POLICY & PRACTICE

New ADHD Society

The American Professional Society of ADHD and Related Disorders (AP-SARD) made its debut in June. The Mt. Royal, N.J.-based society says it is the first devoted to ADHD and aims to improve quality of care, boost research, and disseminate best practices. The organization is also launching the quarterly peer-reviewed Journal of ADHD and Related Disorders. The board of directors includes Dr. Ronald Kessler of Harvard Medical School and Dr. Joseph Biederman, chief of the adult ADHD program at Massachusetts General Hospital. Dr. Biederman has been under fire from Sen. Chuck Grassley (R-Iowa) for alleged failures to disclose conflicts of interest. According to APSARD Executive Director Gene Terry, the society expects to fund the majority of its activities from journal subscriptions, advertising, and membership dues, and it will accept industry support for independent continuing medical education.

Raising Childhood Stroke Profile

Two members of Congress want people to realize that children are at risk of strokes too. Rep. John Boozman (R-Ark.) recently introduced House Resolution 451, and Sen. Robert P. Casey, Jr. (D-Pa.) offered Senate Resolution 163 in support of a National Childhood Stroke Awareness Day. The resolutions state that each year, strokes occur in 26 out of every 100,000 newborns and nearly 3 out of every 100,000 children overall-and that stroke is among the top 10 causes of death for children in the United States.

Neurologic Disease Registries

A small bipartisan group of lawmakers is proposing to create national registries of Parkinson's disease, multiple sclerosis, and other neurological diseases in an effort to find better treatments. At a minimum, lawmakers say, the registries should provide more accurate information on the incidence and prevalence of these neurological diseases. "In order to gain a better understanding of these diseases, doctors and researchers must have as much information in their hands as possible," Sen. Byron Dorgan (D-N.D.), one of the bill sponsors, said in a statement. Currently there are only small and uncoordinated registries, surveillance systems, and databases around the world. The registries would collect information on age, race or ethnicity, gender, military service, and family history.

INDEX OF **ADVERTISERS**

Bayer HealthCare Pharmaceuticals Inc.	
Betaseron	3-4
Forest Laboratories, Inc.	
Namenda	4a-4b
GlaxoSmithKline:	
PODCAST: Developments in Migraine Therapy	7
Pfizer Inc.	
Aricept	15-16
UCB, Inc.	
Vimpat	9-12

NIH Targets Rare Diseases

The National Institutes of Health has created a pipeline for drugs to treat rare and neglected diseases. This spring, Congress provided \$24 million for the program, which focuses on collaborations among NIH researchers in these areas. The initiative is supposed to go beyond the Orphan Drug Act by offering support for preclinical research and product development. For products coming out of the program with an Investigational New Drug designation from the Food and

Drug Administration, NIH will seek private companies to carry out testing with patients. The program "will develop promising treatments for rare diseases to the point that they are sufficiently 'derisked' for pharmaceutical companies, disease-oriented foundations, or others to undertake the necessary clinical trials," Dr. Alan E. Guttmacher, acting director of NIH's National Human Genome Research Institute, said in a statement.

Vermont Bans Most Pharma Gifts

Vermont Gov. Jim Douglas (R) has signed into law a bill that prohibits manufactur-

ers of drugs, medical devices, and biologics from providing free gifts to physicians and other health care providers. It also requires disclosure of any allowed gifts or payments, regardless of their value. Manufacturers can give physicians only gifts such as samples intended for patients, "reasonable quantities" of medical device evaluation or demonstration units, and copies of peer-reviewed articles. They still can provide scholarships or other support for medical students, residents, and fellows to attend educational events held by professional associations.

