

Archives of Surgery

Vol 104
April

No 4
1972

Official Publication, Central Surgical Association, International Cardiovascular Society and Western Surgical Association

EDITORIAL BOARD

Richard Warren, MD, Boston
Chief Editor

Robert M. Goldwyn, MD, Brookline, Mass
Assistant Chief Editor

Henrik H. Bendixen, MD, San Diego, Calif

Eric W. Fonkalsrud, MD, Los Angeles

C. Rollins Hanlon, MD, Chicago

Edward S. Judd, MD, Rochester, Minn

Donald B. Kettlekamp, MD, Little Rock, Ark

Paul S. Russell, MD, Boston

David C. Sabiston, Jr., MD, Durham, NC

Norman E. Shumway, Jr., MD, Palo Alto, Calif

Robert Zeppa, MD, Miami, Fla

George D. Zuidema, MD, Baltimore

CONSULTING EDITORS

Viking O. Bjork, MD, Stockholm, Sweden

John B. Kinmonth, MS, London, England

Ernest B. Howard, MD
Executive Vice-President

David W. Powers
Director, Management Services Division

William J. Kissinger
General Sales Manager

Walter H. Kimotek
Advertising Services Manager

Robert A. Enlow
Circulation Manager

CONTENTS

PAPERS READ BEFORE THE SEVENTY-NINTH ANNUAL MEETING OF THE WESTERN SURGICAL ASSOCIATION, PORTLAND, ORE, NOV 17-20, 1971

- A Surgeon Looks at Group Practice** 393
Raleigh R. White III, MD, Temple, Tex
- Massive Upper Gastrointestinal Tract Hemorrhage: A Manifestation of Regional Enteritis of the Duodenum** 397
Maj Edward T. Paget, MC, USAF, Travis AFB, Calif; Mark P. Owens, MD, Davis, Calif; Col William O. Peniston, MC, USAF, Travis AFB, Calif; and Carleton Mathewson, Jr., MD, San Francisco
Vagotomy and drainage effective in three patients.
- Factors in the Prognosis of Adenocarcinoma of the Colon and Rectum** 401
Maj Peter M. Sanfelippo, MC, USAF, and Oliver H. Beahrs, MD, Rochester, Minn
Five-year survival rate was 71% in the asymptomatic group.
- Cloacogenic Carcinoma of the Anal Canal** 407
Simon Kheir, MD; Robert C. Hickey, MD; Richard G. Martin, MD; Bruce MacKay, MD; and Harry S. Gallager, MD, Houston
Thirty patients reported; the tumor is an unfavorable one.
- Colectomy in Children With Ulcerative and Granulomatous Colitis: Operative Indications and Results** 416
Charles F. Frey, MD, and Donald K. Weaver, MD, Ann Arbor, Mich
Colectomy restored growth rates to normal in most patients.
- Ileorectostomy for Ulcerative Disease of the Colon** 424
Martin A. Adson, MD; Avram M. Cooperman, MD; and George M. Farrow, MD, Rochester, Minn
Ileorectostomy possible in carefully selected patients.
- Hirschsprung's Disease: Pitfalls in Diagnosis and Surgical Management** 429
Robert T. Soper, MD, and Peter R. Figueroa, MD, Iowa City
Results of the modified Duhamel and Soave procedures roughly similar.
- High Calorie Parenteral Therapy in Infants and Children** 434
Morris J. Asch, MD; Robert F. Huxtable, MD; and Daniel M. Hays, MD, Los Angeles
Consistent weight gain achieved with low complication rate.
- The Importance of Six Common Bacteria in Intestinal Strangulation** 438
Charles E. Yale, MD, DSc, and Edward Balish, PhD, Madison, Wis
Proteus vulgaris and *Pseudomonas aeruginosa* most virulent in the rat model.
- Recent Advances in Management of Functioning Islet Cell Tumor** 443
Deward O. Ferris, MD; George D. Molnar, MD; Norbert Schnelle, MD; James D. Jones, PhD; and Emerson A. Moffitt, MD, Rochester, Minn
Intraoperative blood glucose monitoring extremely valuable.
- Excisional Therapy for Ulcerogenic Tumors of the Duodenum: Long-Term Results** 447
Harry A. Oberhelman, Jr., MD, Stanford, Calif
Excision of tumor preferred to total gastrectomy.
- Surgical Treatment of Hydatid Disease: Prevention of Complications and Recurrences** 454
Christos A. Pissiotis, MD, Iowa City; John V. Wander, MD, Chicago; and Robert E. Condon, MD, Iowa City
Disease contracted in the United States in 2 of the 11 patients.
- Sclerosing Cholangitis** 460
Bernard W. Thompson, MD; Raymond C. Read, MD; and Harold J. White, MD, Little Rock, Ark
Prognosis poor; prolonged common duct drainage best palliative treatment.

