

Contents

1 Unveiling Current Controversies in Acute Kidney Injury

Kellum, J.A. (Pittsburgh); Ronco, C. (Vicenza); Vincent, J.-L. (Brussels)

Prerenal Azotemia Syndromes

4 Analysis of the Prerenal Contributions to Acute Kidney Injury

Blantz, R.C.; Singh, P. (San Diego, Calif.)

12 The Role of Tubuloglomerular Feedback in the Pathogenesis of Acute Kidney Injury

Singh, P. (San Diego, Calif.); Okusa, M.D. (Charlottesville, Va.)

22 Can We Identify Prerenal Physiology and Does It Matter?

Payen, D.; Legrand, M. (Paris)

33 Cardiorenal Syndrome: A Complex Series of Combined Heart/Kidney Disorders

Goh, C.Y. (Selangor/Vicenza); Vizzi, G.; De Cal M.; Ronco, C. (San Bortolo/Vicenza)

46 Hepatorenal Syndrome

Angeli, P.; Morando, F.; Cavallin, M.; Piano, S. (Padova)

Dying 'of' or 'with' Acute Kidney Injury

56 Clinical Consequences of Acute Kidney Injury

Hoste, E.A.J.; De Corte, W. (Ghent/Kortrijk)

65 Renal-Pulmonary Crosstalk

Singbartl, K. (Pittsburgh, Pa.)

71 Acute Kidney Injury, Acute Lung Injury and Septic Shock: How Does Mortality Compare?

Vincent, J.-L. (Bruxelles)

78 Sepsis and Acute Kidney Injury Are Bidirectional

Matejovic, M.; Chvojka, J.; Radej, J.; Ledvinova, L.; Karvunidis, T.; Krouzecky, A.; Novak, I. (Plzen)

Pathophysiology of Sepsis-Induced Acute Kidney Injury

- 89 Pathophysiology of Sepsis-Induced Acute Kidney Injury: The Role of Global Renal Blood Flow and Renal Vascular Resistance**
Bouglé, A.; Duranteau, J. (Le Kremlin Bicêtre)
- 98 Septic Acute Kidney Injury: The Glomerular Arterioles**
Bellomo, R.; Wan, L.; Langenberg, C.; Ishikawa, K.; May, C.N. (Melbourne)
- 108 Kidney Endothelial Dysfunction: Ischemia, Localized Infections and Sepsis**
Molitoris, B.A.; Sandoval, R.M. (Indianapolis, Ind.)
- 119 The Pathogenesis of Acute Kidney Injury and the Toxic Triangle of Oxygen, Reactive Oxygen Species and Nitric Oxide**
Aksu, U. (Amsterdam/Istanbul); Demirci, C. (Istanbul); Ince, C. (Amsterdam/Rotterdam)
- 129 Pathogenesis of Acute Kidney Injury: Effects of Remote Tissue Damage on the Kidney**
Wen, X.; Peng, Z.; Kellum, J.A. (Pittsburgh, Pa.)
- 138 A Role for Oxidative Stress**
Heyman, S.N. (Jerusalem); Rosen, S. (Boston, Mass.); Rosenberger, C. (Berlin)
- 149 Pathophysiology of Acute Kidney Injury to Chronic Kidney Disease: Maladaptive Repair**
Yang, L. (Boston, Mass./Beijing); Humphreys, B.D.; Bonventre, J.V. (Boston, Mass./Cambridge, Mass.)
- Prevention/Treatment/Rehabilitation: What's on the Horizon?**
- 156 Models of Preventable Disease: Contrast-Induced Nephropathy and Cardiac Surgery-Associated Acute Kidney Injury**
Shaw, A. (Durham, N.C.)
- 163 Acute Kidney Injury in Children: Prevention, Treatment and Rehabilitation**
Goldstein, S.L. (Cincinnati, Ohio)
- 173 Delayed Kidney Allograft Function – What Does It Tell Us about Acute Kidney Injury?**
Abu Jawdeh, B.G.; Rabb, H. (Baltimore, Md.)
- 182 Acute Kidney Injury Leading to Chronic Kidney Disease and Long-Term Outcomes of Acute Kidney Injury: The Best Opportunity to Mitigate Acute Kidney Injury?**
Chawla, L.S. (Washington DC)
- 191 Role of Microvesicles in Acute Kidney Injury**
Camussi, G.; Cantaluppi, V.; Deregibus, M.C. (Torino); Gatti, E. (Bad Homburg/Krems); Tetta, C. (Bad Homburg/Krems/Palazzo Pignano)

Renal Support

- 200 Controversies in Acute Kidney Injury: Effects of Fluid Overload on Outcome**
Mehta, R.L. (San Diego, Calif.); Bouchard, J. (Montréal)
- 212 Does Renal Replacement Therapy Improve Outcome? Controversies in Acute Kidney Injury**
Murray, P. (Dublin); Udani, S.; Koyner, J.L. (Chicago, Ill.)
- 222 Why Did Dose Trials Fail?**
Joannidis, M. (Innsbruck)
- 232 Renal Replacement Therapy: When to Start**
Bagshaw, S.M. (Edmonton, Alta.); Wald, R. (Toronto, Ont.)
- 242 Renal Replacement Therapy for Acute Renal Injury: We Need Better Therapy**
Demirjian, S.G.; Paganini, E.P. (Cleveland, Ohio)
- 252 Author Index**
- 254 Subject Index**