-Mary Ellen Schneider

Brief Summary—see package insert for full prescribing information.
ARICEPT* (Donepezil Hydrochloride Tablets)
ARICEPT* ODT (Donepezil Hydrochloride) Orally Disintegrating Tablets
INDICATIONS AND USAGE ARICEPT* is indicated for the treatment of dementia of the Alzheimer's type. Efficacy has been rated in patients with mild to moderate Alzheimer's Disease, as well as in patients with severe Alzheimer's Disease. CONTRAINDICATIONS ARICEPT® is contraindicated in patients with known hypersensitivity to donepezil hydrochloride or to piperidine derivatives. WARNINGS Anesthesia: 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 vagotonic effects on the sinoatrial and atrioventricular nodes. This effect may manifest as bradycardia or heart block in patients both with and without known underlying cardiac conduction abnormalities. Syncopal episodes have been reported in association with the use of ARICEPT®. *Gastrointestinal Conditions:* Through their primary action, cholinesterase inhibitors may association with the each reflect in Casa trainest and Continuous in Indigit the primary action, indivines ease minimized association be expected to increase gastric acid secretion due to increased chilolinergic 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 people ulcer disease or gastrointestinal bleeding. ARICEPT*, as a predictable consequence of its pharmacological properties, has been shown to produce diarrhea, nausea and vomiting. These a predictate consequence or its prarmacological properties, has been snown to produce grarmae, nause and vomining. Interesticate, when they occur, appear more frequently with the 10 mg/day dose than with the 5 mg/day dose than with the 5 mg/day dose than with the 5 mg/day dose. In most cases, these effects have been mild and transient, sometimes lasting one to three weeks, and have resolved during continued use of ARICEPT*. Centitourinary: Although not observed in clinical trials of ARICEPT*, 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 Atzheimer's Disease. Pulmonary Conditions: Because of their cholinomimetic actions, cholinosterase inhibitors should be prescribed with care to patients with a history of asthma or obstructive. bulmonary disease. PRECAUTIONS Drug-Drug Interactions (see Clinical Pharmacology: Clinical Pharmacokinetics: Drug-drug Interactions). Effect of ARICEPT* on the Metabolism of Other Drugs: No in vivoclinical 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, about 50-130 µM), that, given the therapeutic plasma concentrations of donepezil (164 nM), indicates little likelihood of interference. Whether ARICEPT* has any potential for enzyme induction is not known. Formal pharmacokinetic studies evaluated the potential of ARICEPT® for interaction with theophylline induction is not known. Formal pharmacoxinetic studies evaluated the potential of ARILLEP!* for interaction with meophysical crimetidine, wardarin, digoxin and ketoconazole kno effects of ARICEP!* on the pharmacokinetics of these drugs were observed. Effect of Other Drugs on the Metabolism of ARICEPT*: Ketoconazole and quinidine, inhibitors of CYP450, 3A4 and 2D6, respectively, inhibit donepsell metabolism in vitro. Whether there is a clinical effect of quinidine is not known. In a 7-day crossover study in 18 healthy volunteers, ketoconazole (200 mg q.d.) increased mean donepsezil (5 mg q.d.) concentrations (AUC₀₋₂₄ and C_{mu}) by 36%. The clinical relevance of this increase in concentration is unknown. Inducers of CYP 2D6 and CYP 3A4 (e.g., pheryloin, carbomazepine, dexamethasone, rifampin, and phenobarbital) could increase the rate of elimination of ARICEPT*. Formal pharmacokinetic studies of the control of the CYP 2D6 and CYP 3A4 (e.g., pheryloin, carbomazepine, dexamethasone, rifampin, and phenobarbital) could increase the rate of elimination of ARICEPT*. Formal pharmacokinetic studies. demonstrated that metabolism of ARICEPT* is not significantly affected by concurrent administration of digoxin or cimetition. *Use with Anticholinergics*: Because of their mechanism of action, cholinesterase inhibitors have the potential to interfere with the activity of anticholinergic medications. *Use 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 agonists such as bethanechol. Carcinogenesis, Mutagenesis, Impairment of Fertility No evidence of a or crioniletgic agonisis such as derialection. Carcinogenesis, mutagenesis, impartment or remnity no evidence or a carcinogenic potential was obtained in an 88-week carcinogenicity study of donepezil hydrochloride conducted in CD-1 mice at doses up to 180 mg/kg/day (approximately 90 times the maximum recommended human dose on a mg/m² basis), or in a 104-week carcinogenicity study in Sprague-Dawley rats at doses up to 30 mg/kg/day (approximately 30 times the maximum recommended human dose on a mg/m² basis). Donepezil was not mutagenic in the Ames reverse mutation assay