

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم



شبكة المعلومات الجامعية

جامعة عين شمس

التوثيق الالكتروني والميكروفيلم

قسم

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Prevalence of Human Herpes Virus-6 in Polytransfused Egyptian Children and Clinical Impact

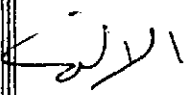
Thesis
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in Pediatrics

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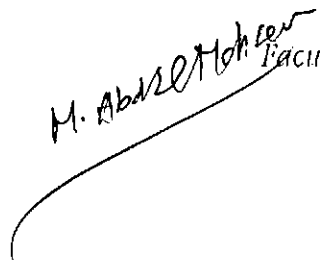
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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

سُبْحَانَكَ اللَّهُمَّ إِنَّا نَعْلَمُ أَنَّكَ عَالِمٌ

إِنَّا أَنْتَ الْعَلِيمُ الْحَكِيمُ

سورة البقرة ٢٠٠ آية ٢٢

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To my family and every one who participate in some way or to let this work come to such final picture, I owe my thanks and gratitude.

Laila Abd El Fattah

A black and white line drawing of a scroll. The scroll is unrolled, showing text. At the bottom right, there is a ribbon tied in a bow. The ribbon has a circular medallion at the top with a sunburst or starburst pattern.

DEDICATION

**WITH ALL MY LOVE,
CARING AND RESPECT**

**I DEDICATE THIS WORK
TO MY LATE MOTHER
WHO I MISSED A LOT**

Prevalence of Human Herpes virus-6 in Polytransfused Egyptian Children and Clinical Impact

Abstract

Key words: Human Herpes virus-6 -Polytransfused

The aim of this study is to assess the prevalence of HHV-6 among polytransfused Egyptian children and its clinical impact. The study was conducted on 60 patients attending the Pediatric Haematology Clinic at the Children's Hospital-Ain Shams University (20 children of chronic hemolytic anemia, 20 with aplastic anemia and 20 with haemophilia). The study included also 30 apparently healthy, age and sex matched subjects as control group.

All studied groups were subjected to full history taking and thorough clinical examination for fever, rash or any unexplained illness following the infection. Investigations done included, complete blood count (CBC), liver enzyme assay to ALT and AST, Hepatitis markers HBsAg- HCV Ab (by ELISA) and HHV6 IgM by (IFA).

The study showed that there was significantly higher prevalence of HHV-6 infection among diseases children 52% compared to the control group (20%). Among the 3 groups of diseased children, the highest percentage was among group of aplastic anaemia 80% ($p<0.01$) then the group of chronic haemolytic anaemia 50% ($p<0.05$) and least percentage was among group of haemophilia.

LIST OF CONTENTS

	Page
- Abstract	
- List of Abbreviations	
- List of Tables	
- List of Figures	
▪ Introduction and Aim of the work-----	1
▪ Review of Literature	
♦ Chapter I	
- Human Herpes Virus Type-6 (HHV-6)-----	4
♦ Chapter II	
- Epidemiology of HHV6-----	9
♦ Chapter III	
- Clinical Manifestations of HHV-6-----	14
♦ Chapter IV	
- Blood and blood component transfusion and its risk-	34
▪ SUBJECTS and METHODS	41
▪ RESULTS	50
▪ DISCUSSION	64
▪ SUMMARY and CONCLUSION	71
▪ RECOMMENDATIONS	74
▪ REFERENCES	75
▪ ARABIC SUMMARY	

LIST OF ABBREVIATIONS

ADCC	Antibody dependant cellular cytotoxicity
AIDS	Acquired immune deficiency syndrome
AILD	Angio-immunoblastic lymphadenopathy with dysproteinaemia
ALL	Acute lymphoblastic leukemia
Alt	Alanine aminotransferase
Ast	Aspartate aminotransferase
BMTs	Bone marrow transplants
BMT	Bone marrow transplant
CD	Cluster of differentiation.
CMV	Cytomegalovirus
CSF	Cerebrospinal fluid
CFS	Chronic fatigue syndrome
DNA	Deoxyribonucleic acid
EBV	Epstein-Barr virus
ES	Exanthem subitum
GVHD	Graft versus host disease
HBLV	Human B-lymphotropic virus
Hb	Haemoglobin
HD	Hodgkin's disease
HIV	Human immunodeficiency virus
HHV-6	Human herpes virus type-6
HHV-7	Human herpes type 7
HBLV	Human B-lymphotropic virus
HSV-1	Herpes simplex virus type 1
HSV-2	Herpes simplex virus type 2
IFA	Immunofluorescent assay
IFN- α	Interferon alpha
IL-1	Interleukin-1
IgM	Immunoglobulin M
IgG	Immunoglobulin G
MNCs	Mononuclear cells
MS	Multiple sclerosis
NHL	Non Hodgkin's lymphoma
PBL	Peripheral blood lymphocytes
PCR	Polymerase chain reaction
RBCs	Red blood cells
TNF α	Tumor necrosis factor alpha
VZV	Varicella zoster virus

LIST OF TABLES

<i>Review of literature:</i>	Page
Table (1): Herpes viruses that infect human.-----	4
Table (2): Characteristics of the two major variants of HHV6.-----	6
Table (3): Clinical presentation of herpes virus infection.-----	14
Table (4): Human herpesvirus 6-associated roseola.-----	17
Table (5): Guidelines for pediatric RBC's transfusion.-----	39
Table(6): Guidelines for pediatric Granulocyte transfusion.-----	40
Table(7): Guidelines for pediatric platelet transfusion.-----	41
Table(8): Guidelines for Pediatric FFP Transfusions.-----	42
<i>Results:</i>	
Table(1): Presents the age and sex distribution of the studied cases.-----	52
Table(2): Comparison between different groups of children according to number and type of transfusion in the last 6 months.-----	53
Table(3): Demographic features and clinical data of HHV-6 IgM positive among the studies cases.-----	54
Table(4): Comparison between different groups of children as regard Hb, WBC, lymphocytes and platelet.-----	55
Table(5): Comparison between different groups of children as regard serum levels of liver enzymes.-----	56
Table(6): Hepatitis markers (HbsAg and HCV-Ab) among the studied groups.-----	57
Table(7): Percentage distribution of positive cases to HHV-6-IgM in all groups.-----	60
Table(8): Comparison between positive HHV-6 IgM cases and negative HHV-6 IgM cases as regard the blood picture (Hb, total leukocytic count and absolute lymphocytic count).-----	64
Table(9): Comparison between positive HHV-6 IgM cases and negative HHV-6 IgM cases as regard the serum levels of liver enzymes in all patients.	65

LIST OF FIGURES

Review of literature:

	Page
Fig. (1): Schematic diagram of the HSV virion.-----	5
Fig. (2): Geometric mean antibody titers to HHV-6 in 2427 children and the proportion in whom the HHV-6 Genome was detected in peripheral-blood mononuclear cells by PCR, according to age.-----	10

Results:

Fig. (1): Percentage positivity of hepatitis marker (Hbs Ag + HCV Ab) and both among HHV-6 IgM+ve patients-----	59
Fig. (2): Distribution of HHV-6 IgM positive and negative cases in patients and controls.-----	61
Fig. (3): Percentage distribution of positive cases to HHV-6 IgM in different groups of patients and control groups.-----	62
Fig. (4): comparison between mean number of transfusions in last 6 months in positive and negative cases for HHV-6.-----	63

*Introduction
and
Aim of Work*