

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: SEYMOUR DAYTON, M.D., *Los Angeles, California*

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 SAUBERLICH, PH.D., *Denver, Colorado*

MARTIN H. FLOCH, M.D., *New Haven, Connecticut*

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

Editorial Board

ERNEST BEUTLER, M.D., *Duarte, Calif.*

FELIX BRONNER, PH.D., *Louisville, Ky.*

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

FRANCISCO GRANDE, M.D., *Minneapolis, Minn.*

SAMI A. HASHIM, M.D., *New York, N.Y.*

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

CARROLL M. LEEVY, M.D., *Jersey City, N.J.*

LEO LUTWAK, PH.D., M.D., *Ithaca, New York*

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

WALTER G. UNGLAUB, M.D., *New Orleans, La.*

Corresponding Editors

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

H. GOUNELLE, M.D., *Paris, France*

J. GROEN, M.D., *Jerusalem, Israel*

MUNI KEOPLUNG, M.D., *Chiengmai, Thailand*

R. A. McCANCE, M.D., *Cambridge, England*

H. M. SINCLAIR, M.D., *Oxford, England*

M. M. SUZMAN, M.D., *Johannesburg, So. Africa*

SALVADOR ZUBIRAN, M.D., *Mexico City, Mexico*



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 \$11.50 a year; non-members United States \$15.00 a year; Canada \$16.00; Foreign \$18.00. Single copy price: regular issues \$2.00; special issues \$4.00.

Second class postage paid at Washington, D.C. and at additional mailing offices. Printed in U.S.A. © Copyright 1969 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.