

ARCHIVES

OF

GENERAL PSYCHIATRY

FEBRUARY 2003 VOLUME 60, NUMBER 2 PAGES 109-216

ART AND IMAGES IN PSYCHIATRY

- Waterlilies: Green Reflections** 120
James C. Harris, MD

ORIGINAL ARTICLES

- Outpatient Prescriptions for Atypical Antipsychotics for African Americans, Hispanics, and Whites in the United States** 121
Gail L. Daumit, MD, MHS; Rosa M. Crum, MD, MHS; Eliseo Guallar, MD, DrPH; Neil R. Powe, MD, MPH, MBA; Annelle B. Primm, MD, MPH; Donald M. Steinwachs, PhD; Daniel E. Ford, MD, MPH

- Dehydroepiandrosterone Augmentation in the Management of Negative, Depressive, and Anxiety Symptoms in Schizophrenia** 133
Rael D. Strous, MD; Rachel Maayan, PhD; Raya Lapidus, MD; Rafael Stryker, MD; Michal Lustig, MD; Moshe Kotler, MD; Abraham Weizman, MD

- A Randomized Controlled Study of Cognitive Therapy for Relapse Prevention for Bipolar Affective Disorder: Outcome of the First Year** 145
Dominic H. Lam, PhD; Edward R. Watkins, PhD; Peter Hayward, PhD; Jenifer Bright, MSc; Kim Wright, BA; Natalie Kerr, MSc; Gina Parr-Davis, MSc; Pak Sham, PhD

- Lifetime History of Depression and Carotid Atherosclerosis in Middle-aged Women** 153
Deborah J. Jones, PhD; Joyce T. Bromberger, PhD; Kim Sutton-Tyrrell, DrPH; Karen A. Matthews, PhD

- Induced Panic Attacks Shift γ -Aminobutyric Acid Type A Receptor Modulatory Neuroactive Steroid Composition in Patients With Panic Disorder: Preliminary Results** 161
Andreas Ströhle, MD; Elena Romeo, MD; Flavia di Michele, MD; Augusto Pasini, MD; Bettina Hermann, PhD; Gisela Gajewsky; Florian Holsboer, MD, PhD; Rainer Rupprecht, MD

- Family Study of Affective Spectrum Disorder** 170
James I. Hudson, MD, ScD; Barbara Mangweth, PhD; Harrison G. Pope, Jr, MD, MPH; Christine De Col, MD; Armand Hausmann, MD; Sarah Gutweniger, MA; Nan M. Laird, PhD; Wilfried Biebl, MD; Ming T. Tsuang, MD, PhD, DSc

- Predictors of Mortality in Eating Disorders** 179
Pamela K. Keel, PhD; David J. Dorer, PhD; Kamryn T. Eddy, BA; Debra Franko, PhD; Dana L. Charatan, BA; David B. Herzog, MD

- Screening for Serious Mental Illness in the General Population** 184
Ronald C. Kessler, PhD; Peggy R. Barker, MPH; Lisa J. Colpe, PhD, MPH; Joan F. Epstein, MS; Joseph C. Gfroerer, BA; Eva Hiripi, MS; Mary J. Howes, PhD; Sharon-Lise T. Normand, PhD; Ronald W. Manderscheid, PhD; Ellen E. Walters, MS; Alan M. Zaslavsky, PhD

- Familial Patterns of Risk in Very Late-Onset Alzheimer Disease** 190
Jeremy M. Silverman, PhD; Christopher J. Smith, MA; Deborah B. Marin, MD; Richard C. Mohs, PhD; Cathi B. Propper, BA

- Serum Anticholinergic Activity in a Community-Based Sample of Older Adults: Relationship With Cognitive Performance** 198
Benoit H. Mulsant, MD; Bruce G. Pollock, MD, PhD; Margaret Kirshner, BA; Changyu Shen, BS; Hiroko Dodge, PhD; Mary Ganguli, MD

