# HHS Sets Infection-Control Goals for Hospitals

### BY MARY ELLEN SCHNEIDER New York Bureau

ederal officials are seeking significant reductions in some of the most common health care-associated infections over the next 5 years.

In an "action plan" issued in January, Department of Health and Human Services officials outlined goals related to six categories of health care-associated infections: central line-associated bloodstream infections, Clostridium difficile infections, catheter-associated urinary tract infections, methicillin-resistant Staphylococcus aureus (MRSA) infections, surgicalsite infections, and ventilator-associated pneumonia.

The seven national prevention targets identified in the plan call for:

▶ Reducing the number of central line-associated bloodstream infections per 1,000 device days to below the current 25th percentile set by the National Healthcare Safety Network by location type

► Achieving full compliance with the central line bundle in nonemergent insertions

▶ Reducing by 30% the case rate per patient days and administrative/discharge data for ICD-9-CM-coded C. difficile infections



#### Brief Summary of Prescribing Information

USE IN PREENANCY When used in pregnancy during the second and third trimesters, drugs that act directly on the renin-angiotensin system can cause injury and even death to the developing fetus. When pregnancy is detected, MICARDIS' tablets should be discontinued as soon as possible. See WARNINGS: Fetal/Neonatal Morbidity and Mortality

#### INDICATIONS

MICARDIS is indicated for the treatment of hypertension. It may be used alone or in combination with other

antihypertensive agents. CONTRAINDICATIONS MICARDIS (telmisartan) is contraindicated in patients who are hypersensitive to any component of this product

anthripertensive agents. **CONTRANIDICATIONS** MICARDIS (telmisartan) is contraindicated in patients who are hypersensitive to any component of this product. **WARNINGS Fetal/Neonatal Morbidity and Mortality** Drugs that act directly on the renin-angiotensin system can cause fetal and neonatal morbidity and death when administered to pregnant women. Several dozen cases have been reported in the wordl iterature in patients who were taking angiotensin converting enzyme inhibitors. When pregnancy is detected, MICARDIS (telmisartan) tablets should be discontinued as soon as possible. The use of drugs that act directly on the renin-angiotensin system during the second and third trimesters of pregnancy has been associated with fetal and neonatal injury, including hypotension, neonatal skull hypoplasia, anuria, reversible or inreversible renal failure, and death. Oligohydramnios has also been reported, presumably resulting from decreased fetal renal function, oligohydramnios has also been reported, presumably resulting from decreased fetal renal function, oligohydramnios has also been reported, presumably resulting from decreased fetal renal function, oligohydramnios has also been associated with fetal limb contractures, craniofacial deformation, and hypoplastic lung development. Prematurik, intrauterine from intrauterine drug exposure to the drug. These adverse effects do not appear to have resulted from intrauterine drug exposure that has been limited to the first timester. Mothers whose embryos and fuses are exposed to an angiotensin Il receptor antagonist will be found. In these ranc cases, the mothers should be apprised of the potential hazards to their fetuses, and serial ultrasound examinations should be performed to assess the intra-amniotic environment. If oligohydramnios is observed, MICARDIS tablets should be discontinued unless they are considered life-asving for the mother. Contraction stress testing (SCT), a non-stress test (NT), or biophysical profiling (BPP) may be appropriate, depen

PRECAUTIONS General. Impaired Hepatic Function: As the majority of telmisartan is eliminated by biliary excretion, patients with biliary obstructive disorders or hepatic insufficiency can be expected to have reduced clearance. MICARDIS (telmisartan) tablets should be used with caution in these patients. Impaired Renal Function: As a consequence of inhibiting the renin-angiotensin-adosterone system, changes in renal function may be anticipated in susceptible individuals. In patients with severe congestive heart failure), treatment with angiotensin-converting enzyme inhibitors and angiotensin receptor antagonists has been associated with oliguria and/or progressive azoternia and (rarely) with acute renal failure and/or death. Similar results may be anticipated in patients treated with MICARDIS tablets. In studies of ACE inhibitors in patients with unilaterial or bilaterial or blond urea nitrone were observed. There has heen converting enzyme inhibitors and angiotensin receptor antagonists has been associated with oliguina and/or progressive azotemia and (rarely) with acute renal failure and/or death. Similar results may be anticipated in patients treated with MICARDIS tablets. In studies of ACE inhibitors in patients with unilateral or bilateral renal artery stenosis, increases in serum creatinine or blood urea nitrogen were observed. There has been no long term use of MICARDIS tablets in patients with unilateral or bilateral renal artery stenosis, increases in serum creatinine or blood urea nitrogen were observed. There has been no long term use of MICARDIS tablets in patients with unilateral or bilateral renal artery stenosis but an effect similar to that seen with ACE inhibitors should be anticipated. Information for Patients. Presente of drugs that act on the renin-angiotensin system, and they should also be told that these consequences do not appear to have resulted from intrauterine drug exposure that has been limited to the first timester. These patients should be asked to report pregnancies to their physicians as soon as possible. Drug Interactions. Digoxin: When telmisartan was coadministered with digoxin, median increases in digoxin peak plasma concentration (2%) were observed. It is, therefore, recommended that digoxin levels be monitored when initiating, adjusting, and discontinuing telmisartan to avoid possible overor under-digitalization. Warfarin: Telmisartan did not result in a clinically significant interaction with actemaniophen, amiodipine, glibenclamine, simvatati, hydrochlorothizaide or bloor tells in hibito or orgenetics, was administered to the extent with drugs that inhibit cytochrome P450 enzymes; it is also not expected to interact with drugs metabolized by CYP2C19. Termisartan is not expected to interact with drugs that inhibit cytochrome P450 enzymes; it is also not expected to interact with drugs that inhibit try or possible inhibition of the metabolism of drugs metabolized by CYP2C19. Carcinogenetis,

