# CNS SPECTRUMS The International Journal of Neuropsychiatric Medicine

# Neuropsychiatric Comorbidities: A Meeting of Minds

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## In mild to moderate Alzheimer's disease You see it as maintaining cognitive

\* Individual responses to ARICEPT® may include improvement, stabilization, or decline.

<sup>†</sup> The most common adverse events in pivotal clinical trials with ARICEPT<sup>®</sup> were nausea, diarrhea, insomnia, vomiting, muscle cramps, fatigue, and anorexia. Pivotal clinical trials of ARICEPT<sup>®</sup> have shown no increase, relative to placebo, in the incidence of either peptic ulcer disease or gastrointestinal bleeding. Nevertheless, cholinesterase inhibitors may be expected to increase gastric acid secretion. Therefore, patients (especially those at increased risk for developing ulcers—eg, having a history of ulcer disease, receiving concurrent nonsteroidal anti-inflammatory drugs) should be monitored closely for gastrointestinal bleeding. In pivotal clinical trials, syncopal episodes have been reported in association with ARICEPT<sup>®</sup> (2% vs 1% for placebo).

# function.



ARICEPT<sup>®</sup>. Helping to make a difference for people living with Alzheimer's

- Slows the worsening of symptoms<sup>\*</sup>
- Proven to maintain cognition in placebo-controlled studies
- Well tolerated<sup>†</sup>
- Proven safety profile
- Once-daily dosing
- 3 years of real-world use



Please see brief summary of prescribing information on adjacent page.

## Nota Bene

## **Psychopharmacology Bulletin**

*Psychopharmacology Bulletin* will be published quarterly in 2001

For subscription information or author guidelines, please visit www.psychopharmbulletin.com or write us: MedWorks Media 333 Hudson Street, 7th Floor New York, NY 10013

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# Suicide Prevention 2000 Videotape Series

Suicide Prevention 2000 has just been released as a videotape series, intended for psychiatrists, psychologists and other heath care professionals. Become an AFSP professional member\* and receive 8.5 CAME/CE credits upon completion of a web-based post-test.

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The series contains thirteen presentations from the Suicide Prevention 2000 conference, featuring the world's leading authorities in the treatment of depressed and suicidal patients.

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**Treating the Suicidal Patient with Borderline Personality Disorder** John G. Gunderson, MD

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For more information, please call 1-888-333-AFSP, or email us at inquiry@afsp.org Suicide Prevention 2000 was supported by an educational grant from Pfizer Inc. Additional educational grants were provided by Abbott Laboratories, Bristol-Myers Squibb, Eli Lilly and Co., Janssen Pharmaceutica, Merck & Co., SmithKline Beecham Pharmaceuticals, Solvay Pharmaceuticals and Wyeth-Ayerst Laboratories.

This activity has been planned and implemented in accordance with the Essential Areas and policies of the Accreditation Council for Continuing Medical Education through the joint sponsorship of CME, Inc. and the American Foundation for Suicide Prevention. CME, Inc. is accredited by the ACCME to provide continuing medical education for physicians.

#### ARICEPT\* (Donepezil Hydrochloride Tablets)

ARILET \* (JONEPEZI) Hydrochioride Tablets) Brief Summary – see package insert for full prescribing information. INDICATIONS AND USAGE ARICEPT® is indicated for the treatment of mild to moderate dementia of the Alzheimer's type. CONTRAINDICATIONS ARICEPT® is contraindifor the treatment of mild to moderate dementia of the Aizheimer's type. **CONTRAINDICATIONS** ARICEPT® is contrandi-cated in patients with known hypersensitivity to donepazil hydrocholide or to piperidine derivatives. **WARNINGS Anosthesia:** ARICEPT®, as a cholinesterase inhibitor, is likely to exaggerate succinylcholine-type muscle relaxation during anesthesia. **Cardiovascular Conditions:** Because of their pharmacological action, cholinesterase inhibitors may have vapotonic effects on hear trate (a., phardycardia). The potential for this action may be particularly important to patients with "sick sinus syndrome" or other supraventricular cardiac conduction conditions. Syncopal episodes have been reported in association with the use of ARICEPT®. **Gastrolitestinal Conditions:** Through their primary action, cholinesterase inhibitors may be expected to increase gastric acid secretion due to increased cholinergic activity. Therefore, patients should be monitored closely for symptoms of active or occult gastrointestinal bleeding, especially those at increased risk for developing ulcers, e.g., those with a history of ulcer disease or those receiving concurrent nonsteroidal anti-inflammatory drugs (NSAIDS). Clinical studies of ARICEPT\* have shown no increase, relative to placebo, in the incidence of either peptic ulcer (NSAIDS). Clinical studies of ARICETP<sup>®</sup> have shown no increase, relative to placebo, in the incidence of either peptic ulcer disease or gastrointestinal bleeding. ARICETP<sup>®</sup>, as a predictable consequence of its pharmacological properties, has been shown to produce diarrhea, nausea and vomiting. These effects, when they occur, appear more trequently with the 10 mg/day dose than with the 5 mg/day dose. In most cases, these effects have been mid and transient, sometimes lasting one to three weeks, and have resolved during continued use of ARICETP<sup>®</sup>. **Genitzurinary:** Although not observed in clinical trials of ARICEPT<sup>®</sup>, cholinomimetics may cause bladder outflow obstruction. Neurological Conditions: Seizures: Cholinomimetics are believed to have some potential to cause generalized convulsions. However, seizure activity also may be a manifestation of Alzheimer's Disease. Pulmonary Conditions: Because of their cholinomimetic actions, cholinesterase inhibitors should be prescribed with care to patients with a history of asthma or obstructive pulmonary disease. **PRECAUTIONS Drug-Drug interactions Drugs Highly Bound to Plasma** Proteins: Drug displacement studies have been performed in vitro between this highly bound drug (96%) and other drugs such as furosemide, digoxin, and warfarin. ARICEPT® at concentrations of 0.3-10 µg/mL did not affect the binding drugs such as furosemide, digoxin, and warfarin. ARICEPT® at concentrations of 0.3-10 µg/mL did nut affect the binding of furosemide (5 µg/mL), digoxin (2 ng/mL), and warfarin (3 µg/mL) to human albumin. Similarly, the binding of ARICEPT® to human albumin was not affected by furosemide, digoxin, and warfarin. *Effect of ARICEPT® on the Metabolism of Other Drugs:* No *in vivo* clinical trials have investigated the effect of ARICEPT® on the clearance of drugs metabolized by CYP 3A4 (e.g. cisapride, terfenadine) or by CYP 2D6 (e.g. imipramine). However, *in vitro* studies show a low rate of binding to these enzymes (mean K<sub>1</sub> about 50-130 µJM), that, given the therapeutic plasma concentrations of donepzii (164 nM), indicates little likelihood of interference. Whether ARICEPT® has any potential for enzyme induction is not known. *Effect of Other Drugs on the Metabolism of ARICEPT*: Ketocanazie and quicing, inhibitors of CVP1206. FOR SUMME EVENTS of USE STATES AND A STAT with Cholinomimetics and Other Cholinesterase Inhibitors: A synergistic effect may be expected when cholinesterase inhibitors are given concurrently with succinylcholine, similar neuromuscular blocking agents or cholinergic

donepezi have not been completed. Donepezi was not mutagenic in the Armes reverse mutation assay in bacteria. In the chromosome aberration test in cultures of Chinese harnster lung (CHL) cells, some clastogenic effects were observed. Donepezil was not clastogenic in the *in vivo* mouse micronucleus test. Donepezil had no effect on fertility in rats at doses up to 10 mg/kg/day (approximately 8 times the maximum recommend-ed human dose on a mg/m<sup>2</sup> basis). **Pregnancy Pregnancy Category C:** Teratology studies conducted in pregnant rats at doses up to 16 mg/kg/day (approximately 13 times the maximum recommended human dose on a mg/m<sup>2</sup> basis) and in pregnant rabbits at doses up to 10 mg/kg/day (approximately 16 times the maximum recommended human dose on a mg/m<sup>2</sup> basis) did not disclose any evidence for a teratogenic potential of donepezil. However, in a study in which pregnant rats were given up to 10 mg/kg/day (approximately 8 times the maximum recommended human dose on a mg/m<sup>2</sup> basis)