- Development of a New Once-a-Day Formulation of Methylphenidate for the Treatment of Attention-deficit/Hyperactivity Disorder: Proof-of-Concept and Proof-of-Product Studies** 204
James Swanson, PhD; Suneel Gupta, PhD; Andrew Lam, PhD; Ira Shoulson, MD; Marc Lerner, MD; Nishit Modi, PhD; Elizabeth Lindemulder, PhD; Sharon Wigal, PhD

CORRECTIONS

Error With Figure	197
The Interplay of Nature, Nurture, and Developmental Influences: The Challenge Ahead for Mental Health <i>Michael Rutter, MD, FRS</i>	203

REGULAR DEPARTMENTS

This Month in Archives of General Psychiatry	119
Physician Marketplace	213
Index to Advertisers	215
Contact Information	216

**Instructions for Authors are available
on our Web site: <http://www.archgenpsychiatry.com>.
If you do not have access to the Web, contact Frances
MacNeil at (617) 855-2170.**

About the Cover

Claude Monet (1840-1926). *Waterlilies: Green Reflections*. Detail of left side, room I, east wall, Musée de l'Orangerie, Paris, France. Copyright Réunion des Musées Nationaux/Art Resource, NY. See page 120.

Mission Statement: The *Archives of General Psychiatry* strives to publish original, state-of-the-art studies and commentaries of general interest to clinicians, scholars, and research scientists in psychiatry, mental health, behavioral science, and allied fields. The *Archives* seeks to inform and to educate its readers as well as to stimulate debate and further exploration into the nature, causes, treatment, and public health importance of mental illness.

Editor: **Joseph T. Coyle, MD**
McLean Hospital
115 Mill St
Belmont, MA 02478
Phone: (617) 855-2170
Fax: (617) 855-2579

Editorial Assistant:
Frances MacNeil Belmont, Mass

Web Editor:
Ronald J. Steingard, MD

Editorial Board:

Huda Akil, PhD Ann Arbor, Mich
Ross J. Baldessarini, MD Belmont, Mass
Floyd E. Bloom, MD La Jolla, Calif
Malcolm B. Bowers, Jr, MD New Haven, Conn
David L. Braff, MD San Diego, Calif
William T. Carpenter, Jr, MD Baltimore, Md
Raymond J. Dolan, MD London, England
Felton Earls, MD Cambridge, Mass
Ellen Frank, PhD Pittsburgh, Pa
Richard M. Glass, MD Chicago, Ill
Frederick K. Goodwin, MD Bethesda, Md
James C. Harris, MD Baltimore, Md
Fritz A. Henn, PhD, MD Mannheim, Germany
Steven E. Hyman, MD Bethesda, Md
Kenneth S. Kendler, MD Richmond, Va
Kenneth K. Kidd, PhD New Haven, Conn

Donald F. Klein, MD New York, NY
Helena Chmura Kraemer, PhD Stanford, Calif
David J. Kupfer, MD Pittsburgh, Pa
Herbert Y. Meltzer, MD Nashville, Tenn
Grayson S. Norquist, MD Bethesda, Md
Charles P. O'Brien, MD, PhD Philadelphia, Pa
Michael Posner, MD New York, NY
Judith L. Rapoport, MD Bethesda, Md
Alan F. Schatzberg, MD Stanford, Calif
Goran Sedvall, MD Stockholm, Sweden
Ronald J. Steingard, MD Worcester, Mass
Gary L. Tischler, MD New York, NY
Ming T. Tsuang, MD, PhD Boston, Mass
Stanley J. Watson, Jr, PhD, MD Ann Arbor, Mich
Myrna M. Weissman, PhD New York, NY
Kenneth B. Wells, MD, MPH Los Angeles, Calif

Publication Staff

Offices: 515 N State St, Chicago, IL 60610

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

Editorial Processing Department

Department Director: Paula Glitman
Copyediting Manager: Brenda Gregoline
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 Editor: Vickey Golden
Copy Editors: Juana N. Llorens, Rachel Novickas,
Cheryl L. Tobey, Rachel Bodzin Young
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

