

Editor in Chief Arthur I. Holleb, M.D.
Executive Medical Editor Diane J. Fink, M.D.
Executive Editor Michael Randers-Pehrson
Senior Associate Editor Serena Stockwell
Associate Editor Maureen Stoddard
Publications Assistant Sara Elman
Director, Medical Library Sourya Henderson, Ph.D.
Director of Production Gerald D. Newberg
Associate Production Director Alfred P. Howell
Production Manager Lawrence Silverman
Circulation Designer Henry Roth

Professional Education Committee and Editorial Advisory Board Warren H. Knauer, M.D.,
 Chairman
 Raymond L. Weisberg, M.D.,
 Vice Chairman
 Ben M. Birkhead, M.D.
 Richard A. Bohannon, M.D.
 Donn J. Brascho, M.D.
 Grace Christ, C.S.W.
 M. Robert Cooper, M.D.
 Jerome J. DeCosse, M.D.
 Philip J. DiSaia, M.D.
 Gerald D. Dodd, M.D.
 Cleo J.L. Froix, M.D.
 Jimmie A. Gleason, M.D.
 G. Denman Hammond, M.D.
 William H. Hartmann, M.D.
 Laura Hilderly, R.N.
 Renida Hilkemeyer, R.N., B.S.
 James N. Hueser, M.D.
 Robert H. Janes, Jr., M.D.
 Walter Lawrence, Jr., M.D.
 Willis P. Maier, M.D.
 Carl M. Mansfield, M.D.
 Victor A. Marcial, M.D.
 Harold W. Mayberger, M.D.
 Curtis J. Mettlin, Ph.D.
 Eleanor D. Montague, M.D.
 Colin A. Poulter, M.D.
 Edward W. Reed, M.D.
 David Rosenthal, M.D.
 Robert J. Schweitzer, M.D.
 Robert C. Seelman, M.D.
 Murray Stein, D.D.S.
 John Wallace Thomson, M.D.
 Alvin L. Watne, M.D.
 Paul A. Williams, M.D.
 David P. Winchester, M.D.

Staff Morton Bard, Ph.D.
Advisory Committee Dennis A. Bertram, M.D., M.P.H., Sc.D.
 Dominic Do-Van-Quy, Ph.D.
 Lawrence Garfinkel, M.A.
 Patricia E. Greene, R.N., M.S.N.
 Joseph P. Lowenthal, D.Sc.
 Jack W. Milder, M.D.
 Louis H. Muschel, Ph.D.
 Frank J. Rauscher, Jr., Ph.D.
 Herbert Seidman, M.B.A.
 Margaret M. Sharkey, Ph.D.
 Steven D. Stellman, Ph.D.
 John J. Stevens, M.D.
 Philip Terman, D.D.S.
 Allen Vegotsky, Ph.D.
 Stefano Vivona, M.D., M.P.H.

National Officers Don Elliot Heald,
 Chairman of the Board
 Charles A. LeMaistre, M.D.,
 President
 G. Robert Gadberry,
 Executive Vice President

Articles in Ca are indexed in Index Medicus and Current Contents/Clinical Practice. Some are abstracted in Chemical Abstracts, Biological Abstracts, Excerpta Medica, Abstracts of World Medicine, and Medical Socioeconomic Research Sources. Ca is also included in the PREV Database. All articles published, including editorials and letters, represent the opinions of the authors and do not reflect the official policy of the American Cancer Society or the institution with which the author is affiliated, unless there is a clear indication to the contrary.

Circulation: over 470,000
 Address manuscripts to
 Arthur I. Holleb, M.D.
 Editor in Chief
 Ca—A Cancer Journal
 for Clinicians
 90 Park Avenue
 New York, N.Y. 10016

ISSN 0007-9235