

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

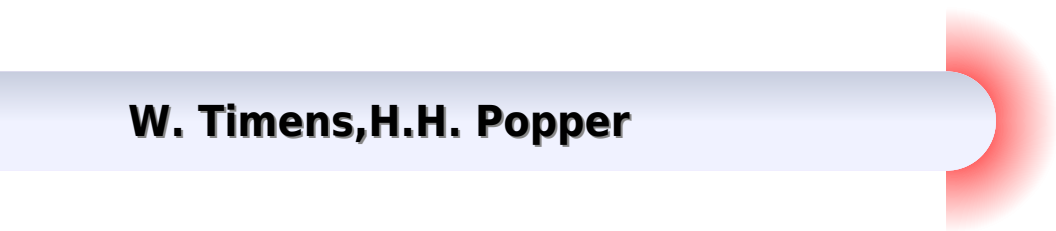
If the human body is considered to be a single compartment, the measurement of weight and height provides a simple assessment of nutritional status. Serial measurements of body weight may disclose progressive weight loss, which is generally considered to be significant when it exceeds 5–10% over 1 yr. 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

W. Timens, H.H. Popper



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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

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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**

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In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Nutrition And Metabolism In Chronic Respiratory Disease European Respiratory Monograph**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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