Highlights in this issue:

- **Targeting Hypoxia-Inducible Factors for the Treatment of Anemia in Chronic Kidney Disease Patients**
  Locatelli, F.; Fishbane, S.; Block G.A.; Macdougall, I.C.

- **The Association between Biomarker Profiles, Etiology of Chronic Kidney Disease, and Mortality**
  Langsford, D.; Tang, M.; Cheikh Hassan, H.I.; Djurdjev, O.; Sood, M.M.; Levin, A.

- **Clinical Features and Outcomes of a Racially Diverse Population with Fibrillary Glomerulonephritis**
Three BMA awards for Karger Publishers

We are delighted to announce that three Karger titles received ‘Highly Commended’ awards by the British Medical Association in their prestigious 2016 Medical Book Competition:

**In the category 'Internal Medicine’**

**Tattooed Skin and Health**
Editors: Serup, J. (Copenhagen); Kluger, N. (Helsinki); Bäumler, W. (Regensburg)
X + 258 p., 110 fig., 85 in color, 25 tab., hard cover, 2015
www.karger.com/cupde

**Retinal Pharmacotherapeutics**
Editors: Nguyen, Q.D. (Omaha, Nebr.); Rodrigues, E.B. (São Paulo); Farah, M.E. (São Paulo); Mieler, W.F. (Chicago, Ill.); Du, D.V. (Omaha, Nebr.)
XVI + 408 p., 83 fig., 71 in color, 33 tab., hard cover, 2016
www.karger.com/deoph

**Immuo-Oncology**
Editors: Michielin, O.; Coukos, G. (Lausanne)
VI + 140 p., 8 fig., 5 in color, 11 tab., hard cover, 2015
www.karger.com/pritr

**In the category 'Oncology’**

**Olszewski and Baxter’s Cytoarchitecture of the Human Brainstem**
Editors: J.A. Büttner-Ennever, A.K.E. Horn
3rd, revised and extended edition
www.karger.com/pbhtb

**Current Problems in Dermatology**
Editors: P. Itin, G.B.E. Jemec
Vol. 48
www.karger.com/cdpm

**Tattooed Skin and Health**
Editors: Serup, J. (Copenhagen); Kluger, N. (Helsinki); Bäumler, W. (Regensburg)
X + 258 p., 110 fig., 85 in color, 25 tab., hard cover, 2015
www.karger.com/cupde

**Retinal Pharmacotherapeutics**
Editors: Nguyen, Q.D. (Omaha, Nebr.); Rodrigues, E.B. (São Paulo); Farah, M.E. (São Paulo); Mieler, W.F. (Chicago, Ill.); Du, D.V. (Omaha, Nebr.)
XVI + 408 p., 83 fig., 71 in color, 33 tab., hard cover, 2016
www.karger.com/deoph

**Immuno-Oncology**
Editors: Michielin, O.; Coukos, G. (Lausanne)
VI + 140 p., 8 fig., 5 in color, 11 tab., hard cover, 2015
www.karger.com/pritr

Karger titles which received awards in previous BMA Medical Book Competitions

**Obzewski and Baxter’s Cytoarchitecture of the Human Brainstem**
Editors: J.A. Büttner-Ennever, A.K.E. Horn
3rd, revised and extended edition
www.karger.com/pbhtb

**Paediatric Bronchoscopy**
Editors: K.N. Priфтis, M.B. Ananian
Eber, A.C. Komburl, R.E. Wood
www.karger.com/pbbr

**The Road to Good Nutrition**
Editors: N. Pollock, P. Daniels, M. Geoghegan, D. Moxton, N.E. Mood
www.karger.com/prnt

**Progress in Tumor Research**
Editors: R.A. Stahel, S. Peters
Vol. 42
www.karger.com/pritr

**Progress in Respiratory Research**
Editor: C.T. Bolliger
Vol. 38
www.karger.com/prtr

**Macular Edema: A Practical Edema Approach**
www.karger.com/prme

www.karger.com
Kidney Diseases aims to provide a platform for the communication of novel research findings from both clinical science and basic research and covers the entire spectrum of nephrological disorders. The journal has a particular interest in publishing research that supports communication and exchange of knowledge between East and West.

