship and the opportunity to teach pediatric and emergency medicine residents, as well as third year medical students from Temple University and Pennsylvania College of Osteopathic Medicine, with clinical appointments available.
- An established referral base through Geisinger Health System's 40 community medical groups, 3 hospitals, local/community physicians and the broad-base of third party contracts.

In the past two years Geisinger's Department of Psychiatry has added a 10-bed Adolescent Inpatient Unit at Geisinger South Wilkes-Barre, the neuro-psychiatry practice has doubled and added 2 post-doctoral fellows and Pediatric Psychiatry has experienced significant growth. At Geisinger, you'll experience the support, camaraderie and professional challenges of a leading practice while discovering the charms of Pennsylvania living... all while having the time and flexibility to enjoy your new quality of life.

To discuss this opportunity, contact:

Kathy Kardisco, Recruiter, Geisinger Dept. of Pro. Staffing, 100 North Academy Avenue, Danville, PA 17822-2428 Phone: I-800-845-7112 • Fax: I-800-622-2515 e-mail: kkardisco@geisinger.edu

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Additional info about the agency and this employment opportunity can be found at: www.smokymountaincenter: com/employment.asp

Interested applicants should submit a state application to:

Smoky Mountain Center Attn: Monica Jenkins PO Box 127 Sylva, NC 28779 Email: jenkimon@smokymountaincenter.com Phone: (828) 586-5501 ext 1100 Fax: (828) 586-3965

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C-L/Psychosomatic Medicine Psychiatrist

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For consideration, please forward current curriculum vitae to:

Lois E. Krahn, M.D. Mayo Clinic 13400 E. Shea Boulevard Scottsdale, AZ 85259 Email: Krahn.Lois@mayo.edu (480) 301-8297

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Candidates must be board certified in general psychiatry and eligible for a District of Columbia medical license. Qualified candidates should send a letter of interest and curriculum vitae to:

Karen M. Johnson, MD Associate Chair & Director, Psychosomatic Services Department of Psychiatry Washington Hospital Center 110 Irving St., NW EB-3105 Washington D.C. 20010 Fax # (202) 877-7552 Email – Inga.L.Ricks@medstar.net



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DIRECTOR - CENTER FOR ALZHEIMER DISEASE AND RELATED DISORDERS (CADRD)

Southern Illinois University School Of Medicine (SIUSM) is seeking an accomplished clinician scientist to become Director of our Center for Alzheimer Disease and Related Disorders (CADRD), consistent with the mission of SIUSM to become a leading research institution. This tenured/tenure track position will also hold an endowed professorship in Alzheimer disease research.

The CADRD is funded by a large annual grant from the State of Illinois and has a history of continued funding for more than 17 years. The Center has an outreach network of 26 hospitals or clinics throughout Illinois, a brain bank, a neuropsychology program, and specialty clinics for the treatment of Alzheimer disease and other degenerative dementias. Currently, five faculty members are actively engaged in Alzheimer research, with one additional open position. In addition, opportunities are available for collaborations with the Geriatric Center of Excellence, the Department of Psychiatry, and basic science departments such as Pharmacology.

The Director of the SIU CADRD reports to the Dean of SIUSM (institutional and administrative matters) and to the Chair of an appropriate Department (departmental and academic matters). The Director will lead the CADRD, holding responsibility for budget decisions, research direction, staffing, and interactions with other departments, institutes, and agencies. Responsibilities also include working with the Illinois legislature and Departments of Public Health, Aging, Education and Public Aid to develop strategies, external support, and collaborative efforts that will advance the aims of the CADRD in the areas of outreach, teaching, research, and clinical service.

Applicants must be board-certified in a specialty relevant to the activities of SIU CADRD and maintain an active externally-funded research program focused on dementia. Illinois licensure is required prior to employment. Deadline to apply is December 31, 2007 or until filled. Interested applicants should send their CV by mail or email to:

Carol Forestier Secretary for Dr. Leonard Rybak, MD, Ph.D. Chairman of Search Committee SIU School of Medicine P.O. Box 19643 Springfield, IL 62794-9643 cforestier@siumed.edu

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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 between 1.6 to 1.7 times that seen in placebo-treated patients. Over the course of a typical 10 week controlled trial, the rate of death in drug-treated patients was about 4.5%, compared to a rate of about 2.6% in the placebo group. Although the causes of death were varied, most of the deaths appeared to be either cardiovascular (e.g., heart failure, sudden death) or infectious (e.g., pneumonia) in nature. GEODON (ziprasidone) is not approved for the treatment of patients with Dementia-Related Psychosis.

