## ENTERAL NUTRITION by Nick Mark MD

#### DBJECTIVES:

- Adequate nutrition is essential to maintain normal physiologic functions
- Enteric feeding also helps maintain an important immunological barrier
- 30-50% of ICU gts are malnourished, mainutrition associated w/ young putcomes

#### WHEN TO START ENTERAL FEEDS?

- Early enteral nutrition (<48 hrs after onset of ontical illness) is associated with
- reduced mortality and reduced incidence of infections (particularly pneumonia).
- Celiberate underfeeding is not associated with improved outcomes PERMIT 20151
- No survival advantage with early parenteral nutrition (CPN 2001).
- Enterol nutrition can be safely given while in the prope position or receiving TTM.
- EN can also be given while on neuromuscular blockers or while on ECMO.

#### WHEN NOT TO START ENTERAL FEEDS?

 Early EN may be poorly tolerated in patients in shock (NUTRIFIA, 2): however the only absolute contraindications to initating enteral nutrition (EN) are bowell obstruction, perforation, mesenteric ischemia, or major Gi bleeding.

#### ENTERIC FEED FORMULA:

- Epocadas contain a mixtures of macronutrients (surbohydrates, lipido, & protein) as well as micronutrients (electrolytes, vitamine, & trace elements). Select based upon clinical context.
- Despite theoretical basis, there is little directle evidence for many novel disease specific formula (ARDK, COPO, liver).
- There is also limited evidence for additives like glutaming, etc.
- Controllydrate Upide Probain

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#### CALCULATING CALORIC NEEDS:

- Energy expenditure depends on mass, metabolism, & lifness.
  - It is not necessary to meet full caloric needs; many benefits of early feeding are realized with any DN. Paradoxically, achieving 200% of caloric needs in the 1" week may be harmful. Thus, while early feeding is preferable the good need not be full colories.

ONE

Simple formula to estimate basal energy expenditure (BEE) BEE kcal/day = 25 × weight (kg)

For most people use actual weight. If volume overloaded, use dry weight. If obese (BM) > 30 kg/m2) use 120% of BW.

- Disease can modify caloric needs:
- Fever 10% more calories per degree C
- Peritonitis 20-50% more, Sepsis 40-80% more
- Treuma: 20-40% more Burns: +50-100% depends on BSA
- Higher protein may be beneficial in select population(1ANGLT 2018) Most critically ill patients require 1.2-1.5 g/kg/day of protein
- more recognition becomes under a set, and \$1.05 and on become
- Patient with burns may require high protein 2 g/kg/day (add supplements if needed)
- Consider branched chain amine acids (BCAA) in patients with heavily encephalosophy.



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Indirect calorimetry measures VO2 & VCC2 to calculate EE

RC(x) suggests overfeeding -9 decrease carbs or lipids

- RQ +0.8 suggest underfeeding -9 increase calories

 $EE kcel/day = 1440 \times [(3.94 \times VO_{\bullet}) + (1.11 \times VCO_{\bullet})]$ 

Respiratory quotient can identify problems or fine-tune feeding:

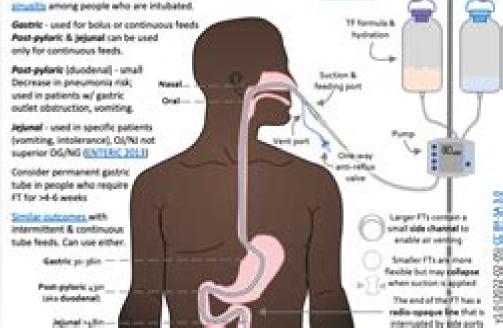
Indirect calorimetry results in more calories & protein administered.

Only possible to obtain accurate measurements if FiG2 is < 0.6

#### RESIDUALS:

- Residuals are contents that remain in the stomach, after tube feeding is paused.
- At least 500ml of residuals can be safely tolerated without intervention (REGAIN 2010)
- If TV are poorly tolerated (residuals >500, vomiting, gastric distension), consider the following:
  - Maintain head up >30 degrees (good practice to prevent VAF)
  - Administer pro-kinetic agents (erythromycin is superior to metaclopramide)
  - Consider advancing FT post-pylonic or into jejunum (expecially if vomiting)
- increasingly, there is evidence for NOT checking residuals at all (less RN work, no improvement in outcomes)







