

ARCHIVES

OF

FACIAL PLASTIC SURGERY

The ARCHIVES OF FACIAL PLASTIC SURGERY is a member of the consortium of AMA journals listed below. The complete text of all AMA journals is available online from Dialog Information Services and Ovid Technologies, Inc.

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 Pathology & Laboratory Medicine
Archives of Pediatrics & Adolescent Medicine
Archives of Surgery

The ARCHIVES OF FACIAL PLASTIC SURGERY (ISSN 1521-2491) is published quarterly by the American Medical Association, 515 N State St, Chicago, IL 60610-0946, and is an official publication of the Association. 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. 1451871.

Printed in the USA.

Official publication for American Academy of Facial Plastic and Reconstructive Surgery, Inc, American Society for Head and Neck Surgery, and American Society of Pediatric Otolaryngology.

SUBSCRIPTION RATES—The personal subscription rates for the ARCHIVES OF FACIAL PLASTIC SURGERY are \$110 for 1 year (4 issues) in the United States and US possessions; \$130 in the Americas; £79 outside the Americas. The institution rates for 1 year are \$195 in the United States; \$245 in the Americas; £145 outside the Americas. Special rates for residents, medical students, and AMA/AAPFRS members are available. Address all subscription communications to: Subscriber Services Center, American Medical Association, PO Box 10946, Chicago, IL 60610-0946. Phone: (800) 262-2350. Fax: (312) 464-5831. E-mail: ama-subs@ama-assn.org. For mailing addresses outside the United States and US possessions, see International Subscription Information.

CHANGE OF ADDRESS—POSTMASTER, send all address changes to ARCHIVES OF FACIAL PLASTIC 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 US possessions, see International Subscription Information.

SUBSCRIBER SERVICES—For information about subscribing to any of the AMA publications, change of address, missing issues, or purchasing back issues, please contact Subscriber Services Center, American Medical Association, PO Box 10946, Chicago, IL 60610-0946, or call (800) 262-2350 or (312) 670-SUBS (670-7827) between 8:30 AM and 4:30 PM CST. Fax: (312) 464-5831. E-mail: ama-subs@ama-assn.org. For mailing addresses outside the United States and US possessions, see International Subscription Information.

INTERNATIONAL SUBSCRIPTION INFORMATION—Subscriptions outside the United States and US possessions are served according to geographic region. Please address correspondence to the following 2 offices based on delivery address: (1) For delivery in North America, Central America, and South America, contact Subscriber Services, AMA, PO Box 10946, Chicago, IL 60610-0946. Phone: (312) 670-7827. Fax: (312) 464-5831. E-mail: ama-subs@ama-assn.org. (2) For delivery outside the Americas, contact JAMA & Archives Journals, Reader Services Centre, PO Box 299, London WC1H 9TD, England. Phone: +44 (0)171-383-6270. Fax: +44 (0)171-383-6402. E-mail: jama-archives@dial.pipex.com.

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, 500 Fifth Ave, #2210, New York, NY 10110. Phone: (212) 354-0050. Fax: (212) 354-1169. E-mail: wanda_bartolotta@ama-assn.org. For reprint orders in limited quantities for distribution by educational organizations and for author reprints, please contact Reprint 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>

FACIAL PLASTIC SURGERY HOME PAGE—<http://www.archfacial.com>

Publication Staff

Offices: 515 N State St, Chicago, IL 60610

Editorial Processing Department

Division Director: Cheryl Iverson
Director: Paula Glitman
Copyediting Manager: Lise M. Stevens
Freelance Copyediting Manager: Diane L. Cannon
Freelance Copyediting Coordinators: Gwen Chaffin
Connie Manno
Electronic Editing Specialist: Paul Frank
Assistant Electronic Editing Specialist: Monica Mungle
Senior Copy Editors: Dee E. Egger
Vickey Golden
Copy Editors: Jean Kang
John McFadden
Donald S. Smith
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
Web Development Editor: Keith Huff
Assistant Editor: Nikhil Torsekar
Web Copy Editor: Erin M. Giannini
Web Office Manager: Marla A. Hall
Editorial Assistant: Gemma Wall

Specialty Journal Division Office

Manager, Marketing Services: Geoffrey A. Flick
Assistant to the Publisher: Christine Hearne