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

Someophysics productions and the second seco Prolongation (including concentral long OT syndrome), with recent acter myocardial infarction, or with uncompensated heart failure (see WARNINGS). Pharmacokinetic/pharmacodynamic studies between GEODON and other drugs that prolong the QT interval have not been performed. An additive effect of GEODON and other drugs that prolong the QT interval cannot be excluded. Therefore, GEODON should not periormed Antodimic scala) curve of Caso and the and provide the mean and antodiane chick and the comparison of the period of th pharmacolynamic effects and have this effect described in the full prescribing informations as contraindication or a boyce dro bolded varning (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 atypical 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). *OT Prolongation and Risk of Sudden Death*: GEDODN tays 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 GEDODN. A study directly comparing the QT/QT;-prolonging effect of GEDDON with several other drugs sheld more approximately 9 to 14 mses greater than for tour of the comparator drugs (risperidone), but was approximately 14 msecless than the prolongation observed for thioridazine. In this study, the effect of GEDDON on QT, length was approximately 14 msecless than the prolongation observed for thioridazine. In this study, the effect of GEDODN on QT, length was not commented the the reserved for the comparator drugs (Figure 2010 mm birt). In alexeho-controlled trials, GENODN is controlled trials, GENODN is a metaholic inbithor (kenoncarve) 2010 mm birt). In alexeho-controlled trials, GENODN is defined to a metaholic inbithor (kenoncarve) 2010 mm birt). In alexeho-controlled trials, GENODN is defined trials, GENODN is defined trials. GENODN is defined trials, GENODN is defined trials, GENODN is defined trials. GENODN is defined trials, GENODN is defined trials, GENODN is defined trials, GENODN is defined trials, GENODN is defined trials. GENODN is defined trials, GENODN is pharmacodynamic effects and have this effect described in the full prescribing information as a contraindication or a boxed or bolded warning augmented by the presence of a metabolic inhibitor (ketoconazole 200 mg bid). In Jackebo-controller trials, GEODON increased the QT, 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 (0.06%) GEODON patients and 1/440 (0.23%) placebo patients revealed QT, intervals exceeding the potentially clinically relevant threshold of 500 msec. In the GEODON patients and 7440 (0.2.3 %) practed patients revealed of a met as Exceeding une potentially clinically relevant threshold of 500 msec. In the GEODON patients, neither case suggested a role of GEODON. Some drugs that protong the QT/QT₁ interval have been associated with the occurrence of torscade 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 The relationship of a provingiation to allow be points as vectors in a superplicible data and groups with the postant and the point of arrecommended uses in premarkeing studies, experience is too limited to fue out an increase inst. A study evaluating the U/ULI perioonging effect of intramuscular GEDDON, with intramuscular haloperiotal as a control, was conducted in patient volunteers. In the trial, EGS were obtained at the time of maximum plasma concentration following two injections of GEDDON (20 mg then 30 mg) or haloperiol (7.5 mg then 10 mg) given four hours agart. Note that a 30 mg dose of intramuscular GEDDON is 50%, higher than the recommended therapeutic dose. The mean change in UT, from baseline was calculated for each drug using a sample-based correction that removes the effect of heart rate on the UT interval. The mean increase in UT, from baseline for GEDDON was 4.6 mose following the first injection and 12.8 mese following the second injection. In this study, no patient had a UT, interval exceeding 500 following the first injection and 14.7 mese following the second injection. In this study, no patient had a UT, interval exceeding 500 following the first injection and 14.7 mese following the second injection. In this study, no patient had a UT, interval exceeding 500 following the first injection and 14.7 mese following the second injection. In this study, no patient had a UT, interval exceeding 500 following the first injection and 14.7 mese following the second injection. In this study, no patient had a UT, interval exceeding 500 horormal and matching the matching of the second matching and second matching in the study, ho proportion and second matching (EDDDN at mesc. As with other antipsycholic drugs and placebos, sudden mexplained deaths have been reported in patients taking GEDDDN at recommended doses. The premarketing experience for GEDDON did not reveal an excess of mortality for GEDDON compared to other antipsycholic drugs or placebo, but the extent of exposure was limited, especially for the drugs used as active controls and placebo. Nevertheless, GEDDON's larger prolongation of QT, length compared to several other antipsychotic drugs raises the possibility that. Nevermeters, LCUDUN is larger prolongation of ut, lengin compare to several other antipsycholic drugs raises the possibility needs 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 QT, interval; and (4) presence of consentiated hypokalemia or hypomagnesemia; (3) concomitant use of other drugs that prolong the QT, interval; and (4) presence of congenital prolongation of the QT interval. GEODON should also be avoided in patients with congenital long QT syndrome and in patients with a history of cardiac arriythmias (see CONTRAINDICATIONS, and see *Drug Interactions* under PRECAUTIONS). It is recommended that avoid and the apprint of cardiac arrive the constraint who are drived to cardiate interval; and (4) presence avoid and the cardinate arrive the constraint of the cardinate to the cardinate to the cardinate of the cardinat misury of carriad: any interval many set of the set of errective in detecting such patients. Halter, GCDUW should be avoided in patients with miscines of significant caracitovascular liness, e.g. OT prolongation, recent acute myocardial infraction, uncompensated heart failure, or cardiac arrhythmia. GEDDON should be discontinued in patients who are found to have persistent OT, measurements >500 msec. *Neuroleptic Malignant Syndrome (MMS)*: A potentially fatal symptom complex sometimes referred to as Neuroleptic Malignant Syndrome (MMS) has been reported in association with administration of antipsychotic drugs. The management of MMS