

HUBUNGAN ANTARA INDEKS MASSA TUBUH (IMT) DENGAN TES FUNGSI PARU

Title	HUBUNGAN ANTARA INDEKS MASSA TUBUH (IMT) DENGAN TES FUNGSI PARU
Author Order	of
Accreditation	
Abstract	<p>Body mass index (BMI) is a tool of measuring the nutritional status of individu. One of the effects of obesity is the mechanics disturbance led to abnormality on pulmonary function tests. This study was aimed to determine the relationship between body mass index with pulmonary function tests (PFTs) on medical student Jenderal Soedirman University. Analytical observational study with cross sectional design was used in this investigation. The sampling technique used proportional random sampling with 82 samples. Pulmonary function tests was classified into vital capacity (VC), tidal volume (TV), inspiration reserve volume (IRV), expiratory reserve volume (ERV), inspiration capacity (IC), forced vital capacity (FVC) dan FEV1. Univariate analysis, which was using table of frequency to see categorical variables and central tendency measurement to see numerical variables, and bivariate analysis, which was using Pearson and Spearman correlation to see the relationship between BMI with PFTs; unpaired t tests and Mann Whitney to know the differences of PFTs results between men and women, were used in this research. From the results we concluded that there are significant relationship between BMI with VC ($p = 0,015$), IRV ($p = 0,026$), IC ($p = 0,016$), FVC ($p = 0,004$) and FEV1 ($p = 0,021$) with low power relationship and was no relationship BMI with TV ($p = 0,489$) and ERV ($p = 0,231$). In the unpaired t test and Mann Whitney we found that there are differences all PFTs in a group of men and women.</p>
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