Emerging Trends in Renal Replacement Therapy and Its Application for Acute Kidney Injury

Guest Editor
Ravindra L. Mehta, San Diego, Calif.
A compendium of basic principles and clinical practice

Peritoneal Dialysis – State-of-the-Art 2012

Editors
Claudio Ronco
Mitchell H. Rosner
Carlo Crepaldi

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- Lipid Disorders, Inflammation and Anemia
- CKD-MBD and Inflammation Management in PD
- Fluid Overload and Cardiovascular Events
- Practical Issues in Peritoneal Dialysis 2
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- Peritonitis and Other Clinical Outcomes

This publication contains the most recent findings in the field as presented by the outstanding faculty of the 2012 International Vicenza Course on Peritoneal Dialysis. After 30 years, this course is still one of the main educational events in the field of peritoneal dialysis as well as other disciplines including CKD, hemodialysis and critical care nephrology. The publication of the book in time for the course represents another success of the Vicenza team. The experts of the world and the related industry met in Vicenza for this important anniversary which is celebrated by this book representing not only a milestone in the history of the Department of Nephrology and the International Renal Research Institute of Vicenza, but also and above all an extraordinary educational tool for all physicians and nurses interested in peritoneal dialysis today.

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The CRRT Conference in San Diego continues to provide a comprehensive coverage of the rapidly developing field of Critical Care Nephrology and CRRT. It highlights the recent advances in our understanding of pathophysiology of critical illness, acute kidney injury, emerging strategies in the management of sepsis, multiorgan failure, development and use of biomarkers, technical advances in CRRT and the appropriate utilization of these techniques.

This 2013 program presents exciting new developments and evidence for hemodynamic monitoring, fluid management, dialysis timing, and extracorporeal support for critically ill patients. A mix of invited lectures, pro-con debates, interactive workshops, tutorials, poster sessions and panel discussions are planned to continue the tradition of multidisciplinary interactions.

The course will again be held at the Hilton San Diego Bayfront, the West Coast's newest waterfront hotel in the heart of San Diego's vibrant downtown area.

As always, we hope to provide the right environment to foster learning and mutually beneficial communications and collaborations. We hope you will join us to share your knowledge and experience as it is through multidisciplinary interactions that we will gain a better understanding of critical illness and it is only through our collective efforts that we will improve the lives of our patients. We look forward to welcoming you to San Diego for the eighteenth time.

Ravindra L. Mehta, MD
Conference Chair

2013 Conference Topic Highlights:
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Toray PMMA Dialyzer, High Performance Membrane with Protein Adsorption.

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Despite the various advantages of home dialysis compared to in-center hemodialysis, only a fraction of patients in Japan currently opt for peritoneal dialysis or home hemodialysis. However, considerable advances in research and technical improvements have been made lately, advancing the practice of home dialysis therapy in Japan.

Japanese research is well-known for its ingenuity and creative energy with regard to the development of new machines and systems for dialysis. New insights regarding peritoneal dialysis and home hemodialysis are presented in the publication at hand: Contributions by leading Japanese experts discuss topics such as educational methods, techniques, tools, novel systems and organization of patients. The book will be of great interest to clinical physicians involved in dialysis care; moreover, the expertise collected in this volume may contribute to the advancement of home dialysis therapy in a global context.

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Renal Replacement Therapy for Acute Renal Injury: We Need Better Therapy: Demirjian, S.G.; Paganini, E.P.
Practical information on hemodialysis, hemofiltration, peritoneal dialysis and apheresis is featured in this journal. Recognizing the critical importance of equipment and procedures, particular emphasis has been placed on reports, drawn from a wide range of fields, describing technical advances and improvements in methodology. Papers reflect the search for cost-effective solutions which increase not only patient survival but also patient comfort and disease improvement through prevention or correction of undesirable effects. Advances in vascular access and blood anticoagulation, problems associated with exposure of blood to foreign surfaces and acute-care nephrology, including continuous therapies, also receive attention. Nephrologists, internists, intensivists and hospital staff involved in dialysis, apheresis and immunoadsorption for acute and chronic solid organ failure will find this journal useful and informative.

Selected contributions

- Immunoanalysis Therapy for Steroid-Unresponsive Relapses in Patients with Multiple Sclerosis: Trebst, C.; Bronzlik, P.; Kielstein, J.T.; Schmidt, B.M.W.; Stangel, M. (Hannover)
- Correlation between Leukocyte Membrane Lipid Peroxidation and Expression of Cu/Zn-Superoxide Dismutase mRNA in Hemodialysis Patients: Washio, K. (Tokyo/Saitama); Inagaki, M.; Tsuchi, M.; Morio, Y. (Tokyo); Gotoh, Y. (Tokyo/Saitama); Gotoh, Y. (Tokyo/Saitama); Oguchi, K. (Tokyo)
- Left Ventricular Hypertrophy in Incident Dialysis Patients Randomized to Treatment with Hemofiltration or Hemodialysis: Results from the Profil Study: Alvestrand, A. (Stockholm); Ledebo, I.; Hagerman, I. (Stockholm); Wingren, K. (Lund); Mattsson, E.; Qureshi, A.R.; Gutierrez, A. (Stockholm) for the Profil Study Group Investigators
- Hepatitis C Virus Adversely Affects Quality of Life: Cillo, U.; Amodio, P. (Padua); Ronco, C. (Vicenza); Soni, S.S. (Aurangabad); Zanusi, G.; Minazzato, L.; Salari, A.; Neri, D.; Bombonato, G.; Schiff, S.; Bianco, T. (Padua)
- Impact of Hemodialysis Therapy on Anemia of Chronic Kidney Disease: The Potential Mechanisms: Bowry, S.K. (Bad Homburg); Gatti, E. (Bad Homburg/Krems)
- Effectiveness of β2-Microglobulin Adsorption Column in Treating Dialysis-Related Amyloidosis: A Multicenter Study: Kuragano, T. (Nishinomiya); Inoue, T.; Takatsuki, Yoh, K. (Nishinomiya); Shin, J.; Fujita, Y.; Yoshiya, K. (Kobe); Kim, J.J. (Osaka); Sakai, R. (Kobe); Sekita, K. (Miki); Goto, T.; (Takamatsu); Fukagawa, M.; (Kobe); Nakashita, T. (Nishinomiya)
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