

ARCHIVES OF PEDIATRICS & ADOLESCENT MEDICINE

The ARCHIVES OF PEDIATRICS & ADOLESCENT MEDICINE 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 Information Access Company.

The Journal of the American Medical Association (JAMA)

Archives of Dermatology
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 PEDIATRICS & ADOLESCENT MEDICINE (ISSN 1072-4710) 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 Pediatrics & Adolescent Medicine reaches more than 30 500 readers in over 83 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. 318728.

Printed in the USA.

SUBSCRIPTION RATES—The personal subscription rates for the ARCHIVES OF PEDIATRICS & ADOLESCENT MEDICINE are \$110 for 1 year (12 issues) in the United States and US possessions; \$152 in the Americas; £98 outside the Americas. The institution rates for 1 year are \$160 in the United States; \$200 in the Americas; £130 outside the Americas. Special rates for residents and medical students 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 PEDIATRICS & ADOLESCENT MEDICINE, 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) 760-7827. 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: bmjsubs@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 Joseph R. Rekish, 515 N State St, Chicago, IL 60610. Phone: (312) 464-4594. Fax: (312) 464-4849.

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

PEDIATRICS HOME PAGE—<http://www.ama-assn.org/peds>.

PERMISSIONS—Contact Ada Jimenez-Walker, 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.

Publication Staff

Offices: 515 N State St
Chicago, IL 60610

Editorial Processing Department, Archives Journals

Director: Paula Glitman
Manager: Vickey Golden
Freelance Manager: Diane L. Cannon
Freelance Coordinator:
Connie Manno

Electronic Editing Specialist:

Paul Frank

Assistant Electronic Editing Specialist:

Monica Mungle

Senior Copy Editor:

Brenda Gregoline

Copy Editor:

Fran Buckley

Editorial Assistant: Celina Canchola

Scientific Information and Multimedia Group

Administrative Assistant: Helga Fritz

New Media Editorial Office

Editorial Director, New Media:

William M. Silberg

Associate Editor: Marty Suter

Assistant Editors:

Deborah Flapan
Neal Shankman

Staff Assistant: Marla A. Hall

Production & Distribution Division

Manager, Budgets & Costs:

Bonnie Van Cleven

Publishing Manufacturing Analyst:

Diane Darnell

Office Manager: Karen Branham

Senior Secretary: Shannon Epplet

Advertising & Production Department

Director: Karen Adams-Taylor

Manager, Advertising Services:

Carole Piszker

Manager, Production Services:

Susan Price

Production Associates:

Debbie Camp

Betty Frigerio

Mari Guizzetti

Sarah Powell

Jennifer Reiling

Chad Sanderson

Mary Ann Schultz

Jo Anne Turner

Carmela Ware

Distribution

Distribution Manager: Paul Gasielko



Electronic Production Department

Director: Linda Knott

Manager, Composition: Phil Arko

Electronic Production Operators:

Brenda Chandler

Amy Evers

Mary Ann Kuranda

Sandra Lopez

Manager, Graphics: Charl Richey

Graphics Operators:

Joe Amft

JoAnne Weiskopf

Alicja Wojcik-Dunn

Manager, Proofreading:

Teresa H. Omiotek

Proofreaders:

David Antos

Daniel James

Mary Kay Tinerella

Barbara Wojtowicz

Production Assistant: Ruth Sprague

Manager, Database & New Media:

Mary Ellen Johnston

Indexer: Kathy Gaydar

Database Assistants:

Gail Barrett

La'son J. Diggs

Melanie Parenti

Specialty Journal Division Office

Assistant to the Publisher:

Christine Hearne

Circulation & Content Marketing Division

Administrative Assistant:

