

# ARCHIVES OF DERMATOLOGY

The ARCHIVES OF DERMATOLOGY 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 DERMATOLOGY (ISSN 0003-987X) is published monthly by the American Medical Association, 515 N State St, Chicago, IL 60610, and is an official publication of the Association. The ARCHIVES OF DERMATOLOGY reaches more than 14 800 readers in over 95 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. 319317.

Printed in the USA.

**SUBSCRIPTION RATES**—The personal subscription rates for the ARCHIVES OF DERMATOLOGY are \$195 for 1 year (12 issues) in the United States and US possessions; \$245 in the Americas; £145 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 DERMATOLOGY, 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 Subscription Department, 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 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>

**DERMATOLOGY HOME PAGE**—<http://www.archdermatol.com>

## Publication Staff

Offices: 515 N State St, Chicago, IL 60610

### Editorial Processing Department

**Division Director:** Cheryl Iverson  
**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, Vickrey Golden  
**Copy Editors:** Jean Kang, John McFadden, 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  
**Web Development Editor:** Keith Huff  
**Assistant Editor:** Nikhil Torsekar  
**Web Copy Editor:** 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

**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:** Vida Damijonaitis, 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 Assistants:** Kristy Kambanis, Ruth Sprague  
**Production Associates and Specialists**  
**Advertising and Production Services:** Susan Chiara, Mary Anne Donley, Sarah Powell, Demise Steinhauer, Jo Anne Turner, 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, Joel Brammeier, Regina Brownlee, La'son J. Diggs, Melanie Parenti, Angela Smits  
**Distribution:** 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

**National Sales Manager:** 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 DERMATOLOGY

OCTOBER 2000 VOLUME 136, NUMBER 10 PAGES 1191-1292

## STUDIES

- Occult Neurofibroma and Increased S100 Protein in the Skin of Patients With Neurofibromatosis Type 1: New Insight to the Etiopathomechanism of Neurofibromas** 1207  
*Seija-Liisa Karvonen, MD, PhD; Matti Kallioinen, MD, PhD; Heli Ylä-Outinen, MD; Minna Pöyhönen, MD, PhD; Aarne Oikarinen, MD, PhD; Juha Peltonen, MD, PhD*

- The Natural History of Chronic Actinic Dermatitis** 1215  
*Robert S. Dawe, MRCP; Iain K. Crombie, PhD; James Ferguson, FRCP*

- Tissue-Engineered Skin (Apligraf) in the Healing of Patients With Epidermolysis Bullosa Wounds** 1225  
*Anna F. Falabella, MD; Isabel C. Valencia, MD; William H. Eaglstein, MD; Lawrence A. Schachner, MD*

- Isotretinoin Use and Risk of Depression, Psychotic Symptoms, Suicide, and Attempted Suicide** 1231  
*Susan S. Jick, DSc; Hilal Maradit Kremers, MD, MSc; Catherine Vasilakis-Scaramozza, MPH*

## OBSERVATIONS

- Isolated Congenital Nail Dysplasia: A New Autosomal Dominant Condition** 1239  
*Henning Hamm, MD; Susanne Karl, MD; Eva-Bettina Bröcker, MD*

- Clinical and Genetic Studies of 3 Large, Consanguineous, Algerian Families With Mal de Meleda** 1247  
*Bakar Bouadjar, MD; Smaïl Benmazouzia, MD; Jean-François Prud'homme, MD; Susan Cure, PhD; Judith Fischer, MD*

## LETTER FROM ABROAD

- Letter From Australia: Life After the World Congress** 1255  
*Alan Watson, MB, BS, DDM, FACD*

## EDITORIALS

- Of Mass and Men: Neurofibromas and Histogenesis** 1257  
*Vincent M. Riccardi, MD*

- Skin Bioequivalents and Their Role in the Treatment of Inherited Epidermolysis Bullosa** 1259  
*Jo-David Fine, MD, MPH*

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

**Cheryl Iverson**  
Managing Editor

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

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

**OFF-CENTER FOLD**

- Nonhealing Leg Ulceration** 1263  
 Keith Schumann, MD;  
 Kimberly Hollandsworth, MD;  
 Adrian Ormsby, MD
- Verrucous Annular Ulcerated Hip Plaques** 1263  
 Dana Sachs, MD;  
 Lyndon Su, MD;  
 Andrzej Dlugosz, MD
- Purplish Papules on the Legs** 1263  
 Jeffrey M. Weinberg, MD;  
 Michael Ioffreda, MD;  
 Soren M. White, MD;  
 Robert I. Rudolph, MD;  
 E. Michael Kramer, MD
- Asymptomatic Plaque on the Chin of a 10-Year-Old Girl** 1263  
 Edward M. Fannon, DO;  
 Howard Pride, MD

**FROM THE MMWR**

- Gonorrhea—United States, 1998** 1282

**THE CUTTING EDGE**

- Topical Sucralfate for Erosive Irritant Diaper Dermatitis** 1199  
 Trevor Markham, MB, MRCPI;  
 Fionnuala Kennedy, BSc, PharmBA;  
 Paul Collins, MD, MRCPI, DCH

