Gas Exchange Function of Normal and Diseased Lungs

Progress in Respiration Research

Vol. 16

Series Editor: H. Herzog, Basel

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Gas Exchange Function of Normal and Diseased Lungs

Volume Editors
J. Piiper and P. Scheid, Göttingen

100 figures and 15 tables, 1981

S. Karger • Basel • München • Paris • London • New York • Sydney

Progress in Respiration Research

Vol. 14: Asthma
Editor: H. Herzog, Basel

Vol. 15: Clinical Importance of Surfactant Defects
Editor: P. von Wiehert, Hamburg

National Library of Medicine, Cataloging in Publication
(Progress in respiration research : v. 16)
W3 PR948 v. 16 1980 WF 102 S991g 1980
ISBN 3-8055-1638-X
Contents

List of Participants IX
Introduction XV

Special Lectures
Chairmen: J. Milic-Emili, C. Albers

Otis, A.B. (Gainesville, Fla.): History of Pulmonary Gas Exchange in the 19th Century
1
Lenfant, C. (Bethesda, Md.): Respiratory Physiology Research: Its Future 10

Ventilation Distribution and Dead Space
Chairmen: J.M.B. Hughes, N.C. Staub

Cumming, G. (Midhurst): Measurement of Alveolar Gas Mixing Efficiency 14
Kindig, N.B.; Perry, M.E., and Filley, G.F. (Denver, Colo.): Gas-Mixing Dead Space Measurement with Paired Tracers 31
Milic-Emili, J. (Montreal): Interregional Distribution of Inspired Gas 33
Roussos, C.; Macklem, P.T., and Engel, L. (Montreal): Mechanisms Underlying Unequal Distribution of Inspired Gas: Lung, Chest Wall 44
D’Angelo, E. and Agostoni, E. (Milano): Respiratory Muscle Action and Local Swings of Pleural Pressure 54
Intrapulmonary Gas Mixing
Chairmen: G. Cumming, H.-K. Chang, R.S. Sikand

Scheid, P. (Göttingen): Mathematical Models for Intrapulmonary Gas Mixing 56
Hansen, J.E. (Torrance, Calif.): The Human Acinus in Three Dimensions 63
Worth, H. and Piiper, J. (Göttingen): Diffusion in Gas Mixtures Similar to Alveolar Gas 65
Adaro, F. and Piiper, J. (Göttingen): Interpretation of Simultaneous Intrapulmonary Equilibration of Gases of Differing Diffusivities 68
Smidt, U. and Worth, H. (Moers): Gas Mixing in Patients 86
Arieli, R. and Van Liew, H.D. (Buffalo, N.Y.): Post Inspiratory Mixing in the Lung 93
Ôkubo, T.; Shibata, H.; Fuyuki, T., and Takishima, T. (Sendai): Effects of Gravity and Branching on Longitudinal Gas Mixing in Airways, Studied by a Glass Tube Model 103

Blood/Gas Equilibration
Chairmen: P. Haab, H.H. Loeschcke, G.F. Filley

Piiper, J. (Göttingen): Blood-Gas Equilibration in Lungs and Pulmonary Diffusing Capacity 115
Meyer, M. (Göttingen): Pulmonary Diffusing Capacity for O2 and CO in Man at Rest and During Exercise by Rebreathing Stable Isotopes 126
Burns, B. and Shepard, H. (Baltimore, Md.): Membrane Diffusion: Comparison between Dithionite DO2 and DLco.130
Magnussen, H. (Bonn): Single Breath Diffusion Capacity for Carbon Monoxide in Bronchial Asthma and Emphysema 147
Holland, R.A.B. (Kensington): Kinetics of O2 and CO Reactions in Blood 152
Gurtner, G.H. and Peavy, H.H. (Baltimore, Md.): Evidence for Facilitated Transport of O2 and CO in the Lungs 161

Contents VII

Meyer, M.; Scheid, P., and Piiper, J. (Göttingen): No Evidence for Facilitated Pulmonary Transfer of Carbon Monoxide 166
Hill, E.P. and Enns, T. (La Jolla, Calif.): CO2 Diffusing Capacity in Isolated Lungs 172
Crandall, E.D. (Los Angeles, Calif.): Kinetics of CO2 in Blood 181
Klocke, R.A. (Buffalo, N.Y.): Factors Involved in the Kinetics of the Bohr Shift 198
Effros, R.M.; Mason, G., and Silverman, P. (Torrance, Calif.) The Significance of Pulmonary Endothelial Carbonic Anhydrase 203
Gros, G.; Wittmann, B., and Guggenberger, L. (Essen): Carbamate Kinetics of Blood Proteins 205

