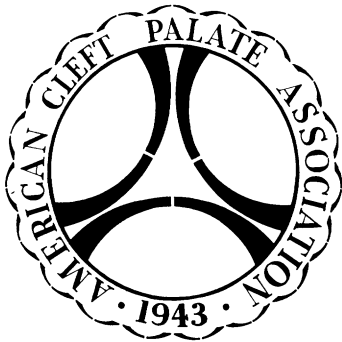




CPJ

OCTOBER 1970 VOLUME 7

TABLE OF CONTENTS

VIDEOFLUOROSCOPIC EXAMINATION OF THE VELOPHARYNGEAL PORTAL DURING PHONATION IN LATERAL AND BASE PROJECTIONS—A NEW TECHNIQUE FOR STUDYING THE MECHANICS OF CLOSURE <i>M. Leon Skolnick, M.D.</i>	803
MAXILLARY GROWTH INHIBITION BY MUCOPERIOSTEAL DENUDATION OF PALATAL SHELF BONE IN NON-CLEFT BEAGLES <i>Charles R. Kremenak, Jr., D.D.S., M.S., William C. Huffman, M.D., and William H. Odin, D.D.S., M.S.</i>	817
TEMPORAL-SPATIAL CLUSTERING OF ORAL-CLEFT BIRTHS IN MICHIGAN AND MONTANA <i>C. R. Stark, M.D., Dr. P.H., J. D. Niswander, D.D.S., M.S., V. T. Bardanowe, M.A., and B. Iba, R.N., B.S.N.</i>	826
VOCAL PITCH—INTENSITY RELATIONSHIPS IN CLEFT PALATE SPEAKERS <i>Donald L. Rampp, Ph.D. and Donald T. Counihan, Ph.D.</i>	846
STRESS VELOPHARYNGEAL INCOMPETENCE IN AN OBOE PLAYER <i>Jaroy Weber, Jr., M.D. and Robert A. Chase, M.D.</i>	858
THE USE OF A MICRONIZED BARIUM IN AN OBTURATOR CONSTRUCTION <i>Richard J. Mathewson, D.D.S., M.S.</i>	862
BOOK REVIEWS.....	867
ABSTRACTS.....	870
ANNOUNCEMENTS.....	882



AMERICAN CLEFT PALATE ASSOCIATION

OFFICERS—1970-71

President Elise Hahn, Ph.D., Los Angeles, California
President-Elect John W. Curtin, M.D., Chicago, Illinois
Past-President William H. Olin, D.D.S., M.S. Iowa City
Vice-President William R. Laney, D.M.D., M.S. Rochester, Minnesota
Vice-President-Elect Gene R. Powers, Ph.D., Storrs, Connecticut
Secretary Kenneth R. Bzoch, Ph.D. (1971), Gainesville, Florida
Treasurer Morton S. Rosen, D.D.S. (1972), Chicago, Illinois
Editor . . Robert L. Harding, M.D., D.D.S., (1973), Harrisburg, Pennsylvania

COUNCIL MEMBERS—1970-71

The above officers and

Nicholas G. Georgiade, D.D.S., M.D. (1971), Durham, North Carolina
Donald W. Warren, D.D.S., Ph.D. (1971), Chapel Hill, North Carolina
Howard Aduss, D.D.S. (1972), Chicago, Illinois
Ralph L. Shelton, Jr., Ph.D. (1972), Kansas City, Kansas
David B. Coursin, M.D., (1973), Lancaster, Pennsylvania
Verner V. Lindgren, M.D. (1973), Portland, Oregon

HISTORIAN FOR THE ASSOCIATION

Asa J. Berlin, Ph.D. (1967-1972) State College, Pennsylvania

Correspondence pertaining to the Association should be addressed to the Secretary: Dr. Kenneth R. Bzoch, Department of Communicative Disorders, College of Health Related Professions, University of Florida, Gainesville, Florida 32601.

Changes of address and subscriptions to the Cleft Palate Journal should be addressed to the Treasurer: Dr. Morton S. Rosen, 311 East Chicago Avenue, Chicago, Illinois 60611.

Manuscripts and related correspondence should be addressed to the Editor: Robert L. Harding, M.D., D.D.S., 2201 North Second Street, Harrisburg, Pennsylvania 17110.



The
**CLEFT
PALATE**
Journal

Journal of the American Cleft Palate Association

EDITOR

ROBERT L. HARDING, M.D., D.D.S.

2201 North Second Street

Harrisburg, Pennsylvania 17110, U.S.A.

ASSISTANTS TO THE EDITOR

PRESTON A. WILSON

EVELYN L. LEO

SECTION EDITORS

Plastic Surgery

WILLIAM C. GRABB, M.D.,

Ann Arbor, Michigan

Dentistry

DONALD W. WARREN, D.D.S., Ph.D.,

Chapel Hill, North Carolina

Speech Pathology

BETTY JANE MCWILLIAMS, Ph.D.,

Pittsburgh, Pennsylvania

Basic Science

DAVID COURSIN, M.D.,

Lancaster, Pennsylvania

American Abstracts

J. DOUGLAS NOLL, Ph.D.,

Lafayette, Indiana

International Abstracts

NICHOLAS G. GEORGIADIS, M.D., D.D.S.,

Durham, North Carolina

Book Review

MAXINE SCHURTER, M.D.,

Washington, D.C.

The Cleft Palate Journal is designed to reflect, on an international basis, clinical and research activities in the fields of plastic surgery, dentistry, speech pathology, and other specialties concerned with cleft lip and cleft palate, and related problems.

Changes of address and subscription orders may be placed with the American Cleft Palate Association Treasurer:

Morton S. Rosen, D.D.S.

Northwestern University Dental School

311 East Chicago Avenue

Chicago, Illinois 60611

Manuscripts and correspondence should be submitted to the editor.

Copyright © 1970, The American Cleft Palate Association

Published quarterly by the American Cleft Palate Association

Printed by Waverly Press, Inc., Mt. Royal & Guilford Avenues, Baltimore, Maryland 21202

Subscription rate: \$15.00 per volume, \$4.00 per issue

Second class postage paid at Baltimore, Maryland.

EDITORIAL CONSULTANTS

. . . for this issue of the
CLEFT PALATE JOURNAL

Patrick J. Carney, Ph.D.
Edward Clifford, Ph.D.
Richard M. Cole, Ph.D.
Robert J. Gorlin, D.D.S., M.S.
Sylvia Hay, B.A.
Herold Lillywhite, Ph.D.
Dorothy McKerns, Ph.D.
Betty Jane McWilliams, Ph.D.
William C. Owsley, Jr., M.D.
Betty Jane W. Philips, D.Ed.
Peter Randall, M.D.
Duane R. Van Demark, Ph.D.
Donald W. Warren, D.D.S.