



Nutritional support of critically ill patients



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Dr. Chan qualified as a veterinarian at the School of Veterinary Medicine at Cornell University in 1998. He then completed a small animal internship at Animal Medical Center in New York City. This was followed by a dual residency in Emergency and Critical Care and Clinical Nutrition at the Cummings School of Veterinary Medicine at Tufts University. He was Board Certified by the American College of Veterinary Emergency and Critical Care in 2004, and by the American College of Veterinary Nutrition in 2005. He now serves as a lecturer in Emergency and Critical Care and as a Clinical Nutritionist at The Royal Veterinary College in England. Dr. Chan's main interests are in critical care nutrition, glucose metabolism, coagulation, and sepsis.

KEY POINTS

- Nutritional support is increasingly recognized as an important aspect of management of critically ill patients
- The emphasis of nutritional support of critically ill patients centers on maintaining body condition and nutritional status, and not necessarily achieving weight gain
- As critically ill patients already have a high risk for developing complications, considerable efforts should be devoted to minimize nutrition-related morbidity
- Current emphasis in the provision of calories to critically ill animals is to start with the animal's resting energy requirements rather than overestimate calories by use of illness factors
- Whenever possible, the use of the enteral route is preferred to the parenteral route for nutritional support

Introduction

In recent years, great advances have been made in the field of critical care nutrition. While nutrition was once regarded as a low priority supportive measure, it is increasingly becoming recognized as an important therapeutic intervention in the care of critically ill

patients. In human intensive care units, nutrition is not only a means of supportive therapy, but a means to modulate even severe diseases. While these developing applications are still years away from being standards in veterinary medicine, they highlight the possibilities of critical care nutrition in veterinary medicine. The current status of veterinary critical care nutrition and the major focus of this article involve careful selection of the patients most likely to benefit from nutritional support, deciding when to intervene, and optimizing nutritional support to individual patients.

Rationale for nutritional support in critical illness

Critical illness induces unique metabolic changes in animals that put them at high risk for malnutrition and its deleterious effects. An important distinction in the body's response to inadequate nutritional intake occurs in disease (stressed starvation) compared to a healthy state (simple starvation). During fasting in the healthy state, utilization of glycogen stores is the primary source of energy. However, glycogen stores are quickly depleted, especially in strict carnivores such as the cat, and this leads to the initial mobilization of amino acids from muscle stores. Within days, there is a metabolic shift towards the preferential use of stored fat deposits, sparing catabolic effects on lean muscle tissue. In diseased states, the inflammatory response triggers

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Nutrition Support for the Critically Ill Patient Ph.D., Gail A. Cresci, 2016-04-19 Nutrition Support for the Critically Ill Patient A Guide to Practice provides state of the art practices and key principles of nutrition support through evidence based medicine Following a review of the metabolic alterations that occur during critical illness this book discusses the nutrient requirements of critically ill patients as well

Nutrition Support for the Critically Ill David S. Seres, Charles W. Van Way, III, 2015-11-24 This text provides a review of the current knowledge in both the mechanics of nourishing the critically ill and the metabolic and immunological roles nutrients play In depth chapters discuss disease related malnutrition as distinct from under or over nourishment and the impact of nourishment in either form of malnutrition The appropriate timing and indications for nutrition support are provided as well as advanced techniques for improving practice A broad range of issues related to interdisciplinary practice are addressed Useful for a wide variety of practitioners including ICU doctors hospitalists and nutrition support physicians Nutrition Support of the Critically Ill provides practical bedside advice and simplified recommendations for practice

Nutrition Support for the Critically Ill Patient Gail A. Cresci, Ph.D., 2015-04-23 Completely revised and updated Nutrition Support for the Critically Ill Patient A Guide to Practice Second Edition presents an unbiased evidence based examination of critical nutrition across the life cycle Taking a multidisciplinary approach each chapter has been carefully designed to provide a comprehensive review of the literature and a detailed exploration of the practical application of this information With chapters written by experts you get the most pertinent and current knowledge available bolstered by tables figures and case studies that make the information accessible New Coverage in the Second Edition Gut microbiota support Short bowel syndrome Chronic critically ill phenomenon Professional nutrition practice guidelines and protocols Ethical considerations Quality and performance improvement Many challenges remain when providing optimal nutrition to all patients under all conditions at all times Divided into eight sections the book covers metabolic issues nutrients for critically ill patients delivery of nutrition therapy nutrition therapy throughout the life cycle special interest groups specific organ system failure general systemic failures and professional issues in the field It keeps you informed and aware of the continuous accrual of knowledge needed to craft and provide optimal nutrition therapy for the critically ill patient

Nutritional Support of the Seriously Ill Patient R. S. Winters, 1983

Evidence-Based Guidelines for Nutritional Support of the Critically Ill: Results of a Bi-National Guideline Development Conference Gordon S. Doig, 2005-09-01 The purpose of this guidelines initiative was to develop or update and validate an evidence based feeding guideline for critically ill patients A widely accepted methodology was adopted which requires the identification of previously developed and validated evidence based guidelines The process then specifies a methodology for identifying and assimilating evidence that may be used to change or update the previously validated guidelines An extensive literature search was conducted closeout date April 2003 Four hundred and sixty five full text papers were retrieved and

reviewed The only evidence based guideline for feeding critically ill patients that had been validated in an RCT was identified Martin et al 2004 When evaluated in a cluster randomised trial including 499 patients from 14 hospitals the adoption of this guideline resulted in a 10% reduction in mortality p 0 058 and an average decrease in hospital stay of 10 days p 0 003 The process and evidence used to support and update this guideline is presented in this document The final ratified guideline was evaluated in a 27 hospital cluster randomised trial conducted in Australia and New Zealand

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Critical Care Nephrology Claudio Ronco,Rinaldo Bellomo,John A. Kellum,2009-01-01 This 2nd edition of Critical care nephrology continues to provide comprehensive coverage of the latest advances in critical care procedures for the adult or pediatric patient with renal diseases or disorders It presents a common language and standardized guidelines to help multi disciplinary physicians caring for the critically ill communicate more effectively

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