in vatiro. In the chromosome aberration test in cultures of Chinese hamster lung (CHL) cells, some clastogenic effects were observed. Donepezil was not clastogenic in the *in vivo* mouse micronucleus test and was not genotoxic in an *in vivo* unscheduled DNA synthesis assay in rats. Donepezil had no effect on fertility in rats at doses up to 10 mg/kg/day (approximately 8 times the Divide Syminesis assay in rais. Dividear had no effect of retining in rais at doses up to 1 ornigragualy approximately of times maximum recommended human dose on a mg/m² 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/m² basis) and in pregnant rabbits at doses up to 10 mg/kg/day (approximately 16 times the maximum recommended human dose on a mg/m² basis) did not disclose any evidence for a teratogenic potential 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/m² basis) from day 17 of gestation to To May Ago y approximately 3 units are maximum recommended unitar duse or a high rease) in the way 1 or greater 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 safety and efficacy of ARICEPT® in any illness occurring in children Use There are not acceptate and well-common trains to occument the statey and emicacy of ArticLPT* In any unless occuming in children Geriatric Use Arbeimer's disease is a discorder occurring primarily in individuals over 55 years of age. The mean age of the patients enrolled in the clinical studies with ARICEPT* was 73 years; 80% of these patients were between 65 and 84 years old and 49% of the patients were at or above the age of 75. The efficacy and safety data presented in the clinical trials section were obtained from these patients. There were no clinically significant differences in most adverse events reported by patient groups ≥65 years old and <65 years old. ADVERSE REACTIONS *Mild To Moderate Alzheimer's Disease Adverse Events* Leading to Discontinuation The rates of discontinuation from controlled clinical trials of ARICEPT* due to adverse events for the ARICEPT* 5 mg/day treatment group the patients. The properties of the ARICEPT* on the ARICEPT* on the ARICEPT* on the ARICEPT* on the patient of the patients. rates of discontinuation from controlled clinical trials of ANICEPT "due to averse events for the ANICEPT" in griday 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 (Placebo, 5 mg/day ARICEPT*, respectively); Patients Randomized (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 adverse events, defined as those occurring at a frequency of the few of the proposed requency of all east 5% in patients receiving 10 mg/day and twice the placebo rate, are largely predicted by ARICEPT*s collinomimetic effects. These include nausea, diarrhea, insomnia, vorniting, muscle cramp, fatigue and anorexia. These adverse events were often of mild intensity and transient, resolving during continued ARICEPT* 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 conducted with zoop patients with received placed of the 15 and 50-week studies. These patients were titlated to 10 mg/day over one week in the controlled clinical trials and were comparable to those seen in patients on 5 mg/day. See Table 2 for a comparison of the most common adverse events following one and six week titration regimens. Table 2. Comparison of rates of adverse events in patients titrated to 10 mg/day over 1 and 6 weeks (No titration: 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], respectively): Nausea (6%, 5%, 19%, 6%); Diarrhea (5%, 6%, 15%, 9%); Insomnia (6%, 6%, 14%, 6%); Fatigue (3%, 4%, 8%, 3%); Vomiting (3%, 3%, 8%, 5%); Muscle cramps (2%, 6%, 8%, 3%); Anorexia (2%, 3%, 7%, 3%) Adverse Events Reported in Controlled Trials The events cited reflect experience gained under closely monitored conditions of clinical trials in a highly selected patient population. In actual clinical practice or in other clinical trials, these frequency estimates may not apply, as the conditions of use, reporting behavior, and the kinds of clinical trials are actually as the conditions of use, reporting behavior, and the kinds of clinical trials. of patients treated may differ. Table 3 lists treatment emergent signs and symptoms that were reported in at least 2% of patients in placebo-controlled trials who received ARICEPT® and for which the rate of occurrence was greater for ARICEPT® assigned than placebo-controlled trials who received Artice!" and for which the rate of occurrence was greater for Artice!" assigned man 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 Mild to Moderate Alzheimer's Disease in at Least 2% of Patients Receiving ARICEPT* and at a Higher Frequency than Placebo-treated Patients (Body System/Adverse Event: Placebo [n=355], ARICEPT* [n=747], respectively]: Percent of Patients with any Adverse Event: 72, 74. Body as a Whole: Headache (9, 10); Pain, various locations (8, 9); Accident (6, 7); Faligue (3, 5). Cardiovascular System: Syncope

