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Nota di contenuto	<p>Part I Fundamentals of Fluid Management -- A History of Fluid Management -- The Revised Starling Principle and Its Relevance to Perioperative Fluid Management -- The Functions of Endothelial Glycocalyx and Their Effects on Patient Outcomes During the Perioperative Period. A Review of Current Methods to Evaluate Structure-Function Relations in the Glycocalyx in Both Basic Research and Clinical Settings -- Techniques for Goal-Directed Fluid Management -- The Perioperative Use of Echocardiography for Fluid Management -- Microcirculatory Blood Flow as a New Tool for Perioperative Fluid Management -- Mean Systemic Filling Pressure Is an Old Concept but a New Tool for Fluid Management -- Restricted or Liberal Fluid Therapy -- The Perioperative Use of Albumin -- The Use of Albumin in Intensive Care Unit -- The Dilemma for Using Hydroxyethyl Starch Solutions for Perioperative Fluid Management -- Balanced Versus Unbalanced Salt Solutions in the Perioperative Period -- Positive Fluid Balance and Patients' Outcomes -- Fluid Management and Its Role in Enhanced Recovery -- Venous Circulation: a New Concept in Fluid Management -- Pathophysiology of Fluid Management in Neonate and Pediatric Patient -- Zero Fluid Balance versus Liberal Fluid Management. pro and Con -- Pathophysiology of perioperative Fluid Management from Surgeon Point of View -- Part II</p> <p>FluidManagement Case Scenarios -- Case Scenario for Perioperative Fluid Management in Major Orthopedic Surgery -- Case Scenario for</p>

Perioperative Fluid Management for Major Colorectal Surgery -- Case Scenario for Fluid Therapy in Septic Shock -- Case Scenario for Fluid Management in Liver Resection -- Case Scenario for Fluid Management During Major Spine Surgery -- Case Scenario for Fluid Management After Subarachnoid Hemorrhage in the Neuro- intensive Care Unit -- Case Scenario for Fluid Management during Open Heart Surgery -- Case Scenario for Fluid Management during Thoracic Surgery -- Case Scenario for Fluid Management during Major Vascular Surgery -- Case Scenario for Fluid Management for Patients in Cardiothoracic Intensive Care.

Sommario/riassunto

This revised and expanded second edition presents the most recent evidence-based facts on perioperative fluid management and discusses fluid management from basic sciences to clinical applications and the patients' outcomes. Recent advances in understanding the Revised Starling principle with new concepts in tissue perfusion and the most recent techniques of perioperative goal directed fluid management are described. The endothelial glycocalyx functions and the influence of fluid management on its integrity are covered in detail; moreover, the techniques for its protection are also discussed. The dilemma of perioperative use of hydroxyethyl starch solutions and the resurgence of interest in using human albumin as an alternative colloid is explored. The problems of using unbuffered solutions during the perioperative period and comparison between restrictive versus liberal fluid management are discussed in full. Lastly, case scenarios for every possible clinical situation describe in full the most up-to-date fluid management for the corresponding clinical problem. Perioperative Fluid Management, Second Edition is of interest to anesthesiologists and also intensivists.