The basic research section includes experimental work in animal models and in vitro. Clinical trials, observational studies, and other original clinical research work related to kidney diseases are the focus of the clinical science section; Moreover, important studies on hemodialysis and peritoneal dialysis are also considered. Invited review articles and editorials by renowned experts and high-quality rapid communications round off the contents of the journal.

Kidney Diseases

Editor-in-Chief
Z.-H. Liu, Nanjing

Consulting Editor
G. Remuzzi, Bergamo

Administrative Editor
A.-H. Zhang, Nanjing

Kidney Diseases

Founded: 2015
Category: Clinical and Basic Research
Field of Interest: Nephrology

Listed in bibliographic services, including:
PubMed/PubMed Central, Google Scholar

2017: Volume 3
4 issues per volume
Language: English
ISSN 2296–9381
e-iSSN 2296–9357

Selected contributions

- New Insights into the Pathogenesis of IgA Nephropathy: Novak, J.; Rizk, D. (Birmingham, Ala.); Takahashi, K. (Birmingham, Ala./Toyoake); Zhang, X.; Bian, Q. (Birmingham, Ala./Shanghai); Ueda, H.; Ueda, Y.; Reilly, C. (Birmingham, Ala.); Lai, L.-Y. (Birmingham, Ala./Shanghai); Hao, C. (Shanghai); Novak, L.; Huang, Z.-Q.; Renfrow, M.B. (Birmingham, Ala.); Suzuki, H. (Birmingham, Ala./Tokyo); Julian, B.A. (Birmingham, Ala.)
- Macrophage Phenotype in Kidney Injury and Repair: Meng, X.-M. (Hefei); Tang, P.M.-K. (Hong Kong); Li, J. (Hefei); Lan, H.Y. (Hong Kong/Shenzhen)
- Peritoneal Dialysis in Asia: Kwong, V.W.-K.; Li, P.K.-T. (Hong Kong)
- Peritoneal Dialysis in Western Countries: Struijk, D.G. (Amsterdam)
- Recent Progress in Stem Cell Therapy for Diabetic Nephropathy: Liu, Y.; Tang, S.C.W. (Hong Kong)
- Autophagy in Chronic Kidney Diseases: Liu, N.; Shi, Y. (Shanghai); Zhuang, S. (Shanghai/Providence, R.I.)

Downloaded by: 54.70.40.11 - 10/3/2017 5:22:27 PM
Contents

In-Depth Topic Reviews

187 Targeting Hypoxia-Inducible Factors for the Treatment of Anemia in Chronic Kidney Disease Patients
Locatelli, F. (Lecco); Fishbane, S. (Great Neck, NY); Block, G.A. (Denver, CO); Macdougall, I.C. (London)

235 History of Erythropoiesis-Stimulating Agents, the Development of Biosimilars, and the Future of Anemia Treatment in Nephrology
Kalantar-Zadeh, K. (Orange, CA)

Original Reports: Patient-Oriented, Translational Research

200 Insights from Screening a Racially and Ethnically Diverse Population for Chronic Kidney Disease
Wong, L.L. (Honolulu); Kalantar-Zadeh, K. (Orange, CA); Page, V.; Hayashida, G. (Honolulu); You, A.S.; Rhee, C.M. (Orange, CA)

217 Acute Kidney Injury and In-Hospital Mortality after Coronary Artery Bypass Graft versus Percutaneous Coronary Intervention: A Nationwide Study

226 The Association between Biomarker Profiles, Etiology of Chronic Kidney Disease, and Mortality
Langsford, D.; Tang, M.; Cheikh Hassan, H.I. (Vancouver, BC); Djurdjev, O. (Vancouver, BC/Ottawa, ON); Sood, M.M. (Ottawa, ON); Levin, A. (Vancouver, BC/Ottawa, ON)

248 Clinical Features and Outcomes of a Racially Diverse Population with Fibrillary Glomerulonephritis
Chronic kidney disease (CKD) is a growing worldwide public health problem resulting from the increasing number of patients with diabetes and hypertension, but also from the aging of the population. As the pathology associated with CKD appears to become more complex with age, it is essential to improve the prognosis of patients suffering from CKD by developing effective measures to prevent and control complications for the elderly.