**CRITICAL SITUATIONS**

- Bullous Pemphigoid Treated With Leflunomide: A Novel Immunomodulatory Agent** 1204  
 Hossein C. Nousari, MD; Grant J. Anhalt, MD

**ARCHIVES A CENTURY AGO**

- Book Reviews.** 1206

**ARCHIVES**  
 OF  
**DERMATOLOGY**

*Editor:*

**Kenneth A. Arndt, MD**  
 Beth Israel Deaconess Medical Center  
 330 Brookline Ave, LY 127-1  
 Boston, MA 02215

*Cocditor:*

**Robert S. Stern, MD**  
 Boston, Mass

*Editorial Coordinator:*

**Brenda A. Gates**  
 Boston, Mass

*Editorial Office*

(617) 667-3200  
 Fax (617) 667-4948  
 e-mail:

ArchiveDerm@caregroup.harvard.edu

*Section Editors:*

*Archives a Century Ago:*  
**Mark Bernhardt, MD**

*Critical Situations:*  
**Anita G. Licata, MD**

*The Cutting Edge:*  
**George J. Hruza, MD**

*Assistant Section Editors:*

**Lynn A. Cornelius, MD**  
**Jon Starr, MD**

*Evidence-Based Dermatology:*

**Damiano Abeni, MD, MPH**  
**Michael Bigby, MD**  
**Paolo Pasquini, MD, MPH**  
**Moyse Szkló, MD, MPH, DrPh**  
**Hywel Williams, MSc, PhD, FRCP**

