

THE AMERICAN JOURNAL OF **Clinical Nutrition**

OFFICIAL PUBLICATION OF THE AMERICAN SOCIETY FOR CLINICAL NUTRITION, INC.

A DIVISION OF THE AMERICAN INSTITUTE OF NUTRITION

Editor-in-chief: MILTON E. RUBINI, M.D., *Los Angeles, California*

Associate Editors: MARIAN E. SWENDSEID, PH.D., *Los Angeles, California*
ROBERT B. BRADFIELD, PH.D., *Berkeley, California*

Assistant Editors: ROBERT H. HERMAN, M.D., *Denver, Colorado*
HOWERDE E. SAUBERLICH, PH.D., *Denver, Colorado*
MARTIN H. FLOCH, M.D., *New Haven, Connecticut*

Executive Editor: KARL F. HEUMANN, PH.D., *Bethesda, Maryland*

Editorial Board

FELIX BRONNER, PH.D., *Storrs, Conn.*

HELEN E. CLARK, PH.D., *Lafayette, Ind.*

WILLIAM E. CONNOR, M.D., *Iowa City, Iowa*

WILLIAM W. FALOOD, M.D., *Rochester, N. Y.*

GEORGE G. GRAHAM, M.D., *Baltimore, Md.*

VICTOR D. HERBERT, M.D., *New York, N.Y.*

MALCOLM A. HOLLIDAY, M.D., *San Francisco, Calif.*

LEO LUTWAK, PH.D., M.D., *Ithaca, N. Y.*

O. NEAL MILLER, PH.D., *Nutley, N. J.*

GEORGE M. OWEN, M.D., *Columbus, Ohio*

JOSEPH J. VITALE, SC.D., *Boston, Mass.*

Corresponding Editors

MARCEL AUTRET, D.PHARM., *FAO-Rome, Italy*

GEORGE BEATON, D.SCH., *Canada*

JOSE BENGOA, M.D., *WHO*

WILLIAM T. C. BERRY, M.D., *Great Britain*

HANS D. CREMER, M.D., *Germany*

P. FABRY, M.D., *Czechoslovakia*

KARL GUGGENHEIM, M.D., *Israel*

C. DEN HARTOG, PH.D., *The Low Countries*

BJORN ISAKSSON, M.D., *Sweden*

DERRICK B. JELLIFFE, M.D., *Caribbean*

TOSHIO OISO, M.D., *Japan*

CONRAD R. PASCUAL, M.D., *The Philippines*

L. J. TEPLEY, PH.D., *UNICEF*



THE AMERICAN JOURNAL OF CLINICAL NUTRITION, Official Journal of The American Society for Clinical Nutrition, Inc.

Published monthly, one volume per year, by The American Society for Clinical Nutrition, Inc. EDITORIAL OFFICE: Veterans Administration Center, Wilshire and Sawtelle Blvds., Los Angeles, California 90073. REDACTORIAL AND BUSINESS OFFICES: Federation of American Societies for Experimental Biology, 9650 Rockville Pike, Bethesda, Maryland 20014. ADVERTISING REPRESENTATIVE: Steven K. Herlitz, Inc., 850 Third Ave., New York, New York 10022. Printed in Baltimore, Maryland, at the Waverly Press, Inc.

SUBSCRIPTIONS: Address correspondence regarding *subscriptions and changes of address to:* THE AMERICAN JOURNAL OF CLINICAL NUTRITION, 9650 Rockville Pike, Bethesda, Maryland 20014. Please include your zip code and, for change of address, a copy of old address label. SUBSCRIPTION RATES: Members of The American Institute of Nutrition and The American Society for Clinical Nutrition, Inc. \$15.00 per year; Nonmembers \$20.00 per year (Canada and Mexico \$21.00; Foreign \$23.00) payable in advance. Single copy prices: regular issues \$2.50; special issues \$4.00.

Second class postage paid at Washington, D.C. and at additional mailing offices. Printed in U.S.A. © Copyright 1970 by The American Society for Clinical Nutrition, Inc., 9650 Rockville Pike, Bethesda, Maryland 20014. All rights reserved. The contents of this publication may not be reproduced in whole or in part without consent of copyright owner.