should include: (1) immediate discontinuation of antipsychotic drugs and other drugs not essential to concurrent therapy. (2) intensive symptomatic treatment and medical immolitoring, and (3) treatment of any concomitant serious medical problems for which specific treatments are available. If a patient requires antipsychotic drug treatment af MMS. The notential interrute history (2) intensive symptomatic treatment and medical immolitoring that the active threat the specific treatment and recover form MMS. The notential interrute into inform the myschotid hear actific working should be active threat the specific treatment and the active streatment should hear actific working should be active threat should hear antipsychotid should hear actific working should be active threatment should hear antipsychotic should hear actific working should be active threatment should hear antipsychotic should hear actific working should be active threatment should hear antipsychotic should hear actific working should be active threatment should hear antipsychotic should hear actific working should be active threatment should hear actific working should be active threatment should hear actific working should be active threatment should hear antipsychotic should be active threatment should hear actific working should be active threatment should hear actific working should be active threatment should hear actific working should be actific working should be a concomitant serious medical problems tor which specific treatments are available. If a patient requires antipsychoic for ug treatment after recovery from NMS, the potential interintoduction of drug therary should be carefully considered. The patient should be carefully considered. The patients are available. If a patient requires antipsycholic treatment with antipsycholic drugs. Although the prevalence of TD appears to be highest treatment, which patients are likely to develop TD. If signs and symptoms of TD appear in a patient to reade the and Diabetes Mellifus: Hyperglycemia -related adverse events, sometimes serious, have been reported in patients treated with anyical antipsycholics. There have been few reports of hyperglycemia or diabetes in patients treated with GEODON, and its not known if GEODON is associated with these events. Patients treated with an applical antipsycholic beneficiated and the patient breated beneficiated and the patient breated benefician and the patient breated benefician bene symptoms of hyperglycemia. PRECAUTIONS — General: <u>Rash</u>, in premarketing trials, about 5% of GEODON 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 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 antifastimate systemic illness, e.g., elevated WBCs. Most patients improved promptly upon treatment with antifastamines or steroids and/or upon discontinuation of GEDDON, and all patients were reported to recover completely. Upon appearance of the for which an alternative etiology cannot be identified, GEDDON should be discontinued. <u>Orthostatic Hypotension</u>; GEDDON may induce orthostatic hypotension associated with dzienses, tachycardia, and, in some patients, syncope, especially during the initial does-titration period, probably reflecting its a, adrenergic antagonist properties. Syncope was reported in 0.6% of GEODON patients, GEODON should be used with particular caution in patients with known cardiovascular disease (history of myocardial infraction or ischemic heart disease, heart failure or conduction abnormalities), cerebrovascular disease or conditions that would predispose patients to hypotension (dehydration, hypovolemia, and automatical, activation of the second s Conditions that lower the secure threshold may be more prevalent in a population of 65 years or older. <u>Dysphaga</u> Esophagea dysmoliity 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 Cathody in particular holes with a discovery of the second second and the second second and the second s 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 the conducted to date have shown an association between chronical ministration of the conducted to date have shown an association between chronical ministration of the conducted to date have shown an association between chronical ministration of the conducted to date have shown an association between chronical ministration of the conducted to date have shown an association between chronical ministration of the conducted and date and the conducted at this time. Potential date or conducted at the site means the available evidence is considered to ministration of the conducted at the site and 6-week placebo-controlled at the site at the site and 6-week placebo-controlled at the site at the and word impairments ownholence was accommonly reported adverse event in GEUDVI patients. In the 4-and o-week placedo-controllent trials, somohence was reported in 14% of GEDDON patients vs. 7% of placebo patients. Somohence 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>Priapism</u> One case of priapism was reported in the premarketing database. <u>Body Temperature Regulation</u>. Although not reported with GEODON in premarketing trials, disruption of the body's ability to reduce core body temperature has been attributed to antipsychotic agents. <u>Suicide</u>. The possibility of the prevention is the other potential in barrents in the deen use and incline at the privation barrents and the patients have the prevention of the body's ability to reduce core body temperature has been attributed to antipsychotic agents. <u>Suicide</u>. The possibility of the prevention of the body is ability to reduce core body temperature has been attributed to antipsychotic agents. <u>Suicide</u>. The possibility of the privation of the body's ability to reduce core body temperature has been attributed to antipsychotic agents. <u>Suicide</u>. The possibility of the privation attributed to antipsychotic agents. <u>Suicide</u>. The possibility of the privation of the body's ability to reduce to the privation of the body is ability to reduce to the body. <u>Suicide attemption</u> attributed to antipsychotic agents. <u>Suicide</u> the possibility attemption of the body is ability to reduce the privation attemption attemption attemption. <u>Body attemption</u> attemption attemptio suicide attempt is inherent in psychotic illness and close supervision of high-risk patients should accompany drug therapy. GEODON addie author is miner polycological and a second second second second second and a second second and a second seco Geoson as included in dealers of the second se second sec