# **Pediatric Enteral Nutrition Guidelines**

**Sharma Madhu** 

#### **Pediatric Enteral Nutrition Guidelines:**

**Pediatric Nutrition in Practice** Berthold Koletzko, Peter Cooper, Maria Makrides, R. Uauy, 2008-01-01 There is no other time in life when the provision of appropriate nutrition is of greater importance than during infancy and childhood During this phase of life characterized by rapid growth and development an adequate amount and composition of nutrients both in health and disease are of key importance for growth functional outcomes such as cognition and immune response and long term well being To provide concise information to readers who seek guick guidance on practical relevant issues in the nutrition of infants children and adolescents the editors have developed this compact reference book as busy physicians and other healthcare professionals often find it difficult to devote sufficient time to study elaborate and extensive books on just one aspect of their practice Moreover due to the insightful input of a global editorial board challenges both in affluent and poorer populations are addressed thus providing a truly international perspective which further contributes to the unique Therapeutic Pediatric Nutrition Sharma Madhu, 2011-06 This book covers dietetic management of worth of this book common as well as uncommon diseases of childhood Each chapter is complete in itself and delineates in detail every aspect of therapeutic dietetics covering physiological background pathogenesis of factors leading to nutritional disorders nutritional requirements in the particular disease entity. The scientific basis of the menu planning and development of recipes to provide the calculated amounts of nutrients in a palatable form are explained. The chapters on diabetes mellitus kidney disorders celiac disease and enteral feeing need special mention as examples of sound instructions Rare disorders like inborn errors of metabolism are also covered This book is useful guide for all trainers involved in the teaching of nutrition in colleges and other health care institutions Manual of Pediatric Cardiac Care Talât Mesud Yelbuz, Mohammed Abdullah Bin-Moallim, Wael Jasim Mohamed Husain, Yousif Saleh Alakeel, Mohamed Salim Kabbani, Abdullah Ali Alghamdi, 2024-07-29 This two volume manual covers the most relevant protocols in pediatric cardiac care to serve as a practical guide that matches and reflects the high level of accumulated knowledge and expertise in this clinical field It includes 179 chapters and offers comprehensive precise and up to date practical tips with specific care protocols to provide the most efficient strategies for high quality care in patients with congenital heart disease CHD This book simplifies learning with many tables flowcharts graphs and algorithms for easy access and fast action Volume II covers many vital sections such as ethical considerations in pediatric cardiac patients pediatric cardiac surgery pediatric cardiac intensive care unit PCICU guidelines clinical pharmacy guidelines adults with congenital heart disease appendix with normal values reference tables graphs scores and various calculated indexes used and needed for proper pediatric cardiac care This manual is a must have resource for pediatricians neonatologists clinical pharmacy specialists pediatric intensive care physicians pediatric cardiologists pediatric cardiac intensive care physicians pediatric cardiac surgeons and or surgeons interested in pediatric cardiac surgery Handbook of Pediatric Surgery Chandrasen K. Sinha, Mark Davenport, 2022-01-17 The new fully updated edition of this book gives a

concise overview of all important topics and is designed to provide information to recognise and treat common pediatric surgical conditions namely symptoms and signs investigation and management A logical evidence based practice is encouraged by the use of flow charts tables and algorithms This edition has been thoroughly revised to reflect the rapid progress in the world of pediatric surgery including the subspecialties of general pediatric surgery urology hepatobiliary surgery organ transplantation minimally invasive surgery including robotic surgery and bariatric surgery This book also provides an anatomical and physiological background to aid understanding Having been authored by international leaders in these fields this book offers comprehensive coverage of various surgical conditions in children with a quick reference format The first edition has been immensely popular with over 160 000 downloads including GPs A E doctors adult surgeons who need to treat children pediatricians and of course pediatric surgeons

Essentials of Pediatric Nutrition Kathy King (RD.),2011-07 Abridged version of Pediatric nutrition edited by Patricia Queen Samour Kathy King 4th ed c2012

Handbook of Pediatric Nutrition Patricia Queen Samour, Kathy King (RD.), 2005 Handbook of Pediatric Nutrition Third Edition provides cutting edge research and resources on the most important pediatric issues and therapies such as prenatal nutrition weight management vegetarian diets diabetes guidelines and transplant nutrition concerns Commonly used by dietetic practitioners studying for their Pediatric Specialty exams registered dietitians dietetic technicians nutritionists pediatricians nurses and dietetic students this book is considered the last word in pediatric nutrition to Pediatric Intensive Care Prayeen Khilnani, 2023-10-31 This book is a comprehensive guide to all aspects on paediatric intensive care The fourth edition has been fully revised to include the latest guidelines and advances in technology The extensive text of 1200 pages explains practical and surgical issues with thorough coverage of respiratory and cardiac care Other conditions specific to different systems of the body are also discussed endocrine gastrointestinal neurological and more Several chapters are dedicated to environmental injuries including burns electric shock heat disorders near drowning and poisoning The book concludes with discussion on psychosocial issues ethical and medicolegal aspects training research quality improvement and use of therapeutic drugs in paediatric intensive care The text is highly illustrated with clinical photographs diagrams and flowcharts Key points Comprehensive guide to all aspects of paediatric intensive care Fully revised fourth edition featuring latest guidelines and technological advances Extensive text of 1200 pages further enhanced by clinical photographs diagrams and flowcharts Previous edition 9789351527398 published in 2015 Samour & King's Pediatric Nutrition in Clinical Care Susan H Konek, Patricia J Becker, 2019-03-12 Samour King s Pediatric Nutrition in Clinical Care Fifth Edition provides comprehensive coverage of the nutritional aspects of pediatric clinical care A widely trusted resource for more than twenty years this text combines coverage of nutrition assessment and care with detailed coverage of normal growth relevant disease states and medical nutrition therapy Manual of Pediatric Nutrition ,1997-10-01 This revised 3rd edition of the Twin Cities District Dietetic Association TCDDA Manual of Pediatric Nutrition is

