

Evaluation of pulmonary volumes in patients with celiac disease in Afzalipour Hospital, Kerman (2019)

Category : 4.2 Coeliac disease/malabsorption syndromes and food enteropathies

Introduction : Celiac disease is a common malabsorptive bowel disease caused by gluten sensitivity that affects other organs of the body in addition to the gastrointestinal tract such as liver, brain and respiratory system. This study aimed to evaluate the pulmonary volumes in patients with celiac disease in Afzalipour Hospital, Kerman.

Methods : This cross-sectional descriptive study was performed on all adult patients with celiac disease in celiac registry in Afzalipour Hospital. All patients whose records were complete were included in the study. At this stage, height and weight were measured and their demographic information was recorded in a checklist. Then, according to the standard conditions, spirometry was performed. Data were analyzed by SPSS software version 22.

Results : The study cases are comprised of 58 patients with celiac disease. The average age of cases were 37.59 ± 18.02 years. The mean of height was 157.22 ± 14.30 cm and the mean of weight was 57.09 ± 17.06 kg. The results showed that the mean of forced vital capacity (FVC) was 3.15 ± 0.93 liters, the mean of forced expiratory volume in 1 second (FEV1) was 2.68 ± 0.76 liters, the mean ratio of FEV1 to FVC $83.06 \pm 5.56\%$ and the mean of PEF was 6.64 ± 1.61 liters.

Conclusion : The results of this study indicated pulmonary volumes in celiac patients was lower than normal age and sex match population. Further studies to follow up and assessment respiratory problems in these patients were need.

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