The Journal of Neuropsychiatry

and Clinical Neurosciences

Official Journal of the American Neuropsychiatric Association

The Journal of Neuropsychiatry and Clinical Neurosciences (ISSN 0895-0172). is published quarterly by the American Psychiatric Association (APA), 800 Maine Avenue SW, Suite 900, Washington, DC 20024. Copyright © 2021 American Psychiatric Association. The Journal of Neuropsychiatry and Clinical Neurosciences is protected by copyright and may not be reproduced in any manner without written permission. The Journal is abstracted/ indexed in Chemical Abstracts, Current Contents/Clinical Medicine®, EMBASE/ Excerpta Medica, Index Medicus/MEDLINE/ MEDLARS, PsycINFO, Psychological Abstracts, Research Alert®, and Sci Search®. It is available through University Microfilms Inc. 300 North Zeeb Road, Ann. Arbor, MI 48106, in microform, electronic, or paper format.

Manuscript submissions should no longer be sent by mail. Please visit http://mc.manuscriptcentral.com to upload a paper online.

U.S. individual subscriptions are \$309 per year for 4 issues (\$247 for APA members); international subscriptions are \$465 per year (\$372 for APA members); online only subscriptions start at \$277 per year. Institutional subscriptions are tier priced. For institutional site license information and pricing, please email us at institutions@psych.org, call (800) 368-5777 or visit www.appi.org/institutions.

Advertising inquiries may be directed to Tim Wolfinger at PMI, 30 East 33rd St., New York, NY 10016; (212) 904-0379; twolfinger apminy.com.

APA is not responsible for statements made in this publication by contributors or advertisers. Unless stated, material in the *Journal of Neuropsychiatry and Clinical Neurosciences* does not reflect the endorsement, official attitude, or position of APA or the American Neuropsychiatric Association.

Periodicals postage paid at Washington, DC, and additional mailing offices. POSTMASTER: Send address changes to *Journal of Neuropsychiatry and Clinical Neurosciences*, 800 Maine Avenue SW, Suite 900, Washington, DC 20024.

Editorial Board

Editor

David B. Arciniegas, M.D.

Deputy Editor

C. Alan Anderson, M.D.

Consulting Editors

C. Edward Coffey, M.D. Thomas W. McAllister, M.D. Fred Ovsiew, M.D. David A. Silbersweig, M.D. Jonathan M. Silver, M.D.

Associate Editors

Sheldon Benjamin, M.D. Deborah Black, M.D., Ph.D. Kevin J. Black, M.D. John J. Campbell, M.D. Miles Cunningham, M.D. Kirk Daffner, M.D. Christopher M. Filley, M.D. Richard B. Ferrell, M.D. Laura A. Flashman, Ph.D. Yonas E. Geda, M.D. W. Curt LaFrance, M.D. Edward C. Lauterbach, M.D. Mario Mendez, M.D., Ph.D. Charles Nemeroff, M.D., Ph.D. Robert G. Robinson, M.D. Jay Salpekar, M.D. Jeremy Schmahmann, M.D. Kaloyan S. Tanev, M.D. Paula T. Trzepacz, M.D. Valerie Voon, M.D., Ph.D. Hal S. Wortzel, M.D.

Editor Emeritus

Stuart C. Yudofsky, M.D.

ANPA Abstract Editor

Omar Ghaffar, M.D., M.Sc.

Book Review Editor

Michael Schrift, D.O., M.A.

Neuropsychiatry Classics Editor

Margo Lauterbach, M.D.

Windows to the Brain Editor Robin A. Hurley, M.D.

American Psychiatric Association Publishing

John McDuffie

Publisher

Michael D. Roy

Editorial Director, Journals

Demarie Jackson

Managing Editor

Angela Moore

Editorial Manager

Susan Westrate

Production Manager, Journals

Heidi Koch-Bubel

Editorial Support Services Manager

Linda LaCour

Editorial Assistant

Megan Conley

Editorial Assistant/Permissions

Coordinator

Patrick Hansard

Director of Marketing and Sales

