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Nota di contenuto	Intro -- Foreword -- Introduction -- Introduction -- Complications of Dialysis or Complications in Dialysis -- The Dialysis Procedure -- Major Complications -- Home Dialysis -- Frailty, Muscle Wasting, and Falls -- Disaster Management -- Patient Safety -- Conclusion -- Acknowledgments -- Contents -- Contributors -- 1: The Hemodialysis Procedure -- Introduction -- Most Common Contaminants -- Aluminum -- Chlorine and Chloramine -- Copper, Brass, Galvanized Metal -- Fluoride -- Lead -- Nitrates, Sulfates, Zinc, and Trace Elements -- Water Treatment Equipment -- Sediment Filter -- Cartridge Filters -- Water Softeners -- Carbon Filters -- Reverse Osmosis (RO) -- Microbes and Endotoxins -- Dialysis Fluids -- Hazards in Dialysis-and Their Protection -- Hazards Related to Setup, Calibration, and Maintenance -- Conductivity -- Air Embolism -- Temperature -- Fluid Protection -- Disconnection -- Batch and Proportioning Systems -- Prescription-Related -- Acid-Base -- Temperature -- Fluid Removal -- Potassium Prescriptions -- Inadequate Dialysis -- Conclusion -- References -- 2: Cardiovascular and Hemodynamic Complications in Dialysis -- Introduction -- Blood Pressure and Dialysis Patients -- Pathophysiology of Hypertension in Dialysis Patients -- How and When to Measure Blood Pressure in Dialysis Patients for Diagnosis -- Target Blood Pressure in Dialysis Patients -- Treating Hypertension in Dialysis Patients -- RAAS Blockers -- -Blockers -- Long-Acting Dihydropyridine Calcium Channel

Blockers (CCB) -- Mineralocorticoids Receptor Antagonists (MRA) -- Hypotension During Hemodialysis Session -- How to Treat Hypotension in Hemodialysis? -- How to Prevent Hypotension in Hemodialysis? -- Left Ventricular Hypertrophy (LVH) in Dialysis Patients -- LVH Definition -- Natural History of LVH in ESKD -- Mechanisms of LVH in ESKD Patients -- Diagnosis of LVH. Prevention and Treatment of LVH -- Heart Failure in ESKD Patients -- Acute Myocardial Infarction in Dialysis Patients -- Stroke in Dialysis Patients -- Conclusion -- References -- 3: Dementia, Dwindles, Depression, Nonadherence, and Symptom Burden in End-Stage Kidney Disease -- Introduction -- Cognitive Dysfunction in End-Stage Renal Disease -- Mechanisms that Lead to Cognitive Decline -- Screening for Cognitive Decline -- Approach to Management of Cognitive Decline -- Kidney Supportive Care -- Advanced Care Planning -- Withdrawal of Dialysis -- Psychological Factors that Impact ESRD Patients -- Incidence and Prevalence of Psychological Disorders -- Management of Depression in ESKD -- Symptom Burden in End-Stage Kidney Disease -- Chronic Pain -- Pruritus -- Restless Legs Syndrome, Sleep Disturbance, and Muscle Cramps -- Fatigue -- Conclusion -- References -- 4: Hemodialysis Infectious Complications -- Introduction -- Best Practices and Standard Precautions -- Hand Hygiene -- Environmental Cleaning and Disinfection -- Medication Preparation and Injection Safety -- Bacterial Infections -- Vascular Access Infections (VAIs) -- Case Presentation -- Introduction, Clinical Presentation, and Complications -- Pathogenesis -- Surveillance -- Epidemiology -- Evidence-Based Strategies for Preventing BSIs in Dialysis Facilities -- Catheter Devices -- Antimicrobial Locks -- Catheter Dressings -- Preventing Permanent Vascular Access (AVG/AVF) Infections -- Strategies to Avoid Catheters and Promote Permanent Vascular Access -- Antimicrobial Resistance -- Antimicrobial Stewardship -- Viral Bloodborne Infections -- Hepatitis B -- Epidemiology -- Screening and Diagnostic Tests -- Prevention of HBV Transmission -- Hepatitis C -- Epidemiology -- Screening and Diagnostic Tests -- Prevention of HCV Transmission -- Managing New HCV Infection -- Hepatitis D. Human Immunodeficiency Virus (HIV) -- Epidemiology -- Screening -- Prevention of HIV Transmission -- Infection Prevention-Water Systems -- Potential for Microbial Contamination -- Water Treatment -- Dialysis Fluids (Dialysate) -- Distribution Systems -- Machines -- Waste -- Monitoring Water and Dialysis Fluids -- Disinfecting System and Machines -- Respiratory Infections -- Conclusion and Future Direction -- References -- 5: Arteriovenous Access and Catheter Complications -- Complications of Hemodialysis Catheters -- Suboptimal Flow -- Infection -- Central Venous Stenoses -- Complications of Arteriovenous Fistulas and Grafts -- Thrombosis -- Failure of Maturation -- Infection -- Aneurysmal Degeneration -- Access-Related Limb Ischemia -- Excessive Flow -- Unusable Access -- Conclusion -- References -- 6: Anemia in Dialysis Patients -- Introduction -- Risks and Complications of Anemia -- Targets -- Treatment of Anemia in Dialysis Patients -- Novel Therapies -- Hypoxia-Inducible Factor Prolyl Hydroxylase Inhibitors (HIF-PHIs) -- Direct Analogues of rEPO -- Other Therapies -- Anemia and Special Conditions in Dialysis Patients -- Anemia and Surgical Clearance -- Sickle Cell Disease in Dialysis Patients -- Myelodysplastic Syndrome in Dialysis Patients -- Anemia and Malignancies in Dialysis Patients -- Acute Hemolysis -- Conclusion -- References -- 7: Chronic Kidney Disease-Bone and Mineral Disease -- Introduction -- Parathyroid Hormone -- Calcium -- Phosphorus -- Fibroblast Growth Factor 23 --

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-- Gait and Mobility Disorders -- Sarcopenia and Falls -- Volume-Related Disorders -- Arthritis and Neuropathy -- Chronic Illness (Cardiovascular Disease, Hypertension, Diabetes) -- Prevention of Falls -- Preventing Falls Related to Medications -- Falls and Cognitive Decline -- Patients with Chronic Illnesses.
Preserving Muscle and Bone Loss.
