

A concise handbook on clinical
and technical possibilities

Hemodiafiltration

Editors
Claudio Ronco
Bernard Canaud
Pedro Aljama

The application of hemodiafiltration has been restricted until recently, when a broader clinical application has been made possible due to evidence from large studies and clinical investigations. This book provides an updated review of the evolution, advances and recent results achieved by hemodiafiltration in the clinical arena.

The first part is devoted to historical notes and an outline of the evolution of different forms of hemodiafiltration, made possible by technological developments in the fields of membranes, machines and fluids. The next section describes the theoretical rationale for hemodiafiltration, providing a detailed analysis of the involved mass separation processes, the hydraulic properties of the dialyzers, fluid mechanics and crossfiltration in hollow fiber hemodialyzers. An outline of different hemodiafiltration techniques, also reporting peculiar transport mechanisms and related technology, is given next, and a section on the clinical effects of hemodiafiltration concludes this book.

Including different technologies, the publication offers a complete overview of the technical and clinical possibilities provided by hemodiafiltration in its widest concept, ranging from the molecular basis to the most practical application. It will be a valuable tool for the implementation of hemodiafiltration in daily practice aimed at beginners and experts, scientists and physicians, students and senior faculty members alike.

Contributions to Nephrology, Vol. 158

Hemodiafiltration

Editors: Ronco, C. (Vicenza); Canaud, B. (Montpellier);
Aljama, P. (Cordoba)

X + 238 p., 44 fig., 5 in color, 11 tab., hard cover, 2007

CHF 248.- / EUR 177.- / USD 225.50

ISBN 978-3-8055-8288-9

Prices subject to change

EUR price for Germany, USD price for USA only

Fields of Interest:

*Nephrology; Medical Engineering; Dialysis,
History of Medicine*

Contents

Preface

Ronco, C.; Canaud, B.; Aljama, P.

History and Evolution

The Birth of Hemodiafiltration

Henderson, L.W.

Evolution of Hemodiafiltration

Ronco, C.

Basic Principles

Solute Removal by Hollow-Fiber

Dialyzers

Clark, W.R.; Rocha, E.; Ronco, C.

Fluid Mechanics and Crossfiltration in
Hollow-Fiber Hemodialyzers

Ronco, C.

Mechanisms of Solute and Fluid

Removal in Hemodiafiltration

Yamashita, A.C.

Membranes and Hardware for Hemodiafiltration

Membranes and Filters for

Haemodiafiltration

Hoenich, N.A.

Technical Aspects of Online

Hemodiafiltration

Polaschegg, H.-D.; Roy, T.

(continued on reverse)

KARGER

Technical Aspects and Fluids in Hemodiafiltration

Quality of Water, Dialysate and Infusate

Cappelli, G.; Ricardi, M.; Bonucchi, D.; De Amicis, S.

Fluids in Bags for Hemodiafiltration
Ledebo, I.

Hemodiafiltration with Endogenous Reinfusion

Wratten, M.L.; Ghezzi, P.M.

Hemodiafiltration Techniques

Low- (Classical) and High-Efficiency Haemodiafiltration

Wizemann, V.

Online Hemodiafiltration: Technical Options and Best Clinical Practices
Canaud, B.

Mixed-Dilution Hemodiafiltration
Pedrini, L.A.; Zerbi, S.

Paired Hemodiafiltration
Pizzarelli, F.

Acetate-Free Biofiltration
Santoro, A.; Guarnieri, F.; Ferramosca, E.; Grandi, F.

Mid-Dilution: An Innovative High-Quality and Safe Haemodiafiltration Approach
Potier, J.

Double High-Flux Hemodiafiltration
von Albertini, B.

Push/Pull Hemodiafiltration
Shinzato, T.; Maeda, K.

Principles and Practice of Internal Hemodiafiltration
Fiore, G.B.; Ronco, C.

Clinical Aspects of Hemodiafiltration

Clinical Aspects of Haemodiafiltration
Locatelli, F.; Di Filippo, S.; Manzoni, C.

The Biological Response to Online Hemodiafiltration
Panichi, V.; Tetta, C.

Clearance of Beta-2-Microglobulin and Middle Molecules in Haemodiafiltration
Tattersall, J.

Inflammation and Hemodiafiltration
Ramirez, R.; Martin-Malo, A.; Aljama, P.

