

The ARCHIVES OF GENERAL PSYCHIATRY 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 GENERAL PSYCHIATRY (ISSN 0003-990x) 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 GENERAL PSYCHIATRY reaches more than 27 700 readers in over 79 countries each month. Periodicals postage rates paid at Chicago, IL, and at additional mailing offices. GST registration number: 12622 5556 RT. Canadian Post International Publications Mail (Canadian Distribution) Sales Agreement No. 318633.

Printed in the USA.

**SUBSCRIPTION RATES**—The personal subscription rates for the ARCHIVES OF GENERAL PSYCHIATRY are \$145 for 1 year (12 issues) in the United States and US possessions; \$195 in the Americas; £125 outside the Americas. The institution rates for 1 year are \$245 in the United States; \$345 in the Americas; £195 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 GENERAL PSYCHIATRY, 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 LE16 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, 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 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>

**GENERAL PSYCHIATRY HOME PAGE**—<http://www.archgenpsychiatry.com>

**Publication Staff**

Offices: 515 N State St, Chicago, IL 60610

**Editorial Processing Department,  
Archives Journals**

**Director:** Paula Glitman

**Copyediting Manager:**  
Brenda Gregoline

**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:**  
Vickey Golden  
Michelle Kurzynski

**Copy Editors:**  
Lauren L. Bomberger  
Erin M. Giannini

**Editorial Assistant:** Wanda Hill

**Scientific Publications  
& Multimedia Applications**

**Staff Assistant:** Helga Fritz

**Scientific Online Resources**

**Director:** Margaret Winker, MD

**Electronic Media Department**  
**Director:** Marty Suter

**Assistant Editors:**  
Brandt Martin  
Neil Shankman

**Staff Assistant:** Marla A. Hall

**Production & Distribution Division**

**Manager, Budgets & Costs:**  
Bonnie Van Clevon

**Publishing Manufacturing Analyst:**  
Diane Darnell

**Office Manager:** Karen Branham  
**Production Assistant:** Shannon Epplett

**Advertising & Production  
Department**

**Director:** Karen Adams-Taylor

**Production Specialist:** Terri Hanley  
**Manager, Advertising Services:**  
Carole Piszker

**Manager, Production Services:**  
Susan Price

**Supervisor, Production Services:**  
Debbie Camp

**Production Associates:**  
Mary Anne Donley  
Sarah Powell

Denise Steinhauer  
Jo Anne Turner

Carmela Ware

**Production Assistants:**  
Bryan Irzyk  
Amelia Zamudio

**Distribution**  
**Distribution Manager:** Paul Gasielki

**Distribution Analyst:**  
Michelle Robinson

**Traffic Control Specialist:**  
Victoria Buckner

**AMP**

**Specialty Journal Division Office**

**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:**  
Audrey Mathies  
Timothy Ryan

**Circulation Marketing Specialists:**  
Sandra Garzon  
Michael McGraw

**Licensing & Permissions Department**

**Director:** Norman Frankel  
**Permissions:** Rhonda Bailey

**International Coordinator:** Sharon Ali

**Electronic Production Department**

**Manager, Composition & Pagination:**  
Phil Arko

**Electronic Production Specialists:**  
Brenda Chandler-Grayer  
Heather Crego

Karl Elvin  
Amy Evers

Mary Ann Kuranda  
Sandra Lopez

**Manager, Graphics:** Charl Richey  
**Electronic Imaging Specialists:**  
Joe Amft

Noel Chaparro  
Carolyn Hall

Maria Kowalkowski  
Chris Meyer

JoAnne Weiskopf

**Proofreaders:**  
David Antos

Daniel James  
Rachel Novickas

Teresa H. Omiotek  
Mary Kay Tinerella

Barbara Wojtowicz

**Manager, Database & New Media:**  
Mary Ellen Johnston

**New Media Specialists:**  
Gail Barrett

Joel Brammeier  
Regina Brownlee

La'son J. Diggs  
Melanie Parenti

Angela Smits

**Production Assistant:** Ruth Sprague

# ARCHIVES

OF

## GENERAL PSYCHIATRY

VOL 57 NO. 3, MARCH 2000

### ORIGINAL ARTICLES

**A 40-Year Perspective on the Prevalence of Depression: The Stirling County Study** 209  
*Jane M. Murphy, PhD; Nan M. Laird, PhD; Richard R. Monson, MD, DSc; Arthur M. Sobol, MA; Alexander H. Leighton, MD*