Circulation & Content Marketing Division

Administrative Assistant: Millette Jackson-Bates

Circulation Processing Department

Director: Robert Herling
Subscriber Services Manager: Susan Stoken
Circulation Systems Manager: Alfred Tomaselli
Circulation Specialists: Reginald Jordan
Kathryn Osten

Circulation Development Department

Director: Bina Oza
Circulation Marketing Managers: Vida Damijonaitis
Donna Goldman
Michael McGraw
Circulation Marketing Specialist: Sandra Garzon

Licensing & Permissions Department

Director: Norman Frankel
Permissions: Rhonda Bailey

Production & Distribution Division

Directors: Karen Adams-Taylor,
Paul Gasiecki, Vanessa Hayden
Managers: David Antos, Karen Branham,
Debbie Camp, Diane Darnell,
Karl Elvin, Betty Frigerio,
Terri Hanley, Mary Ellen Johnston,
Carole Piszker, Susan Price,
Charl Richey, Carmela Ware
Production Assistants: Kristy Kambanis,
Ruth Sprague

Production Associates and Specialists

Advertising and Production Services: LaWanda Brown, Susan Chiara,
Mary Anne Donley, Sarah Powell,
Denise Steinhauer, Jo Anne Turner,
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,
Joel Brammeier, Regina Brownlee,
La'son Diggs Sledge, Angela Smits

Distribution: Linda Alexander,
Michelle Robinson

Graphics: Joe Amft, Noel Chaparro,
Carolyn Hall, Maria Kowalkowski,
Chris Meyer, JoAnne Weiskopf

Proofreading: Daniel James,
Teresa H. Omiotek,
Mary Kay Tinerella,
Barbara Wojtowicz,
Agnes A. Zarkadas

Advertising

Director, Advertising Sales: Peter G. Messina

AMA Classified Advertising Department: Thalia Moss, 800-262-2260.

Advertising Office:

East: Kelly Lezynski,
119 Cherry Hill Rd, 3rd Flr,
Parsippany, NJ 07054
(973) 263-9191.

Midwest/West: J. P. Cahill & Associates,
341 S Waiola Ave,
La Grange, IL 60525
(708) 352-1450.



ARCHIVES

OF

FACIAL PLASTIC SURGERY

JANUARY-MARCH 2001 VOLUME 3, NUMBER 1 PAGES 1-72

EDITORIALS

The Future of Facial Plastic Surgery 6
Wayne F. Larrabee, Jr, MD

Outcomes Research in Facial Plastic Surgery 7
Ramsey Alsarraf, MD, MPH;
Wayne F. Larrabee, Jr, MD

ORIGINAL ARTICLES

Sliding Genioplasty for Correction of Chin Abnormalities 8
Edward W. Chang, MD, DDS;
Samuel M. Lam, MD;
Matthew Karen, MD;
Jeffrey L. Donlevy, DDS, MD

Triple-Flap Technique for Reconstruction of Large Nasal Defects 17
Timothy W. Wild, MD, DDS;
C. Patrick Hybarger, MD

COMMENTARY

Triple-Flap Technique for Reconstruction of Large Nasal Defects 22
Frederick J. Menick, MD

ORIGINAL ARTICLES

Angioresistance of Thermally Modified Cartilage Grafts in the Chick Chorioallantoic Membrane Model 24
Brian J. F. Wong, MD;
Amir M. Karamzadeh, BS;
Marie J. Hammer-Wilson, MS;
Lih-Huei L. Liaw, MS;
J. Stuart Nelson, MD, PhD;
Thomas E. Milner, PhD

The Effect of Copper Tripeptide and Tretinoin on Growth Factor Production in a Serum-Free Fibroblast Model 28
Matthew C. McCormack, BA;
Kenneth C. Nowak, MD;
R. James Koch, MD, MS

Reliability of the Melolabial Flap for Alar Reconstruction 33
William H. Lindsey, MD

Acellular Dermis for Facial Soft Tissue Augmentation: Preliminary Report 38
Peter D. Costantino, MD; Satish Govindaraj, MD;
David H. Hiltzik, BA; Daniel Buchbinder, DMD, MD;
Mark L. Urken, MD

Cost Outcomes of Facial Plastic Surgery: Regional and Temporal Trends 44
Ramsey Alsarraf, MD, MPH;
Wayne F. Larrabee, Jr, MD, MPH;
Calvin M. Johnson, Jr, MD

American Medical Association

Physicians dedicated to the health of America



Copyright 2001 by the American Medical Association. All rights reserved.
Reproduction without permission is prohibited.

