# Value-Based Competition to Debut in Next 2 Years

### BY NELLIE BRISTOL Contributing Writer

WASHINGTON — Schemes measuring the quality of health care services against price will emerge in some local markets for several procedures in the next 2 years, Secretary of Health and Human Services Mike Leavitt said at a meeting on health information technology sponsored by eHealth Initiative and Bridges to Excellence.

Within 5 years, Mr. Leavitt said, the

### term "value" will become part of the health care lexicon. "Within 10 years, value-based competition will have truly emerged.

Working toward that goal are six pilot projects being conducted by the Ambulatory Care Quality Alliance (AQA), Mr. Leavitt said. Supported by the Centers for Medicare and Medicaid Services and the Agency for Health Care Research and Quality (AHRQ), the pilot projects are testing approaches to aggregating and reporting both public and private data on physician performance.

According to AQA, the programs "will not only measure quality, but will identify those high-quality providers who are able to deliver efficient care to patients, avoiding unnecessary complications and cost."

Dr. Carolyn Clancy, AHRQ director, expanded on the purpose of the projects. These pilots will begin to pave the way for showing how we can use the same set of measures ... to try to figure out how we

Zegerid® ole/sodium bicarbonati

### Brief Summary of Prescribing Information

INDICATIONS AND USAGE Duodenal Ulcer ZECERD is indicated for short-term treatment of active duodenal ulcer. Most patients heal within four weeks. Some patients may require an additional four weeks of therapy. Gastric Ulcer ZECERD is indicated for each them treatment 4.9 weeks) of active busines and/or ulcer.

Gastric Ulcer ZEGERID is indicated for short-term treatment (4-8 weeks) of active benign gastric ulcer. (See CLINICAL PHARMACOLOCY, Clinical Studies, Gastric Ulcer.) Treatment of Gastroesophageal Reflux Disease (GERD)

Symptomatic GERO ZEGERID is indicated for the treatment of heartburn and other symptoms associated with GERD.

Etothin Da Induated for the treatment of metriculin and other symptoms associated with GERD. Erosive Esophagitis ZEGERD is indicated for the short-term treatment (4-8 weeks) of erosive esophagitis which has been diagnosed by endoscopy. (See LUNCAL PMARMACDLOCY, Clinical Studies.) The efficacy of ZEGERD used to longer than 8 weeks in these patients has not been established. In the rare instance of a patient not responding to 8 weeks of treatment, it may be helpful to give up to an additional 4 weeks of treatment. If there is recurrence of erosive esophagitis or GERD symptoms (eg. hearburn), additional 4-8 week courses of omerzozie may be consoliered. Maintenance of Healing of Erosive Esophagitis ZEGERD is indicated to maintain healing of erosive esophagitis. Controlled studies do not extend beyond 12 months. Reduction of Risk of Upper Gastrointestimal Bleeding in Critically III Patients ZEGERD is vinder for Crail Suspension 4.00 mg/1680 mg is indicated for the reduction of risk of topper Gi bleeding in critically iII patients.

CONTRAINDICATIONS CONTRAINDICATIONS ZEGERID is contraindicated in patients with known hypersensitivity to any components of the formulation.

### PRECAUTIONS

PRECAUTIONS General Symptomatic response to therapy with omeprazole does not preclude the presence of gastric malignancy. Arophic gastric fish fas been noted occasionally in gastric corpus biopsies from patients treated long-term with omeprazole. Each ZEGRID Qasvle contains 1100 mg (13 mEq) of sodium bicarbonate (equivalent to 300 mg of Na+). Each packet of ZEGRID Powder for Oral Suspension contains 1880 mg (20 mEq) of sodium bicarbonate (equivalent to 460 mg of Na+). The sodium content of ZEGERID products should be taken into consideration when administering to patients on a sodium restricted diet. Sodium bicarbonate is contraindicated in patients with Batters syndrome, hypocalemia, Sodium bicarbonate should be used with caution in patients. With Batters syndrome, hypocalemia, respiratory alkaksis, and problems with acid-ase takence. Long-term administration of bicarbonate with caldum or mik can cause mik-akiai syndrome.

mik-klasi syndrome. Information for Patients ZEGERID should be taken on an empty stomach at least one hour prior to a meai. ZEGERID is available either as 40 mg c20 mg capsules with 1100 mg sodium bicationate. ZECERID is also available either as 40 mg r20 mg single-dose packets of pevider for ord suspension with 1600 mg sodium bicarbonate.

