

ARCHIVES OF PEDIATRICS & ADOLESCENT MEDICINE

The ARCHIVES OF PEDIATRICS & ADOLESCENT MEDICINE (incorporating *AJDC*, *American Journal of Diseases of Children*) 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 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 30 900 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 \$175 for 1 year (12 issues) in the United States and US possessions; \$225 in the Americas; £155 outside the Americas. The institution rates for 1 year are \$325 in the United States; \$425 in the Americas; £275 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) 670-7827. Fax: (312) 464-5831. E-mail: ama-subs@ama-assn.org. (2) For delivery outside the Americas, contact JAMA & Archives Journals, American Medical Association, Tower House, Sovereign Park, Market Harborough, Leicestershire LE15 9EF, England. Telephone: +44 (0) 1858-438880. Fax: +44 (0) 1858-434958.

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>

PEDIATRICS HOME PAGE—<http://www.archpediatrics.com>

Publication Staff

Offices: 515 N State St, Chicago, IL 60610

Editorial Processing Department

Division Director: Cheryl Iverson
Department Director: Paula Glitman
Copyediting Manager:
Brenda Gregoline
Freelance Copyediting Manager:
Diane L. Cannon
Freelance Copyediting Coordinator:
Connie Manno
Electronic Editing Specialist:
Paul Frank
Assistant Electronic Editing Specialist:
Monica Mungle
Senior Copy Editor:
Vickey Golden
Copy Editors:
Lauren B. Fischer
Juana N. Llorens
Rachel Novickas
Cheryl L. Tobey
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
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

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

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 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:
Philip G. Soufleris
119 Cherry Hill Rd, 3rd Flr
Parsippany, NJ 07054
(973) 263-9191



ARCHIVES

OF

PEDIATRICS & ADOLESCENT MEDICINE

SEPTEMBER 2001 VOLUME 155, NUMBER 9 PAGES 981-1080

EDITORIALS

**Have the Onset and Tempo
of Puberty Changed?** 988
Edward O. Reiter, MD;
Peter A. Lee, MD, PhD

**Information Technology and
the Future of Child Health Care:
A Revolution Is Occurring** 990
Michael Weitzman, MD;
Richard N. Shiffman, MD, MCIS

**Computer Simulation:
A Powerful Tool for Injury Control** 992
David C. Grossman, MD, MPH

ARTICLES

**Threats of School Violence
in Pennsylvania After Media Coverage
of the Columbine High School Massacre:
Examining the Role of Imitation** 994
Spencer Kostinsky, MD;
Edward O. Bixler, PhD;
Paul A. Kettl, MD

**How Can Information Technology Improve
Patient Safety and Reduce Medication
Errors in Children's Health Care?** 1002
Rainu Kaushal, MD, MPH;
Kenneth N. Barker, PhD;
David W. Bates, MD, MSc

**Computer Simulation of Stair Falls
to Investigate Scenarios in Child Abuse** 1008

Gina E. Bertocci, PhD;
Mary Clyde Pierce, MD;
Ernest Deemer, MS;
Fernando Aguel, BS

**Exposures and Outcomes of Children
With Urticaria Seen in a Pediatric
Practice-Based Research Network:
A Case-Control Study** 1017

Jennifer Plumb, MD, MPH;
Chuck Norlin, MD;
Paul C. Young, MD;
*the Utah Pediatric Practice Based
Research Network*

**Secondary Sexual Characteristics
in Boys: Estimates From the National
Health and Nutrition Examination
Survey III, 1988-1994** 1022

Marcia E. Herman-Giddens, PA, MPH, DrPH;
Lily Wang, MS; Gary Koch, PhD

**Effectiveness of a Home Intervention
for Perceived Child Behavioral Problems
and Parenting Stress in Children
With In Utero Drug Exposure** 1029

Arlene M. Butz, RN, ScD;
Margaret Pulsifer, PhD;
Nicole Marano, BS;
Harolyn Belcher, MD;
Mary Kathleen Lears, MPH, MSN;
Richard Royall, PhD

American Medical Association

Physicians dedicated to the health of America



Catherine D. DeAngelis, MD, MPH
Editor in Chief, Scientific Publications
& Multimedia Applications

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

Peter L. Payerli
Interim Vice President, Publishing
Publisher

Cheryl Iverson
Managing Editor

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.

