

# 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-sub@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-sub@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-sub@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:** Jean Kang, 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  
**Electronic Media Department Director:** Michelle Kurzynski  
**Web Development Editor:** Keith Huff  
**Assistant Editor:** Nikhil Torsekar  
**Web Copy Editor:** Erin Giannini  
**Staff Assistant:** Marla A. Hall  
**Editorial Assistant:** Gemma Wall

#### Production & Distribution Division

**Director:** Vanessa Hayden  
**Manager, Journal Manufacturing:** Diane Darnell  
**Journal Manufacturing Analyst:** Nona Malchin  
**Office Manager:** Karen Branham  
**Production Assistant:** Shannon Epplett

#### Advertising & Production Department

**Production Specialist:** Terri Hanley  
**Print Production Analyst:** Carole Piszker  
**Manager, Advertising Services:** Carmela Ware  
**Manager, Production Services:** Susan Price  
**Supervisor, Production Services:** Betty Frigerio  
**Production Associates:** Mary Ann Donley, Sarah Powell, Denise Steinhauser, Jo Anne Turner  
**Production Assistant:** Susan Chiara

#### Distribution

**Distribution Manager:** Paul Gasielcki  
**Distribution Analyst:** Michelle Robinson

#### Advertising

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



#### 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 Manager:** Michael McGraw  
**Circulation Marketing Specialist:** Sandra Garzon

#### Licensing & Permissions Department

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

#### Electronic Production Department

**Director:** Karen Adams-Taylor  
**Manager, Composition:** Karl Elvin  
**Electronic Production Specialists:** Rebecca Aiken, Brenda Chandler-Grayer, 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, Teresa H. Omiotek, Mary Kay Timerella, Barbara Wojtowicz  
**Manager, Database & New Media:** Mary Ellen Johnston  
**Indexer:** Bruce McGregor  
**New Media Specialists:** Clifford O. Barrett, 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 Fl, 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

JULY-SEPTEMBER 2000 VOLUME 2, NUMBER 3 PAGES 161-232

### SPECIAL TOPIC

**A New Era of Discovery in Facial Plastic Surgery** 166  
*David B. Hom, MD*

### ORIGINAL ARTICLE

**Anatomical Considerations in the Management of the Hanging Columella** 173  
*Eric M. Joseph, MD;*  
*Alvin I. Glasgold, MD*

### COMMENTARY

**Anatomic Considerations in the Management of the Hanging Columella** 178  
*Peter A. Adamson, MD*

### ORIGINAL ARTICLES

**Superior Cantholysis for Zygomatic Fracture Repair** 181  
*Robert W. Dolan, MD;*  
*Daniel K. Smith, MD*

**Management of Aggressive Midface and Orbital Fibrous Dysplasia** 187  
*John L. Frodel, MD;*  
*Gerry Funk, MD;*  
*Jay Boyle, MD;*  
*Mark Richardson, MD*

**Temporoparietal Fascial Flap in Orbital Reconstruction** 196  
*Amy Lai, MD;*  
*Mack L. Cheney, MD*

### SURGICAL TECHNIQUES

**The Subgaleal Endoscopic Browlift** 202  
*Mimi S. Kokoska, MD;*  
*J. Regan Thomas, MD*

**Bipolar Scissors in Facial Plastic Surgery** 209  
*Catherine P. Winslow, MD;*  
*Alan Burke, MD;*  
*Sande Bartels, MD;*  
*Ted A. Cook, MD;*  
*Mark K. Wax, MD*

**Experiences With Transconjunctival Upper Blepharoplasty** 213  
*Frank M. Kamer, MD;*  
*Matthew D. Mingrone, 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

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

**Treating the Caudal Septal Deflection** 217  
*Norman J. Pastorek, MD;*  
*Daniel G. Becker, MD*

#### INTERNATIONAL INNOVATIONS

**The Flipper Osteotome** 221  
*Stephen Robert Floreani, MD*

#### FELLOWS' PAGE

**Malar Augmentation With Self-drilling Single-Screw Fixation** 222  
*Neal D. Goldman, MD;*  
*Ramsey Alsarraf, MD, MPH;*  
*Gary Nishioka, MD, DDS;*  
*Wayne F. Larrabee, Jr, MD*

#### BEAUTY

**Ingres' Odalisque: Idealized Beauty** Cover 3  
*Marc S. Zimpler, MD*

#### DEPARTMENTS

**Highlights of Archives of Facial Plastic Surgery** 165

**Calendar of Events** 226

**ARCHIVES CME** 227

**Products & Services** 229

**Classified Advertising** 230

**Index to Advertisers** 232

**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