powder for oral suspension wran roou ing source based on the powder service of the powder of the powder of the powder for Oral Suspension. Exercise the powder f

immediately. Refil cup with water and dirik. **Drug Interactions** Omeprazile can prolong the elimination of diazepam, warfarin and phenytoin, drugs that are metabolized by oxidation in the liver. There have been reports of increased INR and pothromion time in patients receiving proton pump inhibitors, including omeprazole, and warfarin concentrative, tocreases in NR and prothromion times, Mibough in normal subjects no interaction with theorybiline or programoli was bound, there have been circled reports of interaction with theorybiline or programoli was bound, there have been circled reports of interaction with theorybiline or programoli was bound, there have been circled reports of interaction with theorybiline or programoli was bound, there have been circled reports of interaction with their drugs metabolized via the cytochrome P-450 system (eg. cyclosponic, couldrain, theorybiline or programoli was bound theorybiline or programoli adjust the doesgo of these drugs when taken concomitantly with ZEGEHID. Because of its profound and long-lating inhibition (agshic cad Secretion, it is therevically possible that onegrazole may intellers with absorption of drugs where gastric pH is an interdicine althic profound and long-bacapane. Concomitantly with the administration of onegrazole. Concomitant administration of omeprazole and claranow has been reported to cadministration of omeprazole and claranow in the dimension of omeprazole and tacanow. Conditional concomised and claranow in the resulted in increases of plasma levels of omeprazole, clarathorycin, and 14-hydroy-clarithromycin (see also CUINCAL PHARMACUDOR). Phanemockinetics. **Carcinogenesis, Mutagenesis, Impairment of Eritility** Alabo 24 mort carcinosemic the time in the more accurate and the direse of 17.24.138.440.0

Co-administration of omegrazio, calarithomycin, have resulted in increases of plasma levels of omegrazio, calarithomycin, and 14-hydroxy-clanithomycin (see also CLINICAL PHARMACDLOGY, Pharmacokinetics). **Carcinogenesis, Mutagenesis, Impairment of Fartility** In two 24-month carcinogenicity studies in ratis, omegrazio et alciby doses of 1.7, 34, 138, 44.0 and 140.8 mg/kg/day (approximately 0.5 to 28.5 times the human dose of 40 mg/day, based on body surface area) produced gestite (20, cell carcinolis in a dose-related marrier in hoth male and female ratis, the incidence of this effect was markedly higher in ferrale ratis, which had higher bodo levels of unegrazide. Badit carcinolds sellon occin the untreadent ratis. Mathion, ECL cell typerplasia was present in all brated groups of both saves. In one of these studies, ferrale ratis were threaden with 13.8 mg omegrazide/badity approximately 25 times the human dose of 40 mg/day, based on body surface area) for one year, (Hen followed for an additional year without end with 13.8 mg omegrazide, Badity approximately 25 times the human dose of 40 mg/day, based on body surface area) for one year, (Hen followed for an additional year without end was been met begrazide/badity approximately 25 times the human dose of 40 mg/day, based on body surface area) to row gest the affect for by series. The this strain of ratio area the difference between related and control ratis was much smaller (HG% vs 26%) but still showed more hyperkasia in the treaded group, Cashria democarionma was seen in male to fermiler at lasted for by oyears. The this strain of ratio similar turnor has been noted historially, bat a finding involving only one turnor is difficult to similar turnor bas been noted historially, bat a finding involving and 16.0 mg/dg/day (about 0.1 to 33 times the human dose of 40 mg/day, based on body surface area). No astrocytomas were found in asmal number of males that in ratio and hemates at the high dose of 1.40 mg/dg/day ratio. The asthet human dose o

Pregnancy Pregnancy Category C There are no adequate and well-controlled studies on the use of omeprazole in pregnant women. The wast majority of reported experience with omeprazole during human pregnancy is first timester exposure and the during of users are study specified, e.g., intermittent vs. chronic. An expert review of published data or experiences with omeprazole use during pregnancy by PERIS—the Teatogen information System—Concluded that thread-ubic dases during pregnancy are unilely to pose a substantial leratogenic risk (the quantity and quality of data were assessed as fair). Three experiment of the studies compared the frequency of concentratiles among infants born to women who used omeprazole during pregnancy to the frequency or anormalities among infants of women exposed to H2-receptor antagonists or other controls. A population-based pregorable down the special during the study to the frequency of anormalities among infants of women exposed to H2-receptor antagonists or other controls. A population-based pregorable cohert epideminicipical study from the Sweetish Middial Birth Registry, covering approximately 986 of pregnanced during pregnancy? In there exposued tarth first timester with 39 of these exposed beyond first timester, and 131 exposed tarth the first timester with 39 of these exposed beyond first timester, and 131 exposed to meprazole was not associated with increased risk of any matformation (odds ratio 6.82, 95% Cl 0.50-1.34), low birth weigt or low Apgar score. The number of infants born with