information and instructions in the Patient Information Section should be discussed with patients. Laboratory Tests: Patients being considered information and instructions in the Patient Information Sectionshould be discussed with patients. Laboratory Tests: Patients being considered for GEDDON treatment who are at tisk of significant electrolyde 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 GEODON therapy need periodic monitoring of serum potassium and magnesium. Discontinue GEODON in patients that protones that protocome to the primary CRIS effects of GEODON therapy need periodic monitoring of serum potassium and magnesium. Discontinue GEODON should not be used with any drug that protongs the OT interval. (2) Given the primary CRIS 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 anthance the effects of certain antihypertense 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 hy heatmace), and tent inhibitor of YSA4, 400 mg df or 5 days; increased the AUC of Magna VIII. Second VIIII and Aucrited GEODON hybart and the centraling and the active central of a diverse of GEODON hybart and the centraline advection of X344, 400 mg df or 5 days; increased the AUC of Magna VIIIII and the centraling hour active centraling and the active cen pharmacokinetics. Coadministration of 30 mL of Maakoxidi not affect (ECDDON pharmacokinetics. Population pharmacokinetic analysis of schizophrenic patients in controlled clinical trials has not revealed any clinically significant pharmacokinetic interactions with benztropine, propranolol, or lorazepam. <u>Effect of ECDON on other Drugs</u>; In vitro studies revealed little potential for GEODON to interfere with the metabolism of drugs cleared primarily by CYP1A2, CYP2C3 (CYP2C3, GYP2C5, and CYP3A4, and little potential for drug interactions with 6EODON due to displacement. GEODON 40 mg bid administered concomitantly with hitmm450 mg bidfor 7 days did not affect the stady-state level or renal clearance of lithium. GEODON 20 mg bid did not affect the pharmacokinetics of concomitantly administered or contraceptives, ethinyl estratiol (0.03 mg) and levonorgestrel (0.15 mg). Consistent with in vitro results, a study in normal healthy volunteers showed that GEODON due to the the metabolism of dedromethropinan, a CYP2D6 model substrate, to bis major metabolite, destrophan. There was no statistically significant change in the urinary dextromethorphan/dextrophan ratio. **Carcinogenesis, Mutagenesis, Impairment of Ferlility**: Lifetime carcinogenicity studies were conducted with GEODON in Long Evans rats and CD-1 mice. In male mice, there was no increase in incidence of humosr relative to controls. In female mice there were dose-related increases in the incidences of there was no increase in incidence of humosr relative to controls. there was no increase in incidence of tumors relative to controls. In female mice there were dose-related increases in the incidences of Alter of bolladorini Toydarovane y assi met ve lening van de new province veelopinent sources and oese on not on Ingryday (0.3 or 8 fimes the MRHD of 200 my/day on a mg/m² basis). Fertility rate was reduced at 160 mg/kg/day (8 libers the MRHD on a mg/m² basis). There was no effect on fertility at 40 mg/kg/day (2 times the MRHD on a mg/m² basis). The fertility of temate rate was reduced at 160 mg/kg/day (8 libers the MRHD on a mg/m² basis). **Pregnancy Category C:** There are no adequate and well-controlled studies in pregnant women. GEDDON should be used during pregnancy In your of the potential benefit justifies the potential risk to the fetus. Labor and Delivery. The effect of GEODON on labor and delivery in humans is unknown. Nursing Mothers: It is not known whether, and if so in what amount, GEODON or its metabolites are excreted in human milk. It is recommended that women receiving GEODON should not breast feed. Pediatric Use: The safety and effectiveness of GEODON in the safety and effectiveness of GEODON is the safety and effectiveness of GEODON in the safety and effectiveness of GEODON pediatric patients have not been established. Geriatric Use: Of the approximately 4500 patients theated 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 tolerance or orthostasis, should lead to consideration of a lower starting dose prantacovirant elevation of the constraint of the second s trais tor solucipinenia (apolio in Wo G-Week, and Wo G-Week Reel-Ouse trais) and opport ania (a polio in Wo G-Week interduce Ouse Trais) in which (ECDON was administered in doses ranging from 10 to 200 mg/dg. *Adverse