**Antenatal Corticosteroids and
Newborn Screening for Congenital
Adrenal Hyperplasia**

Jennifer L. King, MS;
John M. Naber, MS, JD;
Robert J. Hopkin, MD;
David R. Repaske, MD, PhD;
Laurie Bailey, MS;
Nancy D. Leslie, MD

1038

**Cost-effectiveness of a School-Based
Tobacco-Use Prevention Program**

Li Yan Wang, MBA, MA;
Linda S. Crossett, RDH;
Richard Lowry, MD, MS;
Steve Sussman, PhD;
Clyde W. Dent, PhD

1043

**The Rotavirus Vaccine's Withdrawal
and Physicians' Trust
in Vaccine Safety Mechanisms**

Heather A. McPhillips, MD, MPH;
Robert L. Davis, MD, MPH;
Edgar K. Marcuse, MD, MPH;
James A. Taylor, MD

1051

**Reasons for Pediatrician Nonadherence
to Asthma Guidelines**

Michael D. Cabana, MD, MPH;
Cynthia S. Rand, PhD;
Oren J. Becher, MD;
Haya R. Rubin, MD, PhD

1057

SPECIAL FEATURES

Picture of the Month

Mara Nitu, MD;
Keith Ancona, MD;
Cathy Coleman, MD;
Walter W. Tunnessen, Jr, MD

1063

**Pathological Case
of the Month**

Shishir N. Sheth, MD;
Carmen Gomez, MD;
Gary D. Josephson, MD

1065

**Radiological Case
of the Month**

Dirk Eichmann, MD;
Sylvia Engler, MD;
Hans-Deiter Oldigs, MD;
Heinz Schroeder, MD;
Carl-Joachim Partsch, MD

1067

**Radiological Case
of the Month**

Michael Heim, MB ChB;
Alex Deitch, MD;
Carlos Marchvic, MD;
Morris Azaria, MD

1069

ARCHIVES
OF
PEDIATRICS &
ADOLESCENT MEDICINE

Editor:

Frederick P. Rivara, MD, MPH
*Archives of Pediatrics
& Adolescent Medicine*
The Child Health Institute
University of Washington
Suite 300
146 N Canal St
Seattle, WA 98103-8652
(206) 685-3573
Fax: (206) 685-3572

Associate Editors:

Abraham Bergman, MD
Seattle, Wash
Dimitri Christakis, MD, MPH
Seattle, Wash
Alain Joffe, MD, MPH
Baltimore, Md

Editorial Manager:

Suzanne Shuey
Seattle, Wash

Statistical Consultant:

Peter Cummings, MD, MPH
Seattle, Wash

Editorial Board:

Leona Cuttler, MD
Cleveland, Ohio
Carolyn DiGiuseppi, MD, MPH
Denver, Colo
Claibourne I. Dungy, MD
Iowa City, Iowa
Gary L. Freed, MD, MPH
Ann Arbor, Mich
Frances P. Glascoe, EdS, PhD
Nashville, Tenn
Richard E. Kreipe, MD
Rochester, NY
Gregory L. Landry, MD
Madison, Wis

Harold P. Lehmann, MD, PhD

Baltimore, Md
David Lewis, MD
Palo Alto, Calif
Howard Markel, MD, PhD
Ann Arbor, Mich
Vaughn I. Rickert, PsyD
New York, NY
David Schonfeld, MD
New Haven, Conn
Phillip M. Sherman, MD, FRCPC
Toronto, Ontario
Gary A. Smith, MD, DrPH
Columbus, Ohio
Beverly P. Wood, MD
Los Angeles, Calif
Andrew M. Yeager, MD
Pittsburgh, Pa

Section Editors:

Book Reviews and Other Media

Abraham Bergman, MD
Seattle, Wash

Clinical Problem Solving

Abraham Bergman, MD
Seattle, Wash

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**Confidentiality and Adolescents' Willingness to Consent to Sexually Transmitted Disease Testing** 1072

Carol A. Ford, MD;
Dana Best, MD, MPH;
William C. Miller, MD, PhD, MPH

Trends in Residents' Perceptions of Working Conditions: 1989 - 1999 1073

Philip O. Ozuah, MD, MSED;
Daniel R. Neuspiel, MD, MPH;
Steven P. Shelov, MD, MS

Neonatal Hypermagnesemia: More Causes and More Symptoms 1074

Hassib Narchi, MD, FRCP, FRCPC

BOOK REVIEWS AND OTHER MEDIA**The Widening Gap: Why America's Working Families Are in Jeopardy and What Can Be Done About It** 1075
*Shari Rudavsky***REGULAR DEPARTMENTS****This Month in Archives of Pediatrics & Adolescent Medicine** 987**Classified Advertising** 1077**Index to Advertisers** 1080

Instructions for Authors—
See January 2001 issue, page 101, or visit the Web site at <http://www.archpediatrics.com>.