

Review

Optimizing Inpatient Nutrition Care of Adult Patients with Inflammatory Bowel Disease in the 21st Century

Elaine Chiu ¹, Chris Obeynick ² , Maitreyi Raman ^{1,*}  and Barbara Bielawska ³

¹ Division of Gastroenterology, University of Calgary, Calgary, AB T2N 1N4, Canada; elaine.a.chiu@gmail.com

² Division of Internal Medicine, University of Calgary, Calgary, AB T2N 1N4, Canada; cjoeynick@gmail.com

³ Department of Medicine, Division of Gastroenterology, University of Ottawa, Ottawa, ON K1H 8L6, Canada; bbielawska@toh.ca

* Correspondence: mkothand@ucalgary.ca

Abstract: Malnutrition is highly prevalent in inflammatory bowel disease (IBD) patients and disproportionately affects those admitted to hospital. Malnutrition is a risk factor for many complications in IBD, including prolonged hospitalization, infection, greater need for surgery, development of venous thromboembolism, post-operative complications, and mortality. Early screening for malnutrition and prompt nutrition intervention if indicated has been shown to prevent or mitigate many of these outlined risk factors. There are many causes of malnutrition in IBD including reduced oral food intake, medications, active inflammation, and prior surgical resections. Hospitalization can further compound pre-existing malnutrition through inappropriate diet restrictions, nil per os (NPO) for endoscopy and imaging, or partial bowel obstruction, resulting in “post-hospital syndrome” after discharge and readmission. The aim of this article is to inform clinicians of the prevalence and consequences of malnutrition in IBD, as well as available screening and assessment tools for diagnosis, and to offer an organized approach to the nutritional care of hospitalized adult IBD patients.

Keywords: inflammatory bowel disease; malnutrition; nutrition support; enteral nutrition; peripheral parenteral nutrition; central parenteral nutrition; sarcopenia



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1. Introduction

Inflammatory bowel disease (IBD) is a chronic debilitating inflammatory disorder of the gastrointestinal tract characterized by a relapsing and remitting course. The etiology of IBD is incompletely understood, but includes an imbalance between pro-inflammatory and anti-inflammatory signaling arising from genetic susceptibility and environmental triggers [1]. The two main subtypes of IBD are Crohn's disease (CD) and Ulcerative colitis (UC). CD can affect the entire gastrointestinal tract from mouth to anus, with transmural inflammation affecting the full thickness of the bowel that can lead to fistulization, abscess formation, stenosis, and bowel obstruction. UC universally involves the rectum with variable involvement of the colon and does not involve the small bowel or upper digestive tract. The inflammation of UC is restricted to the mucosa, except in fulminant disease. The natural history of IBD is characterized by disease flares of variable duration and severity, with periods of remission. The prevalence of IBD is increasing globally with data from 2017 suggesting that more than three million people in the United States and Europe are living with the condition, and nearly seven million are affected worldwide [2].

IBD is often diagnosed in young adulthood or middle age, resulting in a large burden of disability-adjusted life years that is now improving as more effective treatments become available [3]. Advances in immunotherapy have improved outcomes, but many of these medications are expensive, have undesirable side effects, and are not always available. Even with effective therapy, the risk of disease progression or developing complications requiring surgery remains high, with a ten-year surgical risk of 46.6% and 15.6% in CD and UC, respectively [4].

Optimizing Health Care For Turner Patients In The 21st Century

Ian Pickup



Optimizing Health Care For Turner Patients In The 21st Century:

