1. Record Nr. UNINA9910132296903321

Titolo	Equine fluid therapy / / edited by C. Langdon Fielding, K. Gary Magdesian ; contributors, Escolastico Aguilera-Tejero [and nineteen others]
Pubbl/distr/stampa	Chichester, England : , : Wiley Blackwell, , 2015 ©2015
ISBN	1-118-92817-2 1-118-92818-0 1-118-92819-9
Descrizione fisica	1 online resource (1387 p.)
Disciplina	636.1/08963992
Soggetti	Horses - Physiology Veterinary fluid therapy
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index at the end of each chapters.
Nota di contenuto	Cover; Dedication page; Title page; Copyright page; List of contributors; Preface; Section 1: Physiology of fluids, electrolytes, and acid-base; Chapter 1: Body water physiology; Introduction; Physiologic fluid spaces; Concepts in fluid balance; Osmolality; Effective osmolality (tonicity); Colloid osmotic pressure; Starling's law; Fluid movement out of the vascular space; Starling's law and fluid therapy; Summary of tonicity and colloid osmotic pressure; References; Chapter 2: Sodium and water homeostasis and derangements; Introduction; Sodium and water intake; Sodium and water balance Serum sodium concentrationIntroduction to hyponatremia and hypernatremia; Hyponatremia; Clinical effects of hyponatremia; Treatment of hyponatremia; Hypernatremia; Unique features of foals; References; Chapter 3: Potassium homeostasis and derangements; Introduction; Potassium intake; Potassium excretion; Internal potassium balance: extracellular-intracellular shifting; Hypokalemia; Hyperkalemia; Selected tests for potassium disorders; Foals and potassium balance; References; Chapter 4: Chloride homeostasis and derangements; Introduction; Chloride regulation in the gastrointestinal

system
Chloride regulation in the renal systemMeasurement of chloride; Hypochloremia; Hyperchloremia; Foals; References; Chapter 5: Calcium homeostasis and derangements; Physiology of calcium homeostasis; Measurement of calcium and related parameters; Hypercalcemia; Hypocalcemia; References; Chapter 6: Magnesium homeostasis and derangements; Chemistry; Distribution of magnesium within the body; Magnesium physiology; Gastrointestinal absorption of magnesium; Renal excretion and reabsorption of magnesium; Magnesium requirements of horses; Magnesium homeostasis
Pathophysiology of hypomagnesemia and inflammationHypomagnesemic equine patients: incidence and outcome; Association of hypomagnesemia with hypokalemia; Association of hypomagnesemia with hypocalcemia; Association of magnesium and endotoxemia; Association of magnesium and insulin resistance; Experimental manipulation of dietary magnesium in horses; Clinical signs and consequences of magnesium deficiency; Brain injury and magnesium; Diagnostic testing; Treatment for hypomagnesemia; Hypermagnesemia; References; Chapter 7: Phosphorus homeostasis and derangements; Introduction
Phosphorus distributionPhosphate functions; Phosphate requirements, absorption, and excretion; Phosphate homeostasis; Phosphate disorders; Hypophosphatemia; Hyperphosphatemia; References; Chapter 8: Acid-base homeostasis and derangements; Physiology of acid-base balance; Interpretation of the acid-base balance; Metabolic acidosis; Metabolic alkalosis; Respiratory alkalosis; Mixed acid-base disorders; Summary; References; Section 2: Fluid therapy; Chapter 9: Preparation, supplies, and catheterization; Introduction; Intravenous catheter selection; Location for catheter placement
Patient characteristics affecting catheter selection

Sommario/riassunto

"Equine Fluid Therapy is the first reference to draw equine-specific fluid therapy information together into a single, comprehensive resource. Offering current information unique to horses on the research and practice of fluid, electrolyte, and acid-base disorders, the book is designed to be clinically oriented yet thorough, providing detailed strategies tailored to equine practice. With information ranging from physiology and acid-base balance to fluid therapy for specific conditions, Equine Fluid Therapy covers fluid treatments in both adult horses and foals, highlighting the unique physiologic features, conditions, and differences in foals.Well-illustrated throughout, the book begins with an overview of the physiology of fluids, electrolytes, and acid-base, then moves into practical information including equipment, monitoring techniques, fluid choices, and potential complications. A final section offers chapters on blood transfusions, colloids, parenteral nutrition, and hemodynamic monitoring. Equine Fluid Therapy is an essential reference for equine practitioners, specialists, and researchers"--Provided by publisher.