

Staged Intracranial and Extracranial Revascularization 1424

John M. Moran, MD; O. Howard Reichman, MD; William H. Baker, MD, Maywood, Ill
Carotid endarterectomy and superficial temporal to middle
cerebral artery bypass grafting may be helpful to some patients.

The Artificial Heart: Progress and Promise 1430

William S. Pierce, MD, Hershey, Pa; John A. Brighton, PhD, University Park, Pa;
James H. Donachy; Donald L. Landis; Gerson Rosenberg, PhD; G. Allen Prophet;
William J. White, VMD; John A. Waldhausen, MD, Hershey, Pa
Improvement in the pump design of a totally implantable artificial heart has
resulted in a gradual improvement in survival times in calves, with the last
two animals living 60 and 42 days. These results are encouraging
for ultimate development of an artificial heart for man.

**An Intracorporeal (Abdominal) Left Ventricular Assist
Device: Initial Clinical Trials** 1442

John C. Norman, MD; John M. Fuqua; C. Wayne Hibbs, MS;
Charles H. Edmonds, MD; Stephen R. Igo; Denton A. Cooley, MD, Houston
Initial clinical trials of the intracorporeal left ventricular assist device
in ten patients indicate that the potential of allowing
the human left ventricle to rest and undergo intrinsic reparative
processes for prolonged periods, may be gradually realized.

**Pulmonary Artery Banding for Ventricular Septal Defect With
Pulmonary Hypertension** 1454

Bruce C. Paton, MD; James R. Stewart, MD; James J. Nora, MD;
Charles R. Hawes, MD; Arthur E. Prevedel, MD, Denver
Pulmonary artery banding should not be abandoned as a palliative
operation, particularly under the unusual circumstances of moderately
high altitude as found in Denver. The two-stage procedure may
still convert high risk infants into lower risk children for total
correction of ventricular septal defect.

Nonsyphilitic Coronary Ostial Stenosis 1462

Hendrick B. Barner, MD; John E. Codd, MD;
J. Gerard Mudd, MD; George C. Kaiser, MD;
Denis H. Tyras, MD; Hillel Laks, MD; Vallee L. Willman, MD, St Louis
The preferred treatment for this uncommon lesion is the
placement of two left-sided coronary bypasses.

Carpentier Ring Annuloplasty in Severe Noncalcific Mitral Insufficiency 1469

Paramjeet S. Chopra, MD; George G. Rowe, MD; William P. Young, MD;
Louise L. Loring; Richard C. Hamann; Donald R. Kahn, MD, Madison, Wis
Carpentier ring annuloplasty is preferable to valve replacement in
patients with severe non-calcific mitral insufficiency and no major
loss of leaflet substance since it eliminates the hazards
of a prosthesis and of long-term anticoagulant therapy.

**Aortic Valve Replacement in the Elderly: Encouraging Postoperative
Clinical and Hemodynamic Results** 1475

Mark S. Hochberg, MD; Andrew G. Morrow, MD;
Lawrence L. Michaelis, MD; Charles L. McIntosh, MD;
David R. Redwood, MD; Stephen E. Epstein, MD, Bethesda, Md
Aortic valve replacement in patients over the age of 60
carries the same low risk and brings similar improvement in left
ventricular pump function as in patient under the age of 60.

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Heparin-Coated Shunts for Lesions of the Descending Thoracic Aorta: Experimental and Clinical Observations 1481

Walter G. Wolfe, MD; Leonard H. Kleinman, MD; Andres S. Wechsler, MD; David C. Sabiston, Jr, MD, Durham, NC

Most lesions of the descending thoracic aorta can be successfully managed with the use of a bypass shunt. Selection of the shunt site should be determined by the technical ease of insertion, but if the choice exists, available evidence suggests that insertion of the shunt distal to the aortic valve is preferred.

Assessment of Cardiac Risk in Surgical Patients 1488

Andrew A. Gage, MD; Joginder N. Bhayana, MD; Venkataraman Balu, MD; Nancy Hook, RN, Buffalo

Exercise stress testing is a helpful, noninvasive method for detecting severe but asymptomatic coronary artery disease in patients admitted for elective noncardiac surgery.

ORIGINAL ARTICLES

Preoperative Bowel Preparation: Erythromycin Base Serum and Fecal Levels Following Oral Administration 1493

Ronald Lee Nichols, MD, New Orleans; Robert E. Condon, MD, Milwaukee; Anthony R. DiSanto, PhD, Kalamazoo, Mich

Mechanical cleansing was associated with higher levels of antibiotic in the colon.

Etiology of Catheter-Associated Sepsis: Correlation With Thrombogenicity 1497

Richard M. Stillman, MD; Fawzi Soliman, MD; Luis Garcia, MD; Philip N. Sawyer, MD, Brooklyn, NY

A correlation between the presence of thrombus and positive catheter culture was noted, whereas catheters of relatively nonthrombogenic material were also relatively free of bacterial contamination.

BRIEF CLINICAL NOTE

Spontaneous Mediastinal Hemorrhage Associated With Renovascular Hypertension 1500

Alfred T. Culliford, MD; Gerald D. Ginsberg, MD; Richard S. Lefleur, MD; Anthony J. Acinapura, MD, New York

An unusual complication associated with hypertension due to renal artery stenosis.

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