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### **Seroprevalence of *Helicobacter pylori* and hepatitis C virus antibodies in leukemia and malignant lymphoma**

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The highest prevalence of *Hepatitis C virus* (HCV) and *Helicobacter pylori* has been reported in Egypt but few researches among leukemic and malignant lymphoma cases. So the present study was designed to screen acute leukemia and malignant lymphoma patients for *Helicobacter pylori* antibodies to six virulent antigens by a new line immunoassay and correlate the clinical status to epidemiological markers of bacterial virulence factors as well as screening the same cases to HCV antibodies as a risk cofactor and correlate between both. Cases of the present study were selected from haematology unit of Alexandria Main University Hospital from June 2012 till September 2013. One hundred leukemia/ malignant lymphoma cases who were fully investigated by clinical and laboratory tests were the candidate of our screening serological study. Acute leukemia cases were early diagnosed by CBC and bone marrow examination. Malignant lymphoma was also early diagnosed by lymph node biopsy. Screening for *H. pylori* antibodies to six virulent antigens were performed by line immunoassay following the manufacturer's instructions. It was LINE test kit for the quantitative detection of *H. pylori* specific IgG respectively IgA antibodies in human serum. Screening for HCV antibodies were done by rapid commercial test following the manufacturer's instructions. Our results revealed that antibodies to cytotoxin associated gene (Cag A) were predominant among cases and a significant association ( $p < 0.05$ ) between antibodies to vacuolating (vac) antigens of *Helicobacter pylori* and HCV antibodies among our leukemic and malignant lymphoma cases. We can conclude that rapid non-invasive methods by line immunoassays could easily screen hematogenous malignancies to these carcinogenic pathogens (HCV and *H. pylori*).

#### **Biography**

Morsi M G works as Professor of Medical Microbiology and Immunology in Alexandria Faculty of Medicine, Egypt since 2007. She trained in Immunopathology department in NAMRU-3 in Cairo in 1991-1994 in cellular and molecular immunology. She supervised 32 theses in Medical Microbiology and Immunology. She attended 45 International Medical Conferences and defended 20 theses. She created advanced immunity electronic learning courses for master and doctorate degrees in Medical Microbiology and Immunology. She is the Deputy Chief editor of International Journal of Medicine and Medical Sciences and Volunteer on line Reviewer in International Research Journal of Microbiology. She is the member in the editorial board team of International Journal of Microbiology and Immunology Research. She is the coordinator of Integrated Medical Microbiology & Immunology Program for 2nd, 3rd and 4th undergraduate Medical Students. She is also the member in New York Academia of Science, Coordinator of International Education Program of second year medical students. She is the Academic Advisor of Master degree in Medical Microbiology & Immunology in Alexandria Faculty of medicine and the member of assessor team committee in Legibility Exam.

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