the result of a cooperative effort on the part of the pediatric dietitians from the major children's hospitals pediatric units and public health agencies serving children in the Minneapolis St Paul metropolitan area This joint effort was undertaken with the belief that a single manual written by dietitians with experience and expertise in various areas of pediatrics would promote continuity in the nutritional care of the pediatric population in the Twin Cities Topics include General Nutrition Nutrition Assessment Consistency Modifications Diabetes Weight Management Nutrition for Children with Special Health Care Needs and many more Pediatric Gastrointestinal and Liver Disease - E-BOOK Robert Wyllie, Jeffrey S. Hyams, Marsha Kay, 2025-05-31 Accessible practical and focused on diagnosis and treatment Pediatric Gastrointestinal and Liver Disease Seventh Edition covers the entire spectrum of pediatric GI hepatic and nutritional disorders This popular reference offers definitive guidance from experienced editors Drs Robert Wyllie Jeffrey S Hyams and Marsha Kay as well as globally renowned contributors who share their knowledge and expertise on complex issues Full color illustrations review questions online real world case studies and detailed instruction on performing key procedures ensure that this updated edition remains your reference of choice in this fast changing area Includes significantly updated coverage of the gut microbiome new biologic therapies for the treatment of pediatric inflammatory bowel diseases advancements in the treatment of pediatric liver diseases including metabolic associated fatty liver disease MAFLD and new diagnostic imaging techniques Features a robust art program with full color anatomical figures clinical photos and other illustrations throughout the text Details key procedures such as esophagogastroduodenoscopy and related techniques colonoscopy and polypectomy endoscopic retrograde cholangiopancreatography and endoscopic ultrasound capsule endoscopy and small bowel enteroscopy GI motility procedures and more Prepares you for certification and recertification with more than 400 board style review questions answers and rationales online Contains numerous algorithms that provide quick and easy retrieval of diagnostic screening and treatment information as well as detailed diagrams that accurately illustrate complex concepts and provide at a glance recognition of disease processes An ideal everyday resource for pediatric gastroenterologists and hepatologists pediatric dieticians and nutritionists pediatricians family medicine practitioners PAs and NPs Any additional digital ancillary content may publish up to 6 weeks following the publication date A Practical Manual of Pediatric Cardiac Intensive Care Rakhi Balachandran, Aveet Jayant, R. Krishna Kumar, 2021-08-31 Sect 1 General Topics Sect 2 Cardiac Lesion Specific Postoperative Management Sect 3 Common Complications Sect 4 Miscellaneous Topics Pediatric Nutrition in Practice B. Koletzko, J. Bhatia, Z. A. Bhutta, P. Cooper, M. Makrides, R. Uauy, W. Wang, 2015-04-17 There is no other time in life when the provision of adequate and balanced nutrition is of greater importance than during infancy and childhood During this dynamic phase characterized by rapid growth development and developmental plasticity a sufficient amount and appropriate composition of nutrients both in health and disease are of key importance for growth functional outcomes such as cognition and immune response and the metabolic programming of long term health and well being This compact

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TRAINING SECTION 2 FETAL UROLOGY SECTION 3 MALE GENITAL RECONSTRUCTION SECTION 4 FEMALE GENITAL RECONSTRUCTION SECTION 5 RENAL RECONSTRUCTIONS SECTION 6 URETERAL RECONSTRUCTIONS SECTION 7 PREREQUISITES PRIOR TO LOWER TRACT RECONSTRUCTIONS SECTION 8 BLADDER BLADDER NECK AND CONTINENCE PROCEDURES SECTION 9 RECONSTRUCTION INVOLVING GI SEGMENTS SECTION 10 ONCOLOGICAL AND OTHER RECONSTRUCTIONS SECTION 11 FUTURE OF PEDIATRIC UROLOGY SECTION 12 STONES SECTION 13 IMAGING OF URINARY TRACT PRIOR TO RECONSTRUCTION Index

The book delves into Pediatric Enteral Nutrition Guidelines. Pediatric Enteral Nutrition Guidelines is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Pediatric Enteral Nutrition Guidelines, encompassing both the fundamentals and more intricate discussions.

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