

ARCHIVES

OF

OTOLARYNGOLOGY— HEAD & NECK SURGERY

The ARCHIVES OF OTOLARYNGOLOGY—HEAD & NECK 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 OTOLARYNGOLOGY—HEAD & NECK SURGERY (ISSN 0886-4470) 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 OTOLARYNGOLOGY—HEAD & NECK SURGERY reaches more than 12,000 readers in over 80 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. 319066.

Printed in the USA.

SUBSCRIPTION RATES—

	Individual Print	Individual Print & Online	Individual Online Only
US	\$210	\$220	\$170
Americas	\$260	\$275	\$210
Rest of World	£155	£165	£125
	Institution Print	Institution Print & Online	Institution Online Only
US	\$375	\$395	\$300
Americas	\$480	\$505	\$385
Rest of World	£315	£330	£250

Rates for residents and medical students available.

CHANGE OF ADDRESS—POSTMASTER, send all address changes to ARCHIVES OF OTOLARYNGOLOGY—HEAD & NECK 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: mcs@ama-assn.org. **Other physicians and nonphysician 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 Harbourough, 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>

OTOLARYNGOLOGY HOME PAGE—<http://www.archoto.com>

Publication Staff

Offices: 515 N State St, Chicago, IL 60610

Editorial Processing Department

Division Director: Cheryl Iverson
Director: Paula Glitman
Copyediting Manager: Gwen Chaffen
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 Editors: Dee E. Egger
Vickey Golden
John McFadden
Copy Editors: Melissa M. Cartwright
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
Associate Web Editors: Katherine Behar
Erin M. Giannini
Web Office Manager: Marla A. Hall

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: Karen Howes
Circulation Systems Manager: Alfred Tomaselli
Circulation Specialists: Reginald Jordan
Kathryn Osten
Assistant Application Administrator: Julie Burton

Circulation Development Department

Director: Bina Oza Trivedi
Circulation Marketing Managers: Vida Damjionaitis
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 Gasielki, 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 Assistant: Kristy Kambanis
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,
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: Philip G. Soufleris
119 Cherry Hill Rd, 3rd Flr
Parsippany, NJ 07054
(973) 263-9191
Midwest/West: Alexis O'Connell
515 N State St
Chicago, IL 60610
(312) 464-2470



ARCHIVES

OF

OTOLARYNGOLOGY- HEAD & NECK SURGERY

FEBRUARY 2002 VOLUME 128, NUMBER 2 PAGES 113-212

ORIGINAL ARTICLES

- Physician Specialty Is Associated With Differences in the Evaluation and Management of Acute Bacterial Rhinosinusitis** 123
John W. Werning, MD, DMD; Todd W. Preston, MD; Sadik Khuder, PhD
- Expression of ICAM-1 in Nasal Epithelium and Levels of Soluble ICAM-1 in Nasal Lavage Fluid During Human Experimental Rhinovirus Infection** 131
Birgit Winther, MD; Eurico Arruda, MD, PhD; Theodore J. Witek, DrPH; Steven D. Marlin, PhD; Michael M. Tsianco, PhD; Donald J. Innes, MD; Frederick G. Hayden, MD
- Postendoscopic Zenker Esophagodiverticulostomy Leaks Associated With a Specific Stapler Cartridge** 137
William J. Richtsmeier, MD, PhD; Jose Raul Monzon, MD
- Endoscopic Stapling Technique for the Treatment of Zenker Diverticulum vs Standard Open-Neck Technique: A Direct Comparison and Charge Analysis** 141
Shane R. Smith, MD; Eric M. Genden, MD; Mark L. Urken, MD
- Preincisional Bupivacaine in Posttonsillectomy Pain Relief: A Randomized Prospective Study** 145
Nilesh Raman Vasani, FRACS; Scott Stevenson, FRACS; Mark Ward, FRACS
- Otoacoustic Emissions for Monitoring Aminoglycoside-Induced Ototoxicity in Children With Cystic Fibrosis** 150
Pelagia Stavroulaki, MD; Ioannis C. Vossinakis, MD; Dimitra Dinopoulou, MD; Spiros Doudounakis, PhD; George Adamopoulos, PhD; Nikolaos Apostolopoulos, PhD
- Computer-Assisted Voice Analysis: Establishing a Pediatric Database** 156
Paolo Campisi, MD, MSc; Ted L. Tewfik, MD, FRCSC; John J. Manoukian, MD, FRCSC; Melvin D. Schloss, MD, FRCSC; Elaine Pelland-Blais, MOA, SLP(C); Nader Sadeghi, MD, FRCSC
- Midface Reconstruction With the Fibula Free Flap** 161
Neal D. Futran, MD, DMD; Jeffrey Trad Wadsworth, MD; Douglas Villaret, MD; D. Gregory Farwell, MD
- Analysis of Cell-Cycle Checkpoint Pathways in Head and Neck Cancer Cell Lines: Implications for Therapeutic Strategies** 167
Sean C. Coleman, MD; Zoe A. Stewart, PhD; Terry A. Day, MD; James L. Netteville, MD; Brian B. Burkey, MD; Jennifer A. Pietenpol, PhD

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
Vice President, Publishing

Peter L. Payerli
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.

