

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 Family Medicine
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 \$175 in the United States; \$195 in the Americas; £125 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
Department Director: Paula Glitman
Copyediting Manager: Lise M. Stevens
Freelance Copyediting Manager: Diane L. Cannon
Freelance Copyediting Coordinators: Gwen Chaffen, Connie Manno
Electronic Editing Specialist: Paul Frank
Assistant Electronic Editing Specialist: Monica Mungle
Senior Copy Editors: Dee E. Egger, Vickie Golden
Copy Editors: Keith Huff, John McFadden, Jennifer L. Reddy
Editorial Assistant: Wanda Hill

Scientific Publications & Multimedia Applications

Assistant to the Editor: Helga Fritz

Scientific Online Resources

Director: Margaret Winker, MD
Assistant Editor: Brande Martin
Staff Assistant: Marla A. Hall

Production & Distribution Division

Director: Vanessa Hayden
Office Manager: Karen Branham
Production Assistant: Shannon Eplett

Advertising & Production Department

Director: Karen Adams-Taylor
Production Specialist: Terri Hanley
Manager, Advertising Services: Carole Piszker
Manager, Production Services: Susan Price
Supervisor, Production Services: Betty Frigerio
Production Associates: Mary Ann Donley, Sarah Powell, Denise Steinhauer, Jo Anne Turner, Carmela Ware
Production Assistant: Susan Chiara

Distribution

Distribution Manager: Paul Gasielcki
Distribution Analyst: Michelle Robinson
Traffic Control Specialist: Victoria Buckner

Advertising

National Sales Manager: Peter G. Messina
AMA Classified Advertising Department: Thalia Moss, 800-262-2260.



Specialty Journal Division Office

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: Audrey Mathies, Timothy Ryan
Circulation Marketing Specialists: Sandra Garzon, Michael McGraw

Licensing & Permissions Department

Director: Norman Frankel
Permissions: Rhonda Bailey
International Coordinator: Sharon Ali

Electronic Production Department

Manager, Composition: Phil Arko
Electronic Production Specialists: Brenda Chandler-Grayer, Karl Elvin, Amy Evers, Fred Furtner, Mary Ann Kuranda, Sandra Lopez
Manager, Graphics: Charl Richey
Electronic Imaging Specialists: Joe Amft, Noel Chaparro, Carolyn Hall, Maria Kowalkowski, Chris Meyer, JoAnne Weiskopf
Manager, Proofreading: David Antos
Proofreaders: Daniel James, Rachel Novickas, Teresa H. Omiotek, Mary Kay Tinerella, Barbara Wojtowicz
Manager, Database & New Media: Mary Ellen Johnston
Indexer: Bruce McGregor
New Media Specialists: Gail Barrett, Joel Brammeier, Regina Brownlee, La'son J. Diggs, Melanie Parenti, Angela Smits
Production Assistant: Ruth Sprague

Advertising Offices:

East: Philip G. Soufleris, 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) 352-0322.

ARCHIVES

OF

FACIAL PLASTIC SURGERY

APRIL-JUNE 2000 VOLUME 2, NUMBER 2 PAGES 85-160

ORIGINAL ARTICLES

- Microvascular Free Flap Reconstructive Options in Patients With Partial and Total Maxillectomy Defects** 91
Rudy J. Triana, Jr, MD;
Vedran Uglesic, MD;
Miso Virag, MD;
Sinisa G. Varga, DDS;
Predrag Knezevic, MD;
Aleksandar Milenovic, MD;
Naranja Aljinovic, MD;
Craig S. Murakami, MD;
Neal D. Futran, MD, DMD
- Hemangiomas in Infants and Children: An Algorithm for Intervention** 103
Edwin F. Williams III, MD;
Paul Stanislaw, MD;
Marsha Dupree, MD;
Karen Mourtzikos, MD;
Martin Mihm, MD;
Linda Shannon, MS
- Comparison of the Aesthetic Facial Proportions of Southern Chinese and White Women** 113
Roland Song Teck Sim, MBBS(Singapore), FRCS(Glasg), FAMS;
James D. Smith, MD;
Anita S. Y. Chan, MBBS(Singapore)
- Cost Considerations of Converting to Digital Photography** 122
Christopher S. Hollenbeak, MA;
Mimi Kokoska, MD;
Brendan C. Stack, Jr, MD
- Reconstruction of the Frontal Sinus and Frontofacial Skeleton With Hydroxyapatite Cement** 124
Craig D. Friedman, MD;
Peter D. Costantino, MD;
C. H. Snyderman, MD;
Lawrence C. Chow, PhD;
Shozo Takagi, PhD
- Evaluation of Acellular Dermal Graft in Sheet (AlloDerm) and Injectable (Micronized AlloDerm) Forms for Soft Tissue Augmentation: Clinical Observations and Histological Analysis** 130
Anthony P. Sclafani, MD;
Thomas Romo III, MD;
Andrew A. Jacono, MD;
Steven McCormick, MD;
Rubina Cocker, MD;
Andrew Parker, MD
- Carbon Dioxide Laser Abrasion: Is It Appropriate for All Regions of the Face?** 137
Scott J. Trimas, MD;
Clarence E. Boudreaux, MD;
Russell D. Metz, MD

American Medical Association

Physicians dedicated to the health of America



Copyright 2000 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

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

Lynn E. Jensen, PhD
Chief Operating Officer

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

SURGICAL TECHNIQUE

- The Extended Abbe Flap
in the Reconstruction of Complex
Midfacial Defects** 141
Sam Naficy, MD;
Shan R. Baker, MD

INTERNATIONAL INNOVATIONS

- Combined Tongue and Pharyngeal Flaps
for Reconstruction of Large Recurrent
Palatal Fistulas** 146
Marijo Bagatin, MD, DDS;
Neal Goldman, MD;
Gary J. Nishioka, MD, DDS

FELLOW'S PAGE

- Ectopic Hair Growth After Flap
Reconstruction of the Head and Neck** 148
Kenneth Toft, MD;
Gregory S. Keller, MD;
Keith E. Blackwell, MD

PERSPECTIVES

- Irving B. Goldman, MD (1898-1975):
Master Rhinoplasty Surgeon** 151
Robert L. Simons, MD

- Eugene Bortnick, MD** 152
Wayne F. Larrabee, Jr, MD

EDITORIAL

- Continuing Medical Education** 154
Wayne F. Larrabee, Jr, MD;
Arlen D. Meyers, MD

BEAUTY

- Portrait of a Man in a Red Cap** 160
Lisa Duffy-Zeballos

DEPARTMENTS

- Highlights of
Archives of Facial Plastic Surgery** 90
ARCHIVES CME 155
Classified Advertising 157
Index to Advertisers 158

Information for Authors—
See January-March 2000 issue, page 77, or visit
the Web site at <http://www.archfacial.com>.

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