Events Associated with Discontinuation:* Schizophrenia: Approximately 4.1% (29/702) of GEODON-treated patients in short-term, placebo-controlled studies discontinued treatment due to an adverse event, compared with about 2.2% (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 the GEODON-treated detried ware Adverse devent, compared with about 3.7% (5/136) on placebo. The most common events associated with dropout of the GEODON-treated detried ware Adverse dot the adverse development of adverse event, compared to the adverse event development of the GEODON-treated patients (1%) adverse to event adverse event of the a addients were adathisia, anviety, depression, dizzines, dystonia, rash and vomitling, with 2 dropouts for each of these events among GEODON 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 - 55% and al Least Truice the Rade of Placebor. The most commonly observed adverse events associated with GEODON in schizophrenia trials were somnolence (14%) and respiratory tract infection (8%). The most commonly observed adverse wents associated with the use of GEODON in bipolar mania trials were somnolence (31%), extrapyramidal symptoms (31%), diziness (16%), akathisia (10%), abnormal vision (6%), asthenia (6%), and vomiting (5%). The following list enumerates the treatment-emergent adverse events that occurred during acute therapy, including only those events that occurred in 2% of GEODON patients and at a greater adverse events that occurred of thing acute interapy, including only trose events that occurred in 2×6 of GEODOP qualities and at a greater incidence than in placebo. Schizophrenia: <u>Body as a Whole</u>—stemia, accidental injury, chest pairo, <u>Cardiovascular</u>—tachycardia. <u>Digestive</u>—nausea, constipation, dyspepsia, diarrhea, drymouth, anorexia, <u>Nervous</u>—extrapyramidalsymptoms, somolence, akathisia, dizziness. <u>Respiratory</u>—respiratory tract infection, rhinitis, cough increased. <u>Skin and Appendages</u>—rash, fungal dermatitis. <u>Special</u> <u>Senses</u>—ahormal vision. <u>Bipolar Mania: <u>Body as a Whole</u>—headache, asthenia, accidental nijury. <u>Cardiovascular</u>—hypertension. <u>Digestive</u>—nausea, diarrhea, dry mouth, yomiting, increased salvation, torgueedema, dysphagia, <u>Musculoskeletar</u>, myalgia. <u>Nervous</u>— <u>Somolence, extrapyranidal Symptoms, dizziness</u>, aclathisia, anavieb, hypesthesia, special <u>Musculoskeletar</u>, pharyngtio, dyspnea, <u>Skin and Appendages</u>—fungal dermatitis. <u>Special Senses</u>—abnormal vision. **Dose Dependency**: An analysis for dose response in the</u> Skin and Appendages—fungal dermatitis. Special senses—anormal vision. Uose vepenaency: an anarysis to roose response in use schizophrenia trials revealed an apparent relation of adverse event to does for the following: asthenia, postural hypotension, anorexia, dry mouth, increased salivation, arthralgia, anxiety, dizziness, dystonia, hypertonia, sommolence, tremor, rhinitis, rash, and abnormal vision. Edrapyramidal Symptoms (EPS): The incidence of reported EPS for GEDOD Natients in the short-term, placebo-controlled schizophrenia trials was 14% ve 8% for placebo. Objectively collected data from those trials on the Simpson-Angus Baling 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 fraining of 57% of hordwweight were command rewaling a statistical with similar tharm traget inplaceport weight ngin for GEODON platients. hypotension (see PHECAU IUNS). Weight Gam: In short-term schizophreina trais, the proportions of patients meeting a weight gain criterion of 27% of body weight were compared, revealing a statistically significantly preater incidence of weight gain for GEDDON patients. (10%) vs placebo patients (4%). A median weight gain of 0.5 kg was observed in GEDDON patients wo 0.0 kg in placebo patients. Weight gain was reported as an adverse event in 0.4% of both GEDDON and placebo patients. During long-term therapy with GEDDON, a categorization of patients at baseline on the basis of body massing dev. (BMI) showed the greatest mean weight 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 verweight (-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 "normal" BMI, and a 1.3 kg mean weight loss for patients with a "lioh" BMI. EGC Changes: GEDDON is associated with an increase in the 0.7, interval (see WARNINGS). In schizophrenia trials, GEDDON was associated with a mean increase in the 0.7, interval (see WARNINGS). In schizophrenia trials, GEDDON was associated with a mean increase in the 0.7, interval (see CEDDON is decreased and