(approximately 8 times the maximum recommended human dose on a mg/m<sup>b</sup> basis) from day 17 of gestation through day 20 postpartum, there was a slight increase in still births and a slight decrease in pup survival through day 4 postpartum at this dose; the next lower dose tested was 3 mg/kg/day. There are no adequate or well-controlled studies in pregnant women. ARICEPT\* should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus. **Nursing Mothers** It is not known whether donepezil is excreted in human breast milk. ARICEPT\* has no indication for use in nursing mothers. **Pediatric Use** There are no adequate and well-controlled trials to document the safe-ty and efficacy of ARICEPT\* in any illness occurring in children. **ADVERSE REACTIONS Adverse Events Leading to Dependential**. The other addition to the result of the potential of the other set of the other set of the other set of the other set. Discontinuation The rates of discontinuation from controlled clinical trials of ARICEPT\* due to adverse events for the ARICEPT\* 5 mg/day treatment groups were comparable to those of placebo-treatment groups at approximately 5%. The rate of discontinuation of patients who received 7-day escalations from 5 mg/day to 10 mg/day, was higher at 13%. The most common adverse events leading to discontinuation, defined as those occurring in at least 2% of patients and at twice the incidence seen in placebo patients, are shown in Table 1.

#### Table 1. Most Frequent Adverse Events Leading to Withdrawal from Controlled Clinical Trials by Dose Group

	non content of the of a coup				
Dose Group	Placebo	5 mg/day ARICEPT*	10 mg/day ARICEPT*		
<b>Patients Randomized</b>	355	350	315		
Event/%Discontinuing					
Nausea	1%	1%	3%		
Diarrhea	0%	<1%	3%		
Vomiting	<1%	<1%	2%		

Most Frequent Adverse Clinical Events Seen in Association with the Use of ARICEPT\* The most common Most infeguent Adverse clinical count of the interview of the state of continued ARICEP1<sup>®</sup> treatment without the need for dose modification. There is evidence to suggest that the frequency of these common adverse events may be affected by the rate of titration. An open-label study was conducted with 269 patients who received placebo in the 15- and 30-week studies. These patients were titrated to a dose of 10 mg/day over a 6-week period. The rates of common adverse events were lower than those seen in patients titrated to 10 mg/day over one week in the controlled clinical trials and were comparable to those seen in patients on 5 mg/day. See Table 2 for a comparison of the most common adverse events following one and six week titration regimens.

#### Table 2. Comparison of Rates of Adverse Events in Patients

Thated to to my day over 1 and 6 wooks						
Adverse Event	Placebo (n=315)	No titration 5 mg/day (n=311)	One-week titration 10 mg/day (n=315)	Six-week titration 10 mg/day (n=269)		
Nausea	6%	5%	19%	6%		
Diarrhea	5%	8%	15%	9%		
Insomnia	6%	6%	14%	6%		
Fatique	3%	4%	8%	3%		
Vomiting	3%	3%	8%	5%		
Muscle cramps	2%	6%	8%	3%		
Anorevia	2%	2%	70/	29/		

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

than Placebo-l	realed Patients		
Body System/Adverse Event	Placebo (n=355)	ARICEPT® (n=747)	
Percent of Patients with any Adverse Event	72	74	
Body as a Whole			
Headache	9	10	
Pain, various locations	8	9	
Accident	6	7	
Fatigue	3	5	
Cardiovascular System			
Syncope	1	2	
Digestive System			
Nausea	6	11	
Diarrhea	5	10	
Vomiting	3	5	
Anorexia	2	4	
Hemic and Lymphatic System			
Ecchymosis	3	4	
Metabolic and Nutritional Systems			
Weight Decrease	1	3	
Musculoskeletal System			
Muscle Cramps	2	6	
Arthritis	1	2	
Nervous System			
Insomnia	6	9	
Dizziness	6	8	
Depression	<1	3	
Abnormal Dreams	0	3	
Somnolence	<1	2	
Urogenital System			
Frequent Urination	1	2	

Other Adverse Events Observed During Clinical Trials ARICEPT® has been administered to over 1700 individuals during clinical trials worldwide. Approximately 1200 of these patients have been treated for at least 3 months and more than 1000 patients have been treated for at least 3 months and more than 1000 patients have been treated for at least 6 months. Controlled and uncontrolled trials in the United States included approximately 900 patients. In regards to the highest dose of 10 mg/day, this population includes 650 patients treated for 3

approximately sub-platents. In regards on neingines uses on rollingues, mis population includes sub-platents breakers are in original to a sub-platent and the platent regards are in the strength of platent exposure is from 1 to 1214 days. Treatment emergent signs and symptoms that accurred during a controlled clinical trials and two open-label trials in the United States were recorded as adverse events by the clinical investigators using terminology of their own choosing. To provide an overall estimate of the proportion of individuals having similar types of e the events were prouped into a smaller number of standardized categories using a modified COSTART dictionary and event frequencies were calculated across all studies. These categories are used in the listing below. The frequencies represent the proportion of 900 patients from these trials who experienced that event while receiving ARICEPT\*. Sub patients informings thats while separative and event while receiving ANCEP1-2. An adverse events occurring at least live are included, except for those already listed in Tables 2 or 3, COSTART terms too general to be informative, or events less likely to be drug caused. Events are classified by body system and listed using the following definitions: frequent adverse events — those occurring in at least 1/100 patients; infrequent adverse events — those occurring in 1/100 to 1/1000 patients. These adverse events are not nec-essarily related to ARICEPT® treatment and in most cases were observed at a similar these is the evented lead to the Microcotted editional definition for the second secon

