

# Content

A. Acute respiratory failure	1
Noninvasive ventilation in hypoxemic respiratory insufficiency _____ <i>Gabriela Ferreyra and V. Marco Ranieri</i>	3
Weaning: Protocols vs. clinically driven _____ <i>Rolf Dembinski and Ralf Kühlen</i>	11
Pressure-volume curves: Useful in clinical practice _____ <i>Massimo Borelli, Lluís Blanch and Umberto Lucangelo</i>	19
Replacing or restricting fluids: Timing, dosing and choosing the type of fluid in patients with or at risk for ALI/ARDS _____ <i>Ronald J. Trof and A. B. Johan Groeneveld</i>	29
Spontaneous versus mechanical ventilation _____ <i>Christian Putensen, Thomas Muders, Stefan Kreyer and Hermann Wrigge</i>	37
The role of tracheostomy in ventilatory care _____ <i>Hans Flaatten</i>	47
B. Acute circulatory failure	55
Controversies in cardiac output monitoring _____ <i>Justin Woods and Andrew Rhodes</i>	57
Crystalloids versus colloids versus albumin: Where do we stand? _____ <i>Tobias M. Merz and Simon Finfer</i>	63
ScvO <sub>2</sub> as a marker for resuscitation in intensive care _____ <i>Jean-Louis Vincent</i>	77
Calcium sensitisers versus dobutamine in acute heart failure _____ <i>Miguel Tavares, Etienne Gayat, Brice Lortat Jacob and Alexandre Mebazaa</i>	83
Macro vs. micro targets for haemodynamic support _____ <i>Daniel De Backer, Gustavo Ospina-Tascon and Ana Paula Neves</i>	103
Right heart failure determines outcome _____ <i>Jan Poelaert and Vincent Umbrain</i>	111
Do we really need SPV/PPV to detect low filling status? _____ <i>Jacques-André Romand and Karim Bendjelid</i>	119

<b>Vasopressors in the patient with shock</b> _____	<b>127</b>
<i>Gwenhaël Colin, Virginie Maxime and Djillali Annane</i>	
<b>Controversies in coronary care</b> _____	<b>133</b>
<i>Elias Knobel, Marcos Knobel, Antonio Eduardo Pesaro and José Marconi A. Sousa</i>	
<b>C. Acute kidney injury</b>	<b>143</b>
<b>Renal replacement therapies: When, how, and how much?</b> _____	<b>145</b>
<i>Kai Singbartl and John A. Kellum</i>	
<b>Anticoagulation for renal replacement therapy: Heparin or citrate</b> _____	<b>153</b>
<i>Heleen M. Oudemans-van Straaten</i>	
<b>D. Sepsis and infection</b>	<b>163</b>
<b>Diagnosis of Ventilator-associated Pneumonia</b> _____	<b>165</b>
<i>Jean Chastre, Charles-Edouard Luyt, Alain Combes and Jean-Louis Trouillet</i>	
<b>Antibiotic combination vs. monotherapy in critically ill patients with pneumonia</b> _____	<b>175</b>
<i>Thiago Lisboa, Alejandro Rodriguez and Jordi Rello</i>	
<b>Do antibiotic protocols impact on resistance?</b> _____	<b>183</b>
<i>Christian Brun-Buisson</i>	
<b>The activated protein C controversy</b> _____	<b>193</b>
<i>François Philippart, Cédric Bruel, Olfa Hamzaoui, Benoît Misset and Jean Carlet</i>	
<b>Corticosteroids in septic shock</b> _____	<b>205</b>
<i>Charles L. Sprung and Djillali Annane</i>	
<b>Controversies in goal-directed therapy: Venous saturations and lactate</b> _____	<b>211</b>
<i>Tim C. Jansen and Jan Bakker</i>	
<b>Starting and stopping antibiotic therapy</b> _____	<b>219</b>
<i>Marc Leone and Claude Martin</i>	
<b>MRSA control</b> _____	<b>227</b>
<i>Katharina Kranzer and Geoff Bellingan</i>	

