

# AMERICAN JOURNAL OF PREVENTIVE MEDICINE

A forum for the communication of information, knowledge,  
and wisdom in prevention science, education, practice, and policy.

## EDITORS

Kevin Patrick, MD, MS, *Editor-in-Chief, San Diego*

F Douglas Scutchfield, MD, *Editor, Lexington*

## ASSOCIATE EDITORS

**Science:** Steven H Woolf, MD, MPH, *Fairfax*; **Education:** Robert B Wallace, MD, *Iowa City*

**Practice:** Susan J Curry, PhD, *Chicago*; **Policy:** Helen Ann Halpin, PhD, MSPH, *Berkeley*

**International:** Adrian Bauman, MB BS, MPH, PhD, *Sydney*

**Consulting Statistics Editor:** Gregory J Norman, PhD, *San Diego*

Charlotte S Seidman, FNP, MHS, MPH, ELS, *Managing Editor, San Diego*

Beverly Lytton, BA, *Associate Managing Editor, San Diego*

## EDITORIAL BOARD

Jasjit S Ahluwalia, MD, MPH, MS, *Minneapolis*

David Atkins, MD, MPH, *Rockville*

Thomas Baranowski, PhD, *Houston*

Ross C Brownson, PhD, *St. Louis*

Alan W Cross, MD, *Chapel Hill*

James W Curran, MD, MPH, *Atlanta*

Larry L Dickey, MD, MPH, *Sacramento & San Francisco*

William H Dietz, MD, PhD, *Atlanta*

John P Elder, PhD, MPH, *San Diego*

Jonathan E Fielding, MD, MPH, MBA, *Los Angeles*

Lawrence D Frank, PhD, *Vancouver*

Howard Frumkin, MD, DrPH, *Atlanta*

Russell E Glasgow, PhD, *Denver*

Lawrence W Green, DrPH, *San Francisco*

Robert G Harmon, MD, MPH, *Eden Prairie MN*

Jeffrey R Harris, MD, MPH, *Seattle*

Ralph W Hingson, ScD, *Bethesda*

Thomas P Houston, MD, *Columbus*

Robert W Jeffery, PhD, *Minneapolis*

David L Katz, MD, MPH, *New Haven*

Neal D Kohatsu, MD, MPH, *Sacramento*

Thomas E Kottke, MD, *St. Paul*

Fuzhong Li, PhD, *Eugene*

Stephen A Matthews, PhD, *University Park PA*

J Michael McGinnis, MD, MA, MPP, *Washington DC*

Angela D Mickalide, PhD, CHES, *Washington DC*

Lloyd F Novick, MD, MPH, *Greenville NC*

Walter A Orenstein, MD, *Atlanta*

Michael D Parkinson, MD, MPH, *Alexandria*

Deborah N Pearlman, PhD, *Providence*

Diana B Petitti, MD, MPH, *Pasadena*

Kathryn A Phillips, PhD, *San Francisco*

Barbara K Rimer, DrPH, *Chapel Hill*

Thomas N Robinson, MD, MPH, *Stanford*

Carol W Runyan, PhD, MPH, *Chapel Hill*

James F Sallis, PhD, *San Diego*

Kurt C Stange, MD, PhD, *Cleveland*

Victor J Strecher, PhD, *Ann Arbor*

Stephen Hunt Taplin, MD, MPH, *Bethesda*

Steven M Teutsch, MD, MPH, *West Point PA*

Evelyn P Whitlock, MD, MPH, *Portland OR*

Walter Willett, MD, DrPH, *Boston*

Antronette (Toni) Yancey, MD, MPH, *Los Angeles*

Stephanie Zaza, MD, MPH, *Atlanta*

Richard K Zimmerman, MD, MPH, *Pittsburgh*

A Journal of the

**ACPM**  
American College of  
Preventive Medicine

&

**APTR**  
ASSOCIATION FOR PREVENTION TEACHING AND RESEARCH

Published by Elsevier Inc  
AJPM-ONLINE.NET

Advertisements that appear in AJPM must be approved by the Editorial Office prior to publication. However, publication of an advertisement does not imply that the editors of AJPM nor AJPM's sponsoring organizations, ACPM and APTR, endorse the advertised products or services.