ADVERSE REACTIONS MICARDIS (telmisartan) has been evaluated for safety in more than 3700 patients, including 1900 treated for

over six months and more than 1300 for over one year. Adverse experiences have generally been mild and transient in nature and have only infrequently required discontinuation of therapy. In placebo-controlled trials involving 104 platents breaded with various does of telmisartan (20-160m) monotherapy for up to 12 weeks, an overall incidence of adverse events similar to that of placebo was observed. Adverse events occurring at an incidence of their causal association, are presented as follows: The most common adverse events occurring with MICARDIS tablets monotherapy at a rate of 1% or any cert in the placebo group: influenza-like symptoms, dyspepsia, mydigia, urinary tract tinfection (URTI) (7%, 6%), back pain (3%, 1%), sinustits (3%, 2%), diarrhea (3%, 2%), and pharyngits (1%, 0%), had dition to the adverse events wears the controlled trials wase and peripheral edera. Discontinuation of therapy due to adverse events was required in 2.8% of 1455 patients treated with MICARDIS tablets and 6.1% of 340 placebo patients in placebo-controlled cincilar thats. The incidence of adverse events was not dose-related and did not correlate with gender; age, or race of patients. The incidence of adverse events was identical to that noted for placebo-treated platents treated with MICARDIS tablets and 6.1% of 340 placebo patients in placebots: Automatical trials. The incidence of adverse events were subtracted with MICARDIS tablets. Automatic Nervous System: motience, increased sweating, flusting. Body as a Whole: allergy, tever, leg pain, malaise; Cardiovaccular: platitable, dependent edema, angina pectoris, tack/cardia, leg edema, andborma leCC, CAXS: insomnia, somnolence, migraine, vertigo, parsthesia, involutinary muscle contractions, hypoaesthesia; Gastrointesthaid, fluttience, contractions, hypoaesthesia; Gastrointesthaid, fluttience, oral, paresthesia, astrointesthaid disorders; Metabolic: gout, hypercholestorlemia, diabetes muscless, Resistance ederovascular disorder; and Special Senses: ahormal vision, conjunctivits,

UVENUOSAGE Limited data are available with regard to overdosage in humans. The most likely manifestation of overdosage with MICARDIS (telmisartan) tablets would be hypotension, dizziness and tachycardia; bradycardia could occur from parasympathetic. (vagal) stimulation. If symptomatic hypotension should occur, supportive treatment should be instituted. Telmisartan is not removed by hemodialysis.

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▶ Reducing the median deep-incision and organ-space infection rate for each procedure/risk group to at or below the current National Healthcare Safety Network 25th percentile.

▶ Reducing by 25% the number of symptomatic urinary tract infections per 1,000 urinary catheter days.

Reducing by half the incidence rate of all health care-associated invasive MRSA infections.

► Achieving 95% adherence rates for each Surgical Care Improvement Project/National Quality Forum infection process measure for surgical-site infections.

Kathy Warye, CEO of the Association for Professionals in Infection Control and Epidemiology, said the goals are reasonable.

Dr. Patrick J. Brennan, chairman of the Healthcare Infection Control Practices Advisory Committee, said it also addresses concerns about a lack of coordination among the federal agencies and departments that have some responsibility for health care-associated infections. Dr. Brennan served on the steering committee that prepared the report.

The plan is online at www.hhs.gov/ ophs/initiatives/hai.

## Pediatric MRSA **Infections Soar**

he number of pediatric head-andneck infections caused by methicillin-resistant Staphylococcus aureus shot up at an "alarming" rate across the United States between 2001 and 2006.

Sixty percent of these methicillin-resistant S. aureus (MRSA) cases were community acquired rather than nosocomial, and nearly half were resistant to clindamycin-reversals of the patterns that these infections have shown until now.

Dr. Iman Naseri of the department of otolaryngology, head and neck surgery, at Emory University, Atlanta, and associates used a national microbiology database to assess trends in MRSA prevalence. It includes strain-specific antimicrobial drug resistance test results from laboratories serving more than 300 hospitals.

They reviewed reports on 21,009 patients aged 0-18 years (mean, 7 years) whose head and neck infections were cultured between 2001 and 2006. The cultures were taken from the oropharynx/ neck (60%), nasal or sinus cavity (38%), and middle or external ear (2%).

Overall, 4,534 samples (22%) were infected with MRSA. In 2001, about 12% of S. aureus infections were methicillin resistant. This proportion rose steadily during the 5 years of the study to more than 28% (Arch. of Otolaryngol. Head Neck Surg. 2009;135:14-6).

The highest rate of infection occurred in the otologic cultures, which also had the highest prevalence of clindamycin resistance of the three sites. -Mary Ann Moon