The publication at hand makes a significant contribution to achieving this goal, with renowned Japanese scientists presenting their recent research results. Papers cover various aspects of CKD and related morbidities, ranging from dialysis- and access-related issues to bone disorders, tissue engineering, or hyperphosphatemia.

Due to the wide range of topics presented, this book will be of interest to readers in various clinical and research settings connected with the care for the elderly.

**Contents**

- Preface: Nitta, K.
- Clinical Effect of Pre-Dilution Hemodiafiltration Based on the Permeation of the Hemodiafilter: Yamashita, A.C.; Sakurai, K.
- The Past, Present and Future of the Dialyzer: Mineshima, M.
- Importance of Abnormal Bone Metabolism in the Acceleration of Atherosclerosis in Hemodialysis Patients: Inaba, M.
- Dysregulated Iron Metabolism in Patients on Hemodialysis: Nakanishi, T.; Otaki, Y.; Nanami, M.; Kuragano, T.
- Klotho/FGF23 Axis in CKD: Tsuchiya, K., Nagano, N.; Nitta, K.
- Cell Sheet-Based Tissue Engineering for Mesothelial Cell Injury: Kawanishi, K.; Nitta, K.
- Erythropoiesis-Stimulating Agent Hyporesponsiveness in End-Stage Renal Disease Patients: Ogawa, T.; Nitta, K.
- Past and Present Perspectives on Encapsulating Peritoneal Sclerosis: Kawashini, H.; Shintaku, Y.; Banshodani, M.; Hashimoto, S.
- DPP-4 Inhibitors in Diabetic Patients with Chronic Kidney Disease and End-Stage Kidney Disease on Dialysis in Clinical Practice: Abe, M.; Okada, K.
- Present Status and Future of Peritoneal Dialysis in Japan: Nakamoto, H.
- Cost-Effectiveness of Hemodialysis in Japan: Takura, T.
- New Aspects of Cerebrovascular Diseases in Dialysis Patients: Naganuma, T.; Takemoto, Y.
- Current Topics of Purification and Constitutions of Dialysis Fluid: Tomo, T.
- Vascular Calcification in End-Stage Renal Disease Patients: Nitta, K.; Ogawa, T.
257 Rationale and Design of a Clinical Trial Investigating Tolvaptan Safety and Efficacy in Autosomal Dominant Polycystic Kidney Disease
Torres, V.E. (Rochester, MN); Devuyst, O. (Zurich); Chapman, A.B. (Chicago, IL); Gansevoort, R.T. (Groningen); Perrone, R.D. (Boston, MA); Ouyang, J.; Blais, J.D.; Czerwiec, F.S.; Sergeyeva, O. (Rockville, MD) for the REPRISE Trial Investigators

267 Universal Sustained Viral Response to the Combination of Ombitasvir/Paritaprevir/Ritonavir and Dasabuvir with/without Ribavirin in Patients on Hemodialysis Infected with Hepatitis C Virus Genotypes 1 and 4

273 Prognostic Value of the Delivery Dialysis Dose on Twice-Weekly Hemodialysis Patients

Nephrology Grand Rounds

209 ANCA Associated Vasculitis Secondary to Levamisole-Adultered Cocaine with Associated Membranous Nephropathy: A Case Series
Collister, D.; Sathianathan, C.; Ryz, K.; Karpinski, M.; Bernstein, K.; Gibson, I.W. (Winnipeg, MB)

