

THE AMERICAN JOURNAL OF TROPICAL MEDICINE AND HYGIENE

(ISSN 0002-9637)

3088 Briarcliff Road, Suite A-11 Atlanta, Georgia 30329
TEL: 1-404-636-3621 FAX: 1-404-633-5737

Editor: McWilson Warren
Managing Editor: Susan K. Johnson
Copy/Assistant Editor: Thomas J. Gryczan
Associate Editor: Ira K. Schwartz
Statistical Editor: Allen W. Hightower

Editorial Board

JOHN BARNWELL	KARL JOHNSON	FRANK SORVILLO
DONALD S. BURKE	JAY S. KEYSTONE	ANDREW SPIELMAN
WILLIAM E. COLLINS	PHYLLIS E. KOZARSKY	DIANE WALLACE TAYLOR
DANIEL H. CONNOR	STEVEN R. MESHNICK	TERRIE TAYLOR
DONALD HEYNEMAN	THOMAS B. NUTMAN	ROBERT B. TESH
JAMES M. HUGHES	KIM LEE SIM	BRYCE C. WALTON
DAVID P. JACOBUS	WILLIAM A. SODEMAN, JR.	

The American Journal of Tropical Medicine and Hygiene is a peer-reviewed journal published monthly by the American Society of Tropical Medicine and Hygiene and consists of two complete, sequentially numbered volumes each calendar year. The Instructions to Authors may be found in the front of any current issue.

Correspondence, subscriptions, and memberships should be addressed to The American Society of Tropical Medicine and Hygiene, 60 Revere Drive, Suite 500, Northbrook, Illinois 60062; TEL: 847-480-9592, FAX 847-480-9282.

Manuscripts for publication and books for review should be sent to the Editor at the above Journal office address.

The subscription price for the pair of volumes is \$300.00 per year in the USA, Canada, and Mexico and \$385.00 elsewhere. The price of single issues, when available, is \$25.00 in the USA and \$32.00 elsewhere. Periodicals postage is paid at Northbrook, IL with an additional office at Lawrence, KS.

New subscriptions and renewals are entered to begin with the January issue of the current year. Both should be secured as early in the year as possible as the publisher cannot guarantee to supply back issues.

Change of address: POSTMASTER: Send address changes to the *American Society of Tropical Medicine and Hygiene*, 60 Revere Drive, Suite 500, Northbrook, Illinois 60062. Members of the Society should notify the Northbrook office of any change in address. All other subscribers should notify the publisher 60 days in advance. Copies of the *Journal* that are undeliverable because of an incorrect address will be destroyed. Duplicates of such copies may be obtained (if available) from the publisher at the regular price of single issues.

American Society of Tropical Medicine and Hygiene

President	Councilors	Term Expires
Richard L. Guerrant	Diane McMahon-Pratt	1997
President-Elect Stephanie James	Bruce Christensen	1997
Immediate Past President Donald S. Burke	John C. Beier	1998
Scientific Program Chairman William A. Petri	Duane J. Gubler	1998
Secretary-Treasurer Peter F. Weller <i>Infectious Disease, DA-617</i> <i>Beth Israel Hospital</i> <i>330 Brookline Avenue</i> <i>Boston, MA 02215-5491</i>	Barbara L. Doughty	1999
Editor, Tropical Medicine and Hygiene News Karl A. Western	Jose M. Ribeiro	1999
	Michael Gottlieb	2000
	Barbara Herwaldt	2000

Printed by Allen Press, Inc.; 1041 New Hampshire Street; Lawrence, KS 66044

Statements and opinions expressed in publications of the American Society of Tropical Medicine and Hygiene or in presentations given during its regular meetings are those of the author(s) and do not necessarily reflect the official position of the American Society of Tropical Medicine and Hygiene, the Editors, or the organizations with which the authors are affiliated. The Editor(s), publisher, and Society disclaim any responsibility or liability for such material and do not guarantee, warrant, or endorse any product or service mentioned, nor do they guarantee any claim made by the manufacturer of such product or service. Official positions of the Society are established only by its Council.

Copyright © 1997, by The American Society of Tropical Medicine and Hygiene
Made in USA

∞ This paper meets the requirements of ANSI/NISO Z39.48-1992 (Permanence of Paper).