

Human leukocyte antigen-G (HLA-G) and certain auto antibodies profile of inflammatory bowel disease patients

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Inflammatory Bowel Disease (IBD) is a chronic inflammatory disorder of the bowel represented by two major forms; Ulcerative colitis (UC) and Crohn's disease (CD). Although the idiopathic nature of the disease, its manifestations are almost due to dysregulation of the mucosal immune-tolerance. The present study was designed to evaluate a possible genetic predisposing factor, the secreted HLA-G, and to estimate some auto-antibodies in a group of IBD Iraqi patients (38 with UC and 4 with CD). All patients' sera have assayed using commercial ELISA. A group of 21 apparently healthy individuals was also included. A proportion of 47% of UC patients given positive results for HLA-G, while all (100%) CD patients have shown to expressed this antigen. A high proportion (92%) of positive HLA-G IBD patients has developed arthralgia as an extra-intestinal manifestation. Auto-antibodies were found to be significantly raised among these patients, positive Anti-Lysozyme and Anti-Cathepsin G in 22 (52.38) of IBD patients, moreover, 28 (66.66) of them given positive results for Anti-Elastase auto-antibodies. A strong association between the occurrence HLA-G and different positives of other findings was revealed also. The different expression levels of the studied parameters may help differentiation and following-up this group of patients.

Biography

Hammadi Alhilali completed B.sc in 1987, M.sc 1996, Iraq, Baghdad University/ college of science/ Microbiology, Ph.D in 2006, Baghdad University/ college of medicine/ medical microbiology/Immunology. More than thirteen published paper, supervising more than ten MSc and PhD student in medical microbiology. He is the head of department of medical microbiology/college of medicine/Al-Qadisiya university, Iraq. Now, visiting Iowa State University as a scientific scholar visitor, working on Influenza virus identification and characterization those isolated from human and companion animals toward vaccine preparation. Also a consultant at Diwaniya Teaching hospital, Immunology unit.

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