frequency in placebo-treated patients in the controlled studies. No important additional adverse events were seen in studies conducted outside the United States. Body as a Whole: Frequent: influenza, chest pain, toothache; Infrequent: fever, edema face, periorbital edema, hernia hiatal, abscess, cellulitis, chills, generalized coldness, head fullness, listlessness, Cardiovascular System: Frequent: hypertension, vasodilation, atrial fibrillation, hot flashes, hypotension: *Infrequent*; Cardiovascular System: Frequent: hypertension, vasodilation, atrial fibrillation, hot flashes, hypotension; Infrequent: angina pectoris, postural hypotension, myocardial inflaction, AV block (first degree), congestive heart failure, arteritis, bradycardia, peripheral vascular disease, supraventricular tachycardia, deep vein thrombosis. **Digestive System**: Frequent: fecal incontinence, gastrointestinal bleeding, bloating, epigastric pair, Infrequent: enciation, gingivitis, increased appetite, flatulence, periodontal abscess, cholelithiasis, diverticulitis, drooling, dry mouth, fever sore, gastribi, increased appetite, flatulence, periodontal abscess, cholelithiasis, diverticulitis, drooling, dry mouth, fever sore, gastribi, increased colon, tongue ederna, epigastric distress, gastroenteritis, increased transaminases, hemorthoids, lieus, increased thirst, jaundice, melena, polydipsia, duodenal ulcer, storatch ulcer. **Endoerine System**: *Infrequent*: destress mellitus, goiter. **Hemic and Lymphatic System**: *Infrequent*: anemia, thrombocythemia, thrombocytopenia, eosinophilla, erythrocytopenia. **Metabolie and Nutritional Disorders:** Frequent: delydration; *Infrequent*: displation; enside accinculation. **Narone: System**: *Ensuret*: delydration; *Inferquent*: meiste wachnees; merset bascillation. **Narone: System**: *Ferenet*: delydration; *Ensite*: weiste mericle sciences and tack dehydrogenase. **Musculoscheltal System**: Frequent; bone fracture; kinase, hypergiycamia, weight increase, increased lactale dehydrogenase. Musculoskieletal System: Frequent: bone fracture: Infraquent: muscle weakness, muscle fasciculation. Nervous System: Frequent: delusions, tremor, irritability, pareshesia, aggression, vertigo, ataxia, increased libido, restlessness, abnormal crying, nervousness, aphasia; infrequent: cerebrovascular accident, intracranial hemorrhage, transient ischemic attack, emotional lability, neuralgia, coldness (localized), muscle spasm, dysphoria, gait abnormality, hypertonia, hypokinesia, neurodermatitis, numbness (localized), paranoia, dysathria, dysphasia, hostility, decreased libido, melancholia, emotional withdrawal, nystagmus, pacing. **Respiratory** System: Frequent dyspnea, sore throat, bronchitis, Infrequent: epistaxis, post nasai drip, pneumonia, hyperventilation, pulmonary congestion, wheezing, hypoxia, pharyngitis, pleurisy, pulmonary collapse, sleep apnea, snoring. Skin and Appendages: Frequent: puritus, dlaphoresis, uriticaria, Infrequent: dermatitis, erythema, skin discoloration, hyperkentosis, alopecia, tungal dermatitis, herpes zoster, hirsutism, skin striae, night sweats, skin ulcer. Special Senses: Frequent teatract exer (intation, vision) bluvert (horeward for yease on alucoma asarche tinoiths: lenbaritis decreased thearing descreased hearing. cataract, eye irritation, vision blurred; Infrequent: dry eyes, glaucoma, earache, tinnitus, blepharitis, decreased hearing, retinal hemorrhage, otitis externa, otitis media, bad taste, conjunctival hemorrhage, ear buzzing, motion sickness, spots before remail remoningle, onus exertia, onus neura, obcisse, complication remoningle, cai buzzing, mount scherss, spote service yese. Urogential System: Fraquent: unitary incontineer, oncluria; infrequent: dysuin, hematuria, unitary urgency, metrorrhagia, cystitis, enuresis, prostate hypertrophy, pyelonephritis, inability to empty bladder, breast fibradenosis, fibrocystic breast, mastitis, pyuria, renal failure, vaginitis. PostIntroduction Reports Voluntary reports of adverse events temporally associated with ARICEPT® that have been received since market introduction that are not listed above, and that temporally associated with ARICEPT® that have been received since market introduction that are not itsel above, and that there is inadequate data to determine the causal relationship with the drug include the following: abdominal pain, agitation, cholecystilis, contusion, convuisions, hallucinations, heart block (all types), hemolytic anemia, hepatitis, hyponaternia, pancreatilis, and rash. **OVERDOSAGE Because strategies for the management of overdose are continually evolving, it is advisable to contact a Poison Control Center to determine the latest recommendations for the management of an overdose of any drug. As in any case of overdose, general supportive measures should be utilized. Overdosage with cholinesterase inhibitors can result in cholinergic crisis characterized by severe nausea, vormiting, salivation, sweating, bradycardia, hypotension, respiratory depression, collapse and convulsions. Increasing muscle weakness is a possibility and may result in death if respiratory muscles are involved. Tetriary anticholinergics such as atropine may be used as an antidote for ARICEPT® overdosage. Intravenous atropine sultate titrated to effect is recommended: an initial dose of 10 to 20 multi with subment drose hased unon chicital response. Advicat response in blood dressure and heard the art to the respiratory the subment drose heard unon chicital response.** of 1.0 to 2.0 mg IV with subsequent doses based upon clinical response. Atypical responses in blood pressure and heart rate have been reported with other cholinomimetics when co-administered with guaternary anticholinergics such as gly-Tate have been reported with other cholinominetics when co-administered with quaternary anticrohinergics such as gy-copyrrolate. It is not known whether ARICEPT® and/or its metabolites can be removed by dialysis (hemodialysis, peritoneal dialysis, or hemofiltration). Dose-related signs of toxicity in animals included reduced spontaneous movement, prone posi-tion, staggering gait, lacrimation, clonic convulsions, depressed respiration, salivation, micesis, tremore, lasciculation and lower body surface temperature. **DOSAGE AND ADMINISTRATION** The tosages of ARICEPT® shown to be effective in controlled clinical trials are 5 mg and 10 mg administered once per day. Controlled clinical trials indicated that the 10 mg dose, with a one week titration, is likely to be associated with a higher incidence of cholinergic adverse events than the 5 mg dose. Because steady state is not achieved for 15 days and because the incidence of such effects may be influenced by the rate of dose escalation, treatment with a dose of 10 mg should not be contemplated until patients have been on a daily dose of 5 mg for 4 to 6 weeks. Whether or not to employ a dose of 10 mg is a matter of prescriber and patient preference. ARICEPT® should be taken in the evening, just prior to retiring, and may be taken with or without food. Revised September 1999



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AND 10-MG TABLET

THERAPY TO REMEMBER

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# **CNS SPECTRUMS**

The International Journal of Neuropsychiatric Medicine

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#### A REVIEW OF cAMP'S ROLE <u>IN PSYCHIATRIC DISORDERS</u> page 294

"Mononuclear leukocytes of patients with major depression showed significantly reduced immunoreactivity levels and functions of G $\alpha$ s and G $\alpha$ i compared to normal subjects. Similarly, untreated patients with seasonal affective disorder showed significantly reduced mononuclear leukocyte immunoreactive levels of G $\alpha$ s and G $\alpha$ i. Garcia-Sevilla and colleagues reported that in the platelets of patients with major depression, the immunoreactivity of G $\alpha$ i<sub>2</sub> was increased, whereas the levels of other G protein subunits (G $\alpha$ s, G $\alpha$ q<sub>11</sub>, G $\beta$ ) did not show any significant change compared to control subjects. Interestingly, abnormalities in AC were also found in the peripheral cells of patients with major depression."

#### HANDLING DEPRESSION IN HUNTINGTON'S DISEASE

#### page 306

"Along with the tendency to experience depression, research indicates that individuals with HD are at high risk for suicide or attempted suicide. Huntington himself noted that HD patients displayed a 'tendency to insanity, and sometimes that form of insanity which leads to suicide.' This observation was also reported by Minski and Guttman in their seminal 1938 article on HD. These authors noted suicidal tendencies in some depressed patients, as well as several cases of suicide that occurred prior to HD diagnosis. Contemporary authors also support this marked risk for suicide. Lipe and colleagues reported a HD suicide rate of 3.0%; Sorensen and Fenger, a 5.6% rate; DiMaio and colleagues, a 7.3% rate; and Farrer, a 5.7% rate, along with a 27.6% rate of attempted suicides among HD patients. These rates are well above the average rates of suicide in the general population of 10-13/100,000 persons. HD patients with the greatest risk for suicide include those with no offspring, unmarried, living alone, in contact with others affected with HD, and who are clinically depressed. The high rate of suicide among patients with HD is not common to other neurodegenerative disorders. For example, while Parkinson's disease patients experience heightened depression and suicidal ideation, there does not exist a higher than average occurrence of suicide in the panic disorder (PD) population."

#### ANTIPSYCHOTIC EFFICACY AND <u>PARTIAL KBS</u> page 329

"During the neuropsychiatric admission, isophane insulin was added to the patient's medication schedule for diabetic control. Carbamazepine was administered, then discontinued when a skin rash developed. Haloperidol was replaced with thiothixene for behavioral disturbances and psychosis. Thiothixene was gradually increased to 105 mg every day (QD) but was later reduced to 90 mg QD due to excessive sedation. No other side effects were noted. The serum thiothixene level was 9.5 ng/mL with a therapeutic window of 2.0–15.0 ng/mL."

#### <u>NEW CLINICAL TOOLS FOR SCHIZOPHRENIA</u> page 333

"Completed ASC-SR forms were received from 152 patients. The ASC-SR was well received by both patients and caregivers, with over 80% indicating that they had understood the purpose of the checklist and had found it easy to use. Eighty-nine percent of respondents considered the range of side effects presented in the ASC-SR to be appropriate and 82% stated that the choice of responses met their needs. Although a few respondents recommended that the questions relating to sexual and menstrual problems should be excluded, a high proportion of patients identified these side effects as problems and indicated a readiness to discuss these problems with their psychiatrists. Eighty-six percent of respondents considered the ASC-SR to be useful to them in communicating their problems to psychiatrists and other members of the healthcare team, ranging from very useful (20%) to a little useful (34%). In addition, feedback from patients and caregivers indicated that 71% would value receiving more information from their healthcare team about their medication and possible side effects."

