Short Communication

Tissue trans-glutaminase antibody in Inflammatory Bowel Disease in Golestan province, Northern Iran (2005-08)

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Abstract

Background and Objective: Celiac is a hereditary disease presented with chronic inflammation of small intestine. Several studies supposed a relationship between Celiac disease and Inflammatory Bowel Disease (IBD). Tissue trans-glutaminase antibody is one of the best serological markers in Celiac disease. This study was designed to evaluate the association of Celiac and IBD using tissue trans-glutaminase antibody.

Materials and Methods: In this descriptive study 127 confirmed IBD patients who were referred by gastroentrologists 2005-08 enrolled into the study. A questionnaire was completed and tissue trans-glutaminase antibody was evaluated with ELISA method with a Cut-off=12 U/ml.

Results: Among 127 referred patients, serum samples of 102 patients were collected. Mean±SD of age was 36.17±15.2 years and 48% were males. Ulcerative colitis, Crohn’s disease and other colitis were observed in 76 (74.5%), 7 (6.9%) and 19 (18.6%) of patients, respectively. Tissue trans-glutaminase antibody was positive (19.8 U/L) in one 46-years-old male patient with ulcerative colitis.

Conclusion: Tissue trans-glutaminase antibody titer was not significantly different between IBD patients and controls, thus it seems not appropriate to suggest as one of the routine tests in IBD patients.

Keywords: Inflammatory Bowel Disease, Celiac, Tissue trans-glutaminase antibody

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