Endovascular Beats Open Surgical Repair for AAA

BY ROBERT FINN

San Francisco Bureau

SCOTTSDALE, ARIZ. — Endovascular repair of abdominal aortic aneurysms was associated with fewer perioperative complications than was open repair in a large study based on Medicare data.

At an international congress on endovascular interventions sponsored by the Arizona Heart Institute, Dr. James F. Mc-Kinsey reported on 174,974 patients who

had open repair and 38,629 patients who underwent endovascular repair. In the open surgery group, 30-day mortality was over 2.5 times greater than in the endovascular group, a significant difference.

Also, endovascular repair was associated with fewer peripheral vascular complications (1.6% vs. 3.3%), a lower incidence of postoperative shock (0.1% vs. 0.4%), and fewer infections (0.7% vs. 2.9%).

Endovascular repair was associated with

significantly fewer gastrointestinal, pulmonary, renal, neurologic, cardiac, and surgical complications.

The mean length of hospital stay (3 days vs. 9 days) also strongly favored the endovascular group.

Device malfunction was the only complication that was significantly greater in the endovascular group, compared with the open surgery group (3.0% vs. 1.1%).

"The people undergoing endovascular repair were a sicker group to start with,"

said Dr. McKinsey, of Columbia University Medical Center, New York. They tended to have elevated lipid levels as well as a higher incidence of diabetes, hypertension, coronary artery disease, and cerebrovascular disease.

In recent years, several controlled clinical trials arrived at the same conclusion: that endovascular repair of abdominal aortic aneurysms (AAA) is superior to open repair. "The difficulty with these trials is that they were generally done in centers of excellence that are really geared toward endovascular repair, and may not reflect the average commonday experience in the United States," Dr. McKinsey said.

Using the full Medicare database has several advantages. Information from 41 million patients is included, and this allows detailed subgroup analysis to be conducted while retaining statistical power. Furthermore, the use of unique patient identifiers makes longitudinal studies possible, even when patients are seen at more than one hospital.

On the other hand, patients in this database are not randomly assigned to a treatment, diagnostic codes are not uniformly consistent, and some desirable data—such as test results—are absent.

The study included patients with diagnostic codes indicating primary or secondary diagnoses of AAA with or without

There were several exclusion criteria, including ruptured thoracic aneurysm, ruptured thoracoabdominal abdominal aneurysm, and complications resulting from other vascular devices, implants, or grafts.

30-Day Mortality Higher With Open Repair for AAA 4.2% 1.6% Open repair (n = 174,974) Endovascular repair (n = 38,629)Source: Dr. McKinsey

VERBATIM -

'I have to say things are going to get worse here before they get better.'

> Dr. Ian Gould, on the rising prevalence of MRSA-associated community-acquired pneumonia, p. 43

(valsartan and hydrochlorothiazide, USP) Combination Tablets 80 mg/12.5 mg; 160 mg/12.5 mg; 160 mg/25 mg; 320 mg/12.5 mg; 320 mg/25 mg

USE IN PREGNANCY
When used in pregnancy, drugs that act directly on the renin-angiotensin system can cause injury and even death to
the developing fetus. When pregnancy is detected, Diovan HCT should be discontinued as soon as possible. See
WARNINGS: Fetal/Neonatal Morbidity and Mortality.

CONTRAINDICATIONS

Diovan HCT® (valsartan and hydrochlorothiazide, USP) is contraindicated in patients who are hypersensitive to any comp of this product. Because of the hydrochlorothiazide component, this product is contraindicated in patients with anuria or hypersensitivity to other sulfonamide-derived drugs.

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**Reonatal Morbidity and Mortality: Drugs that act directly on the renin-angiotensin system can cause fetal and neonatal didy and death when administered to pregnant women. Several dozen cases have been reported in the world literature in its who were taking angiotensin-converting enzyme inhibitors. There have been reports of spontaneous abortion, oligo-mois and newborn renal dysfunction when pregnant women have taken valsartan. When pregnancy is detected, Diovan HCTP arian and hydrochlorothiazide, USP) should be discontinued as soon as possible. The use of drugs that act directly on the angiotensin system during the second and third trimesters of pregnancy has been associated with fetal and neonatal including hypotension, neonatal skull hypoplasia, anuria, reversible or irreversible renal failure, and death. Oligohy-

were ≥65 years and 118 (2.7%) were ≥75 years. No overall difference in the efficacy or safety of valsartan-hydrochlorothizative was observed between these patients and younger patients, but greater sensitivity of some older individuals cannot be ruled out ADVERSE REACTIONS
Diovan HCT® (Valsartan and hydrochlorothizatie. USP) has been evaluated for safety in more than 5700 patients, including over 990 treated for over 6 months, and over 370 for over 1 year. Adverse experiences have generally been mild and transien nature and have only infrequently required discontinuation of therapy. The overall indicance of adverse experiences with Diovan HCT was comparable to placebo. The overall frequency of adverse experiences was neither dose-related nor related to gender, age or race. In controlled clinical trials, is accontinuation of therapy due to side effects was required in 2.3% of valsartan-hydrochlorothizatide patients and 3.1% of placebo patients. The most common reasons for discontinuation of therapy with Diovan HCT were headed and dizzness. The only adverse experiences was neither dose-related nor related to generally with Diovan HCT and at a higher incidence in valsartan-hydrochlorothizatic (in-4572) than placebo. The only adverse experiences that have been reported with valsartan-hydrochlorothizatide (in-4572) than placebo. The only adverse experience that occurred in controlled millinat trials in a least 22% of patients is controlled clinical trials in a discontinuation of the case of the controlled in the controlled in the controlled patients in controlled clinical trials in a placebo. On the controlled the controlled in the controlled controlled in the co

ing toxic epidermal necrolysis; Special Senses: transient blurred vision, xanthopsia.

Clinical Laboratory Test Findings: in controlled clinical trials, clinically important changes in standard laboratory par were rarely associated with administration of Diovan HCT. Creatinine/Blood Unea Mirragen (BUM): Minor elevations innie and BUN occurred in 2% and 15% respectively, of patients taking Diovan HCT and 0.4% and 6%, respectively, of placebo in controlled clinical trials. Hemoglobin and Hemoslorits Creater than 20% Gecreases in hemoglobin and hemoslorits over the controlled clinical trials. Hemoglobin and Hemoslorits Creater than 20% Gecreases in hemoglobin and hemoslorits of the properties of the properties of the properties of the properties of the properties. Liver Final Tests: Occasional elevations (greater than 150%) of liver chemistries occurred in Diovan HCT-readed patients. Liver Final Pests: Occasional elevations (greater than 150%) of liver chemistries occurred in Diovan HCT-readed patients. Liver Final Final Pest Controlled Room Temperature].

Electrolyses: See PRECAUTIONS.

Store at 25°C (77°F): excursions permitted to 15-30°C (59-86°F) [see USP Controlled Room Temperature].

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