Optimizing Health Care for Turner Patients in the 21st Century Paul Saenger, Anna Maria Pasquino, 2000 This volume publishes the proceedings of the 5th International Turner Symposium It covers how health care for Turner Syndrome patients can be optimally managed from infancy to adulthood New scientific data on molecular genetics of Turner syndrome and practical approaches to the management of cardiac problems were shared to 350 participants of the 2 day conference Scientific advances in assisted reproductive techniques were also discussed in detail This book is indeed a necessary tool in understanding Turner syndrome for both health care professionals and patients Many recommendations for diagnosis and treatment serve as a guideline for the comprehensive care of women with Turner syndrome Pediatric Endocrinology M. Sperling, 2008-01-01 In a single convenient volume Pediatric Endocrinology offers complete coverage of all aspects of basic science and clinical practice ideal for both pediatricians and endocrinologists Pediatric endocrinology expert Dr Mark Sperling teams up with world renowned authors to bring you up to date with the latest key developments in every area of the field providing invaluable guidance on how your clinical decision making will be affected by today s technological and scientific advances The user friendly text is enhanced by all new online access to the complete contents of the book and more Inclusion of clinical vignettes and supported by ExpertConsult access makes the text almost as good as face to face teaching Reviewed by Neel Kamal on behalf of BACCH Newsletter March 2015 Determine the best possible course for every patient with easy to follow algorithms in every clinical chapter Stay up to date with today s hottest topics including neonatal diabetes mellitus Type II childhood diabetes molecular endocrinology and genetics Explore the impact of today s advances and challenges including explosive growth in molecular biology sophisticated imaging techniques and an increase in both pediatric diabetes and obesity NEW Access the fully searchable contents of the book and new self assessment questions online at Expert Consult Quickly access the information you need with a new streamlined organization Concepts Endocrine Disorders of the Newborn Endocrine Disorders of Childhood and Adolescence and Laboratory Tests and Imaging **Growth Hormone Therapy in Pediatrics - 20 Years of KIGS** M. B. Ranke, D. A. Price, E. O. Reiter, 2007-04-27 For 20 years KIGS Pfizer International Growth Database has provided an outstanding tool for monitoring the use efficacy and safety of growth hormone GH treatment in children with short stature of varying origin This volume offers a comprehensive update of the continuing experiences in KIGS and is based on data from more than 50 countries and more than 60 000 patients International experts analyse in detail the basic auxological characteristics of patients and their response to GH treatment for a broad spectrum of growth disorders These include idiopathic GH deficiency organic GH deficiency due to a variety of causes such as congenital malformations and syndromes genetic disorders or treatment for leukaemia or central nervous system tumours and short stature in children born small for gestational age specific syndromes and systemic disorders Each growth disorder is also covered by a review of relevant published data by international experts KIGS has also established

itself as a primary source of information about adverse events during long term GH treatment in children The recent analysis of KIGS data has revealed no new adverse drug reactions since the 10 year follow up Therefore treatment with GH seems a low risk intervention in children and adolescents with various growth disorders The process of developing disease specific growth response prediction models has been ongoing in KIGS for many years The available models are accurate precise and have a relatively high degree of predictive power although further predictors of the growth response remain to be identified The KIGS prediction models can be applied prospectively to new patients enabling their GH therapy to be better tailored and monitored to achieve optimal growth safety and cost outcomes The future of KIGS within the era of evidence based medicine will continue to depend upon the quality of the data reported Therefore the commitment of participating physicians will continue to be a decisive element The ongoing recognition of the importance of valid safety and efficacy information in the practice of paediatric endocrinology is exemplified by this valuable international collaboration of clinicians and the pharmaceutical community

Sexuality and Fertility Issues in Ill Health and Disability Rachel Balen, Marilyn Crawshaw, 2006-03-17 This groundbreaking text explores sexuality and fertility issues for young people living with ill health or disability This subject is often considered taboo although for some of those coping with sexual or fertility impairment it can be as difficult as coping with the disability or health condition itself Bringing together personal professional and academic perspectives from a variety of disciplines and located within a life course development framework this book takes a holistic view of young people moving towards adulthood and examines the impact of illness or disability on their sexual and fertile identities The broad range of chapters includes the experiences of minority ethnic groups managing relationships fertility preservation and treatment and the transition to parenthood Professionals working with adolescents and young adults will find this book a rich source of insights information and guidance