#### <u>APPROACHING TRAUMATIC GRIEF</u> page 339

"The first phase requires approximately three sessions and sets the stage for the treatment. The therapist obtains the relevant clinical and relationship histories, conducts an in-depth grief assessment, orients the patient and a significant other to the treatment, and helps the patient identify and develop personal goals and TGT-consistent plans for how to achieve them. During this phase, rapport building and empathic understanding are emphasized. It is critical to TGT that the therapist form an alliance with the patient that includes an explicit understanding of the patient's level of grief and his or her grief intensity goals. Often, individuals with traumatic grief feel that a reduction in grief intensity means they are betraying the deceased, or that to end a period of grief means to lose their loved one forever. These ideas are identified and work begins to help patients reevaluate them."



PAXIL® (brand of paroxetine hydrochloride) See complete prescribing information in SmithKline Beecham Pharmaceuticals literature or *PDR.* The following is a brief summary.

INDICATIONS AND USAGE: Paxil is indicated for the treatment of depression, obsessions and compulsions in patients with obsessive compulsive disorder (OCD) as defined in DSM-IV, panic disorder, with or without agoraphobia, as defined in DSM-IV and social anxiety disorder, as defined in DSM-IV.

CONTRAINDICATIONS: Concomitant use in patients taking either monoamine oxidase inhibitors (MAOIs) or thioridazine is contraindicated. (See WARNINGS and PRECAUTIONS.) Contraindicated in patients with a hypersensitivity to paroxetine or any of the inactive ingredients in *Paxil*.

WARNINGS: Interactions with MAOIs may occur. Given the fatal interactions reported with concom-itant or immediately consecutive administration of MAOIs and other SSRIs, do not use *Paxil* in com-bination with a MAOI or within 2 weeks of discontinuing MAOI treatment. Allow at least 2 weeks after stopping *Paxil* before starting a MAOI.

after stopping FRAM before serving a most. Potential Interaction with Thioridazine Thioridazine administration alone produces prolongation of the QTc interval, which is associated with serious ventricular arrhythmias, such as torsade de pointes-type arrhythmias, and sudden death. This effect appears to be dose-related. An *in vivo* study suggests that drugs which inhibit P450IID6, such as paroxetine, will elevate plasma levels of thioridazine. Therefore, it is recommended that paroxe-tine not be used in combination with thioridazine.

PRECAUTIONS: As with all antidepressants, use Paxil cautiously in patients with a history of mania.

Use Paxil cautiously in patients with a history of seizures. Discontinue it in any patient who develops seizures. The possibility of suicide attempt is inherent in depression and may persist until significant remission occurs. Close supervision of high-risk patients should accompany initial drug therapy. Write *Paxil* prescriptions for the smallest quarity of tablets consistent with good patient management in order to reduce the risk of overdose. Reversible hyponatremia has been reported, mainly in elderly patients, patients taking diuretics or those who were otherwise volume depleted. Abnormal bleeding (mostly ecchymosis and purpura), including a case of impaired platelet aggregation, has been reported; the relationship to paroxetine is unclear.

Clinical experience with Paxil in patients with concomitant systemic illness is limited. Use cautiously in patients with diseases or conditions that could affect metabolism or hemodynamic responses. Observe the usual cautions in cardiac patients. In patients with severe renal impairment (creatinine clearance <30 mL/min.) or severe hepat-ic impairment, a lower starting dose {10 mg} should be used.

Caution patients about operating hazardous machinery, including automobiles, until they are reasonably sure that *Paxil* therapy does not affect their ability to engage in such activities. Tell patients 1) to continue therapy as directed; 2) to inform physicians about other medications they are taking or plan to take; 3) to avoid alcohol while taking *Paxil*; 4) to notify their physicians if they become pregnant or intend to become pregnant during therapy, or if they're nursing.

Weakness, hyperreflexia, and incoordination following use of an SSRI and sumatriptan have been rarely reported

Veckness, inperienced, and inconduitation forlowing use of an SSIn and sumarity have been rarely reported. Concomitant use of *Paxil* with tryptophan is not recommended. Use cautiously with warfarin. When administer-ing *Paxil* with cometidine, dosage adjustment of *Paxil* after the 20 mg starting dose should be guided by clinical effect. When co-administering *Paxil* with phenobarbital or phenytoin, no initial *Paxil* dosage adjustment is needed; base subsequent changes on clinical effect. Concomitant use of *Paxil* with drugs metabolized by cyto-chrome *P<sub>exil</sub>* [D<sub>0</sub> [antidepressants such as nortripyline, amitripyline, expiration addition of the other drug; approach concomitant use cautiously. However, due to the risk of serious ventricular arrhythmias and sudden death potentially associated with elevated plasma levels of thioridazine, paroxetine and fluoxetine; cadministered. An *in vivo* interaction study revealed that paroxetine had no effect on terfenacine pharmackinet-ics. Additional *in vitro* studies showed that the inhibitory effects of paroxetine on other IIIA, substrates lastern izole, cisapride, triazolam and cyclospoin] was at least 100 times less potent than ketcoonazole, a potent IIIA, uith environs may need monitoring and the TCA dose may need to be reduced. Administration of *Paxil* and list use raviting had uptil trivicy and adverse effects for either one interfenating the parama concentrations may need monitoring and the TCA dose may need to be reduced. Administration of *Paxil* with procyclidine, is not advised. Undertake concomitant use of *Paxil* and licholi in depressed parameteristical experimentary shift plasma concentrations. Elevated theorhylline levels have been reported with the cyclic meintering *Paxil* with procyclidine, reduce the procyclidine dose. Elevated theorhylline levels have been reported with *Paxil co-administration*, and with thoroylic and divise on other *Paxil* and lithium or digoxin cautiously. If adverse effects tare seen when co-administration *Paxi* itoring theophylline levels is recommended

In 2-year studies, a significance of these findings is unknown. There is no evidence of mutagencity with Paxil.

Rats receiving paroxetine at 15 mg/kg/day (2.4 times the MRHD on a mg/m<sup>2</sup> basis) showed a reduced pregnancy rate

Pregnancy Category C. Reproduction studies performed in rats and rabbits at doses up to 6 mg/kg/day, 8.1 (rat) and 1.9 (rabbit) times the MRHD on a mg/m<sup>2</sup> basis, have revealed no evidence of teratogenic effects or of selec-tive toxicity to the fetus. However, rat pup deaths increased during the first 4 days of lactation when dosing occurred during the last timester of gestation and continued throughout lactation. The cause of these deaths is not known. There are no adequate and well-controlled studies in pregnant women. *Paxi* is should be used in pregnancy only if the potential benefit justifies the potential risk to the fetus. The effect of *Paxi* in labor and delivery in humans is unknown. Paroxetine is secreted in human milk; exercise caution when administering *Paxi*! to a nursing woman.

Safety and effectiveness in the pediatric population have not been established.

In worldwide premarketing Paxil clinical trials, 17% of Paxil-treated patients were 265 years of age. Pharmaco-kinetic studies revealed a decreased clearance in the elderly and a lower starting dose is recommended. However, there were no overall differences in the adverse event profile between older and younger patients.

ADVERSE REACTIONS: Incidence in Controlled Trials—Commonly Observed Adverse Events in Controlled Clinical Trials: The most commonly observed adverse events associated with the use of Paxil in the treatment of depression (incidence of 5% or greater and incidence for Paxil at least twice that for placebol; asthenia [15% vs. 6%), sweating (11% vs. 2%), nausea (26% vs. 9%), decreased appetite (6% vs. 2%), somno-lence (23% vs. 9%), dizziness (13% vs. 6%), insomnia (13% vs. 6%), tremor (8% vs. 2%), nervousness (5% vs. 3%), ejaculatory disturbance (13% vs. 0%) and other male genital disorders (10% vs. 0%).

The most commonly observed adverse events associated with the use of provide in the treatment of obses-sive compulsive disorder (incidence of 5% or greater and incidence for *Paxil* at least twice that of placebo) were: nausea (23% vs. 10%), dry mouth (18% vs. 9%), decreased appetite (9% vs. 3%), constipation (16% vs. 6%), diziness (12% vs. 6%), somolence (24% vs. 7%), tremor (11% vs. 1%), sweating (9% vs. 3%), impotence (8% vs. 1%) and abnormal ejaculation (23% vs. 1%).

