

OVERVIEW OF RESUSCITATIVE FLUID THERAPY

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Fluid Type	Indications	Dosage		Notes
		Dog	Cat	
CRYSTALLOID FLUIDS				
Isotonic crystalloids	Patients with fluid-responsive shock; commonly used as initial fluid therapy	90 mL/kg Administer 1/4 to 1/3 of dose; then reassess CV parameters prior to further administration	50 mL/kg	<ul style="list-style-type: none"> • Examples: 0.9% sodium chloride, lactated Ringer's solution, Normosol-R,* & Plasma-Lyte-A† • Avoid overzealous use to prevent volume overload and hemodilution of blood constituents
Hypertonic saline	Patients with traumatic brain injury or when rapid intravascular volume expansion is needed	4–7 mL/kg Administer over ~ 10 min	3–4 mL/kg	<ul style="list-style-type: none"> • To prolong effect, a hypertonic saline/synthetic colloid mixture can be administered • Contraindicated in patients that are dehydrated, hyperosmolar, or hypokalemic
SYNTHETIC COLLOIDS				
Hydroxyethyl starches	Patients with low colloid osmotic pressure, increased vascular permeability, or when rapid intravascular volume expansion is needed	20 mL/kg Administer 1/4 to 1/3 of dose; then reassess CV parameters prior to further administration	10 mL/kg	<ul style="list-style-type: none"> • Of the synthetic colloids available, hydroxyethyl starches are the ones most commonly used in veterinary patients • Use may lead to fluid overload, hemodilution, and coagulation abnormalities
BLOOD PRODUCTS				
Packed red blood cells	Patients with acute anemia & persistent CV instability	10–15 mL/kg Infused over 1–4 H to monitor for adverse reactions (if possible)		All blood products: <ul style="list-style-type: none"> • Blood-typing should be performed before any blood product transfusion. A cross match is recommended if animal has previously received transfusion. • Adverse events include immunologic reactions, electrolyte imbalances, & transmission of disease
Fresh frozen plasma	Patients with prolonged coagulation times	10–15 mL/kg Infused over 1–4 H to monitor for adverse reactions (if possible)		
Fresh whole blood	Patients with TCPE, TCPA-induced bleeding, or massive blood loss/surgical candidates with severe TCPE	20–25 mL/kg Infused over 1–4 H to monitor for adverse reactions (if possible)		

CV = cardiovascular; TCPA = thrombocytopenia; TCPE = thrombocytopenia.
 * Hospira.com
 † Baxter.com

This table can be downloaded at todaysveterinarypractice.com and printed for use in your clinic.

Fluid Restrictions Guide

Mark Steyvers



Fluid Restrictions Guide:

Fluid Restrictions Guide Book Review: Unveiling the Magic of Language

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Table of Contents Fluid Restrictions Guide

1. Understanding the eBook Fluid Restrictions Guide
 - The Rise of Digital Reading Fluid Restrictions Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Fluid Restrictions Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Fluid Restrictions Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Fluid Restrictions Guide
 - Personalized Recommendations
 - Fluid Restrictions Guide User Reviews and Ratings
 - Fluid Restrictions Guide and Bestseller Lists

5. Accessing Fluid Restrictions Guide Free and Paid eBooks
 - Fluid Restrictions Guide Public Domain eBooks
 - Fluid Restrictions Guide eBook Subscription Services
 - Fluid Restrictions Guide Budget-Friendly Options
6. Navigating Fluid Restrictions Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Fluid Restrictions Guide Compatibility with Devices
 - Fluid Restrictions Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Fluid Restrictions Guide
 - Highlighting and Note-Taking Fluid Restrictions Guide
 - Interactive Elements Fluid Restrictions Guide
8. Staying Engaged with Fluid Restrictions Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Fluid Restrictions Guide
9. Balancing eBooks and Physical Books Fluid Restrictions Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Fluid Restrictions Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Fluid Restrictions Guide
 - Setting Reading Goals Fluid Restrictions Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Fluid Restrictions Guide
 - Fact-Checking eBook Content of Fluid Restrictions Guide
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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