Growth Disorders 2E Chris Kelnar, Martin Savage, Paul Saenger, Chris Cowell, 2007-06-29 Linear growth is a biological process of fundamental importance to the physical and psychological make up of a child and adolescent but which can be subject to a number of interruptions and disorders The management and treatment of patients with growth disorders constitutes a major and important part of practice in clinical paediatrics while in public health terms growth assessment remains one of the most useful indices of health and economic well being in both developed and the developing world This book approaches growth and its disorders from both a physiological and pathophysiological standpoint The book outlines in detail the fundamental biological mechanisms of normal and abnormal linear growth how to assess growth accurately fundamental to the early detection of abnormality and importantly how to manage disorders leading to short and tall stature and disorders of the timing of puberty Throughout emphasis is given on achieving a satisfactory outcome for the child and parent by keeping them fully informed as to what is possible from a particular treatment strategy The result is a wide ranging and balanced account of this challenging field drawing on the expertise of a team of international specialists from a variety of backgrounds

Williams Textbook of

Endocrinology E-Book Shlomo Melmed, Kenneth S. Polonsky, P. Reed Larsen, Henry M. Kronenberg, 2011-05-12 The latest edition of Williams Textbook of Endocrinology edited by Drs Shlomo Melmed Kenneth S Polonsky P Reed Larsen and Henry M Kronenberg helps you diagnose and treat your patients effectively with up to the minute practical know how on all endocrine system disorders Comprehensive yet accessible this extensively revised 12th Edition updates you on diabetes metabolic syndrome obesity thyroid disease testicular disorders and much more so you can provide your patients with the most successful treatments Find scientific insight and clinical data interwoven in every chapter reflecting advances in both areas of this constantly changing discipline and presented in a truly accessible format You ll also access valuable contributions from a dynamic list of expert authors and nearly 2 000 full color images to help you with every diagnosis This title has everything you need to manage any and all the clinical endocrinopathies you may encounter Rely on the one reference that integrates rapidly evolving basic and clinical science in a cohesive user friendly format definitively addresses every topic in the field and has remained a standard for more than half a century Update your know how and skills to diagnose and treat your patients most effectively with exhaustively revised content on diabetes metabolic disease thyroid cancer fertility problems testicular problems weight issues and much more Apply reliable guidance on endocrine conditions of growing interest like hypothyroidism and testicular disorders with dedicated new chapters that expound on the latest research findings Overcome any clinical challenge with comprehensive and easy to use coverage of everything from hormone activity diagnostic techniques imaging modalities and molecular genetics to total care of the patient Apply the latest practices with guidance from expert authors who contribute fresh perspectives on every topic

Principles and Practice of Pediatric Endocrinology Michael Steven Kappy, David B. Allen (Pediatric endocrinologist), Mitchell E. Geffner, 2005 This first edition of Principles and Practice of Pediatric Endocrinology brings together 30 authors from 4 countries to present an update on the molecular basis of endocrine disorders in infants children and adolescents as well as the diagnosis and treatment of these conditions It is intended for the use of practitioners fellows and clinical and bench top researchers in this field and presents advances in each of 12 areas of the normal and abnormal endocrine state The work is a tribute to all those past and present whose research and clinical efforts resulted in the rapidly increasing accumulation of knowledge in this field and includes comprehensive practical clinical presentations in the form of an Atlas following each chapter after the comprehensive introductory chapter by Drs Root and Rogol This publication owes a great debt to Lawson Wilkins a Baltimore pediatrician who first formally established the separate discipline of pediatric endocrinology to Edwards Park Fuller Albright Bob Blizzard Claude Migeon Harold and Helen Harrison James Tanner and to so many others giants upon whose shoulders pediatric endocrinologists stand Disorders of growth and pubertal development are the cornerstones of pediatrics as they are present in many children with chronic illness as well as in children whose growth and pubertal development are influenced by genetics and family history These may have identifiable causes in pituitary thyroid adrenal or gonadal function and

examples are well represented in this book Obesity and diabetes types I and 2 are likewise diseases of childhood that are becoming increasingly and significantly prevalent and are included in this work Disorders of calcium phosphorus especially the often forgotten but not gone Vitamin D deficiency rickets and water metabolism are presented and errors of sexual differentiation an increasingly controversial issue are highlighted It is the hope of the editors that this work will assist the practitioner and researcher in this field in his or her efforts to diagnose treat and establish the etiology of endocrine disorders in infants children and adolescents