The most commonly observed adverse events associated with the use of paroxetine in the treatment of panic disorder (incidence of 5% or greater and incidence for *Paxil* at least twice that for placebol were: asthenia (14% vs. 5%), lowerse adapteite (7% vs. 3%), littido decreased (19% vs. 1%), termon (19% vs. 1%), abnormal ejaculation (21% vs. 1%), female genital disorders (9% vs. 1%) and impotence (5% vs. 0%).

The most commonly observed adverse events associated with the use of paroxetine in the treatment of social anxiety disorder (incidence of 5% or greater and incidence for *Paxil* at least twice that for placebo) were: sweat-ing (9% vs. 2%), nausea (25% vs. 7%), dry mouth (9% vs. 3%), constipation (5% vs. 2%), decreased appetite (8%

vs. 2%), somnolence (22% vs. 5%), tremor (9% vs. 1%), libido decreased (12% vs. 1%), yawn (5% vs. 1%), abnor-mal ejaculation (28% vs. 1%), female genital disorders (9% vs. 1%) and impotence (5% vs. 1%).

mal ejaculation (28% vs. 1%), female genital disorders (9% vs. 1%) and impotence (5% vs. 1%). Twenty percent (1,199/5,145) of *Paxil* patients in worldwide clinical trials in depression and 16.1% (84/522), 11.8% (64/542) and 9.4% (4/469) of *Paxil* patients in worldwide trials in social anxitet disorder, COD and panic disorder, respectively, discontinued treatment due to an adverse event. The most common events (≥1%) associ-ated with discontinued treatment due to an adverse event. The most common events (≥1%) associ-ated with discontinued treatment due to an adverse event. The most common events (≥1%) associ-ated with discontinued treatment due to an adverse event. The most common events (≥1%) associ-ated with discontinued treatment due to an adverse event. The most common events (≥1%) associ-issomia, ansies, social **Baxitey (discorder-**somnolence, insomia, themor, anxiety, dizziness, constipation, nausea, **asthenia**, abnormal ejaculation, impotence: **panic disorder**-somnolence, insomnia, ansiesa, **social Baxitey (disorder-**somnolence, insomia, themor, anxiety, dizziness, nausea, vomit-ing, flatulence, asthenia, abnormal ejaculation, sweating. Ibido decreased. The following adverse events occurred in 6-week placebo-controlled trials of similar design at a frequency of 1% or more, in patients dosed (20 to 50 mg/day) for the treatment of depression: headache, asthenia, palpitation; vasidilation, sweating, rash; nausea, dry mouth, constipation, diarrhea, decreased appetite, flatulence, orophar-vax disorder, dysepsia; invostem, indig, mysthenia; somnolence, dizziness, insomia, tremor, nervoy, envoysness, anxiety, paresthesia, libido decceased, drugged feeling, confusion; yawr; blurred vision, taste perversion; ejacu-latory disturbance, other male genital disorders, urinary frequency, urination disorder, female genital disorders. The following adverse events occurred at a frequency of 2% or more among OCD patients on *Paxil* who partic-

latory disturbance, other male genital disorders, urinary frequency, urination disorder, female genital disorders. The following adverse events occurred at a frequency of 2% or more among OCD patients on *Paxil* who partic-ipated in placebo-controlled trials of 12 weeks duration in which patients were dosed in a range of 20 to 60 mg/day or among patients with panic disorder on *Paxil* who participated in placebo-controlled trials of 10 to 12 weeks duration in which patients were dosed in a range of 10 to 60 mg/day or among patients with social anxiety disorder on *Paxil* who participated in placebo-controlled trials of 12 weeks duration in which patients were dosed in a range of 20 to 50 mg/day, asthemia, abdominal pain, chest pain, back pain, chills, trauma, vaso-dilation, paloitation, sweating, rash, nause, dry mouth, constipation, diarhea, decreased appetite, dyspepsia, flatulence, increased appetite, vomiting; myalgia; increased appetite, insomnia, somolence, diziness, tremor, nervousness, libido decreased, aguation, anxiety, abnormal dreams, concentration inpaired, depersonalization, mycclonus, amnesia, minits, plaryngiits, yawn, abnormal vision, faste perversion, abnormal ejaculation, dys-menorthea, female genital disorder, impotence, urinary frequency, uniation impaired, urinary tract infection.

Studies in depression show a clear dose dependency for some of the more common adverse event sasciated with *Paxil* use. There was evidence of adaptation to some adverse events with continued *Paxil* therapy (e.g., nau-sea and dizziness). Significant weight loss may be an undesirable result of *Paxil* treatment for some patients but, on average, patients in controlled trials had minimal (about 1 b) loss. In placebo-controlled clinical trials, *Paxil* treated patients exhibited abnormal values on liver function tests no more frequently than placebo-treated patients

In placebo-controlled clinical trials involving more than 1,800 patients with depression, OCD, panic disorder or social anxiety disorder, the following incidences of untoward sexual experiences for patients receiving Paxi/ were reported, varying with the disease state. In males: decreased libido (6% to 14%), ejaculatory (13% to 24%), importence (2% to 8%), in females: decreased libido (1% to 9%), orgasmic disturbance (2% to 9%). The reported incidence of each of these adverse events was <5% among male and female patients receiving placebo

Context Events Deserved During the Premarketing Evaluation of Pexil: During premarketing assessment in depression multiple doses of Paxil were administered to 6,145 patients in phase 2 and 3 studies. During pre-marketing clinical trials in DCD, panic disorder, and social anxiety disorder, 542, 469, and 522 patients, respec-tively, received multiple doses of Paxil. The following adverse events were reported. Note: "frequent" = events occurring in at least 1/100 patients; "infrequent" = 1/100 to 1/1000 patients; "rare" = less than 1/1000 patients. Events are classified within body system categories and enumerated in order of decreasing frequency using the burd officients. It is increasing that athough the aveta secured during Pavil treatment, they above definitions. It is important to emphasize that although the events occurred during *Paxil* treatment, they were not necessarily caused by it.

Were not necessarily caused by it. Body as a Whole: frequent: chills, malaise; infrequent: allergic reaction, face edema, neck pain; rare: adrener-gic syndrome, cellulitis, moniliasis, neck rigidity, pelvic pain, peritonitis, ulcer. Cardiovascular System: fre-quent, hypertension, syncope, tachycardia, infrequent: bradycardia, hematoma, hypotension, migraine, rare: angina pectoris, arrhythmia nodai, atrial fibrillation, bundle branch block, cerebral ischemia, cerebrovascular accident, congestive heart failure, heart block, low cardiac output, myocardial infarct, myocardial ischemia, cerebrovascular hor, phiebitis, pulmonary emobuls, supraventricular extrasystoles, thrombophebitis, thrombosis, varicose vein, vascular headache, ventricular extrasystoles, **Digestive System:** infrequent: bruxism, colitis, dysphagia, eruc-tation, paetritis, pastynetritis, palsynetricular extrasystoles, thromade singliane, in a supraventicular extra accident, congestive heart faiure, heart block, low cardiac output, myocardial infarct, myocardial ischemia, pal-lor, phiehitis, pulmonary embolus, supraventricular extrasystoles. Intrombophisvitis, thrombosis, varicese vein, vascular headache, ventricular extrasystoles. Digestive System: infraquent: bruxism, collisi, dysphagia, eruc-tation, gastritis, gastroenteritis, gingivitis, glossitis, increased salivation, liver function tests abnormal, rectal hemorrhage, ulcerative stomattits; *rare*: aphthous stomattitis, bloody diarrhea, bulimia, cholelithiasis, duodenitis, enteritis, esophagitis, fecal impactions, fecal incontinence, gum hemorrhage, hematemesis, hepatitis, ileus, intestinal obstruction, jaundice, melena, mouth ulceration, peptic ulcer, salivary gland enlargement, stomach ulcer, stomattits, tongue discoloration, tongue edema, toth caries. Endocrine System: *rare*: diabetes mellitus, hyperthyrioidism, hypothyronidism, thrombocythermia, thrombocytopenia, Metabolic and Nutritional: fraquent: aemia, essinophilia, leukocytosis, leukopenia, lymphadenopathy, purpura; *rare*: abnormal enythrocytes, microsytic anemia, mon-cytosis, normocytic anemia, hrombocythermia, thrombocytopenia, Metabolic and Nutritional: fraquent: weight gain, weight loss; *infrequent*: alkaline phosphatase increased, dema, peripheral edema, SGOT increased, SGPT increased, fluit incinennia, BUN increased, creatinine phosphokinase increased, dehydrogenase increased. Musculoskeletal System: frequent: arthralgia; *infrequent*: arthritis; *rare*: arthrosis, bursitis, myositis, osteo-protisis, generalized spasm, tenosynovitis, tetary. Nervous System: frequent: annesia, CNS stimulation, con-centration impaired, depression, emotion, lako di emotion, libido increased, maire eaction, neurosis, paralysis, paranoid reaction, psychosis; *rare* abnormal gait, akinesia, euphorta, hallucinations, hostility, hyperkinesia, hypertonia, hypesthesia, convulsion, hyperalgesia, hysteria, manic-depressive reaction, meningitis, myelitis, neural-gia, neuro hemorrhage.