compared to a comparison of users of the compared to a compared to Very work of a section of the sectio syndrome, fever, accidental fall, faceedema, chills, photosenstitviture.com, flank pain, hypothermia, motor vehicle accident (*Zardiovascular* <u>System</u> — *Frequent* tachycardia, hypertension, postural hypotension; *Infrequent* bradycardia, angina pectoris, atrial fibrillation; *Rare*: first-degree AV block, bundle branch block, phlebitis, pulmonary embolus, cardiomegaly, cerebral infarct, cerebrovascular accident, deep biggist of biologistic strainer index provides provides and the provided and the provide Constant Jabinute, "Lipitanus, neparoni egalor, leukopiaska on Hourn, ayine depusit, interesta, <u>Litudorita</u>, "Lipitani hypothyrolitis, "Lipitani creatine phosphokinase increased, alkaline phosphatase increased, hypercholestremia, dehydration, lactic dehydrogenase increased, abuminuria, hypokalemia; Azer 2BUI Nicreased, creatinien increased, hypercipenia, hypochosteremia, hyperuricemia, hypochosteremia, hypoglycemia, hyponatremia, hypoproteinemia, glucose tolerance decreased, gout, hyperchloremia, hyperatemia, hypocalesmia, hypoglycemia, hyponatremia, hypoproteinemia, glucose tolerance decreased, gout, hyperchloremia, hyperatemia, hyperatemia, hypocalesmia, hypoglycemic, reaction, hypomagnesemia, ketosis, respiratory alkalosis. <u>Musculoskeletal System</u> – Frequent: myalgia; ataxia, amesia, nostility, witching, paresthesia, confusion, vertigo, hypokinesia, hyperkinesia, ahormal gati, oculogyric-crisis, hypesthesia, diplogi, incoordination, neuropathy. <u>Increguent parahysis, Rare</u>: myoclonus, nystagmus, torticollis, circumoral paresthesia, opishtonose, reflexes increased, trismus. <u>Respiratory System</u> – Frequent dyspinea, Infrequent pneuronia, epistaxis; Rare hemophysis, layngismus. Skin and Appendages — Infrequent: maculopapular rash, uriticaria, alopecia, eczema, extoliative, dermatitis, contract dermatitis, vesiculobullous rash. <u>Special Senss</u> – Frequent fungal dermatitis; *infrequent*: conjunctivitis, dry eyes, tinnitus, lopharitis, catarad, obtooholin, Rare, veshemorthae, visualified dermatitis; *infrequent*: conjunctivitis, dry eyes, tinnitus, lopharitis, catarad, photopholin, Rare, veshemorthae, visualified derke, keatitis, keratoconjunctivitis. photophobia, *Bare*: eye hemorrhage, visual field delect, keratitis, keratoconjunctivitis, <u>Urogenital System</u>—*Infrequent*: impotense, abnormal ejaculation, amenorrhea, hematuria, menorrhagia, female lactation, polyuria, urinary retention, metrorrhagia, male sexual dysfunction, anorgasmia, glycosuria; *Rare*: gynecomastia, vaginal hemorrhage, nocturia, oliguria, female sexual dysfunction, uterine hemorrhage. Adverse Finding Observed in Trials of Intramuscular GEDDON: In these studies, the most commonly observed adverse events associated with the use of intramuscular GEDON (ES%) and observed at a rate on intramuscular GEDON (in the higher does groups) at least twice that of the lowest intramuscular GEDON group were headache (13%), nausea (12%), and somnolence (20%). Adverse Events at an Incidence 31% in Short-Term Fixed-Dose Intramuscular Trials: The following list entertament-emergent adverse events Incidence >1% in Short-Term Fixed-Dose Intramuscular Traits: The following list enumerates the treatment-emergent adverse events that occurred in 2% of GEODON patients (in the higher dose groups) and at least twice that of the lowest intramuscular GEODON group. Body as a Whole — headache, injection site pain, asthenia, abdominal pain, flusyndrome, backpain. <u>Cardiovascular</u> — postural hypotension, hypertension, bradycardia, vasodilation. <u>Digestive</u> — nausea, rectal hemorrhage, diarrhea, vomiting, dyspepsia, ancexia, constipation, tooth disorder, drynomth. <u>Nervoue</u>—drziness, anwide; insomita, somolence, akathisis, aqlation, actharyaranidal syndrome, Hypertonia, cogwheel rigidity, paresthesia, personality disorder, psychosis, speech disorder. <u>Respiratory</u> — rhinitis. <u>Skin and Appendages</u>— furunculosis, sweating. <u>Urogental</u>—dysmenorrhea, priagism. **DRUG ABUSE AND DEPENDENCE**—*Controlled Substance* **Class**: 6CDODN is not cantrolled substance. **OVEFDOSAGE**—In premarketing fitais in over 5400 patients, accidental or intentional overdosage of GEODON was documented in 10 patients. All patients survived without sequelae. In the patient taking the largest confirmed amount (3240 mg), the only symptoms reported were minimal sedation, sluring of speech, and transitory hypertension (BP 2005).