**A Comparison of Self-report and Clinical Diagnostic Interviews for Depression: Diagnostic Interview Schedule and Schedules for Clinical Assessment in Neuropsychiatry in the Baltimore Epidemiologic Catchment Area Follow-up** 217  
*William W. Eaton, PhD; Karen Neufeld, MD; Li-Shiun Chen, MD; Guojun Cai, MD*

### COMMENTARIES

**Community Diagnosis Counts** 223  
*Darrel A. Regier, MD, MPH*

**Controversies in Community-Based Psychiatric Epidemiology: Let the Data Speak for Themselves** 227  
*Dan G. Blazer II, MD, PhD; Berton H. Kaplan, PhD*

### ORIGINAL ARTICLES

**A Comparison of Diagnostic Interviews for Depression in the Stirling County Study: Challenges for Psychiatric Epidemiology** 230  
*Jane M. Murphy, PhD; Richard R. Monson, MD, DSc; Nan M. Laird, PhD; Arthur M. Sobol, MA; Alexander H. Leighton, MD*

**Decreased Glutamic Acid Decarboxylase<sup>67</sup> Messenger RNA Expression in a Subset of Prefrontal Cortical  $\gamma$ -Aminobutyric Acid Neurons in Subjects With Schizophrenia** 237  
*David W. Volk, MS; Mark C. Austin, PhD; Joseph N. Pierri, MS, MD; Allan R. Sampson, PhD; David A. Lewis, MD*

**Neuropsychological Change in Early Phase Schizophrenia During 12 Months of Treatment With Olanzapine, Risperidone, or Haloperidol** 249  
*Scot E. Purdon, PhD; Barry D. W. Jones, MD; Emanuel Stip, MD; Alan Labelle, MD; Don Addington, MD; Stacy R. David, PhD; Alan Breier, MD; Gary D. Tollefson MD, PhD; for The Canadian Collaborative Group for Research on Cognition in Schizophrenia*

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.

