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From the Department of Periodontics, Dental Faculty,
University of Oslo, Norway

THE EFFECT OF CHLORHEXIDINE MOUTH WASHES

A 4 months study on 50 soldiers

by

LEIV FLÖTRA

Research Associate
Department of Periodontics, Dental Faculty,
University of Oslo, Norway

Universitetsforlagets trykningssentral
Oslo 1970

From the Department of Oral Biology, School of Dentistry,
State University of New York at Buffalo, U.S.A.,

the Department of General Dentistry, School of
Dental Medicine, University of Connecticut, U.S.A.,

and the Dental Institute of Experimental Research,
Dental Faculty, University of Oslo, Norway.

STUDIES ON TISSUE CHANGES IN TEETH WITH DENTINE
EXPOSED BY ATTRITION

by

Leif Tronstad
Cand.odont.

A THESIS

Submitted in partial fulfillment of the requirements for
the degree of Licentiatus Odontologiae at the Dental Faculty,
University of Oslo.

1970

Fra Anatomisk institutt, Medisinsk fakultet,
Universitetet i Oslo.

VARIASJONER I KRANIETS BREDDEDIMENSJONER.

En morfologisk undersøkelse på et norsk
skallemateriale fra middelalderen.

Av

Olav Slagsvold
Cand.odont.

1970

From the Department of Periodontics, Dental Faculty,
University of Oslo, Norway

THE EFFECT OF CHLORHEXIDINE MOUTH WASHES

A 4 months study on 50 soldiers

by

LEIV FLÖTRA

Research Associate
Department of Periodontics, Dental Faculty,
University of Oslo, Norway

Universitetsforlagets trykningsentral
Oslo 1970

THE MEDICAL LIBRARY CENTER OF NEW YORK
17 East 102 Street
New York, N. Y. 10029

From Dental Institute of Experimental Research,
Dental Faculty, University of Oslo,
and Norsk Hydro's Institute for Cancer Research, Oslo.

TISSUE CHANGES INCIDENT TO MOVEMENT OF RAT MOLARS

by

EINAR KVAM

MAR 10 1970

From the Laboratory of Electron Microscopy, Department
of Anatomy, Dental Faculty, University of Oslo, Norway.

ULTRASTRUCTURE
OF OVARIAN INTERSTITIAL TISSUE
IN THE
DOMESTIC FOWL

PART I
Fixation and normal fine structure

PART II
Effects of inhibition and stimulation

by

ERIK DAHL

A THESIS

Submitted in partial fulfillment of the requirements
for the degree of Doctor Medicinae at the
Medical Faculty, University of Oslo.

1970

THE MEDICAL LIBRARY CENTER OF NEW YORK
17 East 102 Street
New York, N. Y. 10029
From the Anatomical Institute
Anthropological Department, University of Oslo, Norway

OSLO

1970

A CONTRIBUTION TO THE MORPHOLOGY
OF THE TYMPANIC PLATE
AND NEIGHBOURING STRUCTURES

ANATOMICAL TRAITS

by

BJØRN ODVAR KJØRAAS

cand. odont.

Orthodontic Department, Odontological Institute,

University of Oslo

THE DEPARTMENT OF PERIODONTOLOGY, DENTAL FACULTY
UNIVERSITY OF OSLO

The Effect of Preventive Measures
upon Oral Hygiene and
Periodontal Health

By
ÅGE ÅNERUD

UNIVERSITETSFORLAGET

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UNIVERSITETSFORLAGETS TRYKNINGSSENTRAL
OSLO

OSLO

1970

CEMENT ECZEMA
and
CHROMIUM ALLERGY

An Epidemiological Investigation

by GUNNAR HØVDING

THE UNIVERSITY OF BERGEN
SCHOOL OF MEDICINE
DEPARTMENT OF DERMATOLOGY

ACKNOWLEDGEMENTS

I am greatly indebted to professor Ingvald Rokstad, M. D., Head of Department of Dermatology, University of Bergen, for stimulating interest in this work.

I offer my heartiest thanks to my friend Niels Hjorth, M. D., the Dermatological Department of the Finsen Institute, for friendly advice, stimulating discussions, and encouragement.

To secretary Hjalmar Pedersen, Murarbeidernes Forening, Bergen, and secretary Anker Andreassen, Murovendenes Fagforening, Bergen, go my grateful acknowledgement for generous cooperation.