Demorrhage. Postmarketing Reports Voluntary reports of adverse events that have been received since market introduction and not listed above that may have no causal relationship with *Paxil* include—acute pancreatitis, elevated liver function tests (the most severe cases were deaths due to liver necrosis, and grossly elevated transaminases associated with severe liver dysfunction), Guillain-Barre's yndrome, toxic epidermal necrolysis, prioripism, syndrome of inappropriate ADH secretion, symptoms suggestive of prolactinemia and galactorrhea, neuroleptic malignant syndrome-like events; extrapyramidal symptoms which have included akathisia, bradykinesia, cogwheel rigidity, dystonia, hypertonia, oculogytic crisis (which has been associated with concomitant use of pimozide), tremor and trismus, serotonin syndrome, associated in some cases with concomitant use of serotonergic drugs and with drugs which may have impared *Paxil* metabolism (symptoms have included agitation, confusion, diaphoresis, hallucinations, hyper-reflexia, myoclonus, shivering, tachycardia and tremor), status epilepticus, acute renal failure, pulmonary hyper-reflexia, myoclonus, shivering, tachycardia and tremor), status epilepticus, acute renal failuce, pulmonary hyper-reflexia, myoclonus, shivering, tachycardia and termor), status epilepticus, acute renal failuce, pulmonary hyper-reflexia, myoclonus, shivering, tachycardia and termor), status epilepticus, acute renal failuce, pulmonary hyper-resion, allergic alveolitis, anaphylaxis, eclampsia, larynopenia, hemolytic anemia, and events related to impaired hematopoiesis (including aplastic anemia, pancytopenia, hone marrow aplasia and agranulocyto sub has dizziness, sensory disturbances, agitation or anxiety, nausea and sweating; these events are generally self-limiting. There has been a report of an elevated phenytoin level after 4 weeks of *Paxil* and phenytoin co-administration, and a report of severe hypotension when *Paxil* was added to chronic metoprolol treatment.

DRUG ABUSE AND DEPENDENCE: Controlled Substance Class: Paxil is not a controlled substance. Evaluate patients carefully for history of drug abuse and observe such patients closely for signs of Paxil misuse or abuse (e.g., development of tolerance, incrementations of dose, drug-seeking behavior).

#### BRS-PX:L18

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depression

I CAN SEE MY FUTURE



I CAN TASTE SUCCESS

panic disorder

social anxiety disorder



000

Most common adverse events (incidence of 5% or greater and incidence for *Paxil* at least twice that for placebo) in depression, OCD, panic disorder or social anxiety disorder studies include asthenia, sweating, nausea, dry mouth, constipation, decreased appetite, somnolence, dizziness, insomnia, libido decreased, tremor, nervousness, yawn, abnormal ejaculation, female genital disorders and impotence. Concomitant use of *Paxil* in patients taking monoamine oxidase inhibitors (MAOIs) is contraindicated.

For more information, visit www.paxil.com. Please see brief summary of prescribing information adjacent to this advertisement.

PX4338B





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THE ANXIOLYTIC ANTIDEPRESSANT

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# Custom-tailored In two 6- to 8-week placebo-controlled clinical trials, sponta-

neously reported, treatment-emergent adverse events with an incidence of 5% or greater in at least one of the **RISPERDAL** groups and at least twice that of placebo were: anxiety, somnolence, extrapyramidal symptoms, dizziness, constipation, nausea, dyspepsia, rhinitis, rash, and tachycardia.

EPS with RISPERDAL, while dose-dependent, are comparable to placebo at doses ≤6 mg/day and differ significantly from placebo at doses >6 mg/day. Prescribing should be consistent with the need to minimize the risk of tardive dyskinesia; if its signs and symptoms appear, discontinuation of RISPERDAL should be considered.

Orthostatic hypotension was reported infrequently (<1%) in clinical trials; its risk may be minimized by following the recom-mended RISPERDAL dose titration regimen.

Reference: 1. IMS America, 12/99.

Please see brief summary of Prescribing Information on adjacent page.

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## Fitted to everyone



## from young adults



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\*Patients who are elderly or who are renally or hepatically impaired.



01-RS-708 July 2000













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INSPERDAL® (risperidone) is indicated for the management of the manifes-tations of psychotic disorders.

CONTRAINDICATIONS RISPERDAL<sup>®</sup> (risperidone) is contraindicated in patients with a known hyper-sensitivity to the product.

#### WARNINGS

WARNINGS Neuroleptic Malignant Syndrome (NMS) A potentially fatal symptom complex sometimes referred to as Neuroleptic Malignant Syndrome (NMS) has been reported in association with antipsy-todic drugs. If a patient requires antipsychotic drug treatment after recovery from NMS, the potential reintroduction of drug therapy should be carefully considered. The patient should be carefully monitored, since recurrences of NMS have been reported.

Tartive Dystinesia A syndrome of potentially irreversible, involuntary, dyskinetic movements may develop in patients treated with antipsychotic drugs. Whether antipsychotic drug products differ in their potential to cause tardive dyskinesia is unknown.

drug products differ in their potential to cause tardive dyskinesia is unknown. If signs and symptoms of tardive dyskinesia appear in a patient on RISPERDAL®, drug discontinuation should be considered. However, some patients may require treatment with RISPERDAL® despite the presence of the syndrome. **Potential for Proerhythmic Effects:** Rispenidone and/or 9-hydroxyrisperi-done appears to lengthen the QT interval in some patients, although there is no average increase in treated patients, even at 12-16 mg/day, well above the recommended dose. Other drugs that prolong the QT interval have been associated with the occurrence of torsades de pointes, a life-threatening arrythmia. Bradycardia, electrolyte imbalance, concomitant use with other drugs that prolong QT, or the presence of congenital prolongation in QT can increase the risk for occurrence of this arrhythmia.

#### PRECAUTIONS

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% (8/2607) of RISPERDAL® treated patients in phase 2-3 studies. The risk of orthostatic hypotension and syncope may be minimized by limiting the initial dose to 2 mg total (either OD or 1 mg BID) in normal adults and 0.5 mg BID in the elderty and patients with renal or hepatic impairment (See DOSAGE AND ADMINISTRATICN). Monitoring of orthostatic vital signs should be considered in patients for whom this is of concern. A dose reduction should be considered in patients with known cardiovascular diseases (history of myccardial infarction or schemia, heart failure, or conduction abnormatilies), 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 antihypotension medication. Setzures: RISPERDAL® should be used cautiously in patients with a history of

Seizures: RISPERDAL® should be used cautiously in patients with a history of

Dysphagia: 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 Alzheimer's dementia. RISPERDAL\* and other antipsychotic drugs should be used cautiously in patients at risk for aspiration pneumonia.

Aspharoto prediction and the second prediction persists during chronic administration. Neither clinical studies nor epidemiologic studies conducted to date have shown an association between chronic administration of this class of drugs and tumorigenesis in humans; the available evidence is considered too limited to be conclusive at this time.

Potential for Cognitive and Notor Impairment: Somnolence was a commonly reported adverse event associated with RISPERDAL® treatment, especially when ascertained by direct questioning of patients. This adverse event is dose related. Patients should be cautioned about operating hazardous machinery, including automobiles, until they are reasonably certain that RISPERDAL® therapy does not affect them adversely.