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

**Lynn E. Jensen, PhD**  
Chief Operating Officer

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

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

**Robert L. Kennett**  
Vice President, Publishing

**Peter L. Payerli**  
Publisher

**Peter G. Messina**  
National Sales Manager

**Geoffrey A. Flick**  
Manager, Marketing Services

**Cheryl Iverson**  
Director, Editorial Processing Division

**Vanessa Hayden**  
Director, Production &  
Distribution Division

**Advertising Office:**  
J. P. Cahill & Associates, 341 S Waiola Ave,  
La Grange, IL 60525 (708) 352-0322.

**AMA Classified Advertising Department:**  
Thalia Moss, 800-262-2260.

|   |            |   |            |
|---|------------|---|------------|
| <b>Illicit Psychoactive Substance Use, Heavy Use, Abuse, and Dependence in a US Population-Based Sample of Male Twins</b>   | <b>261</b> | <b>Executive Dysfunction and Long-term Outcomes of Geriatric Depression</b>   | <b>285</b> |
| <i>Kenneth S. Kendler, MD;<br/>Laura M. Karkowski, PhD;<br/>Michael C. Neale, PhD;<br/>Carol A. Prescott, PhD</i>   |            | <i>George S. Alexopoulos, MD;<br/>Barnett S. Meyers, MD;<br/>Robert C. Young, MD;<br/>Balu Kalayam, MD;<br/>Tatsuyuki Kakuma, PhD;<br/>Michelle Gabrielle, MSW;<br/>Jo Anne Sirey, PhD;<br/>James Hull, PhD</i> |            |
| <b>Attenuation of the Neuropsychiatric Effects of Ketamine With Lamotrigine: Support for Hyperglutamatergic Effects of N-methyl-D-aspartate Receptor Antagonists</b>            | <b>270</b> | <b>LETTERS TO THE EDITOR</b>  |            |
| <i>Amit Anand, MD;<br/>Dennis S. Charney, MD;<br/>Dan A. Oren, MD;<br/>Robert M. Beriman, MD;<br/>X. Sylvia Hu, PhD;<br/>Angela Cappiello, MD, PhD;<br/>John H. Krystal, MD</i> |            | <b>Dextromethorphan Challenge in Alcohol-Dependent Patients and Controls</b>  | <b>291</b> |
|   |            | <i>Christian G. Schütz, MD, MPH;<br/>Michael Soyka, MD</i>  |            |
| <b>A Program for Relapse Prevention in Schizophrenia: A Controlled Study</b>  | <b>277</b> | <b>In Reply</b>   | <b>292</b> |
| <i>Marvin I. Herz, MD;<br/>J. Steven Lambert, MD;<br/>Jim Mintz, PhD;<br/>Ruth Scott, MS, RN, CS;<br/>Susan P. O'Dell, MS, RN, CS;<br/>Lisa McCartan, MA;<br/>Glen Nix, PhD</i> |            | <i>John H. Krystal, MD;<br/>Ismene L. Petrakis, MD</i>  |            |
|   |            | <b>REGULAR DEPARTMENTS</b>  |            |
|   |            | <b>This Month in Archives of General Psychiatry</b>   | <b>208</b> |
|   |            | <b>Classified Advertising</b>   | <b>298</b> |
|   |            | <b>Index to Advertisers</b>   | <b>300</b> |

**Instructions for Authors—**  
See January 2000 issue, page 98, or visit the Web site at <http://www.archgenpsychiatry.com>.

## ARCHIVES OF GENERAL PSYCHIATRY

*Editor:*

**Jack D. Barchas, MD**  
Department of Psychiatry  
Cornell Medical Center  
525 E 68th St, Box 171  
New York, NY 10021  
Phone: (212) 746-3771  
Fax: (212) 746-3772

*Associate Editor:*

**Peter M. Marzuk, MD**  
New York, NY

*Web Site Editor:*

**Francis S. Lee, MD, PhD**  
New York, NY

*Editorial Administrator:*

**Sheena Rummit**  
New York, NY

*Editorial Board:*

**Huda Akil, PhD**  
Ann Arbor, Mich  
**Ross J. Baldessarini, MD**  
Belmont, Mass  
**Malcolm B. Bowers, Jr, MD**  
New Haven, Conn  
**David L. Braff, MD**  
San Diego, Calif  
**William T. Carpenter, Jr, MD**  
Baltimore, Md  
**C. Robert Cloninger, MD**  
St Louis, Mo  
**Joseph T. Coyle, MD**  
Boston, Mass  
**Glen R. Elliott, PhD, MD**  
San Francisco, Calif  
**Ellen Frank, PhD**  
Pittsburgh, Pa

**Richard M. Glass, MD**  
Chicago, Ill  
**Frederick K. Goodwin, MD**  
Bethesda, 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  
**Eric J. Nestler, MD, PhD**  
New Haven, Conn

**Grayson S. Norquist, MD**  
Bethesda, Md  
**Charles P. O'Brien, MD, PhD**  
Philadelphia, Pa  
**William Z. Potter, MD, PhD**  
Indianapolis, Ind  
**Judith L. Rapoport, MD**  
Bethesda, Md  
**Alan F. Schatzberg, MD**  
Stanford, Calif  
**Gary L. Tischler, MD**  
New York, NY  
**Stanley J. Watson, Jr, PhD, MD**  
Ann Arbor, Mich  
**Myrna M. Weissman, PhD**  
New York, NY  
**Kenneth B. Wells, MD, MPH**  
Los Angeles, Calif