POLICY æ

Medicare Expands Stent Coverage

The Centers for Medicare and Medicaid Services (CMS) has expanded Medicare coverage of percutaneous transluminal angioplasty of the carotid artery concurrent with stent placement. Previously, CMS only covered carotid artery stenting in clinical trials being conducted prior to Food and Drug Administration approval and, more recently, in postapproval studies. The new policy expands coverage to include high-risk patients with symptomatic narrowing of the carotid artery of 70% or more.

'Migraine Calculator' Debuts

Employers will be able to calculate how much employees' migraines are costing their businesses, thanks to a new "migraine calculator" from the Pharmaceutical Research and Manufacturers of America (PhRMA). The calculator, developed by consulting firm HSM Group of Scottsdale, Ariz., estimates both the incidence of migraine and its financial impact based on the company's size, type of industry, location, and age and gender of employees. It also projects the potential net savings the company can expect if employees obtain treatment, taking the cost of treatment into account. The calculator "is an important tool that allows employers to see the whole picture on the economics and value of getting patients with migraines needed treatment," said HSM Group president Sheryl Bronkesh. It is available at http://www.migrainecalculator.com/ Welcome.asp.

Physicians Prefer Paper

When it comes to recording patient health information, most doctors and hospitals still prefer paper to the computer, the Centers for Disease Control and Prevention reported. Ambulatory medical care surveys conducted from 2001 to 2003 revealed that only 17% of physicians' offices had electronic medical records to support patient care. Less than a third of hospital facilities (31% of hospital emergency departments and 29% of outpatient departments) had electronic records. Physicians under age 50 years were twice as likely as those over that age to use computerized physician order entry systems, the CDC reported.

Chiropractic Coverage Demo

On April 1, CMS began covering an expanded array of chiropractic services provided to Medicare beneficiaries in Maine, New Mexico, and parts of Illinois, Iowa, and Virginia. Under the 2-year demonstration project, newly covered services include extraspinal manipulation, x-rays, EMG and nerve conduction studies, clinical lab tests, electrotherapy, ultrasound therapy, and evaluation and management services. Chiropractors also will be allowed to order MRIs, CT scans, and clinical lab services and to make referrals for physical therapy. Currently, Medicare chiropractic coverage is limited to manual spinal manipulation and therapy to treat neuromusculoskeletal conditions. "By expanding chiropractic coverage in this demonstration, we are reducing out-ofpocket costs for seniors who visit chiropractors, and we will learn whether paying chiropractors for delivering these

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additional services can help improve health outcomes and keep Medicare costs down," said CMS Administrator Mark B. McClellan, M.D.

Bill on Livestock Antibiotics

Sen. Edward M. Kennedy (D-Mass.) and Sen. Olympia Snowe (R-Maine) have introduced a bill to cut down on the amount of antibiotics used in livestock, citing evidence that increased antibiotic use in animals leads to reduced effectiveness in humans. "Antibiotics are among the greatest miracles of modern medicine, yet we are destroying them faster than the pharmaceutical industry can create replacements,' Sen. Kennedy said in a statement. "If doctors lose these critical remedies, the most vulnerable among us will suffer the most-children, the elderly, and persons with HIV/AIDS, who are most in danger of resistant infections." The measure would require the Food and Drug Administration to withdraw approval for nontherapeutic use of eight classes of antibiotics in food-producing animals after 2 years if the use has not been proven harmless during that time. It also requires manufacturers of animal drugs or drug-containing feed to make their sales records

available to government regulators for tracking emerging antimicrobial resistance.

How Now, Mad Cow?

The Department of Agriculture appears to be considering returning "downer cattle" to the food supply. USDA is performing a surveillance program to see whether the ill cattle are infected with bovine spongiform encephalopathy (BSE). In testing 314,000 animals in the last year "we have not found another case of BSE," Agriculture Secretary Mike Johanns told the Food and Agriculture Policy Conference.