## GOVERNING BOARD

Mark B. Johnson, MD, MPH, Chair  
Golden, Colorado

Ruth Gaare Bernheim, JD, MPH  
Charlottesville, Virginia

Douglas Campos-Outcalt, MD, MPA  
Phoenix, Arizona

James F. Cawley, MPH, PA-C  
Washington, DC

Douglas B. Kamerow, MD, MPH  
Washington, DC

Linda Kinsinger, MD, MPH  
Durham, North Carolina

Paul R. Marantz, MD, MPH  
Bronx, New York

Stephen A. McCurdy, MD, MPH  
Davis, California

David Shih, MD, MS  
Columbia, Maryland  
APMR Liaison

James A. Tacci, MD, JD, MPH  
Rochester, New York

Editorial correspondence should be directed to:

### Editor

#### American Journal of Preventive Medicine

University of California, San Diego  
9500 Gilman Drive, DEPT 0811  
La Jolla CA 92093-0811

#### E-mail for AJPM business:

ajpm@ucsd.edu

#### E-mail for manuscript queries:

eAJPM@ucsd.edu

#### E-mail for press queries:

PRajpm@ucsd.edu

Tel (858)457-7292

Fax (858)622-1463

#### AJPM Online:

www.ajpm-online.net

#### Fed Ex Address:

8950 Villa La Jolla Drive B-122  
La Jolla CA 92037

Sponsoring Organizations' Offices:

#### American College of Preventive Medicine

Michael A. Barry, CAE  
Executive Director  
1307 New York Avenue, NW,  
Suite 200  
Washington DC 20005  
Tel (202) 466-2044  
Fax (202) 466-2662  
www.acpm.org

#### Association for Prevention Teaching and Research

Allison L. Lewis  
Executive Director  
1001 Connecticut Avenue, NW,  
Suite 610  
Washington DC 20036  
Tel (202) 463-0550  
Fax (202) 463-0555  
www.aptrweb.org

### Author's Instructions on AJPM's Website

Complete author's instructions and guidelines for submitting manuscripts to the **American Journal of Preventive Medicine** can be found in each January issue and on the **AJPM Online Website**: [www.ajpm-online.net](http://www.ajpm-online.net). The Journal welcomes brief reports (max. 1200 words); research articles (3000 words); RCTs/community-based trials (4000 words); and review articles (4000 words) on all aspects of practice, education, policy, and research in preventive medicine and public health.

**For Advertising Orders & Inquires: North & South America:** Jim Maloney, Elsevier Inc., 170 S Independence Mall W, 300 E, Philadelphia, PA 19106-3399; Tel (215) 238-7808; E-mail: [j.maloney@elsevier.com](mailto:j.maloney@elsevier.com) **International:** Advertising Department, Elsevier Inc., The Boulevard, Langford Lane, Kidlington, Oxford OX5 1GB, United Kingdom; Tel (+44) (0) 1865 843565; Fax (44) (0) 1865 843976; E-mail: [media@elsevier.co.uk](mailto:media@elsevier.co.uk) **Japan:** Advertising Department, Elsevier Science Japan; Tel (81) (3) 5561 5033; Fax (81) (3) 5561 5047.

Requests for Permissions, Reprints, and Photocopies. All rights are reserved, no part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, re-

ording, or otherwise without either the prior written permission of the publisher (Elsevier Inc., 360 Park Avenue South, New York NY 10010-1710) or a license permitting restricted copying issued in the UK by the Copyright Licensing Agency Ltd., 90 Tottenham Court Road, London, W1P 9HE, or in the USA by the Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923. Fax: 508-750-4744. Reprints of individual articles are available only from the authors.

All inquiries regarding copyright material from this publication, other than reproduction through the Copyright Clearance Center, should be directed to Elsevier Science Ltd., P.O. Box 800, Oxford OX5 1DX, U.K. Phone: 44-1865 843830; Fax: 44-1865 853333; E-mail: [permissions@elsevier.co.uk](mailto:permissions@elsevier.co.uk)

The American Journal of Preventive Medicine is indexed and abstracted in Index Medicus/MEDLINE, EMBASE/Excerpta Medica, MEDLARS, Psychological Abstracts, PsycINFO, Sociological Abstracts, the Health Promotion and Education and the Cancer Prevention and Control Databases of CHID on BRS, the Smoking and Health Database on DIALOG, and Science Citation Index, Research Alert, and Current Contents.

∞ The journal is printed on acid-free paper that meets the minimum requirements of ANSI Standard Z39.48-1984 (Permanence of Paper), beginning with volume 1, number 1.

© 2009 American Journal of Preventive Medicine