PUBLICATION STAFF
Offices: 535 N Dearborn St
Chicago, Ill 60610

Hugh H. Hussey, MD,
Director
Scientific Publications Division
American Medical Association

Hugh H. Hussey, MD,
Corresponding Editor

Ernest W. Beck
Executive Managing Editor

Norman D. Richey,
Production Manager

Assistant Managing Editor: Charles F. Chapman

Manuscript Quality Review: Dorothy K. Deering (supervisor), Pamela Goorsky, Eileen Wickboldt

Copy Editing: Diana Morgan (supervisor), Jodey Schonfeld

Proofreading: Lorraine L. Kruse (supervisor), Elvina Nerwin, Anne Smith, Sharon L. Stephenson, Dorothy Waier

Indexer: Helen A. Ehrhardt

Art Director: Ralph L. Linnenburger

Art Production: Raymond Dorn (manager), Julia Bero, Laura Obecnay, Mary Palmer, Charlene Teifeld, JoAnne Weiskopf, Olga Wilszaneck

Production Supervisors: Thomas J. Handrigan (Illustrations), Marlene M. Hinsch (Editorial), James P. Bagniewski (Advertising), Frank Van Santen (Production Services)

Senior Production Assistants: M. Kathleen Berka, Florence Meyer, Suzan Smith

Production Assistants: Martina Clarke, Pamela Gonsowski, Ruth Kettleson, Bernadette Logocki, Catherine Peltier, Rolettha Watkins

Please address communications concerning accepted or published communications to: AMA Specialty Journals, 535 N Dearborn St, Chicago, Ill 60610.

Advertising Offices.—535 N Dearborn St, Chicago 60610, Area Code 312, 527-1500; and 122 E 42nd St, New York 10017, Area Code 212, 867-6640.

Advertising Principles.—Each advertisement in this issue has been reviewed and complies with the principles governing advertising in AMA scientific publications. A copy of these principles is available upon request.

Subscription Rates.—The yearly rate of the ARCHIVES OF SURGERY is as follows: United States, US Possessions, Canada, and Mexico—one year, \$12; two years, \$18; all other countries—one year, \$25; two years, \$35. Special price to residents, interns, and medical students in the United States, US Possessions, Canada, and Mexico—one year, \$6. Single copies of the current year and the immediate past year will be \$1.25 each and may be ordered from the Circulation Department, American Medical Association, 535 N Dearborn St, Chicago 60610. Back issues older than two years are available through Walter J. Johnson, Inc., 115 Fifth Ave, New York 10003.

Change of Address.—Please notify the publisher at least six weeks in advance, include both old and new address, and a mailing label taken from the most recent copy. Include your new zip code number.

THE ARCHIVES OF SURGERY is published monthly by the American Medical Association, 535 N Dearborn St, Chicago 60610, and is an official publication of the Association, Second-class postage paid at Chicago, and at additional mailing office.

- The Changing Clinical Pattern of Hepatic Abscesses** 465
John F. Lee, MD, and George E. Block, MD, Chicago
Cryptogenic etiology increasing, biliary decreasing.
- Multiple Valve Replacement: An Analysis of Early and Late Results** 471
Allen I. Midell, MD, and Arthur DeBoer, MD, Chicago
Twenty-one of 91 patients died but 55 excellent long-term results.
- Spasm in the Differential Diagnosis of Gastroesophageal Reflux** 477
C. Thomas Bombeck, MD; W. Stuart Battle, MD; and Lloyd M. Nyhus, MD, Chicago
Esophageal spasm not relieved by operations to prevent reflux.
- Operative Cholangiography During Routine Cholecystectomy: A Review of 3,012 Cases** 484
Gerard S. Kakos, MD, Columbus, Ohio; Ronald K. Tompkins, MD, Los Angeles; William Turnipseed, MD; and Robert M. Zollinger, MD, Columbus, Ohio
Routine cholangiography means fewer ducts explored and more positive explorations.
- Hemorrhagic Pancreatitis** 489
George L. Jordan, Jr., MD, and Harlan J. Spjut, MD, Houston
Few survivors from operative peritoneal drainage; none from nonoperative therapy.
- Renal Vein Renin Ratios and Collateral Vessels in Renovascular Hypertension** 496
Calvin B. Ernst, MD; Joseph J. Bookstein, MD; James Montie, MD; Earl Baumgartel, MD; Sibley W. Hoobler, MD; and William J. Fry, MD, Ann Arbor, Mich
Collaterals developing around stenosis can revert renin ratios toward unity.
- Early Tangential Excision of the Eschars of Major Burns** 503
William W. Monafa, MD; Carl E. Aulenbacher, MD; and Carlos Pappalardo, MD, St. Louis
No anesthesia, little blood loss, early wound closure, shorter hospital stays.
- Experience With *Candida* Infections in the Burn Patient** 509
Bruce G. MacMillan, MD; Edward J. Law, MD; and Ian A. Holder, PhD, Cincinnati
Disseminated candidiasis becoming more frequent.
- Bilateral Impedance Rheography in the Diagnosis of Deep Venous Thrombosis of the Legs** 515
Alan B. Gazzaniga, MD; Allan F. Pacela, ScD; Robert H. Bartlett, MD; and Tamar R. Geraghty, RN, Irvine, Calif
False-positive results may be diminished by maximal inspiration in the prone position.
- Surgical Management of Secondary Hyperparathyroidism** 520
H. Earl Gordon, MD; Jack W. Coburn, MD; and Edward Passaro, Jr., MD, Los Angeles
Subtotal parathyroidectomy caused significant improvement in seven of 10 patients.
- Femoral-Tibial Bypass Grafting** 527
Donald L. Kaminski, MD; Hendrick B. Barner, MD; John A. Dorigi, MD; George C. Kaiser, MD; and Vallee L. Willman, MD, St. Louis
Intraoperative flow measurements did not correlate with late patency.
- Retrograde Arterial Embolectomy for Limb Salvage** 532
Mark M. Kartchner, MD, Tucson, Ariz
Among other advantages, the embolectomy can be done under local anesthesia.

