

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.

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Nutrition Abstracts and Reviews ,2005

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