Acute Kidney Injury – From Diagnosis to Care

Editors
Xiaoqiang Ding
Claudio Ronco

Acute kidney injury (AKI) is a serious disorder in which sudden impairment of kidney function occurs secondary to one or more of a variety of underlying conditions and exposures. It is very common in (elderly) ICU patients and associated with very high mortality. Many of those who survive suffer from permanent kidney failure and other long-term morbidities. Renowned experts from around the world have contributed to this new publication, creating a succinct yet complete review of the most controversial aspects of AKI. The topics range from epidemiology and basic science to pathophysiology and clinical issues. It is intended as a concise reference work for physicians and nurses who deal with AKI in clinical nephrology and intensive care wards on a daily basis.

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Aims and Scope
Practical information on hemodialysis, hemofiltration, peritoneal dialysis and plasma filtration 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 comfort 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.

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The 22nd AKI&CRRT Conference will continue to provide comprehensive coverage of the rapidly developing field of Critical Care Nephrology and CRRT. It will highlight 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 2017 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.

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The fifth revised edition of this highly successful book presents the most extensive enhancement since *Using and Understanding Medical Statistics* was first published 30 years ago. Without question, the single greatest change has been the inclusion of source code, together with selected output, for the award-winning, open-source, statistical package known as R. This innovation has enabled the authors to de-emphasize formulae and calculations, and let software do all of the ‘heavy lifting’.

This edition also introduces readers to several graphical statistical tools, such as Q-Q plots to check normality, residual plots for multiple regression models, funnel plots to detect publication bias in a meta-analysis, and Bland-Altman plots for assessing agreement in clinical measurements. New examples that better serve the expository goals have been added to a half-dozen chapters. In addition, there are new sections describing exact confidence bands for the Kaplan-Meier estimator, as well as negative binomial and zero-inflated Poisson regression models for over-dispersed count data.

The end result is not only an excellent introduction to medical statistics, but also an invaluable reference for every discerning reader of medical research literature.

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