Near-Total Laryngectomy for Laryngeal Carcinomas With Subglottic Extension 177
Ismet Aslan, MD; Nermin Baserer, MD; Engin Yazicioglu, MD; Cagatay Oysu, MD; Mehmet Tinaz, MD; Erkan Kiyak, MD; Necdet Biliciler, MD

Swallowing Outcomes Following Laryngectomy and Pharyngolaryngectomy 181
E. C. Ward, PhD; B. Bishop, BSpPath (Hons); J. Frisby, BSpThy; M. Stevens, MBBS

CLINICAL NOTES

Computed Tomography–Guided Wire Localization: An Intraoperative Tool for Head and Neck Resections 187
Stefanie K. Horne, MD; Gregory C. Park, MD; Richard T. Dahlen, MD; Joseph Brennan, MD

Management of a Giant Lymphatic Malformation of the Tongue 190
Helena Rowley, MD; Antonio R. Perez-Atayde, MD; Patricia E. Burrows, MD; Reza Rahbar, DMD, MD

CLINICAL PROBLEM SOLVING: PATHOLOGY

Pathology Quiz Case 195
Brian J. Baumgartner, MD; Douglas M. Sorensen, MD; Craig C. Willard, DDS, MS

CLINICAL PROBLEM SOLVING: RADIOLOGY

Radiology Quiz Case 197
Thong T. Le, MD; Scott H. Hardeman, MD; Mimi S. Kokoska, MD

REGULAR DEPARTMENTS

Call for Photographs 130

ARCHIVES CME 202

Classified Advertising 205

Index to Advertisers 212

Instructions for Authors—See January 2002 issue, page 97, or visit the Web site at www.archoto.com.

About the Cover

Photographer: Cassio Lynn, MA, Chicago, Ill. View of Piz Palù from Diavolezza at 2798 m, August 2000.

ARCHIVES OF OTOLARYNGOLOGY— HEAD & NECK SURGERY

Editor:

Michael M. E. Johns, MD
Emory University
Woodruff Health Sciences
Administration Building
Suite 400
1440 Clifton Rd NE
Atlanta, GA 30322

Assistant Editors:

John K. Niparko, MD
Baltimore, Md
William J. Richtsmeier, MD, PhD
Cooperstown, NY
K. Thomas Robbins, MD
Gainesville, Fla

Editorial Assistant:

Trina L. Johns

Production Manager:

Jane Devilbiss
(404) 778-2322
(404) 778-3100 FAX
e-mail: aohns@emory.edu

Editorial Board:

Elliot Abemayor, MD, PhD
Los Angeles, Calif
John G. Batsakis, MD
Houston, Tex
Margaret S. Brandwein, MD
New York, NY
Marvin P. Fried, MD
Bronx, NY
Patrick J. Gullane, MD
Toronto, Ontario
Lauren D. Holinger, MD
Chicago, Ill
Paul R. Lambert, MD
Charleston, SC
Wayne F. Larrabee, Jr, MD
Seattle, Wash
Paul A. Levine, MD
Charlottesville, Va

Robert H. Miller, MD

Las Vegas, Nev
Jay F. Piccirillo, MD
St Louis, Mo
Clarence T. Sasaki, MD
New Haven, Conn
Richard J. H. Smith, MD
Iowa City, Iowa
Fred J. Stucker, MD
Shreveport, La

Section Editors:

Continuing Medical Education
Douglas E. Mattox, MD
Atlanta, Ga
Clinical Challenges in Otolaryngology
Karen H. Calhoun, MD
Galveston, Tex
Ronald B. Kupper-Smith, MD (Assistant)
Seattle, Wash
Online Editor
Michael A. Rothschild, MD
New York, NY

Clinical Problem Solving: Radiology

R. Nick Bryan, MD
S. James Zinreich, MD
Baltimore, Md

Clinical Problem Solving: Pathology

Frederic B. Askin, MD
William H. Westra, MD
Baltimore, Md

American Academy of Facial Plastic and Reconstructive Surgery News

Becky McGraw-Wall, MD
Houston, Tex

American Head and Neck Society News

Maisie Shindo, MD
Los Angeles, Calif

American Society of Pediatric Otolaryngology News

David W. Eisele, MD
San Francisco, Calif
Sally R. Shott, MD
Cincinnati, Ohio