#### Priapism: Rare cases of priapism have been reported.

Preparin: Pare cases of pragistim new been reported.
Thrombotic Thrombocytopenic Purpure (TTP): A single case of TTP was reported in a 28 year-old female patient receiving RISPERDAL® in a large, open premarketing experience (approximately 1300 patients). She experienced after receiving plasmapheresis. The relationship to RISPERDAL® therapy is unknown.

Antiemetic effect: Rispericone has an antiemetic effect in animals; this effect may also occur in humans, and may mask signs and symptoms of over-dosage with certain drugs or of conditions such as intestinal obstruction, Reys's syndrome, and brain tumor.

Body Temperature Regulation: Disruption of body temperature regulation has been attributed to antipsychotic agents. Caution is advised when prescribing for patients who will be exposed to temperature extremes.

Suicide: The possibility of a suicide attempt is inherent in schizophrenia, and close supervision of high risk patients should accompany drug therapy.

Use in Patients with Concomitant Illness: Clinical experience with Imited Caution is advisable in using RISPERDAL® in patients with diseases imited. Caution is advisable in using RISPERDAL® in patients with diseases or conditions that could affect metabolism or hemodynamic responses.

Because of the risks of orthostatic hypotension and QT prolongation, caution should be observed in cardiac patients (See WARNINGS and PRECAUTIONS). Increased plasma concentrations of risperidone and 9-hydroxyrisperidone occur in patients with severe renal impairment and in patients with severe hepatic impairment. A lower starting dose should be used in such patients. Information for Patients

Physicians are advised to consult full prescribing information to review issues to be discussed with patients for whom they prescribe RISPERDAL®.

to be discussed with patients for whom they prescribe HISPERIDAL®. **Drug Interactions** The interactions of RISPERIDAL® and other drugs have not been systemati-cally evaluated. Given the primary CNS effects of risperidone, caution should be used when RISPERDAL® is taken in combination with other centrally acting drugs and alcohol. RISPERDAL® may antagonize the effects of levodopa and dopamine agonists. Chronic administration of carbamazepine with risperidone may increase the clearance of nisperidone. Chronic administration of clozapine with risperidone may decrease the clearance of risperidone.

Fluoxetine may increase the plasma concentration of the anti-psychotic fraction (risperidone plus 9-hydroxyrisperidone) by raising the concentration of risperi-done, although not the active metabolite, 9-hydroxyrisperidone.

Drugs that Inhibit Cytochrome P\_IID, and Other P\_ teozymes: Risperidone is metabolized to 9-hydroxyrisperidone by cytochrome P\_IID, an enzyme that is polymorphic in the population and that can be inhibited by a variety of psychotropic and other drugs (See CLINICAL PHARMACOLOGY). Drug inter-actions that reduce the metabolism of risperidone to 9-hydroxyrisperidone the metabolism of risperidone to 9-hydroxyrisperidone and the metabolism of risper actions that reduce the metabolism of insperiodne to 9-hydroxyrisperiodne would increase the plasme concentrations of insperiodne 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  $P_{\rm sc}$  isozymes, including 1A1, 1A2, IIC9, MP, and IIIA4, are only weak inhibitors of risperidone metabolism.

The second secon

Common use expectation are not available. Carchicogenesis, Mutagenesis, Impairment of Fertility Carchicogenesis: Carcinogenicity studies were conducted in Swiss albino mice and Wistar rats. Rispendone was administered in the del at doses of 0.63, 2.5, and 10 mg/kg for 18 months to mice and for 25 months to rats. These doses are equivalent to 2.4, 9.4 and 37.5 times the maximum human dose (16 mg/day) on equivalent to 2,4, 9,4 and 3,5 unless the maximum human cose (16 imgray) on a mg/kg basis or 0,2, 0,75 and 3 times the maximum human dose (mice) or 0,4,15, and 6 times the maximum human dose (rats) on a mg/m basis. There were statistically significant increases in philitary gland adenomas, endocrine pancreas adenomas and mammary gland adenocarcinomas.

These findings are considered to be prolactin medicated. The relevance for human risk of the findings of prolactin-mediated endocrine tumors in rodents is unknown (See Hyperprolactinemia under PRECAUTIONS, GENERAL). Mutagenesis: No evidence of mutagenic potential for rispendone was found.

Impliment of Fertility: Risperidone (0.16 to 5 mg/kg) was shown to impair mating, but not fertility, in Wistar rats in three reproductive studies at doses 0.1 to 3 times the maximum recommended human dose on a mg/m<sup>2</sup> basis. Pregnancy

Pregnancy Category C: There are no adequate and well-controlled studies in pregnant women.

RISPERDAL\* should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus

Labor and Delivery The effect of RISPERDAL® on labor and delivery in humans is unknown.

Nursing Mothers It is not known whether or not risperidone is excreted in human milk. Women receiving RISPERDAL<sup>9</sup> should not breast feed.

Padiatric Lise

Safety and effectiveness in children have not been established.

Geriatric Use

Clinical studies of RISPERDAL<sup>®</sup> did not include sufficient numbers of patients Clinical studies of RISPERDAL® did not include sufficient numbers of patients aged 65 and over to determine whether they respond differently from younger patients. Other reported clinical experience has not identified differences in responses between eldenty and younger patients. In general, a lower starting dose is recommended for an eldenty patient, reflecting a decreased pharmacokinetic clearance in the eldenty, 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). While eldenty patients exhibit a greater tendency to orthostatic hypotension, its nsk in the eldenty 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 nown to be substantially experted by the kidney, and the rick

This drug is should be closkeed in patients for which rules is of concern. This drug is known to be substantially excreted by the kidney, and the risk of toxic reactions to this drug may be greater in patients with impaired renal function, are should be taken in does selection, and it may be useful to monitor renal function (See DOSAGE AND ADMINISTRATION).

#### ADVERSE REACTIONS

Associated with Discontinuation of Treatment Approximately 9% percent (244/2607) of RISPERDAL® (risperidone)-treated patients in phase 2-3 studies discontinued treatment due to an adverse event, patients in prices 2-3 studies discontinued realment due to an adverse evenin, compared with about 7% on placebo and 10% on active control drugs. The more common events (2.0.3%) associated with discontinuation and considered to be possibly or probably drug-related included: extrapyramidal symptoms, dizziness, hyperkinesia, somnolence, and nausea.

Incidence in Controlled Trials Commonly Observed Adverse Events in Controlled Clinical Trials: In two 6 - to 8-week placebo-controlled trials, spontaneously-reported, treatment-emergent adverse events with an incidence of 5% or greater in at least one of the RISPERDAL® groups and at least twice that of placebo were: anxiety, somnolence, extrapyramidal symptoms, dizziness, constipation, nausea, dyspepsia, rhinitis, rash, and tachycardia.

Adverse events were also elicited in one of these two trials (i.e., in the fixed-dose trial comparing RISPERDAL<sup>®</sup> at doses of 2, 6, 10, and 16 mg/day with placebo) utilizing a checklist for detecting adverse events, a method that is more sensitive than spontaneous reporting. By this method, the following additional common and drug-related adverse events were present at least 5% additional common and outgradeau advise events are present areas of a and twice the rate of placebo: increased dream activity, increased duration of sleep, accommodation disturbances, reduced salivation, micturition distur-bances, diarrhea, weight gain, menorrhagia, diminished exclude losse, erectile dysfunction, ejaculatory dysfunction, and orgastic dysfunction.

aysinication, ejacuatory dystinication, and organic dystinication. The following adverse events occurred at an incidence of 1% or more, and were at least as frequent among RISPERDAL<sup>●</sup> treated patients instreated at doses of ≤10 mg/day than among placebo-treated patients in the pooled results of two 6- to 8-week controlled trials: *Psychiatric Disorders*: insomnia, agitation, anxiety, somnolence, aggressive reaction. *Nervous System*: extrapyramidal symptoms', headache, dizziness. *Gastrointestinal System*: Exitally annual symptoms, neductore, uzznies, usariumnestinal system; constipation, nausea, dyspessia, vomiting, abdominal pain, saliva increased, toothache. Respiratory System: rhinitis, coughing, sinusitis, pharyngils, dyspnea. Body as a Whole: back pain, chest pain, fever. Cermatological: rash, dry skin, seborrhea. Infactions: upper respiratory. Visual: abnormal vision. Musculo-Skeletal: arthralgia. Cardiovascular: tachycardia.

