

ARCHIVES OF SURGERY

The ARCHIVES OF SURGERY is a member of the consortium of AMA journals listed below. The complete text of all AMA journals is available online directly from AMA as well as the following aggregators: Dialog Information Services, Proquest, Ovid Technologies, Inc, Gale Research, and EBSCO.

The Journal of the American Medical Association (JAMA)

Archives of Dermatology

Archives of Facial Plastic Surgery

Archives of General Psychiatry

Archives of Internal Medicine

Archives of Neurology

Archives of Ophthalmology

Archives of Otolaryngology-Head & Neck Surgery

Archives of Pediatrics & Adolescent Medicine

Archives of Surgery

The ARCHIVES OF SURGERY (ISSN 0004-0010) is published monthly by the American Medical Association, 515 N State St, Chicago, IL 60610-0946, and is an official publication of the Association. The ARCHIVES OF SURGERY reaches more than 21 500 readers in over 71 countries each month. Periodicals postage paid at Chicago, IL, and at additional mailing offices. GST registration number 12622 5556 RT. Canada Post International Publications Mail (Canadian Distribution) Sales Agreement No. 319309.

Printed in the USA.

Official publication of the New England Surgical Society, Pacific Coast Surgical Association, and Western Surgical Association.

SUBSCRIPTION RATES—

	Individual Print & Online	Individual Online Only
US	\$180	\$140
Americas	\$235	\$140
Rest of World	£165	£100
	Institution Print & Online	Institution Online Only
US	\$340	\$260
Americas	\$445	\$260
Rest of World	£290	£185

Rates for residents and medical students available.

CHANGE OF ADDRESS—POSTMASTER, send all address changes to ARCHIVES OF SURGERY, c/o Subscriber Services, American Medical Association, 515 N State St, Chicago, IL 60610. Please notify us of address change at least 6 weeks in advance to ensure uninterrupted service. Include both old and new addresses, a recent mailing label, and new ZIP code. For mailing addresses outside the United States and the Americas, see below.

SUBSCRIPTION INFORMATION—Subscription inquiries for mailing addresses in the US and the Americas: For fastest service, direct inquiries regarding missing issues, address changes, subscription billing, subscription renewal, or back issue purchases as shown below: **AMA members:** Phone: 800-262-3211 between 8:30 AM-4:45 PM CST; Fax: 800-262-3221; E-mail: mhc@ama-assn.org. **Other physicians and non-physician customers:** Phone: 800-262-2350 or 312-670-7827 (same hours as above); Fax: 312-464-5831; E-mail: ama-subs@ama-assn.org. Mail inquiries should be directed to the Unified Service Center, American Medical Association, PO Box 10946, Chicago, IL 60610-0946. For mailing addresses outside the US and the Americas: Contact JAMA and Archives Journals, American Medical Association, Tower House, Sovereign Park, Market Harborough, Leicestershire LE15 9EF, UK. Phone: +44 (0) 1858-438880; Fax: +44 (0) 1858-434958; E-mail: ama@subscription.co.uk.

REPRINTS—Authors place their reprint order at the time the edited typescript is reviewed and should allow 4 to 6 weeks for delivery following publication. Requests for individual reprints should be sent directly to the author at the address shown in the article.

For bulk reprint orders for distribution by commercial organizations, please contact Wanda Bartolotta, 2441 84th St, Brooklyn, NY 11214. Phone: (718) 946-7424. Fax: (718) 946-7372. E-mail: wanda_bartolotta@ama-assn.org. For reprint orders in limited quantities for distribution by educational organizations and for author reprints, please contact Reprints Coordinator, 515 N State St, Chicago, IL 60610. Phone: (312) 464-4594. Fax: (312) 464-4849.

PERMISSIONS—Contact Rhonda Bailey, Permissions Assistant, 515 N State St, Chicago, IL 60610. Phone: (312) 464-2513.

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 on request. The appearance of advertising in AMA publications is not an AMA guarantee or endorsement of the product or the claims made for the product by the manufacturer.