—Joyce Frieden

ARICEPT® (Donepezil Hydrochloride Tablets) ARICEPT® ODT (Donepezil Hydrochloride) Orally Disintegrating Tablets Briel Summary—se package insert for full prescribing information. INDICATIONS ANICEPT® is indicated for the treatment of mild to moderate dementia of the Arbeimer's type. CONTRAINDICATIONS ANICEPT® is contraindicated in patients with known hypersensitivity to donepezil hydrochloride or to piperidine derivatives. WARNINGS Anesthesia: ARICEPT® as a cholinesterase inhibitor, is likely to ecagogrete accomptoline-type muscle releasation during anothesia: ARICEPT® as a cholinesterase inhibitor, si likely to ecagogrete accomptoline-type muscle releasation during anothesia: Cardiovascular Conditions: Theough their primary action, cholinesterase inhibitors may be expected to increase gastrine additions. Through their primary action, cholinesterase inhibitors may be expected to increase gastrine additions. Through their primary action, cholinesterase inhibitors may be expected to increase gastrine additions. Through their primary action, cholinesterase inhibitors may be expected to increase gastrine thesinal 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 placabo, in the incidence of ether petic ulcer disease or gastrointestinal bleeding. ARICEPT®, when they occur, appear more frequently with the 10 mg/day dose than with the 5 mg/day dose. In most cases, these effects have been mild and transient, sometimes kasting one to three weeks, and have resolved during continued use of ARICEPT® entitives: Schurger Cholinomimetics are believed to have some potential to cause generalized convulsions. However, scizure activity also may be a manifestation of Atzheimer's Disease. *Putmonary Conditions*: Because of their cholinomimetics may cause bladro cultive cultures union set cases, these effects have be Advant 205, respectively, inhibit donepezil metabolism *in wito*. Whether there is a clinical effect of quintifiance is not known. In a 7-day crossover study in 18 healthy volunteers, ketocorazole (200 mg q, d) increased mean donepezil (5 mg q, d) concentrations (Alt_{CEP}¹⁰, and C_{ma}) 36%. The clinical relevance of this increase in concentration is unknown. Inducers of CYP 206 and CYP 3A4 (e.g., phenytoin, cartamazepine, dexamethasome, rifarmpin, and phenobarbital) could increase the rate of elimination of ARICEPT®. Formal phermacokinetic studies demonstrated that the metabolism of ARICEPT® is not significantly affected by concurrent administration of ARICEPT®. Formal phermacokinetic studies demonstrated that the metabolism of ARICEPT® is not significantly affected by concurrent administration of adjoor or cimetidine. Use with Anticholinergids: Because of their mechanism of action, cholinesterase inhibitors: A synergistic effect may be expected when cholinesterase inhibitors: A synergistic effect may be expected when cholinesterase inhibitors: A synergistic effect may be expected when cholinesterase inhibitors: A synergistic effect may be expected when cholinesterase inhibitors: A synergistic effect may be expected when cholinesterase inhibitors: A synergistic effect may be expected when cholinesterase inhibitors: A synergistic effect may be expected and an 88-week carcinogenicity study of donepezil hydrochioride conducted in Co-T mice at doses up to 180 mg/kg/day (approximately 90 times the maximum recommended human dose on a mg/m² basis), Donepezil was not mutagenic in the Ames reverse mutation assign in bacteria, or in a mouse hymphoma forward mutation assay *in vitro*. 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* unschedule DNA synthesis assay in rats. Donepezil was not futals on fertility in rats at doses up to 10 mg/kg was not clasbogenic 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 lertility in rats at doses up to 10 mg/kg/day (approximately 8 times the maximum enomeded human dose on a mg/m² basis). **Pregnancy Pregnancy Category C:** relatogory 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 16 mg/kg/day (approximately 13 times the maximum recommended human dose on a mg/m² basis) did not disclose any evidence to a teratogenic potential 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 through day 20 postpartum, there was a slight increase in this 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 mik. ARICEPT® has no indication for use in nursing mothers. **Pediatric Use** Atheimer's disease is a disorder occurring primarily in individuals over 55 years of age. The mean age of the patients enrolled in the clinical studies with ARICEPT® was 73 years; 80% of these patients were between 65 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 tassection were obtained from these patients. There were no clinically significant differences in most adverse events reported by patient groups: ■66 and 94 years of and 94% of the patients were at or above the age of 75. The efficacy and safety data presented in the clinical infast section were obtained from these patients. There were no clinically significant differences in most adverse events reported by patient groups : B66 years old and <65 years old. **ADVERSE REACTIONS 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 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 Adv from Controlled Cl	l	
Dose Group	Placebo	5 mg/day ARICEPT®	10 mg/day ARICEPT®
Patients Randomized Event/% Discontinuing	355	350	315
Nausea	1%	1%	3%
Diarrhea	0%	<1%	3%
Vomiting	<1%	<1%	2%

Most Frequ 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 at least 5% in patients receiving 10 mg/day and twice the placebo rate, are largely predider by ARICEPT®'s cholinomimetic effects. These include nausea, diarrhea, insomnia, vomiting, muscle cramp, tatigue and anorexia. These adverse events were often of mild intensity and transient, resolving during continued ARICEPT® transmet without the need for does modification averse versis were una or into mension or transter, resoruing during continued AH(CL+)^{ros} traitment without the need for dose modification. An open-label study was conducted with 259 patients who received placebo in the 15 and 30-week studies. These patients were titrated to a dose of 10 mg/day over a 6-week period. The rates of common adverse events were lower than those seen in patients titrated to 10 mg/day over one week in the controlled clinical trials and were comparable to those seen in patients on 5 mg/day. See Table 2 for a comparison of the most common adverse events following one and six week titration regimens.