World Kidney Day 2017: Editorial

283 Obesity and Kidney Disease: Hidden Consequences of the Epidemic
Kovesdy, C.P. (Memphis, TN); Furth, S.L. (Philadelphia, PA); Zoccali, C. (Reggio Calabria) on behalf of the World Kidney Day Steering Committee
This book brings together papers presented both during the 61st Annual Meeting of the Japanese Society for Dialysis Therapy (JSDT) and the 34th Congress of the International Society of Blood Purification (ISBP), held in Osaka in June and in Hiroshima in September 2016, respectively. They cover a broad spectrum of topics, ranging from hemodialysis, peritoneal dialysis, hemodiafiltration and technical innovations in blood purification to complications of chronic kidney disease and acute kidney injury, including mineral bone disease and anemia.

Main Contents

Preface: Kawanishi, H.

Introduction: Takemoto, Y.

- Is There Enough Evidence to Prove Hemodiafiltration Is Better?
- Daily Hemodialysis
- Peritoneal Dialysis and Hemodialysis
- Asia Trends
- Acute Kidney Injury
- New Dialysis Technology
- Management of Mineral and Bone Disorders and Anemia in Chronic Kidney Disease
- Uremic Toxicity
- What Is the Best Kinetic Modeling in Dialysis?
- New Developments in Dialysis Membranes
- Vascular Access
- Health Care Systems
- Nutrition

The easiest way to order: www.karger.com/conep

Karger – Medical and Scientific Publishers
CH-4009 Basel, Switzerland
orders@karger.com, f: +41 61 306 12 34
www.karger.com
Targeting Hypoxia-Inducible Factors for the Treatment of Anemia in Chronic Kidney Disease Patients
Locatelli, F. (Lecco); Fishbane, S. (Great Neck, NY); Block, G.A. (Denver, CO); Macdougall, I.C. (London)

Hypoxia-inducible factors (HIF) regulate erythropoiesis at the molecular level. Accordingly, drugs that inhibit the enzyme HIF-prolyl hydroxylase simulate hypoxia in the cell and orchestrate a series of responses that increases red blood cell mass. However, hundreds of other genes are also stimulated and the risk-benefit assessment in patients with chronic kidney disease is the subject of several larger phase III trials. Locatelli and colleagues discuss this class of compounds in their in-depth review in this edition of AJN.

The Association between Biomarker Profiles, Etiology of Chronic Kidney Disease, and Mortality
Langsford, D.; Tang, M.; Cheikh Hassan, H.I. (Vancouver, BC); Djurdjev, O. (Vancouver, BC/Ottawa, ON); Sood, M.M. (Ottawa, ON); Levin, A. (Vancouver, BC/Ottawa, ON)

There is variability in outcomes in patients with different etiologies of chronic kidney disease such as progression to dialysis and mortality. It would be of great clinical utility to have tools that would enable one to objectively identify CKD patients with higher mortality risk so as to guide interventions with the potential of reversibility. In this paper the authors analyze data from a Canadian multicentre cohort study (the Canadian Study of Prediction of Dialysis, Death and Interim Cardiovascular Events over Time) that prospectively collected serial biosamples of blood and urine in patients with advanced CKD. Their analysis provides preliminary evidence that biomarker profiles differ in CKD based on etiology and may represent potential therapeutic targets for future intervention. Subsequent studies could be used to validate these findings in other cohorts. If consistent high risk profiles are confirmed, then studies designed to assess whether directed interventions can reduce the associated biomarkers and ameliorate their related processes, should be conducted.