*Issues in Dermatology:*

**Kenneth A. Arndt, MD**

*Off-Center Fold:*

**Michael E. Ming, MD**

*On the Horizon*

**Gary S. Wood, MD**

*Web Editor:*

**Harvey Lui, MD, FRCP**

*CME Editor:*

**Andrew D. Samel, MD**

*Editorial Board:*

**Philip C. Anderson, MD**  
 Columbia, Mo

**Timothy G. Berger, MD**  
 San Francisco, Calif

**Michael Bigby, MD**  
 Boston, Mass

**Mary-Margaret Chren, MD**  
 San Francisco, Calif

**Ponciano D. Cruz, Jr, MD**  
 Dallas, Tex

**Irene E. Edwards, MD**  
 Charlotte, NC

**Richard G. Glogau, MD**  
 San Francisco, Calif

**George J. Hruza, MD**  
 St Louis, Mo

**Joseph L. Jorizzo, MD**  
 Winston-Salem, NC

**Arnold W. Klein, MD**  
 Beverly Hills, Calif

**David J. Leffell, MD**  
 New Haven, Conn

**Donald P. Lookingbill, MD**  
 Jacksonville, Fla

**Harvey Lui, MD, FRCP**  
 Vancouver, British Columbia

**Michael E. Ming, MD**  
 San Francisco, Calif

**Seth J. Orlow, MD, PhD**  
 New York, NY

**John R. Stanley, MD**  
 Bethesda, Md

**Stephen B. Webster, MD**  
 La Crosse, Wis

**Bruce U. Wintroub, MD**  
 San Francisco, Calif

**Gary S. Wood, MD**  
 Cleveland, Ohio

*Surgical Advisory Board:*

**David J. Leffell, MD, Chairman**

**Marc D. Brown, MD**

**Scott W. Fosko, MD**

**Algin B. Garrett, MD**

**Richard G. Glogau, MD**

**Glenn D. Goldman, MD**

**Roy C. Grekin, MD**

**Timothy M. Johnson, MD**

**Arielle N. B. Kauvar, MD**

**Arnold W. Klein, MD**

**Barry Leshin, MD**

**S. Teri McGillis, MD**

**Stanley J. Miller, MD**

**Neil S. Sadick, MD**

**Neil A. Swanson, MD**

**Duane C. Whitaker, MD**

*International Advisory Committee:*

**Gunter Burg, MD**

Zurich, Switzerland

**Ruggero Caputo, MD**

Milano, Italy

**Goh Chee-Leok, MD, MBBS, MMed,**  
**MRCP, FRCP (Edin), FAMS**

Singapore, Singapore

**Hong-Duo Chen, MD**

Shenyang, China

**Edgardo N. Chouela, MD**

Buenos Aires, Argentina

**Yahya Dowlati, MD, PhD**

Tehran, Iran

**Rafael Falabella, MD**

Cali, Colombia

**James Ferguson, MD**

Dundee, Scotland

**Miguel Ruben Guarda, MD**

Santiago, Chile

**Sima Halevy, MD**

Beer-Sheva, Israel

**Roderick Hay, DM, FRCP, FRCP**

London, England

**Helmut Kerl, MD**

Graz, Austria

**Sungnack Lee, MD**

Suwon, Korea

**José M. Mascaró, MD**

Barcelona, Spain

**Gillian Murphy, MD**

Dublin, Ireland

**Takeji Nishikawa, MD**

Tokyo, Japan

**Oumeish Y. Oumeish, MD**

Amman, Jordan

**Thada Piamphongsant, MD**

Bangkok, Thailand

**Marcia Ramos-e-Silva, MD, PhD**

Rio de Janeiro, Brazil

**Jean Edouard Revuz, MD**

Creteil, France

**Hans W. Rothenborg, MD**

Hellerup, Denmark

**Mohsen Soliman, MD**

Cairo, Egypt

**Wolfram Sterry, MD**

Berlin, Germany

**John D. Stratigos, MD**

Athens, Greece

**Lourdes Tamayo, MD**

Mexico City, Mexico

**Vermen Verallo-Rowell, MD**

Makati City, Philippines

**B. J. Vermeer, MD**

Leiden, the Netherlands

**Alan Bruce Watson, MBBS, DDM, FACD**

Newcastle, Australia

**Hsin-Su Yu, MD, PhD**

Kaohsiung, Taiwan

**CORRESPONDENCE: COMMENTS AND OPINIONS**

- Nicotine and Pemphigus** 1269  
*Sergei A. Grando, MD, PhD, DSc;*  
*Mark V. Dahl, MD*
- No Evidence to Support Delay in Excision of Malignant Melanoma** 1269  
*Brett Coldiron, MD*
- In Reply** 1270  
*Stanley P. L. Leong, MD*
- Rigid Definitions Restrict the Evolution of Understanding** 1271  
*Robert Gniadecki, MD, PhD, DSci*
- In Reply** 1271  
*A. Bernard Ackerman, MD*

**CORRESPONDENCE: VIGNETTES**

- KH 1060 for the Treatment of Lichen Planus: A Multicenter, Randomized, Double-blind, Vehicle-Controlled Study** 1272  
*Anne Boulloc, MD, PhD; Jean Revuz, MD;*  
*Martine Bagot, MD, PhD; Janine Wechsler, MD*  
*Patrick Natta, MD*
- Livedo Reticularis, Ulcers, and Peripheral Gangrene: Cutaneous Manifestations of Primary Hyperoxaluria** 1272  
*Helen A. Shih, MS; David M. F. Kao, MD;*  
*Rosalie Elenitsas, MD; James J. Leyden, MD*
- Generalization of Cicatricial Pemphigoid During Azathioprine Therapy** 1274  
*Michele Jennifer Ann Burgess, MD;*  
*David P. Fivenson, MD*

- Treatment of Warts With *Candida* Antigen Injection** 1274  
*Rebecca Copp Phillips, MD; Terry S. Ruhl, MD;*  
*John L. Pfenninger, MD; Matthew R. Garber, MD*

- Association of *Helicobacter pylori* Infection With Psoriasis and Lichen Planus: Prevalence and Effect of Eradication Therapy** 1275  
*Esteban Daudén, MD, PhD;*  
*Maria-Angeles Vázquez-Carrasco, MD;*  
*Pablo F. Peñas, MD;*  
*José-Maria Pajares, MD, PhD;*  
*Amaro García-Díez, MD, PhD*

- Randomized Double-blind Placebo-Controlled Trial in the Treatment of Alopecia Areata With 0.25% Desoximetasone Cream** 1276  
*Somyot Charuwichitratana, MD;*  
*Penpun Wattanakrai, MD;*  
*Somsak Tanrattanakorn, MD*

- Lime Disease?** 1277  
*LCDR Jonathan G. Baker, MC, USN;*  
*LCDR David A. Tarantino, Jr, MC, USNR;*  
*CDR Matthew L. Miller, MC, USNR*

**BOOK AND NEW MEDIA REVIEW**

- Morphological Diagnosis of Skin Disease: A Study of the Living and Gross Pathology of the Skin** 1279

**REGULAR DEPARTMENTS**

- News and Notes** 1200, 1230, 1260, 1280
- Archives CME** 1284
- Classified Advertising** 1286
- Index to Advertisers** 1292

**Mission Statement**

The *Archives of Dermatology* publishes information concerning the skin, its diseases, and their treatment. Its mission is to explicate the structure and function of the skin and its diseases and the art of using this information to deliver optimal care to the patient. We attempt to enhance the understanding of cutaneous pathophysiology and improve the clinician's ability to diagnose and treat skin disorders. This journal has a particular interest in publishing clinical and laboratory studies that reveal new information pertinent to the interests and needs of the clinical dermatologist. We believe that knowledge derived from well-designed clinical trials and studies of cost-effectiveness are especially important for improving the practice of dermatology. Studies that increase the understanding of the outcome of treatment or the means by which the burden of dermatologic disease can be measured and reduced or promote the health of patients with skin disease will receive special priority. The ARCHIVES regularly publishes reports on clinical investigations, editorials, and reviews. It also features reports and discussions on clinicopathologic correlations; clinical disorders of unique didactic value; therapeutics; and ethical, moral, socioeconomic, and political issues.