I am also greatly indebted to Leo Giezendanner for statistical work and to Mrs. Karin Flekstad for secretarial work.

My special thanks are due to professor Karl Closs, M. D. and Leif Utne, M. D., for reading the manuscript and their friendly encouragement.

To Aktieselskapet Borregaards Forskningsfond goes my grateful appreciation for financial aid.

Oslo, February 1970.

1970

From the Department of Periodontology, Dental Faculty, University of Oslo and the Department
of Periodontology, School of Dentistry, University of Alabama in Birmingham

A SURVEY IN NORWAY FOR CAUSES
OF LOSS OF PERMANENT TEETH AND THE NUMBER
OF TEETH REMAINING AFTER EXTRACTION

by

Jan R. Johansen

Acknowledgements

The material for this study was made available by the cooperation of the Norwegian Dental Association and its members. I want to express my gratitude to all dentists participating in the survey for taking the burden of filling out the questionnaires during busy working hours. To Dr. Eivind Karlsen, Secretary of the Norwegian Dental Association and his staff, I am obliged for their help in distributing and collecting the forms.

My sincere thanks are due to Dr. J.F. Volker, President of the University of Alabama in Birmingham and to Dr. Charles A. McCallum, jr., Dean of the School of Dentistry, University of Alabama in Birmingham for excellent working facilities during the preparation of this paper. I have been privileged to receive both their interest and financial support. Dr. David Hurst, Chairman, Department of Biostatistics, University of Alabama and his staff have performed the detailed statistical analyses. I am specially indebted to him for our inspiring discussions about the lay-out of the statistical design and the interpretation of the results.

During my stay at the University of Alabama I had the pleasure to be attached to the Department of Periodontology. I want to express my deep gratitude to Dr. Wallace V. Mann, Chairman of the department, for his continued interest in this paper and for our rewarding discussions of problems of mutual interest.

Mrs. Catherine West has performed the secretarial work. It is a pleasure to express my heartfelt gratitude to her for her painstaking efforts in the preparation of several manuscripts and for her understanding attitude.

Oslo, in June 1970

Jan R. Johansen

Immunohistochemical Laboratory,
Oslo University Institute of Pathological Anatomy

HUMAN IMMUNOGLOBULIN A

Purification and aspects of physical characterization

By
Ivar Fjellanger

ACKNOWLEDGEMENTS

This study was carried out at the Oslo University Institute of Pathological Anatomy, Immunohistochemical Laboratory. I am greatly indebted to the Head of the Institute, Professor O. Torgersen, dr. med., for placing laboratory facilities at my disposal. I also wish to express my gratitude to S.D. Schultz-Haudt, dr. odont., Ph.D., who introduced me to biochemical research.

I am most obliged to the Head of the Laboratory, P. Brandtzaeg, cand. odont., M.S., for his interest and valuable suggestions through all phases of this work. Helpful advice from S.T. Gjeruldsen, cand. med., is also acknowledged.

I want to thank M. Harboe, dr. med., and Mrs. J. Deverill, Oslo University Institute for Experimental Medical Research, for kind assistance with preparative electrophoresis.

The author has during the investigation been a Research Fellow of the Norwegian Cancer Society (Landsforeningen mot Kreft). The study has been supported by grants from Sev. Bahl's Fond, the Norwegian Research Council for Science and the Humanities, and Tandlægeundervisningens Fond.

Oslo, November 1970

Ivar Fjellanger

OSLO

1970

On the cerebellum and its subdivision, as revealed by
studies of morphology and ontogenetic development in
Cetacea and rat.

By

Helge Kåre Korneliussen

(Anatomical Institute, University of Oslo, Oslo, Norway)

These are 2 reprints,
can be discarded, we own
the bound volumes.

8/30/70

Ro

Preface

In the present compilation of publications it is intended to unite the original three papers by means of an introduction and general summary, published as a review article, thus presenting the aim of the investigations as well as the relations between their achievements on the cerebellum and its subdivision. The original publications were planned and carried out as independent investigations, but their common bearing on the same problems is supposed to render them parts of an entity.


The investigations have been carried out at the Anatomical Institute, University of Oslo, mostly under a special research education grant from the Norwegian Research Council for Science and the Humanities. This, as well as additional financial support from the University of Oslo, is gratefully acknowledged.

