



CHEST

USPS 157-860

Alfred Soffer, MD, FCCP, Editor-in-Chief

*Associate Editors: David W. Cugell, MD, FCCP, Chicago
Joseph V. Messer, MD, FCCP, Chicago
John T. Sharp, MD, FCCP, Hines, Illinois*

EDITORIAL BOARD

John G. Bartlett, MD, FCCP, Baltimore
Robert L. Berger, MD, FCCP, Boston
Saroja Bharati, MD, FCCP, Chicago
Edward H. Chester, MD, FCCP, Cleveland
John J. Collins, MD, FCCP, Boston
Joel D. Cooper, MD, FCCP, Toronto
James E. Dalen, MD, FCCP, Worcester, Massachusetts
Jordan Fink, MD, Milwaukee
Jack D. Fulmer, MD, FCCP, Birmingham
Bettina C. Hilman, MD, FCCP, Shreveport
W. G. Johanson, Jr., MD, FCCP, San Antonio
Marvin M. Kirsh, MD, FCCP, Ann Arbor
Peter T. Kuo, MD, FCCP, Piscataway, N.J.
Richard A. Mintzer, MD, FCCP, Chicago
Dennis E. Niewoehner, MD, FCCP, Minneapolis
Shahbudin H. Rahimtoola, MB, FCCP, Los Angeles
Donald G. Ritter, MD, FCCP, Rochester, Minnesota
Robert Roberts, MD, FCCP, Houston
William C. Roberts, MD, FCCP, Bethesda
Robert M. Rogers, MD, FCCP, Pittsburgh
Richard O. Russell, MD, FCCP, Birmingham
William M. Thurlbeck, MD, FCCP, Vancouver
Max Harry Weil, MD, FCCP, Chicago

Corresponding Editor

Julius M. Gardin, MD, FCCP, Irvine, California

International Editors

Donato Alarcon-Segovia, MD, FCCP, Mexico
Jose Luis Barros, MD, FCCP, Spain
Gerald L. Baum, MD, FCCP, Israel
Gunnar Biorck, MD, FCCP, Sweden
Antonio Blasi, MD, FCCP, Italy
Israel Bruderman, MD, FCCP, Israel
Teresita S. De Guia, MD, FCCP, Philippines
Dirk Durrer, MD, FCCP, The Netherlands
Henry W. Herzog, MD, FCCP, Switzerland
Ruben J. Jaen, MD, FCCP, Venezuela
Paul Keszler, MD, FCCP, Hungary
Stuart C. Lennox, MD, FCCP, England
Chuzo Nagaishi, MD, FCCP, Japan
Jo Ono, MD, FCCP, Japan
George E. Poulas, MD, FCCP, Greece
W. Laurence Simpson, MD, FCCP, Australia
Jesse P. Teixeira, MD, FCCP, Brazil
Cyr Voisin, MD, FCCP, France
Juro Wada, MD, FCCP, Japan
Ann J. Woolcock, MD, FCCP, Australia
E. J. Zerbini, MD, FCCP, Brazil

Executive Office

911 Busse Highway, Park Ridge, Illinois 60068, U.S.A.
Telephone 312-696-2200

Copyright 1983, by the American College of Chest Physicians.
Published monthly.

Second Class Postage Paid at Park Ridge, Illinois
and at additional mailing offices. Return and forwarding
postage guaranteed.

Annual Subscriptions: Personal—U.S. and Puerto Rico,
\$45.00. Canada, Mexico and Other Countries \$57.00.
Institutional—U.S. and Puerto Rico, \$60.00. Canada,
Mexico and Other Countries, \$78.00. Rates effective
January 1, 1982.

Special rates for residents, interns, medical students,
physicians in training: U.S. and Puerto Rico, \$30.00;
Canada, Mexico and Other Countries, \$57.00.

Single copies U.S. and Puerto Rico—\$7.00. Canada,
Mexico and Other Countries \$8.00.

Supplements U.S. and Puerto Rico—\$5.00. Canada,
Mexico and Other Countries \$6.00.

National Advertising Representative

HOWARD L. HAGEMANN
Hagemann Associates
911 Busse Highway
Park Ridge, Illinois 60068
312/696-2200

SYLVIA J. PETERSON
Executive Editor
MARGARET MARTINECZ
Circulation Manager
MARY ELLEN PICTOR
Advertising Production Manager

POSTMASTER: Send address
changes to CHEST, 911 Busse Highway,
Park Ridge, IL 60068