as a whole: readactic (9, 10); Pain, various locations (s, 9); Accident (c, 7); raigule; 6, 5). Cartinovascular System: System: Systems (12, 2) ilegative System: Nausae (6, 11); Darine (as, 6); Nonrexia (2, 4); Hemic and Lymphatic System: Ecchymosis (3, 4). Metabolic and Nutritional Systems: Weight Decrease (1, 3). Musculoskeletal System: Muscle Cramps (2, 6); Arthrifis (1, 2). Nervous System: Insomnia (6, 9); Dizziness (6, 8); Depression (<1, 3); Abnormal Dreams (0, 3); Somnolador (<1, 2). Utrogenital 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 6 months. Controlled and uncontrolled trials

in the United States included approximately 900 patients. In regards to the highest dose of 10 mg/day, this population includes 650 patients treated for 3 months, 475 patients treated for 6 months and 116 patients treated for over 1 year. The range of patient exposure is from 1 to 1214 days. Treatment emergent signs and symptoms that occurred during 3 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 events, the events were grouped into a smaller number of standardized categories using a modified COSTART dictionary and event frequencies were calculated across all studies. These of sariabused sategories using a modified COSTANT citization by all of even inequencies were calculated across an source. The 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*. All adverse events cocurring at least whose 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 necessarily related to ARICEPT® treatment and in most cases under observed at a similar frequency in placebo-treated patients in the controlled studies. No important additional adverse events were observed at a similar 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: angina pectoris, postural hypotension, myocardial infarction, AV block (first degree), congestive heart failure, arteritis, bradycardia, peripheral vascular disease, supraventricular tachycardia, deep vein thrombosis, Digestive System: Frequent: fecal incontinence vascular disease, supraventricular tachycardia, deep vein thrombosis. Digestive System: Prequent: lecal incontinent gastrointestinal bleeding, bleating, epigastric pain; Infrequent: eructation, gingivitis, increased appetile, flatulence, periodontal abscess, cholelithiasis, diverticulitis, drooling, dry mouth, fever sore, gastrist, irritable colon, tongue edema, epigastric distress, gastroenteritis, increased transaminases, hemorrhoids, fleus, increased thirst, jaundice, melena, polydipsia, duodenal ulcer, stomach ulcer. Endoerine System: Infrequent: diabetes mellitus, goiter. Hemic and Lymphatic System: Infrequent: anemia, thrombocythemia, thrombocytopenia, eosinophilia, erythrocytopenia. Metabolic and Nutritional Disorders: Frequent: dehydration; Infrequent: dysarthria, dysphasia, hostility, decreased libido, melancholia, emotional withdrawal, nystagmus, pacing. Respiratory System: togramma, dyspinasia, nostinity developation into mentantina, entonomia withoutam, nysignins, pacing, healing interpretation y dyseca, sore throat, bronchitis; infrequent: epistaxis, post nasal drip, pneumonia, hyperventilation, pulmonary congestion, wheezing, hypoxia, pharyngilis, pleurisy, pulmonary collapse, sleep apnea, snoring. Skin and Appendages: Frequent: pruntus, diaphoresis, urticaria; Infrequent: dermatitis, erythema, skin discoloration, hyperkeratosis, alopecia, fungal dermatitis, herpes zoster, hirsutism, skin striae, night sweats, skin ulcer. Special Senses: Frequent: cataract, eye irritation, vision blurred; Infrequent: dy eyes, glaucoma, earache, tinnitus, blepharitis, decreased hearing, retinal hemorrhage, otitis externa, otitis media, bad taste, conjunctival hemorrhage, ear buzzing, motion sickness, spots before eyes. **Urogenital