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

Robert L. Kennett
Vice President, Publishing

Peter L. Payerli
Publisher

Cheryl Iverson
Managing Editor

E. Ratcliffe Anderson, Jr, MD
Executive Vice President,
Chief Executive Officer

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

SURGICAL TECHNIQUE

- Trichophytic Incisional Approaches to Upper Facial Rejuvenation** 48
J. David Holcomb, MD;
E. Gaylon McCollough, MD

FELLOW'S PAGE

- Static Reanimation of the Paralyzed Face With an Acellular Dermal Allograft Sling** 55
Catherine P. Winslow, MD;
Tom D. Wang, MD; Mark K. Wax, MD

ETHICS AND PUBLIC POLICY

- Facial Plastic Surgery Web Site Ethics** 58
Arlen D. Meyers, MD, MBA

BOOK REVIEW

- Illustrated Cutaneous and Aesthetic Laser Surgery, 2nd ed** 61
Brian S. Jewett, MD

PERSPECTIVES

- Tord Skoog: Face-lift Innovator** 63
Marc S. Zimbler, MD

BEAUTY

- Philip IV at Fraga** 72
Norman Pastorek, MD

DEPARTMENTS

- Highlights of Archives of Facial Plastic Surgery** 5
- Calendar of Events** 64
- Information for Authors** 65
- Classified Advertising** 69
- Index to Advertisers** 71

About the Cover

Martin S. Mendelsohn, MD, of Sydney, Australia, furnished the cover image.

ARCHIVES

OF

FACIAL PLASTIC SURGERY*Editor:*

Wayne F. Larrabee, Jr, MD
 600 Broadway, Suite 280
 Seattle, WA 98122

Editorial Assistant:

Jan Thyng
 Tel 206-386-3550

Editorial Board:

Peter A. Adamson, MD
 Toronto, Ontario

Richard L. Anderson, MD
 Salt Lake City, Utah

Dale Bloomquist, DDS
 Seattle, Wash

Gary Burget, MD
 Chicago, Ill

Mack L. Cheney, MD
 Boston, Mass

Mark V. Connelly, MD
 La Crosse, Wis

Jaime R. Garza, MD
 San Antonio, Tex

Robert A. Goldberg, MD
 Los Angeles, Calif

Peter A. Hilger, MD

Edina, Minn

George J. Hruza, MD
 St Louis, Mo

Perry J. Johnson, MD
 Omaha, Neb

Sheldon S. Kabaker, MD
 Oakland, Calif

Gregory S. Keller, MD
 Santa Barbara, Calif

Ira D. Papel, MD
 Owings Mills, Md

William W. Shockley, MD
 Chapel Hill, NC

Michael J. Sullivan, MD
 Columbus, Ohio

Sherard A. Tatum III, MD
 Syracuse, NY

J. Regan Thomas, MD
 St Louis, Mo

Dean M. Toriumi, MD
 Chicago, Ill

John A. Zitelli, MD
 Pittsburgh, Pa

Section Editors:

Web Editor
Arlen D. Meyers, MD
 Denver, Colo

International Innovations
Ted A. Cook, MD
 Portland, Ore

Book and Multimedia Reviews
Shan R. Baker, MD
 Livonia, Mich

New Technology and Devices
Richard L. Goode, MD
 Los Altos, Calif

Perspectives
Robert L. Simons, MD
 North Miami Beach, Fla

Beauty
Norman J. Pastorek, MD
 New York, NY

Unfavorable Outcome
S. Randolph Waldman, MD
 Lexington, Ky

Fellow's Page
Tom D. Wang, MD
 Portland, Ore

CME Editor
Arlen D. Meyers, MD

International Advisory Board:

Michael P. Stearns, FRCS
 London, England

Jaime Fandino I., MD
 Mexico City, Mexico

Fernando C. Pedrosa, MD
 Santafe de Bogotá, Colombia

Martyn Mendelsohn, MB
 Chatswood, NSW, Australia

Gilbert J. Nolst Trenitè, MD
 Amsterdam, the Netherlands