Publishing & Business Staff

Group Publisher: Nawin Gupta, PhD
VP Office Staff: James Clinton, Geoffrey Flick, Terri Hanley,
Maureen Archey, Anna Goins
International Business and Development:
William Fox (director), Norman Frankel, PhD, Rhonda Bailey,
Millette Jackson-Bates
Online Business and CME: Bonnie Chi-Lum, MD, MPH (publisher)

Circulation and Classified Advertising Sales

Director: Curt Reilly
Managers: Vida Damijonaitis, Kim Krebs, Thalia Moss
Staff: Kathy Braun, Ana Dirksen, Sandra Garzon,
Christine Hearne, Amy Postlewait, Trina Rizzo,
Barbara Van Wagner

Advertising Sales and Marketing

Director: Peter J. Murphy
Sales Representative: Barbara Napoli
Marketing Services: Nancy Bell
Staff: Victoria Anne Acot, Susan Lovenberg, Mirna Monal,
Debra Ann Sardo

Reprints

Director: Mark Kuhns
Staff: Wanda Bartolotta, Joseph Reakash

Publishing Operations Division

Division Director: Vanessa Hayden
Directors: Karen Adams-Taylor, Paul Gasiecki,
Sue Sherrill
Managers: David Antos, Karen Branham, Debbie Camp,
Diane Darnell, Karl Elvin, Betty Frigerio, Linda Gardner,
Mary Ellen Johnston, Mark Matura, Michael McGraw,
Phil O'Leary, Susan Price, Charl Richey, Alfred Tomaselli,
Carmela Ware
Advertising and Production Services: Linda Alexander,
LaWanda Brown, Susan Chiara, Mary Anne Donley,
Euwanaha Joiner-Smith, Brian McCartney,
Sean O'Donnell, Noemi Olmo, Carole Piszker,
Sarah Powell, Denise Steinhauser, Ellen Yoshihara
Circulation Processing: Bernadette Bauer, Julie Burton,
Rosa Eng, Felicia Kyles, Lawrence Majkszak,
Kathryn Osten
Composition and New Media: Rebecca Aiken,
Clifford Barrett, Gail Barrett, Regina Brownlee,
Brenda Chandler-Grayer, Rowena Dagang,
Amy Evers, Mary Ann Kuranda, Sandra Lopez,
John Marcinek, Bruce McGregor, La son Diggs Sledge,
Angela Smits
Graphics: Joe Amft, Fred Furtner, Carolyn Hall,
Maria Kowalkowski, Chris Meyer, JoAnne Weiskopf
Proofreading: Carol Joy Farrell, Daniel James,
Judith A. Litterskis, Teresa H. Omiolek,
Barbara Wojtowicz, Agnes A. Zarkadas

AMA Executives

Michael D. Maves, MD, MBA
Executive Vice President, Chief Executive Officer
Robert A. Musacchio, PhD
Senior Vice President, Publishing & Business Services

CONTACT INFORMATION

EDITORIAL OFFICE

Manuscript Submission: All manuscripts should be sent to Editor, *Archives of General Psychiatry*, McLean Hospital, 115 Mill St, Belmont, MA 02478, USA; phone: (617) 855-2170; fax: (617) 855-2579; e-mail: archgenpsychiatry@aol.com.

Instructions for Authors: Available online at www.archgenpsychiatry.com.

CONSORTIUM OF JAMA & ARCHIVES JOURNALS

The *Archives of General Psychiatry* is a member of the consortium of AMA journals listed below.

The Journal of the American Medical Association (JAMA)	Archives of Ophthalmology
Archives of Dermatology	Archives of Otolaryngology–Head & Neck Surgery
Archives of Facial Plastic Surgery	Archives of Pediatrics & Adolescent Medicine
Archives of General Psychiatry	Archives of Surgery
Archives of Internal Medicine	
Archives of Neurology	

JAMA/ARCHIVES MEDIA RELATIONS

Jann Ingmire; phone: (312) 464-5262; e-mail: jamaarchmedia@ama-assn.org.

ARCHIVES OF GENERAL PSYCHIATRY ONLINE

Archives of General Psychiatry is available online at www.archgenpsychiatry.com.