Gas Exchange in Inhomogeneous Lungs
Chairmen: J.B. West, C. Lenfant, H. Herzog

Haab, P. (Fribourg): Estimation of Diffusion Limitation in Inhomogeneous Lung 214
Geiser, J. (Fribourg): Analysis of Diffusing Capacity in Lungs with Continous Distributions of VA, Q and DL 220
Kawashiro, T.; Yamaguchi, K., and Yokoyama, T. (Tokyo): Simultaneous TwoCompartmental Analysis of Ventilation-Perfusion Unevenness and Diffusing Capacity in the Lungs 222
Yokoyama, T.; Kawashiro, T., and Yamaguchi, K. (Tokyo): Two-Compartmental Analysis of Ventilation-Perfusion Unevenness in Diseased Lungs and Triple
AaD 225
Wagner, P.D. (La Jolla, Calif.): Multiple Inert Gas Techniques: Results in Normal Subjects and Patients 245

Contents VIII

Olszowka, À.J. (Buffalo, N.Y.): Would Increasing the Number of Gases Used Improve the Resolution of Inert Gas Techniques? 250
Rehder, K. (Rochester, Minn.): Pulmonary Gas Exchange during Anesthesia and Mechanical Ventilation 255
Riedel, M.; Widimsky, J., and Staněk, V. (Prague): Ventilation and Gas Exchange in Chronic Thromboembolic Disease 258
Dantzker, D.R. and Bower, J.S. (Ann Arbor, Mich.): Gas Exchange in Obliterative Pulmonary Vascular Disease 264
Staub, N.C. and Conhaim, R.L. (San Francisco, Calif.): An Anatomical Basis for Very Low Ventilation/Perfusion Units in the Lung 267
Fedde, M.R. (Manhattan, Kans.): Introduction to the Avian Respiratory System 280
Powell, F.L. and Wagner, P.D. (San Diego, Calif.): Inert Gas Transfer in Avian Lungs 283
White, F.N.; Spragg, R.G., and Ackerman, R.A. (La Jolla, Calif.): Ventilation Distribution in the Turtle Lung 285
Adjustment to Environmental Conditions and Exercise
Chairman: P. Bouverot

West, J.B. and Wagner, P.D. (La Jolla, Calif.): Pulmonary Gas Exchange at High Altitude 287
Lechner, A.J. and Banchero, N. (Denver, Colo.): Lung Morphometry in Guinea Pigs Acclimated to Cold or to Hypoxia 302
Cruz, J.C. (Denver, Colo.): Alveolar-Arterial Oxygen Tension Gradients in High Altitude Residents and in Polycythemic Patients 308
Marconi, C. and Cerretelli, P. (Geneva): Gas Exchange Adjustments in Running Dogs 311

Subject Index 317

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Introduction

This volume contains the papers presented at the Symposium on Gas Exchange Function of Normal and Diseased Lungs that was held in Gottingen, July 8-11, 1980. The meeting was a Satellite Symposium of the XXVIIIth International Congress of Physiological Sciences, which took place in Budapest (Hungary), July 13-19, 1980.

The topics discussed in five sessions were: (1) ventilation distribution and dead space; (2) intrapulmonary gas mixing; (3) blood/gas equilibration; (4) gas exchange in inhomogeneous lungs; (5) adjustment to environmental conditions and exercise. Several aspects were considered in each topic, e.g. methodology, theoretical and experimental approaches, pathophysiology.

The symposium was attended by 94 scientists whose names and professional affiliations are given in the List of Participants. In composing the program we have attempted to blend review lectures with original papers on recent scientific achievements. Time for the meeting being limited, the desire of the great majority of participants to present their material could only be satisfied by offering a special format of poster presentation, whereby an author was given 5 minutes during the pertinent session to introduce his poster.

These proceedings contain manuscripts of all presentations (reviews, free oral communications, poster presentations). Space being limited in
this volume, discussions could not be included with the papers. This is particularly regrettable as the formal discussion during the sessions, as well as the many dialogs between the sessions, constituted an essential part of the meeting. In this sense, all participants of the meeting can be regarded as active, even if they were not listed in the program with a formal communication.

Introduction XVI

Our colleague and dear friend Daniel Bargeton (Paris) was expected to participate in this symposium. This was, however, made impossible as he died on the 25th of June. His death was received with regret by the attendants, most of which had known him as a scientist. The manuscript of his contribution is included in this volume.

It is our distinct pleasure to acknowledge the generous financial support provided by the Deutsche Forschungsgemeinschaft (German Research Council), Bad Godesberg, and by the Max-Planck-Gesellschaft. Furthermore, we would like to thank Mrs. Elfriede Hansen and Mrs. Irmgard Barteczko, secretaries of the Department of Physiology, for their unwearying and excellent help at all stages of the planning of the meeting and of the preparation of the publication. Thanks are also due to all members of the Department of Physiology for their cooperation.

We are grateful to Dr. H. Herzog, editor of Progress in Respiration Research, for the opportunity to publish the proceedings as a volume in this series. Particular thanks are due to Mrs. Denise Greder and Mr. R. Steinebrunner, Karger Publishing Company, for their cooperation.

Göttingen, August 1980 Johannes Piiper
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