vertricular septal defects and the number of stilborn infants was sightly higher in the omeprazole exposed infrate than the expected number in the normal population. The author concluded that both effects may be random. A retoopactive cohort study reported on 680 pregnant women exposed to either R2-biockers or omeprazole in the first timester in 240 exposed to omegrazole in the first timester exposure to interpret 134 exposed to omegrazole in the first timester exposure to inorganole in the set initiated in 240 exposed to omegrazole in the first timester exposure to inorganole was 0.9 (95% Cl 0.3 e5.3) and the mathemation rate for first timester exposure to inorganole and the set of the set of

Women justities the potential risk to the tetus. Numsing Mothers Omeprazole concentrations have been measured in breast milk of a woman following oral administration of 20 mg. The peak acconcentration of omeprazole in breast milk was less than 7% of the peak serum concentration. The concentration will correspond to 0.004 mg of omeprazole in 200 md. of milk. Because omeprazole is excreted in human milk, because of the potential for serous adverse reactions in nursing infants from omeprazole, and because of the potential for serous adverse reactions in nursing infants from omeprazole, and because of the potential for thumorigendity shown for omeprazole is not calcing one-tion of addition, sodium bicationate should be used with caution in nursing mothers. **Pediatric Use** Chincal studies have been conducted evaluating delayed-release omeprazole in pediatric patients. There are no adequate and well-controlled studies in pediatric patients. There are no adequate and well-controlled studies in pediatric patients.

Geriatric Use

parameters have an in several or were-outlooked souches in percents while toerrul. Certaint USE and Large. There were no differences in safety and effectiveness between the elderin and younger subjects. Other reported clinical experience has not identified differences in reposers between the eldery and younger subjects, but greater sensitivity of some older individuals cannot be nulled out. Pharmacoinchet subjects the eldery and younger subjects, but greater sensitivity of some older individuals cannot be nulled out. Pharmacoinchet subjects with the eldery and howalability was increased. The plasma clearance of one hour, about the same as that in noneiderly, healthy subjects lating ZEGFID. However, no drasge adjustment is necessary in the elderly. Gee CLINCAL PHARMACOLOG(X)

ADVERSE REACTIONS Omeprazole was generally well tolerated during domestic and international clinical trials

3 petients. J.S. clinical indi population of 465 patients, the adverse experiences summarized in J. vere reported to occur in 1% or more of patients on therapy with omeprazole. vrs in parentheses indicate percentages of the adverse experiences considered by gators as possibly, probably or definitely related to the drug. Table 11: Adverse Experiences Occurring in Table 11: Adverse Experiences Occurring in

		or more or rational on onicprazore merapy		
	Omeprazole (n = 465)	Placebo (n = 64)	Ranitidine (n = 195)	
Headache	6.9 (2.4)	6.3	7.7 (2.6)	
Diarrhea	3.0 (1.9)	3.1 (1.6)	2.1 (0.5)	
Abdominal Pain	2.4 (0.4)	3.1	2.1	
Nausea	2.2 (0.9)	3.1	4.1 (0.5)	
URI	1.9	1.6	2.6	
Dizziness	1.5 (0.6)	0.0	2.6 (1.0)	
Vomiting	1.5 (0.4)	4.7	1.5 (0.5)	
Rash	1.5 (1.1)	0.0	0.0	
Constipation	1.1 (0.9)	0.0	0.0	
Cauah	1.1	0.0	1.5	
Asthenia	1.1 (0.2)	1.6 (1.6)	1.5 (1.0)	
Back Pain	1.1	0.0	0.5	_

Table 12 summarizes the adverse reactions that occurred in 1% or more of omeprazole-treated patients from international double-blind, and open-label clinical trials in which 2,631 patients and subjects received omeprazole. treated 2 631 n Table 12: Incidence of Adverse Experiences > 1%