Clinical Features and Outcomes of a Racially Diverse Population with Fibrillary Glomerulonephritis

Fibrillary glomerulonephritis (FGN) is a relatively rare but morphologically distinctive disorder, only diagnosable by renal biopsy, first described 40 years ago. It has been generally regarded to be a form of “Primary” glomerulonephritis. In a retrospective survey of 42 racially diverse patients seen at the University of North Carolina Kidney Center between 1985–2015, Payan-Schober and colleagues add important new insights into the clinical features and outcomes of FGN. The findings emphasize that FGN is secondary to underlying auto immune, diseases and infections (mainly hepatitis C virus) and malignancy in many cases (almost 60% in this series). Outcomes are generally poor, but might be improved by greater attention to the underlying diseases associated with FGN.
Contents

See the journal website for contents
Nephron comprises two sections, which are each under the editorship of internationally recognized leaders and served by specialized and young Associate Editors. Apart from high-quality original research, Nephron publishes invited reviews/minireviews on up-to-date topics. Papers undergo an innovative and transparent peer review process encompassing a Presentation Report which assesses and summarizes the presentation of the paper in an unbiased and standardized way. New sections of the Journal are Second Opinion and Case Studies in Genetics. Second Opinion provides a platform for international experts and opinion leaders to cast a critical over published papers dealing with hot topics in clinical and experimental nephrology. The objective of Case Studies in Genetics is to provide clinically relevant examples of the genetic heterogeneity of renal diseases.

The open access journal Nephron Extra provides additional contents based on reviewed and accepted submissions to the main journal Nephron on www.karger.com/nef.

Nephron
Founded: 1964
Category: Clinical and Basic Research
Field of Interest: Nephrology

Listed in bibliographic services, including: PubMed/MEDLINE, Web of Science, Google Scholar, Scopus, Embase
2017: Volumes 135, 136, 137
4 issues per volume
Language: English
ISSN 1660–8151
e-ISSN 2235–3186

Selected contributions
- Foot Process Effacement Is an Early Marker of Nephropathy in Young Classic Fabry Patients without Albuminuria: Tondel, C. (Bergen); Kanai, T. (Tochigi); Larsen, K.K. (Bergen); Itou, S. (Tokyo); Politei, J.M. (Buenos Aires); Warnock, D.G. (Birmingham, Ala.); Svarstad, E. (Bergen)
- Non-Transgenic Mouse Models of Kidney Disease: Rabe, M.; Schaefer, F. (Heidelberg)
- Improved Survival of Incident Patients with High-Volume Hemodialfiltration: A Propensity-Matched Cohort Study with Inverse Probability of Censoring Weighting: Canaud, B.; Bayh, I.; Marcelli, D. (Bad Homburg); Ponce, P. (Lisbon); Merello, J.J. (Madrid); Gurevich, K. (Saint Petersburg); Ladanyi, E. (Miskolc); Ok, E. (Izmir); Imamovic, G. (Zvornik); Grassmann, A.; Scatizzi, L. (Bad Homburg); Gatti, E. (Bad Homburg/Krems)
- Generating Conditionally Immortalised Podocyte Cell Lines from Wild-Type Mice: Keir, L.S.; Firth, R.; May, C.; Ni, L.; Welsh, G.J.; Saleem, M.A. (Bristol)
- The Gut as a Source of Inflammation in Chronic Kidney Disease: Lau, W.L.; Kalantar-Zadeh, K.; Vaziri, N.D. (Orange, Calif)
- Complement and Cardiovascular Disease – The Missing Link in Hemodialysis Patients?: Lines, S.W. (Norwich); Richardson, V.R.; Thomas, B.; Dunn, E.J.; Wright, M.J.; Carter, A.M. (Leeds)
- Nephrosclerosis: A Term in Quest of a Disease: Meyrie, A. (Paris)

More information at www.karger.com/nef
Ultrasound imaging techniques are an indispensable complement to physical examination, which is often frustrating, if not useless, for diagnosing kidney problems. The application of ultrasound techniques in clinical routine helps clinicians to rule out, at first glance, some serious pathological conditions and to concentrate on the accurate diagnosis of the patient. Moreover, sonography can extend the spectrum of diagnostic criteria in acute kidney diseases. It makes it possible to determine morphological parameters without potentially toxic contrast media while exploring functional aspects with contrast enhanced or Doppler ultrasound techniques.

