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Nota di contenuto	Part I. Respiratory Issues -- Physiology of respiratory drive in ICU patients: implications for diagnosis and treatment.-Monitoring patient respiratory effort during mechanical ventilation: lung and diaphragm-protective ventilation -- Ten reasons to use mechanical power to guide ventilator settings in patients without ARDS -- Part II. ARDS -- Extracellular vesicles in ARDS: new insights into pathogenesis with novel clinical applications.-ARDS subphenotypes: understanding a heterogeneous syndrome -- Assessment of VILI risk during spontaneous breathing and assisted mechanical ventilation -- Part III. Biomarkers -- The future of ARDS biomarkers: where are the gaps in implementation of precision medicine? -- Utility of inflammatory biomarkers for predicting organ failure and outcomes in cardiac arrest patients -- Troponin elevations after cardiac surgery: just 'troponitis'?

-- Biomarkers of sepsis during continuous renal replacement therapy: have we found the appropriate biomarker to use in this situation? -- Part IV. Fluids -- Do intensivists need to care about the revised Starling principle? -- Right ventricular dysfunction and fluid administration in critically ill patients.-Intravenous fluids: don't drown in confusion! -- Part V. Hemodynamic Management -- Update in right ventricular hemodynamic, echocardiographic and extra-cardiac ultrasound monitoring -- Management of hypotension: implications for non-cardiac surgery and the intensive care -- Heterogeneity of cardiovascular response to standardized sepsis resuscitation -- Part VI. The Microcirculation -- Clinical relevance of the endothelial glycocalyx in critically ill patients -- Customized monitoring of the microcirculation in patients with a left ventricular assist device -- Monitoring of the sublingual microcirculation at the bedside: yes, it is possible and useful -- Microcirculation in patients with sepsis: from physiology to interventions -- Part VII. Sepsis -- Macrophage activation syndrome in sepsis: does it exist and how to recognize it? -- Is T cell exhaustion a treatable trait in sepsis? -- Cell-free hemoglobin: a new therapeutic target in sepsis? -- Therapeutic potential of the gut microbiota in the management of sepsis -- Part VIII. Bleeding & Transfusion -- Blood transfusion practice during extracorporeal membrane oxygenation: rationale and modern approaches to management -- The use of frozen platelets for the treatment of bleeding -- Viscoelastic assay-guided hemostatic therapy in perioperative and critical care.-Extracorporeal filter and circuit patency: a personalized approach to anticoagulation -- Part IX. Prehospital Intervention -- Prehospital resuscitation with low titer O+ whole blood by civilian EMS teams: rationale and evolving strategies for use -- Mobile stroke units: taking the emergency room to the patient -- Part X. Trauma -- Evaluating quality in trauma systems -- Vasopressors for post-traumatic hemorrhagic shock: friends or foes? -- Extracranial tsunami after traumatic brain injury -- Part XI. Neurological Aspects -- Ten false beliefs about mechanical ventilation in brain injured patients -- Manifestations of critical illness brain injury -- Essential non-invasive multimodality neuromonitoring for the critically ill patient -- Part XII. Organ Donation -- Brain death after cardiac arrest: pathophysiology, prevalence and potential for organ donation -- Organ recovery procedure in donation after controlled circulatory death with normothermic regional perfusion: state of the art -- Part XIII. Oncology -- Admitting adult critically ill patients with hematological malignancies to the ICU: a Sisyphean task or work in progress? -- Onco-nephrology: acute kidney injury in critically ill cancer patients -- Part XIV. Severe Complications -- A clinician's guide to management of intraabdominal hypertension and abdominal compartment syndrome in critically ill patients -- Update on the management of iatrogenic gas embolism -- Alcohol withdrawal syndrome in the ICU: preventing rather than treating? -- Part XV. Prolonged Critical Illness -- Muscle dysfunction in critically ill children -- Respiratory muscle rehabilitation in patients with prolonged mechanical ventilation: a targeted approach -- Post-intensive care syndrome and chronic critical illness: a tale of two syndromes -- Part XVI. Organizational and Ethical Aspects -- Sepsis as organ and health system failure -- Burnout and joy in the profession of critical care medicine -- Advance directives in the United Kingdom: ethical, legal and practical considerations -- Part XVII. Future Aspects -- Mobile devices for hemodynamic monitoring -- Artificial intelligence in the intensive care unit -- Index.

research and practice in one comprehensive reference book. The chapters are written by well recognized experts in these fields. The book is addressed to everyone involved in internal medicine, anesthesia, surgery, pediatrics, intensive care and emergency medicine.
