Papers Dedicated to Egil Amundsen on the Occasion of his 60th Birthday, March 18, 1984


Contents, Vol. 16(Suppl. 2), 1984

The present publication in honour of Prof. Egil Amundsen on the occasion of his 60th birthday, March 18, 1984, has been made possible by financial support from:

A/S Apothekernes Laboratorium for Specialpræparater
Bayer AG
Bergen Bank AS
Dyno Industrier AS
Glaxo
Kabi AB
Nyco
F. Hoffmann-La Roche & Co. AG
Rhône-Poulenc
Smith Kline & French
Upjohn

S. Karger ■ Medical and Scientific Publishers ■ Basel · München ■ Paris ■ London ■ New York · Tokyo · Sydney

Drug Dosage
The authors and the publisher have exerted every effort to ensure that drug selection and dosage set forth in this text are in accord with current recommendations and practice at the time of publication. However, in view of ongoing research, changes in government regulations, and the constant flow of information relating to drug therapy and drug reactions, the reader is urged to check the package insert for each drug for any change in indications and dosage and for added warnings and precautions. This is particularly important when the recommended agent is a new and/or infrequently employed drug.

All rights reserved.

No part of this publication may be translated into other languages, reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying, recording, microcopying, or by any information storage and retrieval system, without permission in writing from the publisher or, in the case of photocopying, direct payment of a specified fee to the Copyright Clearance Center (see ‘Information for Readers and Subscribers’).

Copyright 1984 by
S. Karger AG, P.O. Box, CH-4009 Basel (Switzerland) Printed in Switzerland by Thür AG Offsetdruck, Pratteln ISBN 3-8055-3889-8

Contents
Introduction

To Egil Amundsen

Aasen, A.O.; Bergan, A.; Guldvog, I. .......................................................... 1

Prof. Egil Amundsen – 60 Years

Flammark, A. ........................................................................................................ 3

Vagus- and Post-Acetylcholine-Induced Changes in Ventricular Electrophysiology of the Dog Heart with and without ß-Blockade

Amlie, J.P.; Refsum, H. .................................................................................. 5

The Strain on Sutured Achilles Tendons in Walking Cast. An EMG Analysis

Benum, P.; Berg, V.; Fretheim, O.J. ................................................................. 14

How Seals Avoid Myocardial Infarction when They Should Have Got It

Blix, A.S.; Eisner, R.; Kjekshuis, J.K. ............................................................... 22

Torsional Properties of Rat Femora

Ekeland, A.; Engesæter, L.B.; Langeland, N. .................................................. 28

Management of Retained Biliary Calculi via a Postoperative T-Tube Tract

Enge, I.; Laerum, F. ......................................................................................... 34

Stability of Femoral Neck Osteotomies Fixed by von Bahr Screws or by Compression Hip Screw

Engesæter, L.B.; Asserson, O.; Molster, A.; Gjerdet, N.R.; Langeland, N. ................. 37

Peripheral Metabolism of Parathyroid Hormone in Patients with Primary Hyperparathyroidism as Judged by Immunological and Biological Studies

Gautvik, K.M.; Gordeladze, J.O.; Moxheim, E.; Gautvik, V.T. ......................... 41

Opposite Effects of H2-Receptors on Parietal Cells and Chief Cells. Gastric Acid and Pepsin Secretion Stimulated by Histamine and Food Combined in Dogs: The Role of Vagal Innervation

Guldvog, I.; Berstad, A. .................................................................................... 55

Possible Biological Mechanisms That Make Low Density Lipoproteins a Risk Factor in Atherogenesis

Henriksen, T. .................................................................................................. 62

Contents

IV

A Possible Role of Intestinal Mucin in the Pathophysiology of Intestinal Strangulation Obstruction. Consequences of Tracing a Clinical Observation

Midtvedt, T. ...................................................................................................... 68

Intraoperative Gas Cisternography and Gas Dissection in the Operative Treatment of Pituitary Tumors. A Methodological Description

Nesbakken, R.; Reinlie, S.; Eldevik, O.P. ........................................................... 73

Hydrophilic Monodisperse Particles as Solid-Phase Material in Immunoassays: Comparison of Shell-and-Core Particles with Compact Particles


Current Approaches to Research on Prostatic Function and Pathology

Purvis, K.; Rui, H.; Attramadal, A.; Tveter, K.J. ................................................. 88

Metallothionein – A Unique Protein with Multiple Detoxifying Properties?

Rugstad, H.E. ................................................................................................ 102

Pathogenetic Aspects of Respiratory Distress Syndrome in Adults and Newborns. Experimental and Clinical Data

Saugstad, O.D. ............................................................................................... 113

A Modified Nonpulsatile Flow System for the in vitro Study of Cardiac Valve Prostheses

Semb, B.K.H. ................................................................................................ 120
<table>
<thead>
<tr>
<th>Title</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>In vitro Hydrodynamic Performance of Various Cardiac Prosthetic Valves Tested in a Modified Nonpulsatile Flow System</td>
<td>125</td>
</tr>
<tr>
<td>Effect of CO₂ on Peripheral Flow and Central Hemodynamics</td>
<td>133</td>
</tr>
<tr>
<td>Evaluation of Severity and Prognosis in Early Stages of Septicemia by Means of Chromogenic Peptide Substrate Assays</td>
<td>140</td>
</tr>
<tr>
<td>Comparison of Bypass and Resection of the Small Intestine in Germfree Rats</td>
<td>147</td>
</tr>
<tr>
<td>Adrenergic Blockade Does Not Change Ventilatory Response to CO₂ in Awake Resting Goats</td>
<td>154</td>
</tr>
<tr>
<td>Measurement of Intracranial Blood Volume by Gamma Camera Emission Tomography</td>
<td>162</td>
</tr>
</tbody>
</table>

Author Index .................................................................................................................. 169
Subject Index .................................................................................................................. 170