This publication meets a growing demand for current information among physicians and nurses in the field. With a focus on the daily practice of diagnosing kidney disease, it is an important resource for both beginner and advanced users of ultrasound imaging techniques.

Contents

Preface: Meola, M.; Petrucci, I.; Ronco, C.

Acute Kidney Disease

• Pathophysiology and Clinical Work-Up of Acute Kidney Injury: Meola, M.; Nalesso, F.; Petrucci, I.; Samoni, S.; Ronco, C.
• Ultrasound in Acute Kidney Disease: Meola, M.; Nalesso, F.; Petrucci, I.; Samoni, S.; Ronco, C.
• Clinical Scenarios in Acute Kidney Injury: Pre-Renal Acute Kidney Injury: Meola, M.; Nalesso, F.; Petrucci, I.; Samoni, S.; Ronco, C.
• Clinical Scenarios in Acute Kidney Injury: Hepatorenal Syndrome: Meola, M.; Nalesso, F.; Petrucci, I.; Samoni, S.; Ronco, C.
• Clinical Scenarios in Acute Kidney Injury: Parenchymal Acute Kidney Injury—Vascular Diseases: Meola, M.; Samoni, S.; Petrucci, I.; Ronco, C.
• Clinical Scenarios in Acute Kidney Injury: Post-Renal Acute Kidney Injury: Meola, M.; Samoni, S.; Petrucci, I.; Ronco, C.

Chronic Kidney Disease

• Imaging in Chronic Kidney Disease: Meola, M.; Samoni, S.; Petrucci, I.
• Clinical Scenarios in Chronic Kidney Disease: Vascular Chronic Diseases: Meola, M.; Samoni, S.; Petrucci, I.
• Clinical Scenarios in Chronic Kidney Disease: Parenchymal Chronic Renal Diseases—Part 1: Meola, M.; Samoni, S.; Petrucci, I.
• Clinical Scenarios in Chronic Kidney Disease: Parenchymal Chronic Renal Diseases—Part 2: Meola, M.; Samoni, S.; Petrucci, I.
• Clinical Scenarios in Chronic Kidney Disease: Cystic Renal Diseases: Meola, M.; Samoni, S.; Petrucci, I.
• Clinical Scenarios in Chronic Kidney Disease: Kidneys’ Structural Changes in End-Stage Renal Disease: Meola, M.; Samoni, S.; Petrucci, I.
Cells Tissues Organs aims at bridging the gap between cell biology and developmental biology and the emerging fields of regenerative medicine (stem cell biology, tissue engineering, artificial organs, in vitro systems and transplantation biology). CTO offers a rapid and fair peer-review and exquisite reproduction quality. Special topic issues, entire issues of the journal devoted to a single research topic within the range of interests of the journal, are published at irregular intervals.

**Selected contributions**

- Impact of Arachidonic Acid and the Leukotriene Signaling Pathway on Vasculogenesis of Mouse Embryonic Stem Cells: Huang, Y.-H.; Sharifpanah, F. (Giessen); Becker, S. (Bad Nauheim); Wartenberg, M. (Jena); Sauer, H. (Giessen)
- Myosin Heavy Chain Expression Can Vary over the Length of Jaw and Leg Muscles: Korfage, J.A.M.; Kwee, K.E.; Everts, V.; Langenbach, G.E.J. (Amsterdam)
- Arterial Decellularized Scaffolds Produced Using an Innovative Automatic System: Pellegrato, A.F.; Dominioni, T. (Pavia); Ballo, F.; Maestroni, S.; Asnaghi, M.A.; Zerbini, G. (Milan); Zonta, S. (Pavia); Mantero, S. (Milan)
- Cell Surface Glycan Changes in the Spontaneous Epithelial Mesenchymal Transition of Equine Amniotic Multipotent Progenitor Cells: Lange-Consiglio, A. (Lodi); Accogli, G. (Valenzano); Cremonesi, F. (Lodi/Milan); Desantis, S. (Valenzano)