

Alterations in metabolism and body composition in chronic respiratory diseases

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Malnutrition, in the sense of nutritional depletion, is commonly perceived as a frequent event in chronic respiratory diseases, in particular in emphysema. For this reason, most of the knowledge regarding this issue derives from studies of patients with chronic obstructive pulmonary disease (COPD). The exact prevalence of this problem is unknown because there is neither a gold standard method of body composition analysis nor a universally accepted definition of nutritional depletion.

Body composition in chronic respiratory diseases

Body weight

If the human body is considered to be a single compartment, the measurement of weight and height provides a simple assessment of nutritional status. Serial measurements of body weight may disclose progressive weight loss, which is generally considered to be significant when it exceeds 5–10% over 1 yr. A history of weight loss of this magnitude has been found in 27% [1], 33% [2], and 47% [3] of patients with COPD. The interpretation of weight changes is limited in the case of fluid retention, which commonly occurs in severe respiratory insufficiency.

In order to assess the nutritional status, the subject's weight has to be compared with a normal value. Two methods are commonly used to this end. The first one relates actual body weight to the "ideal body weight" (IBW) as derived from height, frame size and sex, from the tables of the Metropolitan Life Insurance Company [4]. Nutritional depletion is generally and arbitrarily defined as body weight <90% IBW. The second method uses the "body mass index" (BMI), which is the ratio of body weight divided by height squared: $BMI = \text{weight}/\text{height}^2$. Nutritional depletion is considered when the BMI is <20 kg·m⁻² or 18.5 kg·m⁻² [5].

The prevalence of a low body weight has been found similar in three large series of stable COPD patients. Among 779 men included in the National Institutes of Health Clinical Trial of Intermittent Positive-Pressure Breathing, 24% weighed <90% IBW [6]. On admission to an inpatient rehabilitation centre, 35% of 255 patients weighed <90% IBW [7]. Finally, 29% of 126 stable outpatients were characterised by a BMI <20 kg·m⁻² [8]. In two of these studies, weight reduction was correlated with the loss of forced expiratory volume in one second (FEV₁), and even more closely, with the loss of diffusing capacity of carbon monoxide [6, 8]. The latter observation confirms the clinical perception that nutritional depletion is prominent in severe emphysema.

Nutrition And Metabolism In Chronic Respiratory Disease European Respiratory Monograph

N.M. Siafakas



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Nutrition and Metabolism in Chronic Respiratory Disease E. F. M. Wouters, A. M. W. J. Schols, 2003 **Pathology of the Lung** W. Timens, H. H. Popper, 2007-03-01 Pathological examination forms a key element in the final diagnosis of a variety of malignant and non malignant respiratory disorders and directs treatment Research has contributed to important advances in the pathological diagnosis of these respiratory disorders This book is a complete overview of diagnostic procedures and pathological examination data which helps support the clinician in the decision making process This Monograph covers the pathology of neoplastic diseases infections obstructive and interstitial lung diseases and pulmonary manifestations of systemic diseases with al Management of Chronic Obstructive Pulmonary Disease N.M. Siafakas, 2006-12-01 Since the 1970s therapeutic nihilism has moved towards a more optimistic attitude regarding therapeutic alternatives in COPD Research focused on inflammatory and physiological mechanisms has substantially increased during the last 10 years This has led to an increased understanding of the pathophysiology of the disease which has resulted in improved treatment Thus in parallel to smoking cessation programmes other treatment modalities have been shown to be successful Physiotherapy and pharmacotherapy have been extensively studied and the knowledge regarding what these therapeutic appra Paediatric Lung Function U. Frey, P. J. F. M. Merkus, 2010-03-01 This Monograph offers a comprehensive review of the lung function techniques available in paediatric pulmonology This field is still developing rapidly and equipment and software can tell us more than ever about respiratory physiology in health and disease in children with various lung disorders Experts from around the globe provide a review of the techniques used with a special focus on clinical applications and their usefulness in diagnosing and treating children with chronic lung disease **Smoking Cessation** S. Nardini, 2008-12-01 Smoking has been practised for more than 7 000 years and is today the most common form of drug abuse worldwide The use of tobacco seems to have started in South America and was brought to Europe in the 16th century and was after that spread out into most major societies within the next 100 years Today there are more than one billion smokers worldwide There is no doubt that smoking poses the greatest single individual risk factor for premature death It is alarming to note that among the five highest risk factors for premature death in 2020 four are closely related to tobacco smoking I **Respiratory Diseases in the Elderly** V. Bellia, R. Antonelli Incalzi, 2009-03-01 The world population is rapidly ageing As a consequence the portion of the elderly burdened with polipathology and disability will grow while economic resources to support it will shrink due to the contraction of the working force This will require a long term preventive political strategy but there are also selected healthcare interventions that can be easily implemented to decrease the negative impact of this demographic trend on the well being of our societies Examples are strategies that slow functional decline and preserve personal capabilities in geriatric populations Instrumental **Interstitial Lung Diseases** R.M. Du Bois, L. Richeldi, 2009-12-01 Interstitial lung diseases represent an expanding field of respiratory medicine and pose