	Omeprazele (n = 2631)	Placebo (n = 120)
Body as a Whole, site unspecified		
Abdominal pain	5.2	3.3
Asthenia	1.3	0.8
Digestive System		
Constipation	1.5	0.8
Diarrhea	3.7	2.5
Flatulence	2.7	5.8
Nausea	4.0	6.7
Vomiting	3.2	10.0
Acid regurgitation	1.9	3.3
Nervous System/Psychiatric		
Headache	2.9	2.5

ed in Table 13 by body system and preferred term. **Number (%) of Critically III Patients with Frequently Oc Adverse Events by Body System and Preferred Te** Tahla 13 M curring (≥ 3%)

	ZEGERID* {N=178}	Cimetidine (N=181)
MedDRA		
Body System	All AEs	All AEs
Preferred Term	n (%)	n (%)
BLOOD AND LYMPHATIC SYSTEM DISORDER	S	
Anaemia NOS	14 (7.9)	14 (7.7)
Anaemia NOS Aggravated	4 (2.2)	7 (3.9)
Thrombocytopenia	18 (10.1)	11 (6.1)
CARDIAC DISORDERS		
Atrial Fibrillation	11 (6.2)	7 (3.9)
Bradycardia NOS	7 (3.9)	5 (2.8) 2 (1.1)
Supraventricular Tachycardia	6 (3.4)	2 (1.1)
Tachycardia NOS	6 (3.4)	6 (3.3)
Ventricular Tachycardia	8 (4.5)	6 (3.3)
GASTROINTESTINAL DISORDERS*		
Constipation	8 (4.5)	8 (4.4)
Diarrhoea NOS	7 (3.9)	15 (8.3)

astric Hypomotility	3 (1.7)	6 (3.3)
ENERAL DISORDERS AND ADMINISTRATI	ON SITE CONDITIONS	3
lyperpyrexia	8 (4.5)	3 (1.7)
ledema NOS vrexia	5 (2.8) 36 (20.2)	11 (6.1) 29 (16.0)
VECTIONS AND INFESTATIONS	30 (20.2)	29 (10.0)
andidal Infection NOS	3 (1.7)	7 (3.9)
ral Candidiasis	7 (3.9)	1 (0.6)
epsis NOS	9 (5.1)	9 (5.0)
rinary Tract Infection NOS	4 (2.2)	6 (3.3)
IVESTIGATIONS		
iver Function Tests NOS Abnormal	3 (1.7)	6 (3.3)
ETABOLISM AND NUTRITION DISORDERS	6	
luid Overload	9 (5.1)	14 (7.7)
lyperglycaemia NOS	19 (10.7)	21 (11.6)
yperkalaemia	4 (2.2)	6 (3.3)
ypernatraemia	3 (1.7)	9 (5.0)
ypocalcaemia ypoglycaemia NOS	11 (6.2)	10 (5.5)
ypogrycaenna NOS ypokalaemia	6 (3.4) 22 (12.4)	8 (4.4) 24 (13.3)
vpomagnesaemia	18 (10.1)	18 (9.9)
vponatraemia	7 (3.9)	5 (2.8)
ypophosphataemia	11 (6.2)	7 (3.9)
SYCHIATRIC DISORDERS		
gitation	6 (3.4)	16 (8.8)
ESPIRATORY, THORACIC AND MEDIASTIN	AL DISORDERS	
cute Respiratory Distress Syndrome	6 (3.4)	7 (3.9)
losocomial Pneumonia	20 (11.2)	17 (9.4)
neumothorax NOS	1 (0.6)	8 (4.4)
espiratory Failure	3 (1.7)	6 (3.3)
kin and subcutaneous tissue disori	DERS	
ecubitus Ulcer	6 (3.4)	5 (2.8)
tash NOS	10 (5.6)	11 (6.1)
ASCULAR DISORDERS		
ypertension NOS ypotension NOS	14 (7.9) 17 (9.6)	6 (3.3) 12 (6.6)

Additional adverse experiences occurring in < 1% of patients or subjects in domestic and/or international trials conducted with meprazole, or occurring since the drug was marketed, are shown below within each body system. In many instances, the relationship to omeprazole was unclear.

Body As a Whole Allergic reactions, including, rarely, anaphylaxis (see also Skin below), fever, pain, fatigue, malaise, abdominal swelling.

Cardiovascular Chest pain or angina, tachycardia, bradycardia, palpitation, elevated blood pressure, and peripheral edema.