WORLD WIDE WEB ADDRESS—<http://www.ama-assn.org>

SURGERY HOME PAGE—<http://www.archsurg.com>

Publication Staff

Offices: 515 N State St, Chicago, IL 60610

Editorial Processing Department

Department Director: Paula Glitman

Copyediting Manager:

Brenda Gregoline

Freelance Copyediting Manager:

Diane L. Cannon

Freelance Copyediting Coordinators:

Lauren B. Fischer

Connie Manno

Editorial Systems Managers:

Paul Frank

Monica Mungle

Systems Programmer/Internet Specialist:

J. D. Neff

Senior Copy Editor:

Vickey Golden

Copy Editors:

Juana N. Llorens

Rachel Novickas

Cheryl L. Tobey

Rachel Bodzin Young

Editorial Assistant: Wanda Hill

Scientific Publications & Multimedia Applications

Assistant to the Editor: Helga Fritz

Scientific Online Resources

Director: Margaret Winker, MD

Electronic Media Department Director:

Michelle Kurzynski

Associate Web Editors:

Katherine Behar

Erin M. Giannini

Web Office Manager: Marla A. Hall

Publishing Operations Division

Division Director: Vanessa Hayden

Directors: Karen Adams-Taylor,

Paul Gasielki

Managers: David Antos, Debbie Camp,

Karl Elvin, Betty Frigerio,

Mary Ellen Johnston, Susan Price,

Charl Richey, Carmela Ware

Production Associates and Specialists

Advertising and Production Services:

LaWanda Brown, Susan Chiara,

Mary Anne Donley, Brian McCartney,

Sarah Powell, Denise Steinhauer,

Ellen Yoshihara

Composition: Rebecca Aiken,

Brenda Chandler-Grayer, Amy Evers,

Fred Furtner, Mary Ann Kuranda,

Sandra Lopez

Database & New Media:

Bruce McGregor (indexer),

Clifford O. Barrett, Gail Barrett,

Regina Brownlee, Rowena F. Dagang,

John Marcinek, La'son Diggs Sledge,

Angela Smits

Distribution: Linda Alexander

Graphics: Joe Amft, Noel Chaparro,

Carolyn Hall, Maria Kowalkowski,

Chris Meyer, JoAnne Weiskopf

Proofreading: Carol Joy Farrell,

Daniel James, Teresa H. Omiotek,

Mary Kay Tinerella,

Barbara Wojtowicz,

Agnes A. Zarkadas

Circulation & Classified Advertising Division

Division Director: Curt Reilly

Administrative Assistant: Christine Hearne

Circulation Services

Director: Sue Sherrill

Administrative Secretary:

Bernadette Bauer

Systems Manager: Alfred Tomaselli

Assistant Applications Administrator:

Julie Burton

Manager: J. Patrick Lupton

Specialist: Kathryn Osten

Circulation Sales & Marketing

Managers: Michael McGraw,

Vida Damijonaitis

Sales Representatives:

Sandra Garzon, Donna Goldman

Classified Advertising

Manager: Thalia Moss

Sales Representatives: Ana Dirksen,

Jessica Hauser, Trina Rizzo,

Barbara Van Wagner

Physician's Marketplace—

Classified Advertising: (800) 262-2260

Advertising Sales & Marketing

Division Director: Peter J. Murphy

Account Manager:

John P. Cahill (Nationally)

(708) 352-0322

Advertising Office:

J. P. Cahill & Associates

341 S Waiola Ave

La Grange, IL 60525

(708) 352-0322

Publishing Manager: Geoffrey A. Flick

International Licensing & Publishing Affairs

Director: William Fox

Online Business & CME

Publisher: Bonnie Chi-Lum, MD, MPH

Director: Norman Frankel, PhD

Permissions: Rhonda Bailey

JAMA/Archives Media Relations

Director: Jann Ingmire

(312) 464-5374

jann_ingmire@ama-assn.org



ARCHIVES OF SURGERY

JULY 2002

VOLUME 137, NUMBER 7

PAGES 761-876

MISSION STATEMENT

To promote the art and science of surgery by publishing relevant peer-reviewed clinical and basic science information to assist the surgeon in optimizing patient care. The *Archives of Surgery* will also serve as a forum for the discussion of issues that involve ethics, teaching, surgical history, and socioeconomic concerns.

*Approved by the Editorial Board, *Archives of Surgery*, July 19, 1996.

COMMENTARY

Pancreatoduodenectomy for Pancreatic Adenocarcinoma: Triumph, Triumphalism, or Transition? 771
Edward L. Bradley III, MD

Invited Critique 773
Michael Trede, MD, HonFRCS, HonFACS

Bovine Pericardium vs Dacron for Patch Angioplasty After Carotid Endarterectomy: A Prospective Randomized Study 785
Brian J. Marien, MD; Joseph D. Raffetto, MD; Craig S. Seidman, MD; Wayne W. LaMorte, MD, PhD, MPH; James O. Menzoian, MD

Male Sex Predisposes the Newborn Surgical Patient to Parenteral Nutrition-Associated Cholestasis and to Sepsis 789
Marcel J. I. J. Albers, MD; Dana-Anne H. de Gast-Bakker, MD; Nicolette A. M. van Dam, MD; Gerard C. Madern, MD; Dick Tibboel, PhD