REPRINTS

Author and Educational Reprints: Journal Products coordinator: Joseph R. Rekish; phone: (312) 464-4594; fax: (312) 464-4849; e-mail: Joseph_Rekish@ama-assn.org. Orders of individual articles must be for a minimum of 100 reprints.

Commercial Reprints: Wanda Bartolotta; phone: (718) 946-7424; fax: (718) 946-7372; e-mail: Wanda_Bartolotta@ama-assn.org. Orders of individual articles must be for a minimum of 300 reprints.

PERMISSIONS

Information about obtaining permission to republish, reprint, or adapt material published in *Archives of General Psychiatry* is available from Rhonda Bailey; phone: (312) 464-2513; fax: (312) 464-5835; e-mail: Rhonda_Bailey@ama-assn.org.

DOCUMENT DELIVERY

Copies of individual articles are available online at www.archgenpsychiatry.com and from the following: Infotrieve, phone: (800) 422-4633; fax: (310) 208-5971; URL: www.infotrieve.com; e-mail: orders@infotrieve.com; Institute for Scientific Information (ISI), phone: (800) 603-4367; fax: (856) 787-1679; URL: www.isidoc.com; e-mail: service@isidoc.com; Dialog Information Services; Proquest; Ovid Technologies, Inc; and EBSCO.

The ARCHIVES OF GENERAL PSYCHIATRY (ISSN 0003-990x) 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 GENERAL PSYCHIATRY reaches more than 31 000 readers in over 79 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. 318633. Printed in the USA.

ADVERTISING

Information about advertising is available from the following sales representatives and online at www.archgenpsychiatry.com.

Account Manager: Barbara Napoli (nationally); phone: (973) 263-9191 ext 203

Manager, Marketing Services: Nancy Bell; phone: (973) 263-9191 ext 216

Advertising Office: 119 Cherry Hill Rd, Suite 330, Parsippany, NJ 07054-1114; phone: (973) 263-9191

Classified Advertising: Thalia Moss, 515 N State St, Chicago, IL 60610; phone: (312) 464-4169; e-mail: Thalia_Moss@ama-assn.org.

ADVERTISING PRINCIPLES

Advertisements in this issue have been reviewed to comply with the principles governing advertising in AMA publications. A copy of these principles is available on request and online at www.archpsychiatry.com. 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.

ADDRESS CHANGES

Postmaster, send all address changes to *Archives of General Psychiatry*, c/o the AMA Unified Service Center, American Medical Association, 515 N State St, Chicago, IL 60610. Notification of address changes must be made at least 6 weeks in advance; include both old and new addresses and a recent mailing label if sending via mail.

SUBSCRIPTION RATES AND SERVICE

Subscription rates are shown in the table below. For service in the US and Americas, inquiries on pricing, address changes, missing issues, subscription billing, subscription renewal, and back issues, contact the AMA Unified Service Center, 24 hours a day, 7 days a week.

AMA members: phone: (800) 262-3211; e-mail: msc@ama-assn.org. **Other physicians and nonphysician customers, including subscription agents:** phone: (800) 262-2350 or (312) 670-7827; fax: (312) 464-5831; e-mail: ama-subs@ama-assn.org. **Mail inquiries:** Unified Service Center, American Medical Association, PO Box 10946, Chicago, IL 60610-0946. For subscribers with mailing addresses outside the US and the Americas: Contact JAMA/Archives Journals, American Medical Association, Tower House, Sovereign Park, Market Harborough, Leicestershire LE15 9EF, UK. Phone: +44 1858-438880; fax: +44 1858-434958; e-mail: ama@subscription.co.uk.

Annual Subscription Rates

	United States	Americas	UK	Rest of World
INDIVIDUAL				
Print and Online	\$195	\$250	£175	€255
Online Only	\$150	\$150	£105	€170
INSTITUTION				
Print and Online	\$365	\$475	£310	€485
Online Only	\$275	\$275	£195	€320

In Canada, US rate plus GST. Rates for residents and medical students available at pubs.ama-assn.org, or from the AMA Unified Service Center.