Wellness for Girls and Women with Turner Syndrome Claus Højbjerg Gravholt, Carolyn Bondy, 2006 The multidisciplinary conference Wellness for Girls and Women with Turner Syndrome was held in April 2006 in Washington DC It addressed recent advances in the diagnosis and treatment of Turner Syndrome focusing on clinical genetics growth and development psychosocial development congenital cardiovascular disease and adulthood **European Journal of Endocrinology** ,2002 **Williams. Tratado de endocrinología** Shlomo

Melmed, Richard J. Auchus, Clifford J. Rosen, 2021-05-15 Ofrece la cobertura más actualizada sobre diabetes síndrome metabólico trastornos endocrinos obesidad enfermedad tiroidea trastornos testiculares trastornos suprarrenales de nueva definición y muchas otras alteraciones y ayuda a proporcionar un tratamiento óptimo a cada paciente Contiene nuevos capítulos sobre la tasa global de endocrinopatías y aborda las directrices de práctica clínica en endocrinología y la endocrinología transgénero Aporta una significativa actualización de los capítulos dedicados a la diabetes con un nuevo capítulo sobre la fisiología de la secreción de insulina y mayor cobertura de la diabetes de tipo 2 Presenta información actual profusamente ilustrada y en un formato que facilita su localización Incluye la versión electrónica del libro en Expert Consult en inglés que permite acceder al texto completo las figuras y las referencias bibliográficas de la obra desde distintos dispositivos

American Book Publishing Record ,2006 Directory of Published Proceedings ,2002 Emerging Socialities in 21st Century Healthcare Bernhard Hadolt, Anita Hardon, 2025-10-01 The landscape of healthcare is changing rapidly both on an organisational and a technological level This book gathers medical anthropologists to examine the ways that both patients and health care workers are being affected by new policies market and technologies Contributors cover a wide range of topics including vaccination disability migration and self medication making clear that not only are changing circumstances leading to the emergence of new socialities but they are also driving new ethics and moralities *Subject Guide to Books in Print* ,1997 Operations Management in Healthcare Corinne M. Karuppan, Nancy E. Dunlap, Michael R.

Waldrum, 2021-12-07 This thoroughly revised and updated second edition of Operations Management in Healthcare Strategy and Practice describes how healthcare organizations can cultivate a competitive lead by developing superior operations using a strategic perspective In clearly demonstrating the how-tos of effectively managing a healthcare organization this new edition also addresses the why of providing quality and value based care Comprehensive and practice oriented chapters illustrate how to excel in the four competitive priorities quality cost delivery and flexibility in order to build a cumulative

model of healthcare operations in which all concepts and tools fit together This textbook encourages a hands on approach and integrates mind maps to connect concepts icons for quick reference dashboards for measurement and tracking of progress and newly updated end of chapter problems and assignments to reinforce creative and critical thinking Written with the diverse learning needs in mind for programs in health administration public health business administration public administration and nursing the textbook equips students with essential high level problem solving and process improvement skills The book reveals concepts and tools through a series of short vignettes of a fictitious healthcare organization as it embarks on its journey to becoming a highly reliable organization This second edition also includes a strong emphasis on the patient s perspective as well as expanded and added coverage of Lean Six Sigma value based payment models vertical integration mergers and acquisitions artificial intelligence population health and more to reflect evolving innovations in the healthcare environment across the United States Complete with a full and updated suite of Instructor Resources including Instructor s Manual PowerPoints and test bank in addition to data sets tutorial videos and Excel templates for students Key Features Demonstrates the how tos of effectively managing a healthcare organization Sharpens problem solving and process improvement skills through use of an extensive toolkit developed throughout the text Prepares students for Lean Six Sigma certification with expanded coverage of concepts tools and analytics Highlights new trends in healthcare management with coverage of value based payments mergers and acquisitions population health telehealth and more Intertwines concepts with vivid vignettes to describe human dynamics organizational challenges and applications of tools Employs boxed features and YouTube videos to address frequently asked questions and real world instances of operations in practice