Perianal Crohn Disease: A New Scoring System to Evaluate and Predict Outcome of Surgical Intervention 774
Alon J. Pikarsky, MD; Pascal Gervaz, MD; Steven D. Wexner, MD

Invited Critique 778
Marc D. Basson, MD, PhD

Surgical Undergraduate Education in Rural Australia 794
Martin H. Bruening, BM, BS; Guy J. Maddern, PhD

Outcome Study of Psychological Distress and Nonspecific Symptoms in Patients With Mild Primary Hyperparathyroidism 779
Takahiro Okamoto, MD, MSc; Toshiko Kamo, MD, PhD; Takao Obara, MD, PhD

Invited Critique 784
Richard E. Burney, MD

The Clinical and Economic Correlates of Misdiagnosed Appendicitis: Nationwide Analysis 799
David R. Flum, MD; Thomas Koepsell, MD, MPH

Invited Critique 804
Russell A. Williams, MD

JAMA
&
ARCHIVES
JOURNALS
American Medical Association

All articles published, including editorials, letters, and book reviews, represent the opinions of the authors and do not reflect the policy of the American Medical Association, the Editorial Board, or the institution with which the author is affiliated, unless this is clearly specified.

Catherine D. DeAngelis, MD, MPH
Editor in Chief, Scientific Publications
& Multimedia Applications

Nawin Gupta, PhD
Group Publisher

Cheryl Iverson
Managing Editor

Michael D. Maves, MD, MBA
Executive Vice President,
Chief Executive Officer

Robert A. Musacchio, PhD
Senior Vice President,
Publishing & Business Services

Copyright 2002 by the American Medical Association. All rights reserved.
Reproduction without permission is prohibited.

- Cholesterol and Serum Albumin Levels as Predictors of Cross Infection, Death, and Length of Hospital Stay** 805
Miguel Delgado-Rodriguez, MD, MPH; Marcelino Medina-Cuadros, MD; Antonio Gómez-Ortega, MD; Gabriel Martínez-Gallego, MD; Marcial Mariscal-Ortiz, MD; Miguel Angel Martinez-Gonzalez, MD; Maria Sillero-Arenas, MD
- Effect of Topically Applied Charged Particles on Healing of Colonic Anastomoses** 813
Mehmet Guler, MD; Murat Kologlu, MD; Nuri Aydin Kama, MD; Nurten Renda, MD; Ugur Gozalan, MD; Yunus Nadi Yuksek, MD; Gul Daglar, MD
- Recent Experience With Preoperative Fine-Needle Aspiration Biopsy of Thyroid Nodules in a Community Hospital** 818
Joseph A. Blansfield, MD; Martha J. Sack, MD; John S. Kukora, MD
- A Randomized, Controlled Trial of Promogran (a Collagen/Oxidized Regenerated Cellulose Dressing) vs Standard Treatment in the Management of Diabetic Foot Ulcers** 822
Aristidis Veves, MD; Peter Sheehan, MD; Hau T. Pham, DPM; for the Promogran Diabetic Foot Ulcer Study
- The Volume-Outcome Effect for Abdominal Aortic Surgery: Differences in Case-Mix or Complications?** 828
Justin B. Dimick, MD; Peter J. Pronovost, MD, PhD; John A. Cowan, MD; Gorav Ailawadi, MD; Gilbert R. Upchurch, Jr, MD
- Genetic and Histological Assessment of Surgical Margins in Resected Liver Metastases From Colorectal Carcinoma: Minimum Surgical Margins for Successful Resection** 833
Norihiro Kokudo, MD; Yoshio Miki, MD; Sachiko Sugai, MS; Akio Yanagisawa, MD; Yo Kato, MD; Yoshihiro Sakamoto, MD; Junji Yamamoto, MD; Toshiharu Yamaguchi, MD; Tetsuichiro Muto, MD; Masatoshi Makuuchi, MD
- The Performance of Master Surgeons on the Advanced Dundee Endoscopic Psychomotor Tester: Contrast Validity Study** 841
Nader K. Francis, MB, ChB, FRCS; George B. Hanna, PhD; Alfred Cuschieri, MD, FRSE
- Determinants for Successful Percutaneous Image-Guided Drainage of Intra-abdominal Abscess** 845
Marianne E. Cinat, MD; Samuel E. Wilson, MD; Adnan M. Din, MD

ARCHIVES OF SURGERY

Editor:

Claude H. Organ, Jr, MD
 University of California–San Francisco, East Bay
 1411 E 31st St
 Oakland, CA 94602
 archivesofsurgery@earthlink.net

Associate Editor:

CME Section Editor:
Gerald W. Peskin, MD
 Oakland, Calif

Section Editor, Operative Techniques:

Jack Pickleman, MD
 Chicago, Ill

Consultant in Surgical History:

Ira M. Rutkow, MD, MPH, DrPH
 Freehold, NJ

Web Editor:

Grace S. Rozycki, MD
 Atlanta, Ga

Editorial Assistant:

Margaret M. Kosiba
 Emeryville, Calif
 (510) 437-4940
 fax: (510) 534-5639
 archivesofsurgery@earthlink.net

Editorial Board

Timothy R. Billiar, MD
 Pittsburgh, Pa
Richard J. Bold, MD
 Sacramento, Calif
Jo Buyske, MD
 Philadelphia, Pa
Laurence Y. Cheung, MD
 Kansas City, Kan
Karen E. Deveney, MD
 Portland, Ore
Susan Galandiuk, MD
 Louisville, Ky
Clive S. Grant, MD
 Rochester, Minn
Alden H. Harken, MD
 Denver, Colo
J. Michael Henderson, MD
 Cleveland, Ohio
Eddie L. Hoover, MD
 Buffalo, NY
Joseph A. Ignatius, MD
 San Francisco, Calif
Danny O. Jacobs, MD, MPH
 Boston, Mass
Stephen F. Lowry, MD
 New York, NY

Ronald V. Maier, MD
 Seattle, Wash
David S. Mulder, MD
 Montreal, Quebec
Thomas A. Mustoe, MD
 Chicago, Ill
J. Patrick O'Leary, MD
 New Orleans, La
Mark L. Silen, MD, MBA
 Portland, Ore
Bruce E. Stabile, MD
 Torrance, Calif
Robert W. Thompson, MD
 St Louis, Mo
Steven D. Wexner, MD
 Fort Lauderdale, Fla
Michael E. Zenilman, MD
 Brooklyn, NY

International Advisory Board

Licinio Angelini, MD
 Rome, Italy
Leigh W. Delbridge, MD
 Sydney, NSW, Australia
S. T. Fan, MB, BS, MS
 Hong Kong, China

Ch. Herfarth, MD
 Heidelberg, Germany
Kazutomo Inoue, MD
 Kyoto, Japan
Jin-Pok Kim, MD
 Seoul, Korea
Raj Mohan Nambiar, MBBS
 Singapore
Hector Orozco, MD
 Mexico City, Mexico
Bernard F. Ribeiro, MB, BS, FRCS
 London, England
Manuel Trias, MD, PhD
 Barcelona, Spain

Former Editors

Dean Lewis, MD
 1920-1940
Waltman Walters, MD
 1941-1942; 1946-1961
Lester Dragstedt, MD
 1943-1945
J. Garrett Allen, MD
 1962-1969
Richard Warren, MD
 1970-1976
Arthur Baue, MD
 1977-1988

ARCHIVES OF SURGERY

Facilitation of Recovery From Acute Blood Loss With Hyperbaric Oxygen 850
James K. Wright, MD; William Ehler, DVM; David L. McGlasson, MS; William Thompson, MA

REVIEW ARTICLE

Vascular Gene Therapy: A Reality of the 21st Century 854
Brian S. Zuckerbraun, MD; Edith Tzeng, MD

SPECIAL ARTICLE

The Best of the Best—2001 862
Gerald W. Peskin, MD

SPECIAL FEATURE

Image of the Month 865
Ioannis Raftopoulos, MD, PhD; Theresa Lee, MD; Mitchel P. Byrne, MD

CORRESPONDENCE AND BRIEF COMMUNICATIONS

Enteral Hyperalimentation Benefits Patients With Postoperative Hypermetabolic Stress 867
Gerald Moss, PhD, MD, FCCM

Too Much Confidence (Intervals) in Advanced Trauma Life Support? 867
Stefan Sauerland, MD, MPH

In Reply 868
Stefano Di Bartolomeo, MD; Gianfranco Sanson, RN; Franca Scian, RN; Vanni Michelutto, MD; Luca Lattuada, MD; Giuseppe Nardi, MD

Disseminated Infection? 868
Duane R. Hospenthal, MD, PhD

In Reply 869
Peggy S. McKinnon, PharmD

MOMENTS IN SURGICAL HISTORY

Frank Waxham and Charles Truax's Intubation of the Larynx 870
Ira M. Rutkow, MD, MPH, DrPH

DEPARTMENTS

This Month in Archives of Surgery 769

New Board Member Announcements 770

Surgical Anatomy 793

Readership Poll Results 812

CME Announcement 821

Classified Advertising 871

Index to Advertisers 876

Instructions for authors are available on our Web site: <http://www.archsurg.com>. If you do not have access to the Web, contact Margaret Kosiba at (510) 437-4940.