Includes tremor, dystonia, hypokinesia, hypertonia, hyperkinesia, oculogyric crisis, ataxia, abnormal gait, involuntary muscle contractions, hyporeflexia, akathisia, and extrapyramidal disorders.

axamisa, and extrapyramical docers. Dose Dependency of Advarse Events: Data from two fixed dose trials provided avidence of dose-relatedness for extrapyramidal symptoms associated with risperidone treatment. These symp-toms include: steepiness, increased duration of steep, accommodation disturbances, orthostatic disziness, papitations, weight gain, erectile dysfunction, ejaculatory dysfunction, orgastic dysfunction, asthenia/lassitude/increased fatiguability, and increased pigmentation. *Wet Stem Chargens* PISPEDNU is in accorded with extended in the interval

Vital Sign Changes: RISPERDAL® is associated with orthostatic hypotension and tachycardia (See PRECAUTIONS).

Weight Changes: A statistically significantly greater incidence of weight gain for RISPERDAL® (18%) compared to placebo (9%).

Laboratory Changes: A between group comparison for 6- to 8-week placebo-controlled trials revealed no statistically significant RISPERDAL®/placebo differences in the proportions of patients experiencing potentially important

changes in routine serum chemistry, hematology, or urinalysis parameters. Similarly, there were no RISPERDAL®/placebo differences in the incidence of discontinuations for changes in serum chemistry, hematology, or urinalysis. However, RISPERDAL® administration was associated with increases in serum prolactin (See PRECAUTIONS).

Serum protection (See PHECAUTIONS). ECG Changes: The electrocardiograms of approximately 380 patients who received RISPERDAL® and 120 patients who received placebo in two double-blind, placebo-controlled trials were evaluated and revealed one finding of potential concern; i.e., 8 patients taking RISPERDAL® whose baseline QTc interval was less than 450 msec were observed to have QTc intervals greater than 450 msec during treatment (See WARNINGS). Changes of this type were not seen among about 120 placebo patients, but were seen in patients receiving haloperidol (3/126).

Other Events Observed During the Pre-Marketing Evaluation of RISPERDAL®

RISPERDAL\* During its premarketing assessment, multiple doses of RISPERDAL\* (risper-done) were administered to 2607 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:, Irrequent adverse events are those occurring in 1/100 to 1/1000 patients; rare events are those occurring in fewer than 1/1000 patients. It is important to emphasize that, although the events reported occurred during treatment with RISPERDAL\*, they were not neces-sarily caused by it.)

Psychiatric Disorders: Frequent: increased dream activity\*, diminished sexual distret, nervousness. Introguent: impaired concentration, during minuted studies desiret, nervousness. Introguent: impaired concentration, depression, apathy, catatonic reaction, euphoria, increased libido, amnesia. Rare: emotional lability, nightmares, delirium, withdrawal syndrome, yawning.

Ingrinitates, central multicated spinotine, parning, Central and Peripheral Nervous System Disorders: Frequent: increased sleep duration<sup>1</sup>. Infrequent: dysarthria, vertigo, stupor, paraesthesia, confusion. Rare: aphasia, cholinergic syndrome, hypoesthesia, tongue paralysis, leg cramps, toricollis, hypotonia, coma, migraine, hyperreflexia, chreoathetosis.

cramps, toructilis, hypotonia, comis, imprante, hypernetikala, chorecalaretoss. Gastro-intestinal Disorders: Frequent: anorexia, reduced salivation'. Infrequent: flatulence, diarrhea, increased appetite, stomatilis, melena, dysphagia, hemorrhoids, gastrilis. Pare: fecal incontinence, eructation, gastro-esophagea I reflux, gastroenteritis, esophagitis, tongue discoloration, choleiithasis, tongue edema, diverticulitis, gingivitis, discolored feces, Gi hemorrhage, hematemesis.

Body as a Whote/General Disorders: Frequent: fatigue. Infrequent: edema, rigors, malaise, influenza-like symptoms. Rare: pallor, enlarged abdomen, allergic reaction, ascites, sarcoidosis, flushing.

Respiratory System Disorders: Infrequent: hyperventilation, bronchospasm, pneumonia, stridor. Rare: asthma, increased sputum, aspiration.

Skin and Appendage Disorders: Frequent; increased giomentation\*, photo-sensitivity\* Infrequent: increased sweating, acne, decreased sweating, alopecia, hyperkeratosis, pruntus, skin extoliation. Fare: bullous eruption, skin uccration, agarvated psoriasis, furunculosis, verruca, dermalitis lichenoid, hypertrichosis, genital pruntus, urticaria.

Cardiovascular Disorders: Infraquent: palpitation, hypertension, hypotension, XV block, myocardial infrarction. Rare: ventricular tachycardia, angina pectoris, premature atrial contractions, T wave inversions, ventricular extrasystoles, ST depression, myocarditis.

Vision Disorders: Infrequent: abnormal accommodation, xerophthalmia. Rare: diplopia, eye pain, blepharitis, photopsia, photophobia, abnormal lacrimation

Metabolic and Nutritional Disorders: Infrequent: hyponatremia, weight increase, creatine phosphokinase increase, thirst, weight decrease, diabetes mellitus. Rare: decreased serum iron, cachexia, dehydration, hypokalemia, hypoproteinemia, hyperphosphatemia, hypertriglyceridemia, hyperuricemia, hypoglycemia.

Urinary System Disorders: Frequent: polyuria/polydipsia\*. Infrequent: urinary incontinence, hematuria, dysuria. Rare: urinary retention, cystitis, renal insufficiency.

Musculo-skeletal System Disorders: Infrequent: myaloia. Flare: arthrosis. synostosis, bursitis, arthritis, skeletal pain.

Reproductive Disorders, Female: Frequent: menorrhagia<sup>\*</sup>, orgastic dys-function<sup>\*</sup>, dry vagina<sup>\*</sup>. Infrequent: nonpuerperal lactation, amenorrhea, female breast pain, leukorrhea, massitis, dysmenorrhea, female perineal pain, inter-menstrual bleeding, vaginal hemorrhage.

Liver and Billiary System Disorders: Infrequent: increased SGOT, increased SGPT. Rare: hepatic failure, cholestatic hepatitis, cholecystilis, cholelithiasis, hepatitis, hepatocellular damage.

Platelet, Bleeding and Clotting Disorders: Infrequent: epistaxis, purpura. Rare: hemorrhage, superficial phlebitis, thrombophlebitis, thrombocytopenia. Hearing and Vestibular Disorders: Bare: tippitus, hyperacusis, decreased

Red Blood Cell Disorders: Infrequent: anemia, hypochromic anemia. Rare:

normocytic anemia. Reproductive Disorders, Male: Frequent: erectile dysfunction\*. Infrequent: eiaculation failure.

White Cell and Resistance Disorders: Rare: leukocytosis, lymphadenopathy,

leucopenia, Pelger-Huet anomaly. Endocrine Disorders: Rare: gynecomastia, male breast pain, antidiuretic

hormone disorder

#### Special Senses: Rare: bitter taste.

Incidence based on elicited reports.

\* Incidence based on elicited reports. Postintroduction Reports: Adverse events reported since market intro-duction which were temporally (but not necessarily causally) related to RISPERDAL® therapy, include the following: anaphylactic reaction, angio-edema, apnea, attial fibrillation, corebrovascular disorder, diabetes mellitus aggravated, including diabetic ketoacidosis, intestinal obstruction, jaundice, maria, pancreatitis, Parkinson's disease aggravated, pulmonally embolism. There have been rare reports of sudden death and/or cardiopulmonary arrest in patients receiving RISPERDAL®. A causal relationship with RISPERDAL has not been established. It is important to note that sudden and unexpected death may occur in psychotic patients whether they remain untreated or whether they are treated with other antipsychotic drugs. Delica AglIES ADN DEPENDENCE

DRUG ABUSE AND DEPENDENCE Controlled Substance Class: RISPERDAL® (risperidone) is not a controlled substance

For information on symptoms and treatment of overdosage, see full prescribing information.

More detailed professional information is available upon request

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July 1998, May 1999





# Reminyl<sup>®</sup> galantamine HBr Tablets

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