Adults with Childhood Illnesses J. Timothy Bricker,Hatim A. Omar,Joav Merrick,2011-09-29 Just a few decades ago children born with significant congenital anomalies or genetic and metabolic diseases perished at an early age and very few survived into their teens and even less into adulthood Congenital heart disease major errors in metabolism cancer cystic fibrosis and many other major diseases were fatal Because of that many physicians in adult primary care did not have the opportunity to see patients with these problems and thus unable to learn how to care for them In this book we have recruited highly qualified and experienced physicians to compile what is to the best of our knowledge the first book dealing entirely with the issue of children s diseases in adults Our goal is to provide a resource for all health care providers in order to help with caring for such adult patients We believe that it will be valuable to all health care providers who provide care to adults with children s diseases To our knowledge there is no such resource available for practitioners which will make this book desirable

Encyclopedia of Genetics Bryan D. Ness,2004 An encyclopedia of genetics **The Nurse's Guide to Managed Care** Susan Odegaard Turner,1999 An essential reference for nursing students in developing and implementing the competencies necessary in caring for critically ill patients Synergy for Clinical Excellence The AACN Synergy Model for Patient Care enhances the understanding of The Synergy Model in practice Based on a decade of work by the American Association of

Critical Care Nurses the text encompasses the history and development of the nurse and patient characteristic inherent in The Synergy Model and then thoroughly addresses each characteristic individually and applies the model in practice Includes sample test questions relevant to the model that will assist nursing students in preparing for certification through AACN and provide further examples of the integration of the Synergy Model in practice Handbook of the Sociology of Health, Illness, and Healing Bernice A. Pescosolido, Jack K. Martin, Jane D. McLeod, Anne Rogers, 2010-12-17 The Handbook of the Sociology of Health Illness Healing advances the understanding of medical sociology by identifying the most important contemporary challenges to the field and suggesting directions for future inquiry The editors provide a blueprint for guiding research and teaching agendas for the first quarter of the 21st century In a series of essays this volume offers a systematic view of the critical questions that face our understanding of the role of social forces in health illness and healing It also provides an overall theoretical framework and asks medical sociologists to consider the implications of taking on new directions and approaches Such issues may include the importance of multiple levels of influences the utility of dynamic life course approaches the role of culture the impact of social networks the importance of fundamental causes approaches and the influences of state structures and policy making *Counseling 21st Century Students for Optimal College and Career Readiness* Corine Fitzpatrick, Kathleen Costantini, 2012-03-27 In order for students to compete in today's global economy our schools need to help them develop better cognitive and technological skills School counselors have an enormous impact on students achievement and their success in their post secondary education yet initiatives to improve student outcomes often overlook them Fitzpatrick and Costantini present their own action based curriculum for high school counselors that will meet the needs of 21st century students helping to foster their growth and ambition and actively engage them in learning what they need to succeed beyond high school Important steps covered in this curriculum include Making the transition to ninth grade successful Using technology in the advising process such as online resources for college and career research assessing interests and structuring advising sessions Preparing for standardized testing and using it to motivate students about the college application process Assisting students in researching careers and colleges making the most of college visits applying for college and writing the application essay Equally important the book focuses on the counselor and his or her role as an advocate and leader for students and details running a guidance office working with parents and writing Secondary School Reports While applicable for all school counselors and students the authors curriculum has a special focus on students in urban public schools to enable them to have the same experiences as their counterparts in suburban and private schools An accompanying CD contains the tables exercises and charts from the book so they can be easily accessed and reproduced

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