Contents continued on p 370.

INDEX TO ADVERTISERS

A	
Ayerst Laboratories	379, 388-390
B	
Burroughs Wellcome Company	378
C	
Carnation Company	609
E	
Eaton Laboratories, Division of The Norwich Pharmacal Company 375, 614	
Endo Laboratories, Inc.	613
Ethicon, Inc.	384-385
F	
Fleet, C. B., Company, Inc.	371
L	
Lilly, Eli & Company	391-392
P	
Pharmacia Laboratories	380-382
Purdue Frederick Company	373
R	
Roche Laboratories, Division of Hoffmann-LaRoche, Inc.	2nd Cover-367, 376-377, 383, 3rd Cover-4th Cover
S	
Stuart Pharmaceuticals Division of I.C.I. America, Inc.	611
U	
Upjohn Company	494-495
W	
Windsor Nuclear Inc.	612
Wyeth Laboratories	386-387

Contents continued from p 369.

Quantitative Peritoneal Lavage in Blunt Abdominal Trauma William R. Olsen, MD; Helen C. Redman, MD; and Douglas H. Hildreth, MD, Eloise, Mich Provided clearer definition of surgical and nonsurgical cases.	536
Liver Trauma: Current Method of Management Robert C. Lim, Jr., MD; John Knudson, MD; and Muriel Steele, MD, San Francisco Useful description of steps in management.	544
Acute Mediastinal Widening Following Blunt Chest Trauma: Critical Decisions Robert F. Wilson, MD; Agustin Arbulu, MD; Joseph S. Bassett, MD; and Alexander J. Walt, MD, Detroit Diagnosis difficult and aortography invaluable.	551
Coagulation Changes in Acutely Bleeding Patients Joseph A. Caprini, MD; E. Stephen Kurtides, MD; and John M. Dorsey, MD, Evanston, Ill Thorough routine coagulation "profile" in 57 patients may have avoided operation in 8.	559
Thrombosis of the Internal Carotid Artery Following Blunt Cervical Trauma Jonathan B. Towne, MD; Delbert D. Neis, MD; and John W. Smith, MD, Omaha Hemorrhagic cerebral infarction followed emergency restoration of flow in one case.	565
Acute Aortic Thrombosis Lawrence A. Danto, MD; William J. Fry, MD; and Richard O. Kraft, MD, Ann Arbor, Mich Emergency bypass mandatory.	569
Conversion of Hollander Tests in Man From Positive to Negative: Beta-Adrenergic Blockade With Propranolol, Hydrochloride Raymond C. Read, MD; Bernard W. Thompson, MD; and William H. Hall, MD, Little Rock, Ark Postvagotomy insulin stimulated secretion often lower after beta-adrenergic blockade.	573
Medullary Thyroid Carcinoma Detected by Serum Calcitonin Assay Melvin A. Block, MD, and Charles E. Jackson, MD, Detroit; and Armen H. Tashjian, Jr., MD, Boston Serum calcitonin levels made diagnosis before clinical manifestation.	579
Treatment of Malignant Melanoma: Wide Excision Alone vs Lymphadenectomy Col Fred G. Conrad, MC, USAF, San Antonio, Tex The patients with lymphadenectomy fared no better than those without.	587
Cecal Volvulus: A Lesion Requiring Resection Jerry R. Meyers, MD; Carl J. Heifetz, MD; and Arthur E. Baue, MD, St. Louis Eight of nine patients cured by right colectomy.	594
Clinical Fate of the Patient With Asymptomatic Abdominal Aortic Aneurysm and Unfit for Surgical Treatment D. Emerick Szilagyi, MD; Joseph P. Elliott, MD; and Roger F. Smith, MD, Detroit High incidence of rupture if aneurysm is large or patient is hypertensive.	600
REGULAR DEPARTMENTS	
Editorial	
An All-Volunteer National Blood Program J. Garrott Allen, MD, Stanford, Calif	607
News and Comment	608