Millette Jackson-Bates

Circulation Processing Department

Director: Beverly Martin

Circulation Development Department

Director: Bina Oza

Licensing & Permissions Department

Director: Norman Frankel

Permissions: Ada Jimenez-Walker

International Coordinator: Sharon Ali

Reprints

Reprint Coordinator: Joseph Rekish



ARCHIVES

OF

PEDIATRICS & ADOLESCENT MEDICINE

VOL 152 NO. 5, MAY 1998

EDITORIAL

- The Painful Reality of Hunger** 423
Robert Greenberg, MD

ARTICLES

- A Quantitative Review of Mortality and Developmental Disability in Extremely Premature Newborns** 425
John M. Lorenz, MD; Diane E. Wooliever, RN, NNP; James R. Jetton, BA; Nigel Paneth, MD, MPH
- Efficacy of Peripherally Inserted Central Venous Catheters Placed in Noncentral Veins** 436
Ravi R. Thiagarajan, MBBS, MRCP; Susan L. Bratton, MD, MPH; Theresa Gettmann, RN, BSN; Chandra Ramamoorthy, MBBS, FRCA
- Families' Recommendations for Improving Services for Children With Chronic Conditions** 440
Ann W. Garwick, PhD; Claire Kohrman, PhD; Clara Wolman, PhD; Robert W. Blum, MD, PhD
- Adolescent Girls and Pelvic Inflammatory Disease: Experience and Practices of Emergency Department Pediatricians** 449
Jacques Benaim, MD; Mary Pulaski, MD; Susan M. Coupey, MD
- A Community Outreach Lead Screening Program Using Capillary Blood Collected on Filter Paper** 455
Teresa G. Holtrop, MD; Hugh Y. Yee, PhD; Pippa M. Simpson, PhD; Ralph E. Kauffman, MD
- Evaluation of a Clinic-Based Program to Promote Book Sharing and Bedtime Routines Among Low-Income Urban Families With Young Children** 459
Pamela High, MD; Marita Hopmann, PhD; Linda LaGasse, PhD; Holly Linn
- Sun Protection by Families at the Beach** 466
June K. Robinson, MD; Alfred W. Rademaker, PhD

American Medical Association

Physicians dedicated to the health of America



Copyright 1998 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.

Lynn Jensen, PhD
Chief Operating Officer &
Interim Executive Vice President

George D. Lundberg, MD
Editor in Chief, Scientific
Information and Multimedia

Robert L. Kennett
Interim Senior Vice President,
Publishing & Business Services

Peter L. Payerli
Publisher

Vanessa Hayden
Director, Production &
Distribution Division

Cheryl Iverson
Director, Editorial Processing
Division

James A. Skowrenski
Director, Circulation &
Content Marketing Division

Geoffrey A. Flick
Manager, Marketing Services

Advertising Offices: East: Phillip B. Altamore, Peter G. Messina, and Kelly Lezynski, 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. **AMA Classified Advertising Department:** Thalia Moss, 800-262-2260.

**Development of a Research Child
Growth Reference and Its Comparison
With the Current International
Growth Reference** 471
*Zuguo Mei, MD, MPH; Ray Yip, MD, MPH;
Laurence M. Grummer-Strawn, PhD;
Frederick L. Trowbridge, MD, MSc*

**Deletion 22q11: A Newly Recognized
Cause of Behavioral and
Psychiatric Disorders** 481
*Shawn E. McCandless, MD;
Jennifer A. Scott, MS;
Nathaniel H. Robin, MD*

**Management of Lead Poisoning
From Ingested Fishing Sinkers** 485
*Eugene Mowad, MD;
Ibrahim Haddad, MD;
David J. Gemmel, MA*

NUTRITION

**Hunger in Midwestern
Inner-city Young Children** 489
*Diana B. Cutts, MD;
Alfred M. Pheley, PhD;
Joni S. Geppert, MPH, RD*

EDUCATIONAL INTERVENTION

**Pediatric Residents: Are They
Ready to Use Computer-Aided
Instruction?** 494
Martin V. Pusic, MD

SPECIAL FEATURES

Radiological Case of the Month 503
Gary Schwartz, MD

Picture of the Month 505
*Kevin A. Slavin, MD;
Ilona J. Frieden, MD*

Pathological Case of the Month 507
*Dennis T. Costakos, MD;
Lauren A. Love, BSN;
Kevin Josephson, MS;
Gurbax Sekhon, PhD*