References: 1. Daniel DG, Potkin SG, Revees RR, Swift RH, Harrigan EP. Intramuscular (IM) ziprasidone and haloperidol in the treatment of acute exacerbation of schizophrenia and schizoaffective disorder: comparison of intramuscular and oral formulations in a 6-week, randomized trial, Siu CO, Romano SJ. Ziprasidone and haloperidol in the treatment of acute exacerbation of schizophrenia and schizoaffective disorder: comparison of intramuscular and oral formulations in a 6-week, randomized by biotechating by comparison of intramuscular and oral formulations in a 6-week, randomized by biotechating by comparison of intramuscular and oral formulations in a 6-week, randomized by biotechating by comparison of intramuscular and oral formulations in a 6-week, randomized by biotechating by comparison of intramuscular and oral formulations in a 6-week, randomized by biotechating by comparison of intramuscular and oral formulations in a 6-week, randomized by comparison of intramuscular (IM) ziprasidone and haloperidol in the treatment of acute participation and schizoaffective disorder: comparison of intramuscular and oral formulations in a 6-week, randomized by biotechating by comparison of intramuscular and oral formulations in a 6-week, randomized by comparison of intramuscular by comparison of intramuscular by comparison of intramuscular by comparison of intramuscular by comparison of internations of the province of the pro

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Control acute agitation with



In schizophrenia... Rapid improvement with low EPS^{1,2}

- Significant control achieved between 15 and 30 minutes* after injection^{1,3}
- Proven advantages over haloperidol IM
 - twice the improvement as measured on the BPRS^{4†}
 - significantly lower incidence of movement disorders^{2‡}
- Smooth transition, with continued improvement, from IM to oral therapy^{2,4}
- 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_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.

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.