Throughout these investigations the inspiring guidance of Professor Jan Jansen, M. D., his interest, encouragement, valuable criticism, and aid, have been of great value to me. Thanks are also due to the other members of the staff at the Anatomical Institute, including those of the technical staff that have assisted with the histological sections, drawings, photographs, and typewriting. Especially, the assistance of Mrs. Inger Grøholt, Mrs. Agnes Holter, Mrs. Kari Urbye, and Mr. Einar Risnes is acknowledged.

Oslo, January 1970

**STUDIES OF CHOLINE ACETYLTRANSFERASE
WITH PARTICULAR REFERENCE TO ITS
SUBCELLULAR LOCALIZATION**

BY
FRODE FONNUM



NDRE REPORT No 58

FORSVARETS FORSKNING SINSTITUTT
NORWEGIAN DEFENCE RESEARCH ESTABLISHMENT
P O Box 25 - N-2007 Kjeller - Norway

PREFACE

The present investigation was carried out at the Division for Toxicology of the Norwegian Defence Research Establishment in the period 1965 - 1969 as part of a research programme on chemical transmission in the central nervous system. The chemical transmitters at the synapse are highly vulnerable to the action of drugs, including chemical warfare agents, and studies of the biochemical processes involved in transmission will therefore lead to a better understanding of drug action and, in the case of warfare agents, help to provide a better therapy.

The study was initiated during my visit at the Institute of Animal Physiology, ARC, Babraham, Cambridge, where I had the opportunity to work with Dr V P Whittaker from 1 January 1965 to 1 April 1966 as a research fellow from the Norwegian Council for Scientific and Industrial Research. I wish to express my gratitude to Dr V P Whittaker for his continual interest and encouragement, not only during my stay, but throughout the course of this work.

I also wish to express my thanks to the Director of the NDRE, Mr Finn Lied, for providing adequate facilities and to the Head of the Division for Toxicology, Dr J A B Barstad, for his interest and support during this investigation. I am indebted to Dr J W Boyd, M Israël and J Storm-Mathisen for discussions, and to Mr G H C Dowe, J E Frogner, H A T Saxholm and D Malthe-Sørensen and Mrs K Holte, R Sigveland and L Swales for their excellent technical assistance during this investigation. I am grateful to my colleagues at Babraham and Kjeller for the stimulating milieu they provided.

I thank my wife for her patience and understanding throughout the period of this work.

Kjeller, May 1970

Frode Fonnum

Immunohistochemical Laboratory,
Oslo University Institute of Pathological Anatomy

HUMAN IMMUNOGLOBULIN A

Purification and aspects of physical characterization

By
Ivar Fjellanger

ACKNOWLEDGEMENTS

This study was carried out at the Oslo University Institute of Pathological Anatomy, Immunohistochemical Laboratory. I am greatly indebted to the Head of the Institute, Professor O. Torgersen, dr. med., for placing laboratory facilities at my disposal. I also wish to express my gratitude to S.D. Schultz-Haudt, dr. odont., Ph.D., who introduced me to biochemical research.

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Oslo, November 1970

Ivar Fjellanger

OSLO

Esther D. R. Pruett, B. A., M. A.

FAT AND CARBOHYDRATE
METABOLISM IN EXERCISE
AND RECOVERY, AND ITS
DEPENDENCE UPON WORK
LOAD SEVERITY

Institute of Work Physiology
Oslo, Norway
1971

Studies on the Complex of Messenger-RNA and Protein in Mammalian Cells

*A comparative study between the complex
of complementary RNA and protein in the cell nucleus
and the ribonucleoprotein containing rapidly
labelled RNA in polyribosomes*

By
SJUR OLSNES

UNIVERSITETSFORLAGET

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OSLO

supported by The Norwegian Cancer Society

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INSTITUTE OF PHARMACOLOGY,
UNIVERSITY OF OSLO

Effects of Chlorpromazine and
Related Compounds in the
Isolated Rat Heart

By
ASBJØRN LANGSLET

UNIVERSITETSFORLAGET

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INSTITUTE FOR SURGICAL RESEARCH
RIKSHOSPITALET, OSLO

Cardiac Transplantation

An Experimental Study in Dogs

By
BJARNE K. H. SEMB

UNIVERSITETSFORLAGET

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DEPARTMENTS OF DERMATOLOGY,
ULLEVÅL HOSPITAL AND RIKSHOSPITALET,
UNIVERSITY OF OSLO, OSLO, NORWAY