Table 2. Comparison of Rates of Adverse Events in Patients Titrated to 10 mg/day Over 1 and 6 Weeks						
Adverse Event	No tit Placebo (n=315)	ration 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%		
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 patients treated may differ. Table 3 lists treatment emergent signs and symptoms that were reported in at least 2% of patients in placebo-controlled trials who received ARICEPT® and for which the rate of occurrence was greater for ARICEPT® assigned than placebo assigned patients. In general, adverse events occurred more frequently in female patients and with advancing age.

Table 3. Adverse Events Reported in Controlled Clinical Trials in at Least 2% of Patients Receiving ARICEPT® and at a Higher Frequency than Placebo-treated Patients					
ody System/Adverse Event	Placebo (n=355)	ARICEPT® (n=747)			
ercent of Patients with any Adverse Event	72	74			
ody as a Whole					
Headache	9	10			
Pain, various locations	8	9			
Accident	6	7			
Fatique	3	5			
ardiovascular System	-	-			
Syncope	1	2			
ligestive System		-			
Nausea	6	11			
Diarrhea	5	10			
Vomiting	3	5			
Anorexia	2	4			
lemic and Lymphatic System	-				
Ecchymosis	3	4			
Aetabolic and Nutritional Systems	0	•			
Weight Decrease	1	3			
lusculoskeletal System	'	0			
Muscle Cramps	2	6			
Arthritis	1	2			
lervous System		2			
Insomnia	6	9			
Dizzinese	6	8			
Depression	1	3			
Abnormal Dreams		3			
Automation Predma	0	0			
Sommolence	<1	2			
Frequent Uringtion	1	0			
PERCENTER FOR THE PERCENT AND A DESCRIPTION OF THE PERCENT AND A D		/			

Somolence diverse Sents Observed During Clinical Trials ARICEPT® has been administered to ver 1700 individual sturing clinical trials workfields. Approximably 1200 of these patients have been treaded or a least 3 months and more than 1000 patients. In regards to the highest dose of 10 mg/day, this population includes 620 patients breaked for 3 months, 475 patients treated for 6 months and 116 patients treated for 3 months, 475 patients treated for 6 months and 116 patients free been treated for a least 3 months months and 116 patients treated or a overal test and software events by the clinical integrators using a modified COSIART dictionary and event trequencies were calculated across all studies. These categories are used in the 114 bill observes events covered as adverse events by the clinical integrators using terminology of their own choosing. To provide an overal 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 COSIART dictionary and event trequencies were calculated across all studies. These categories are used in the ising below. The frequencies represent the proportion of patient spouse is events were activated to a smaller number of standardized categories using a modified COSIART dictionary and event trequencies were calculated across all studies. These categories are used in the ising below. The frequencing all tables used 11/100 patients; *integrateri* and in most cases were observed at a similar frequency in placebor breaked patients in the controlled durines. These events occurring at least were set as the set of contracts, charge and integrators using a modified Codines, the events were seen in studies concluded of using the United States Sched United. States includes, Notingeriant and patients integrate activation adverse events controlled states integrate activation adverse events controlled states integrate activation adverse events cortical trespecting and the set and months ano

u any arug. As many case or overose, general supportive measures should be utilized. Overdosage with cholinesterase inhibitors can result in cholinergic crisis characterized by severe nausea, vomiting, salivation, sweating, bradycardia, hypotension, respiratory depression, collapse and convulsions. Increasing muscle weakness is a possibility and may result in death if respiratory muscles are involved. Tertary anticholinergics such as atropine may be used as an anticlote for ARICEPT® overdosage. Intravenous atropine esultate titated to effect is recommended: an initial dose of 1.0 to 2.0 mg IV with subsequent doses based upon clinical response. Abpical responses in blood pressure and hear tate have been reported with other cholinornimetics when co-administered with quaternary anticholinergics such as glycopyrotate. It is not known whether ARICEPT® and/or its metabolites can be removed by dialysis (hermodialysis, peritonal dialysis, or hermofittation). Dose-related signs of toxicity in animals included reduced spontaneous movement, prone position, staggering gait, lacrimation, clonic convulsions, depressed respiraton, salivation, miosis, tremos, fasciculation and lower body surface temperature. **DOSAGE AND ADMINISTRATION** The dosages of ARICEPT® shown to be effective in controlled clinical triats are 5 mg and 10 mg administered once per day. The higher dose of 10 mg did not provide satistically significantly greater dose, with a one week titration, is likely to be associated with a higher nicidence of cholinergic adverse events than the 5 mg dose. In open label trials using a 6 week titration, is likely to be associated with a higher nicidence of cholinergic adverse events than the 5 mg dose. In open label trials using a 6 week titration, the frequency of these same adverse vents was similar between the 5 mg and 10 mg dose groups. Therefore, because steady state is not achieved for 15 days and because the incidence of untoward effects may be influenced by the rate of dose secation, retarment with a dose of 10



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