Bactorintestimal Bactorintestimal Pancreatitis (some fatal), anorexia, irritable colon, flatulence, fecal discoloration, esophageal candidiasis, mucosal atrophy of the tongue, dry mouth, stomatitis. During treatment with omeprazole, gastric fundic gland polyss have been noted rarely. These polyse are beingin and appear to be reversible when treatment is discontinued. Gastroducdenal carcinolds have been reported in patents with Zollinger-Elison syndrome on long-ferm treatment with momerzaole. This finding is believed to be a manifestation of the underlying condition, which is known to be associated with such tumors.

The uniterrying obtainant, where is a service to the function tests [ALT (SGPT), AST (SGPT), Mild and, rarely, marked elevations of liver function tests [ALT (SGPT), AST (SGPT), "gultarny transpectidase, akainet prosphatase, and bihrubin (jaundice)]. In rare instances, overt liver discase has occurred, including hepatocellular, cholestatic, or mixed hepatitis, liver necrose loss me fatal), hepatic failure (some fata), and hepatic encephalopathy. Metabolic/kutritional Hyponatremia, hypoglycemia, and weight gain.

Hyponatremia, hypoglycemia, and weight gain. Musculoskeletal Muscle cramps, myalgia, muscle weakness, joint pain, and leg pain. Mereus System/Psychiatric Psychic disturbances including depression, agitation, aggression, hallucinations, contusion, insomia, nervousness, tremors, apath, somnolence, anxiety, dream abnormatires, vertigo: paresthesia; and hemifacial dysesthesia. Respiratory Epistaxis, pharyngeal pain.

Skin Rash and rarely, cases of severe generalized skin reactons including toxic epidernai necrvisis (TRL: some fatal), Stevens-Johnson syndrome, and erytherna multiforme (some severe); purpura and/or petechiae (some with rechallenge); skin inflammation, urticaria, angioedema, prurhus, photosensitivity, alopecia, dry skin, and hyperhidrosis.

## *Special Senses* Tinnitus, taste perversion.

Durned vision, ocular irritation, dry eye syndrome, optic atrophy, anterior ischemic optic neuropathy, optic neuritis and double vision.

enital sitilal nephritis (some with positivo rechallenge), urinary tract infection, microscopic a, urinary frequency, elevated serum creatinine, proteinuria, hematuria, glycosuria, ular pain, and gynecomastia.

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addition, a sodium bicarbonate overdose may cause hypocalcemia, hypokalemia, pernatremia and seizures



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can report publicly on performance and, at least as important although probably not as rapidly, how we get that information back to providers so they can improve." She added that other sites would be added to the project shortly.

We expect that when completed, the knowledge we develop through the AQA pilots will provide a comprehensive national framework for performance measurement and public reporting," she said.

Although measurement will be conducted locally, Dr. Clancy said, it is important to have one set of measures used nationally.

AQA is a national coalition of 125 physician, consumer, business, insurer, and government organizations that are working to develop strategies for measuring, reporting, and improving performance at the physician level. The group developed a "starter set" of 26 standard performance measures last year that AQA says is "now being incorporated in physician contracts and implemented around the country." Measurements for hospital care are being developed by the Hospital Quality Alliance.

Mr. Leavitt said that, in addition to those two national alliances, he knows of 29 community-based quality measurement efforts, driven not only by businesses but also by physicians.

The force that I believe must drive quality will be those who provide it, and the force that I have seen learning to measure quality [is] the physicians," he said. "This cannot simply be the MBAs ganging up on the MDs. This has got to be a collaborative effort."

Measuring quality is a key component of the Bush administration's policy to increase transparency and value in health care purchasing and delivery. The policy requires federal health care purchasers, including Medicare, Medicaid, and the Department of Veterans Affairs, to encourage the use of health information technology, share information about procedure prices, develop quality of care measures, and develop and identify approaches that facilitate high quality and efficient care.

Part of the effort is to define "episodes of care" for frequent procedures that can be used as units by which to compare costs among providers.

The important thing is that insurance companies and larger payers like the government are able to present their information in a form that the data can, in a privacy-protected way, be assembled into episodes of care for comparison," Mr. Leavitt commented. "What is a hip replacement? What expense ought to be put into that bucket so we can compare one hospital or one physician to another?"

Mr. Leavitt and Dr. Clancy said the Bush administration's goal is to merge the insurance market power of the federal government with that of the private sector to move value-based competition along.

"During the next several months, we're going to see a tremendous push to combine the purchasing clout of the federal government with the health care buying power of the top 100 private employers in America," Dr. Clancy said.