System:** Frequent: urinary incontinence, nocturia Infrequent dysuria, hematuria, urinary urgency, metrorrhagia, cystitis, enuresis, prostate hypertrophy, pyelonephritis, inability to empty bladder, breast fibroadenosis, fibrocystic breast, mastifis, pyuria, renal failure, vaginitis. Severe Alzheimer's Disease Adverse Events Leading to Discontinuation: The rates of discontinuation from controlled clinical trials of ARICEPT[®] due to adverse events for the ARICEPT[®] patients were approximately 12% compared to 7% for placebo patients. The most common adverse events leading to discontinuation, defined as those occurring in at least 2% of ARICEPT® patients and at twice the incidence seen in placebo patients, were anorexia (2% vs 1% placebo), nausea (2% vs <1% placebo), diarrhea (2% vs 0% placebo), and urinary tract pladeout patients, wereannewa (2% or 8 1% pladeout), intalines (2% or 8 1% pladeout), and mine infection (2% or 1% pladeout), and mine infection (2% or 1% pladeout), and pladeout pladeou the need for dose modification. Adverse Events Reported in Controlled Trials Table 4 lists treatment emergent signs and symptoms that were reported in all least 2% of patients in placebo-controlled trials value 4 lists treatment energent stiple as symptoms that were reported in all least 2% of patients in placebo-controlled trials who received ARICEPT* and for which the rate of occurrence was greater for ARICEPT* assigned than placebo assigned patients. Table 4. Adverse Events Reported in Controlled Clinical Trials in Severe Alzheimer's Disease in at Least 2% of Patients Receiving ARICEPT* and at a Higher Frequency than Placebo-treated Patients (Body System/Adverse Event: Placebo [n=392], ARICEPT* [n=501], respectively): Percent of Patients with any Adverse Event: 73, 81. Body as a Whole: Accident (12, 13); [1.5] In-501], respectively): Percent of Patients with any Adverse Event: 73, 81. Body as a Whole: Accident (12, 13); Infection (9, 11); Headache (3, 4); Pain (2, 3); Back Pain (2, 3); Fever (1, 2); Chest Pain (<1, 2); Cardiovascular System: Hypertension (2, 3); Hemorrhage (1, 2); Syncope (1, 2), Digestive System: Diarrhea (4, 10); Vomiting (4, 8); Anorexia (4, 8); Nausea (2, 6). Hemic and Lymphatic System: Ecchymosis (2, 5). Metabolic and Nutritional Systems: Creatine Phosphokinase Increased (1, 3); Dehydration (1, 2); Hyperlipernia (<1, 2), Nervous System: Insormia (4, 5); Hostility (2, 3); Nervousness (2, 3); Hallucinations (1, 3); Somnolence (1, 2); Dizziness (1, 2); Depression (1, 2); Confusion (1, 2); Emotional Lability (1, 2); Personality Disorder (1, 2), Skin and Appendages: Eczerna (2, 3) Urogenital System: Urinary Incontrinence (1, 2) Other Adverse Events Observed During Clinical Trials ARICEPT* has been administered to over 600 patients with severe Alzheimer's Diseased during clinical trials of at least 6 months duration, including 3 double blind placebo controlled trials, one of which had an operation of the property of the part of the part of the part of the part of which had an operation of the part of the pa Disease during clinical rials of all least of norms duration, including 3 double brind placedo controlled trais, of neof with critical an open label extension. All adverse events occurring at least twice are included, except for those already listed in Table 4, COSTART terms too general to be informative, or events less likely to be drug caused. Events are classified by body system using the COSTART dictionary and listed using the following definitions: *frequent adverse events*—those occurring in at least 1/100 patients; *infrequent adverse events*—those occurring in 1/100 to 1/1000 patients. These adverse events are not necessarily related to ARICEPT™ treatment and The desired part of the de