





ثبكة المعلومات الجامعية





جامعة عين شمس

التوثيق الالكتروني والميكروفيلم



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Cytomegalovirus (CMV) problem among blood donors

Thesis

Submitted for partial fulfillment of M.SC Degree in Public Health

By

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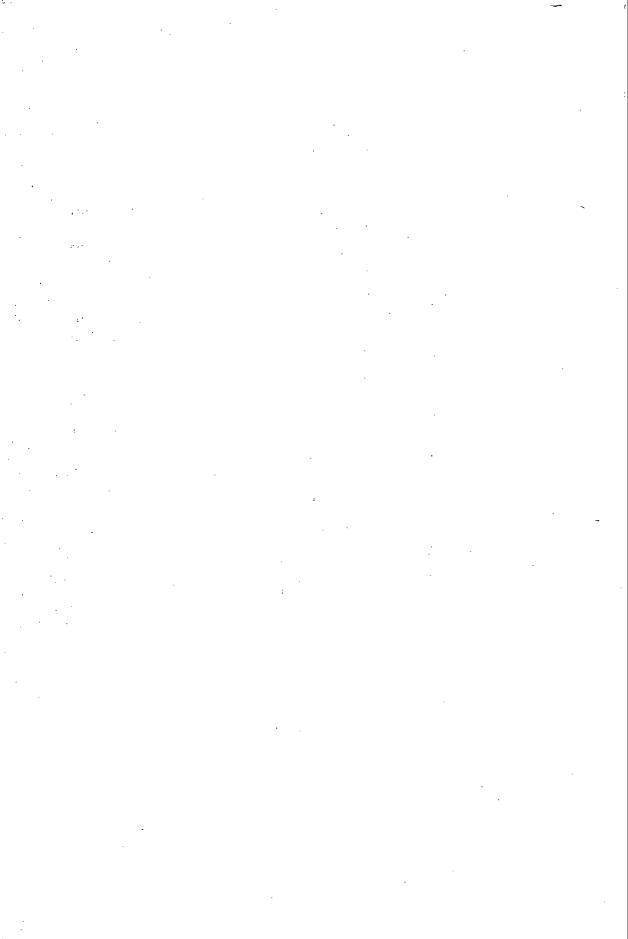
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Abstrac

CytomegaloVirus (CMV) Infection is extremely common and usually affects a large population. In order to estimate the prevalence of blood borne viral infection among blood donors specially cytomegaloviruses (CMV) which is not routinely carried out. This study was carried out on voluntary blood donors in blood bank of National liver Institute in Shebin El-Kom City. They were asked about previous history of blood donation, blood transfusion, operations or jaundice. Their ages ranged from 18-50 years and they consisted of 86 males and 64 females. All donors were clinically free. Blood samples were taken and sera were tested for : HBsAg using Latex Agglutination test, HCV using ELISA, HIV using ELISA, CMV using ELISA. The results revealed that the total prevalence of CMV,HBV, HCV and AIDS was 40.6%,4,69%,24% and 0% respectively. There was no statistical significant difference in the prevalence of these viruses according to sex (P>.05) but the prevalence of CMV and HBV was highest among paramedical workers (P<05) while that of HCV was highest among farmers (P<.05). The final conclusion was that CMV and HCV should be considered as a health problem in Egypt, therefore screening for their

antibodies should be mandatory in all blood banks for lowering the risk of post transfusion infection.

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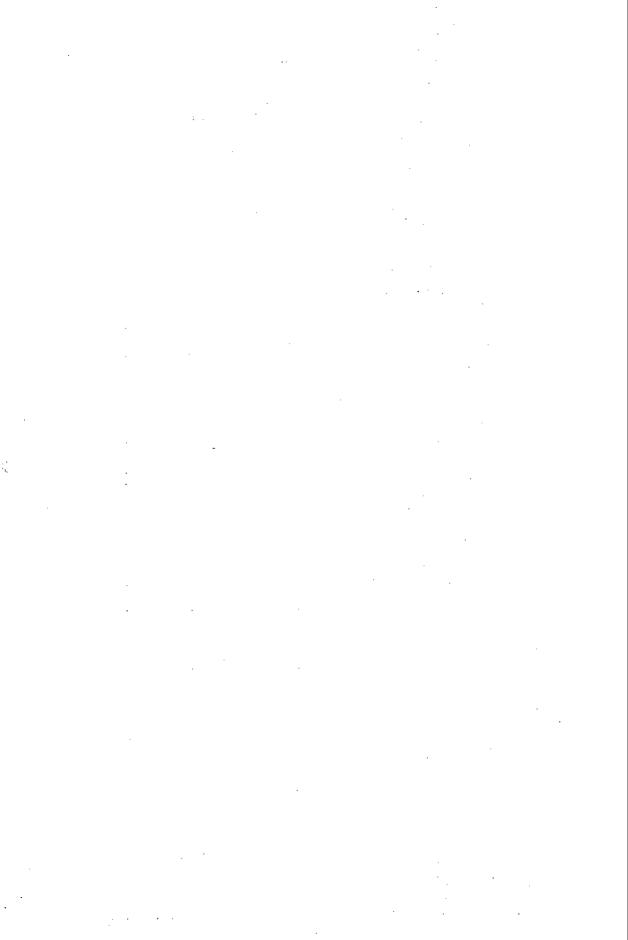
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List of Abbreviations

AIDs = Aquired Immunodefficiency Syndrome

CMV = Cytomegalovirus.

EBV = Ebstein Barr Virus

EIA = Enzyme Immunoassay.

ELISA = Enzyme Linked Immunosorbent Assay.

HAV = Hepatitis A Virus.

HBV = Hepatitis B Virus.

HBc Ag = Hepatitis B core Antigen.

HBeAg = Hepatitis B e Antigen.

HBsAg = Hepatitis surface Antigen.

HCV = Hepatitis C Virus.

HCV Ab = Anti - Hepatitis C Antibodies

HDAg = Hepatitis D antigen

HDV = Hepatitis D Virus.

HGV = Hepatitis G Virus.

HTLV = Human T- Leukemia virus

IgG = Immunoglobulin G

LDH = Lactate Dehydrogenase

PCR= Polymerase Chain Reaction

OPD = O-Phenyl enediamine

RIBA = Radioimmunosorbent Assay

R.R.R = Rapid Plasma Reagen