Pathological Case of the Month 509
*José A. Jiménez-Heffernan, MD;
Pilar López-Ferrer, MD;
Emilio Burgos, MD;
José M. Viguer, MD*

ARCHIVES OF PEDIATRICS & ADOLESCENT MEDICINE

Editor:

Catherine D. DeAngelis, MD
Dean of Academic Affairs & Faculty
Johns Hopkins School of Medicine
720 Rutland Ave, Suite 106
Baltimore, MD 21205
(410) 614-3100
Fax: (410) 614-3099

Associate Editors:

Alain Joffe, MD
Baltimore, Md
Modena E. H. Wilson, MD
Baltimore, Md

Editorial Manager:

Carol Bocchini
Baltimore, Md

Editorial Board:

Lewis A. Barness, MD
Tampa, Fla
Claibourne I. Dungey, MD
Iowa City, Iowa
Laurence Finberg, MD
San Francisco, Calif
Enid Gilbert-Barness, MD
Tampa, Fla
Margaret K. Hostetter, MD
Minneapolis, Minn
Richard E. Kreipe, MD
Rochester, NY
Harold P. Lehmann, MD, PhD
Baltimore, Md
Howard Markel, MD, PhD
Ann Arbor, Mich
Donna G. Nativio, PhD, RN
Pittsburgh, Pa

Judith S. Palfrey, MD
Boston, Mass
Robert Penny, MD
Los Angeles, Calif
Gary A. Smith, MD, DrPH
Columbus, Ohio
E. Richard Stiehm, MD
Los Angeles, Calif
Thomas G. Storch, MD
New Orleans, La
Walter W. Tunnessen, Jr, MD
Chapel Hill, NC
Roberta G. Williams, MD
Chapel Hill, NC
Beverly P. Wood, MD
Los Angeles, Calif
Andrew M. Yeager, MD
Atlanta, Ga

Section Editors:

Book Reviews
Lewis A. Barness, MD
Tampa, Fla
Pathological Case of the Month
Enid Gilbert-Barness, MD
Tampa, Fla
Picture of the Month
Walter W. Tunnessen, Jr, MD
Chapel Hill, NC
Radiological Case of the Month
Beverly P. Wood, MD
Los Angeles, Calif

THE PEDIATRIC FORUM

Aluminum Toxicity	511
<i>Enid Gilbert-Barness, MD;</i>	
<i>Lewis A. Barness, MD;</i>	
<i>Jon Wolff, MD; Cary Harding, MD</i>	
Vinyl Miniblinds and Childhood Lead Poisoning	512
<i>Robert West, MD</i>	
In Reply	512
<i>Edward H. Norman, MPH; Tena H. Ward;</i>	
<i>Irva Hertz-Picciotto, PhD; Dennis A. Salmen</i>	
Growth in Tobacco Promotion Overstated	513
<i>Terence Monmaney</i>	
In Reply	513
<i>James Sargent, MD</i>	
Initials	514
<i>J.N.W.; F.A.M.; A.E.L.; S.L.T.; S.L.P.</i>	

BOOK REVIEWS

Pediatric Dermatology: Volume 1 and Volume 2	516
<i>Enid Gilbert-Barness, MD</i>	
The Intelligent Patient's Guide to the Doctor-Patient Relationship	516
<i>Carol A. Bocchini, MLA</i>	

CORRECTION

Neonatal Circumcision: Randomized Trial of a Sucrose Pacifier for Pain Control	448
<i>Marguerite Herschel, MD;</i>	
<i>Babak Khoshnood, MD, MPH;</i>	
<i>Carol Ellman, MD;</i>	
<i>Noemi Maydew, MD;</i>	
<i>Robert Mittendorf, MD, DrPH</i>	

REGULAR DEPARTMENTS

Reviewers for 1997	499
Classified Advertising	517
Index to Advertisers	520
Instructions for Authors— See January 1998 issue, page 105, or visit the Web site at http://www.ama-assn.org.	