E. Neuro-intensive care	237
Does ICP monitoring improve outcome after traumatic brain injury? _____	239
<i>Thomas Geeraerts and David K. Menon</i>	
What care should be provided for poor grade subarachnoid haemorrhage patients? _____	247
<i>Maria Giulia Abate and Giuseppe Citerio</i>	
Induced hypothermia to treat neurological injuries _____	257
<i>Kees H. Polderman</i>	
Can we increase/lengthen the time window from 3–6 hours for thrombolysis after stroke? _____	267
<i>Malcolm R. Macleod</i>	
Neuroprotective ventilation _____	275
<i>Odin Barbosa da Silva, Gustavo Trindade Henriques Filho and Jorge Luiz da Rocha Paranhos</i>	
F. Acute bleeding	285
Monitoring the coagulation _____	287
<i>Rubens C. Costa Filho</i>	
Management of refractory bleeding _____	311
<i>Oliver Grottke, Jörg Brokmann and Rolf Rossaint</i>	
G. Organisational issues	321
Optimisation of patient process and workflow _____	323
<i>Hans Ulrich Rothen</i>	
Reducing the number of adverse events in intensive care units _____	337
<i>Andreas Valentin</i>	
Early discharge from the ICU is safe _____	343
<i>Michael Hiesmayr and Daniel Schmidlin</i>	
Implementation of surveillance networks _____	353
<i>Mercedes Palomar, Francisco Álvarez-Lerma, Pedro Olaechea and Ingrid Morales</i>	
Should hospitals have a medical emergency team? _____	363
<i>Richard J. Price and Brian H. Cuthbertson</i>	
E-learning _____	373
<i>Antonios Liolios</i>	

High acuity nurse patient ratio – is it cost-effective? _____	393
<i>Dominique M. Vandijck and Stijn I. Blot</i>	
The role of specialist (neurological critical care) units _____	407
<i>Maria Jose Garcia Monge and Peter J.D. Andrews</i>	
Building and using outcome prediction models: Should we be lumpers or splitters? _____	415
<i>Rui P. Moreno and Susana Afonso</i>	
Specialty of intensive care: Primary specialty vs. supraspecialty _____	421
<i>José-María Domínguez-Roldán</i>	
<b>H. Surgical intensive care and trauma</b> _____	<b>431</b>
Fast track after cardiac surgery _____	433
<i>Luiz F. Poli-de-Figueiredo, Alexandre Biasi Cavalcanti, Filomena R.B. Gomes Galas and Ludhmila Abrahão Hajjar</i>	
Fluid: Replace or restrict? _____	443
<i>Bernard P. Cholley</i>	
Bedside surgery in the ICU _____	449
<i>F. Oliveira Martins, Ana Luisa Jardim and Pedro Amado</i>	
<b>I. Adjunctive issues</b> _____	<b>461</b>
Technology assessment and procurement: ‘Monitoring the monitor’ _____	463
<i>Max Jonas, Carl Waldmann and Michael Imhoff</i>	
Controversies in intensive care sedation: Continuous infusions in awake patients and end-of-life sedation _____	473
<i>David Crippen</i>	
Tight glucose control: Should we target normoglycemia or an intermediate level? _____	481
<i>Jean-Charles Preiser and Philippe Devos</i>	
Goals for nutrition support in the ICU _____	487
<i>Jan Wernerman</i>	
Pain and stress in the ICU: All in the mind? _____	493
<i>Richard D. Griffiths and Christina Jones</i>	
Controversies on donation after cardiac death _____	503
<i>Rui Maio, Jorge Cruz and Jose Fernando Teixeira</i>	
Is there a role for extracorporeal support in hepatic failure? _____	513
<i>Ludwig Kramer, Crispiana Cozowicz and Reinhard Kitzberger</i>	