Effect of Online Hemodiafiltration on Morbidity and Mortality of Chronic Kidney Disease Patients
Canaud, B.

Optimizing the Prescription of Hemodiafiltration
Maduell, F.

www.karger.com/conep

Contributions to Nephrology

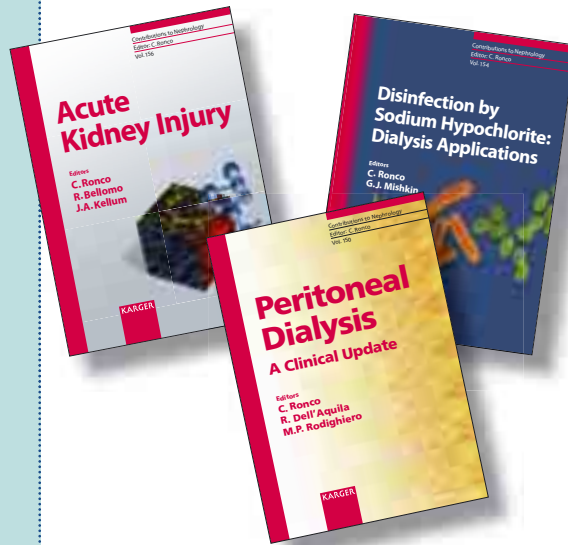
Series Editor: Ronco, C. (Vicenza)
ISSN 0302-5144

'... an invaluable collection on the nephrologist's personal bookshelf.'

Journal of the Royal Society of Medicine

'Together, they form an excellent library.'

Journal of Medical Genetics



Of Related Interest

Vol. 156

Acute Kidney Injury

Editors: Ronco, C. (Vicenza); Bellomo, R. (Melbourne); Kellum, J. A. (Pittsburgh, Pa.)
XII + 464 p., 63 fig., 2 in color, 40 tab., hard cover, 2007
CHF 286.- / EUR 204.50 / USD 260.00
ISBN 978-3-8055-8271-1

Vol. 154

Disinfection by Sodium Hypochlorite: Dialysis Applications

Editors: Ronco, C. (Vicenza); Mishkin, G.J. (Gaithersburg, Md.)
X + 158 p., 32 fig., 7 in color, 24 tab., hard cover, 2007
CHF 228.- / EUR 163.- / USD 207.25
ISBN 978-3-8055-8193-6

Vol. 150

Peritoneal Dialysis: A Clinical Update

Editors: Ronco, C.; Dell'Aquila, R.; Rodighiero, M.P. (Vicenza)
XII + 354 p., 45 fig., 8 in color, 20 tab., hard cover, 2006
CHF 228.- / EUR 163.- / USD 207.25
ISBN 978-3-8055-8119-6

Prices subject to change
EUR price for Germany, USD price for USA only

To be ordered through:

Order Form

Contributions to Nephrology

Please send:

copy/ies: Vol. 158
Hemodiafiltration
CHF 248.- / EUR 177.- / USD 225.50
ISBN 978-3-8055-8288-9

copy/ies: _____
ISBN 978-3-8055- _____

the book series **Contributions to Nephrology** on continuation beginning with vol. _____

All Karger series are available on continuation. Each volume will be sent upon publication until order is countermanded.

For easy ordering or further information about the series log on to:
www.karger.com/conep

Payment

Postage and handling free with prepayment

Please charge this order to my credit card

American Express Diners
 Visa Eurocard
 Mastercard

Card No.:

Exp. date:

CVV/CVC

3 digits in the signature field on the back of Visa and Mastercard

Check enclosed Please bill me

Name/Address (please print):

Date:

Signature:

Orders can be placed at agencies, bookstores, directly with the publisher, or with any Karger distributor.

S. Karger AG, P.O. Box, 4009 Basel (Switzerland)
Fax +41 61 306 12 34, E-Mail orders@karger.ch
USA: S. Karger Publishers, Inc., 26 West Avon Road, P.O. Box 529, Unionville, CT 06085 (USA), Toll free: 1-800-828-5479
Germany: S. Karger GmbH, 79095 Freiburg
France: Librairie Médi-sciences, 75007 Paris
Gulf Council Countries, Iran, Middle East, North Africa, Turkey: Trans Middle East Internat. Distribution Co. Ltd., KaSha, Amman 11953 (Jordan)
Japan: Karger Japan, Inc., Tokyo 113-0034

For details and further representatives and agencies see www.karger.com/worldwide

KARGER