Plethysmographic recordings of skin pulses

*With special reference to psoriasis, venous leg ulcers
and the vasoconstriction of corticosteroids*

By
PER THUNE

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Aspects of Pepsin Secretion in Man

*With Special Reference to the
Effect of Pure Natural Secretin on the
Gastric Secretion of Pepsin*

By
ARNOLD BERSTAD

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FROM THE INSTITUTE FOR THROMBOSIS RESEARCH
UNIVERSITY HOSPITAL, RIKSHOSPITALET, OSLO, NORWAY
HEAD: PROFESSOR DR. MED. HELGE STORMORKEN

Studies on
Adhesiveness and
Phagocytosis by Human
Leucocytes

By
BERNT KVARSTEIN

UNIVERSITETSFORLAGET

UNIVERSITETSFORLAGETS TRYKKNINGSSENTRAL
OSLO

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TRENINGSTERAPI VED KORONARE HJERTESYKDOMMER

*Med spesiell referanse til virkningen av
fysisk trening på maksimalt oksygenopptak og andre
arbeidsfysiologiske parametre hos pasienter
etter overlevet hjerteinfarkt*

ARNE M. BENESTAD

UNIVERSITETSFORLAGET 1971
Oslo - Bergen - Tromsø

Jens Hugo Trumpy

Transneuronal Degeneration in the Pontine Nuclei of the Cat

Part I. Neuronal Changes in Animals of Varying Ages

With 13 Figures

Part II. The Glial Proliferation

With 8 Figures



Springer-Verlag Berlin Heidelberg New York 1971

Calcium and Magnesium Ions and Maintenance of Capillary Permeability Characteristics

*A study carried out in an isolated
perfused lung preparation*

By
GUNNAR NICOLAYSEN

UNIVERSITETSFORLAGET

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FROM THE INSTITUTE OF CLINICAL BIOCHEMISTRY
RIKSHOSPITALET OSLO, NORWAY

Activation of Fatty Acids in Rat Tissues

*The intracellular
localization of the fatty
acid activating enzymes*

By
MAGNE AAS

UNIVERSITETSFORLAGET

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THE DEPARTMENT OF PHYSIOLOGY, THE VETERINARY COLLEGE OF NORWAY
THE DEPARTMENT OF OBSTETRICS AND GYNAECOLOGY
AND THE HORMONE- AND ISOTOPE LABORATORY, AKER HOSPITAL, OSLO

Studies on
Plasma Progesterone in
Women and Sheep during
Pregnancy

By
PETTER FYLLING

UNIVERSITETSFORLAGET

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FROM OSLO UNIVERSITY EYE DEPARTMENT
RIKSHOSPITALET, OSLO, NORWAY
HEAD: PROFESSOR DR. MED. THORE LIE THOMASSEN

Aspects of Retinal Detachment

By
PER SYRDALEN

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FROM THE INSTITUTE OF NEUROPHYSIOLOGY, UNIVERSITY OF OSLO
AND THE DEPARTMENT OF NEUROLOGY, ULLEVÅL HOSPITAL, OSLO, NORWAY

The Role of the
Fusimotor System in
Spasticity and
Parkinsonian Rigidity

By
PER DIETRICHSON

UNIVERSITETSFORLAGET

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FROM THE ROENTGEN DEPARTMENT (DIRECTOR: PROFESSOR J. FRIMANN-DAHL)
ULLEVÅL HOSPITAL, OSLO, NORWAY

ANGIOGRAPHY IN ACUTE MECHANICAL
OBSTRUCTION OF THE SMALL INTESTINE

by

TRYGVE AAKHUS

UNIVERSITETSFORLAGET

Oslo - Bergen - Tromsø

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FROM DEPARTMENT OF PATHOLOGY
DENTAL FACULTY,
UNIVERSITY OF OSLO, NORWAY.

**EFFECT OF CYCLOPHOSPHAMIDE
ON WOUND HEALING**

MORPHOLOGIC AND AUTORADIOGRAPHIC INVESTIGATIONS

BY

HENRIK WIE

OSLO 1971

FROM DEPARTMENT OF PATHOLOGY
DENTAL FACULTY,
UNIVERSITY OF OSLO, NORWAY.

**EFFECT OF CYCLOPHOSPHAMIDE
ON WOUND HEALING**

MORPHOLOGIC AND AUTORADIOGRAPHIC INVESTIGATIONS

BY

HENRIK  WIE

OSLO 1971