extrasystoles, cardiomegaly. Digestive System: Frequent: constipation, gastroenteritis, fecal incontinence, dyspepsia; Infrequent. gamma glutamyl transpeptidase increase, gastritis, dysphagia, periodontitis, stomach ulcer, periodontal abscess, flatulence, liver gramma gruanny maspirpulaces interases, gastrias, opphaga, perioronina, soninar incert, perioronina auscess, industriae, induction tests ahnormal, eructation, esophaghtis, rectal hemorrhage. Endocrine System: Infrequent: diabetes mellius, Hemic and Lymphatic System: Frequent: meight loss, peripheral edema, edema, lactic dehydrogenase increased, alkaline phosphatase increased; Infrequent: hypercholesteremia, hypokalemia, hypoglycemia, weight gain, bilirubinemia, BUN increased, Bundiciency anemia, cachexia, creatinine increased, gout, hyponatremia, hypoproteinemia, iron deficiency anemia, SGOT increased, SGPT increased. Musculoskeletal System: Frequent arthritis; Infrequent; arthrosis, bone fracture, arthralgia, leg cramps, osteoporosis, myalgia, Nervous System; Frequent; agitation arthritis; Infrequent: arthrosis, bone fracture, arthralgia, leg oramps, osleoporosis, myalgia. Nervous System: Frequent: agitation, anxiety, tremor, convulsion, wandering, abnormal gait; Infrequent: apathy, vertigo, delusions, abnormal dreams, cerebrovascular accident, increased salivation, ataxia, euphoria, vasodilatation, cerebral hemorrhage, cerebral infarction, cerebral ischemia, dementia, extrapyramidal syndrome, grand mal convulsion, hemiplegia, hypertonia, hypokinesia. Respiratory System: Frequent: phanyngitis, pneumonia, cough increased, bronchitis; Infrequent: dyspinea, thinitis, asthma. Skin and Appendages: Frequent: ash, skin ulcer, pruritus, Infrequent: psoriasis, skin discoloration, herpes zoster, dry skin, sweating, urticaria, vesiculobullous rash. Special Sensess Infrequent: organization disorder. Urogenital System: Frequent: urinary tract infection, cystitis, hemaluria, glycosuria; Infrequent: vaginitis, dysuria, urinary frequency, albuminuria. 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 there is inadequate data to determine the causal relationship with the drug include the following: abdominal noil, adiation, cholesystitis, confusion, consulsions, ballucipations, heart block full bress, hemobilic anemia heratitis. hypopatemia pain, agitation, cholecystitis, confusion, convulsions, hallucinations, heart block (all types), hemolytic anemia, hepatitis, hyponatremia, neuroleptic malignant syndrome, pancreatitis, and rash, OVERDOSAGE Because strategies for the management of neuroleptic malignant syndrome, pancreatitis, and rash. OVERIOSAGE 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, ovoilting, salivation, sweating, bradycardia, hypotension, respiratory depression, collapse and convulsions. Increasing muscle weakness is a possibility and may result in death if respiratory muscles are involved. Tertiary anticholinergics such as atropine may be used as an antidote for ARICEPT® overdosage. Intravenous atropine sulfate titrated to effect is recommended; an initial dose of 1.0 to 2.0 mg IV with subsequent doses based upon clinical response. Alypical responses in blood pressure and heart rate have been reported with other cholinomimetics when co-administered with quaternary anticholinergics such as glycopyrrolate. It is not known whether ARICEPT" and/or its metabolites can be removed by dialysis (hemodialysis, peritoneal dialysis, or hemofilitration). Dose-related signs of toxicity in animals included reduced spontaneous movement, prone position, staggering gait, lacrimation, clonic convulsions, depressed respiration, salivation, miosis, tremors, fasciculation and lower body surface temperature

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