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Could the overweight influence bronchiectasis (B) exacerbations frequency (EF)?

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Abstract

B is a chronic lung disease accompanied by recurrent airway infections. Underweight is one of the proved

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disease. We aimed to determine if there is an effect of overweight on EF of patients (p) with B.

Materials and methods 55 p with confirmed B by HRCT were included in the study during the stable phase. Weight, parietal fat (PF), muscles (M) and visceral fat (VF) were measured by "Body composition monitor Omron BF511" for the static weighing and body mass index (BMI) was calculated. EF during the previous year was defined in medical source documentation. The methods of descriptive and non-parametric statistics were used to process the results.

Results: P were divided by BMI into two groups: G1-with BMI \geq 25 kg/m² (n=22), G2-with BMI<25 kg/m² (n=33). There were no differences in groups by gender and age (p=0.7 and p=0.39 respectively). Results are presented in the table.

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There were dedicated correlation between BMI and EF (R=0.34,p=0.01), PF (R=0.69,p=0.00001) and VF (R=0.82,p=0.0000001).

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with BMI than PF. Therefore, we can propose to consider the need to determine the fractions of fat in p with B for the subsequent correction of this metabolic disorder.

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