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COPD and Comorbidity Klaus F. Rabe,Jadwiga A. Wedzicha ,Emiel F.M. Wouters,2013-03 COPD is responsible for considerable morbidity and mortality and its course is complicated by co existing comorbidities that worsen prognosis Understanding the importance of comorbidity and multiple comorbidities in COPD is important in patient assessment and management planning This Monograph is the first comprehensive collection of up to date articles on COPD comorbidity It includes chapters on epidemiology cardiovascular disease diabetes psychological disease and infection and covers the importance of including comorbidity in COPD treatment guidelines as well as the ways in which comorbidity influences clinical COPD management This book will be of interest to clinicians healthcare professionals and those researching this important area **Respiratory Diseases in Women** S. Buist,C.E. Mapp,2003-06-01 Present day insights into the

relationship between gender and health emphasise the necessity of taking sex and gender differences into consideration Sex refers to biological characteristics such as chromosomes physiology and anatomy that distinguish females and males Gender refers to the array of socially constructed roles and relationships personality traits attitudes behaviours and values that society ascribes to the two sexes on a differential basis In health related research both sex differences and differences resulting from gender are implied Sex can determine differential propen *National Library of Medicine Current Catalog*

National Library of Medicine (U.S.),1993 First multi year cumulation covers six years 1965 70 **Proceedings of the Nutrition Society** ,2003 *Metabolomics and Systems Biology in Human Health and Medicine* Oliver A.H.

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provides a solid introduction to medical metabolomics and systems biology and demonstrates how they have been applied to studies in medicine and human health including nutrition and pathogenic microorganisms Following core themes of diagnosis pathology and aetiology of disease this book provides a reference for health care professionals interested in how to use metabolomics for medical research **The British National Bibliography** Arthur James Wells,2007 *Pulmonary Rehabilitation* Claudio Donner,Nicolino Ambrosino,Roger S. Goldstein,2020-07-14 Pulmonary rehabilitation programmes are a fundamental part of the clinical management of patients with chronic respiratory diseases This comprehensive reference book places pulmonary rehabilitation within the wider framework of respiratory disease Now in six parts it includes new sections on the development of PR as a discipline global perspectives on quality control new chapters on early PR post exacerbation and personalized rehabilitation innovative approaches to exercise PR in interstitial lung disease and lung transplantation and the latest research into the application of music dance and yoga Key Features Global contributions compare practice around the world where differences have developed New six Part structure covers new approaches to exercise testing interstitial lung diseases and other diseases and add on interventions drawing on new technologies Contains recommendations of the large collaborative ERS ATS task forces on guidelines for PR as well as suggested policies for its implementation and use Covers the important topic of balance impairment as a focus of rehabilitation for the at risk patient and a new chapter on monitoring physical activity The voices of patients and caregivers describe the impact of chronic respiratory disease on their lives Features an exclusive chapter on COVID 19 that discusses the short and long term pathophysiological consequences provides information about the potential role of physiotherapy in the management of hospitalized patients with confirmed or suspected COVID 19 and details on who where and how to deliver programs to COVID 19 and non COVID 19 patients in the lockdown and post lockdown era American Journal of Respiratory and Critical Care Medicine ,2008 **Encyclopedia of Gastroenterology** ,2019-11-06 Encyclopedia of Gastroenterology Second Edition Four Volume Set provides a comprehensive and concise reference on all aspects of gastroenterology and hepatology including the organs in the gastrointestinal system their functions in health and disease and strategies or procedures to resolve or prevent problems and disease This concise up to date information includes comprehensive sections on the impact of nutrition gastrointestinal microbiota lifestyle commonly used drugs and surgical procedures on health and disease Since the first edition attention to the roles of nutrition and gastrointestinal microorganisms microbiota formerly Microbiota in health and disease has skyrocketed In addition an entirely new section on obesity and diabetes is included Presents comprehensive coverage of every topic within gastroenterology Offers researchers a one stop fully referenced resource to explore questions Includes teaching tools multimedia and interactive elements Provides readers with multi layered content and a media rich learning resource for both instructors and students Covers hot new topics in GI health and disease including new sections on stem cells intestinal bacteria obesity and intestinal microbiota **The Molecular Nutrition of**

Amino Acids and Proteins Dominique Dardevet, 2016-06-08 The Molecular Nutrition of Amino Acids and Proteins provides an in depth look at the involvement and role of amino acids and proteins in molecular nutrition Editor Dominique Dardevet has assembled a collection of chapters written by leading researchers and top professors that provide the reader with a comprehensive understanding of amino acids and proteins The book provides an introduction to the fundamentals of amino acids and proteins as well as the composition of food It then delves into the molecular biology of the cell and genetic machinery and its function The Molecular Nutrition of Amino Acids and Proteins also features reference guides for terms and bullet point summaries making it readily accessible to novices while still providing the most up to date and detailed information that experienced researchers need Provides a gentle introduction to the subject by first addressing nutritional information and then building in molecular aspects clearly establishing fundamental information for the reader Facilitates reader comprehension by including succinct summary points in each chapter Contains a glossary of definitions that allows readers to easily reference terms Provides both a deep and broad understanding of the subject by containing overviews as well as detail focused chapters

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