

***An Immunological Study In Congenital
Heart Diseases In Children***

Thesis

*Submitted in Partial Fulfilment For
The M.D. Degree (Paediatrics).*

By

SALLY AHMED FARID EL-SHRIGY
(M.Sc. Paediatrics)

Under the Supervision of

Prof. Dr. Abdel Khalek Khattab
Prof. of Paediatrics - Ain Shams University

Prof. Dr. Sawsan Amin El-Sokkary
Prof. of Paediatrics - Ain Shams University

Prof. Dr. Osman Galal
Prof. of Paediatrics - National Research Center

Prof. Dr. Laila El-Shawarby
Prof. of Clinical Pathology - Ain Shams University

Faculty of Medicine
Ain Shams University
1993

" بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ "

" قَالُوا سُبْحَانَكَ لَا عِلْمَ لَنَا إِلَّا مَا عَلَّمْتَنَا إِنَّكَ

أَنْتَ الْحَكِيمُ الْحَكِيمُ "

" صَدَقَ اللَّهُ الْعَظِيمُ "

(سورة البقرة آية ٣٢)



Dedication....

***To My Parents
Husband
Daughter***

ACKNOWLEDGEMENT

I would like to express my deep appreciation and sincere gratitude to Professor Dr. Abdel Khalek Kattab, Professor of Pediatrics, Ain Shams University, for granting me the privilege of working under his supervision. His generous advice and criticism were especially essential to complete this work.

I am deeply indebted to Professor Dr. Sawsan Amin El-Sokkary, Professor of Pediatrics, Ain Shams University for her supervision, invaluable support and continuous guidance throughout the entire work.

It was a pleasure to work under the supervision of Professor Dr. Osman Galal, Professor of Pediatrics, National Research Centre for his excellent advice, his meticulous care of the details, his abundant knowledge and continuous encouragement.

I would like to express my deepest gratitude to Professor Dr. Laila El-Shawarby, Professor of Clinical Pathology, Ain Shams University for her generosity in time and effort, for her supervision of both the theoretical and analytical parts of the work.

I wish also to extend my thanks to Dr. Tarek Abdel Gawad, Lecturer of Pediatrics, Ain Shams University for his assistance in the clinical and theoretical part of the work.

I wish also to thank Dr. Hala Talkhan, Lecturer of Clinical Pathology, Ain Shams University, for her assistance and effort in the practical part of the work.

I would like to thank Dr. Iman Ayad, Lecturer of Pediatrics, National Research Centre, and Dr. Hanaa Wafay, Lecturer of Biochemistry, National Research Centre, for their assistance to complete the practical part of this work.

I would like to express my appreciation and gratitude to the support of the National Research Centre and in particular to Professor Dr. Sohair Salem, Professor of Biochemistry and Chairwoman of the Child Health department for her enthusiasm, help and encouragement.

To all who participated in this work in one way or another, I owe my utmost gratitude.

Last, but by no means least, I would like to thank all my patients and their parents, for without their help, this work would have never been accomplished.

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ABBREVIATIONS

CHD	Congenital Heart Disease
VSD	Ventricular Septal Defect
ASD	Atrial Septal Defect
S.V.C.	Superior Vena Cava
PDA	Patent Ductus Arteriosus
F4	Tetralogy of Fallot
BAS	Balloon Atrial Septostomy
TA	Truncus Arteriosus
CHF	Congestive Heart Failure
PFO	Patent Foramen Ovale
PAH	Pulmonary Arterial Hypertension
PVOD	Pulmonary Vascular Obstructive Disease
Igs	Immunoglobulins
CD	Clusters of Differentiation
MHC	Major Histocompatibility Complex
IL	Interleukin
INF	Interferon
NGF	Nerve Growth Factor
FDC	Follicular Dendritic Cells
ICAM-1	Intercellular Adhesion Molecule - 1
LFA - 1	Lymphocyte Function Associated Ag -1
Ag	Antigen
L-Chains	Light Chains
H-Chain	Heavy Chain
V-region	Variable region

C-region	Constant region
K	Kappa
λ	Lambda
Fab	F: fragment, ab: antigen binding
Fc	C: crystallizable.
FcR	Fc receptor
TCR	T cell receptor
APCs	Antigen presenting cells
HLA	Human Leucocyte Antigen.
T ₄	T helper cells
T ₈	T suppressor
PMNL's	Polymorphonuclear leucocytes
ELISA	Enzyme Linked Immunosorbent assay
RIA	Radioimmunoassay
DNA	Deoxyribonucleic acid
RNA	Ribonucleic acid
C	Complement
TNF α	Tumour Necrosis factor α
GM-CSF	Granulocyte/Macrophage Colony Stimulating Factor
BMM	Bone Marrow Derived Macrophages
N.S	Non Significant
H.S.	Highly Significant
S	Significant
S.D.	Standard Deviation
S.E.M.	Standard Error Of Mean
RVE	Right Ventricular Enlargement
LVE	Left Ventricular Enlargement

BVE	Biventricular Enlargement
LAD	Left Atrial Dilatation
RAD	Right Atrial Dilatation
BAD	Biatrial Dilatation
N	Normal
RAXD	Right Axis Deviation
LAXD	Left Axis Deviation
Cong. P.S.	Congenital Pulmonary Stenosis
Cong. M. Cleft	Congenital Mitral Cleft
A.I.	Aortic Incompetence
Hb%	Haemoglobin Percentage
WBC	White Blood Corpuscles
Lymph %	Lymphocytic Percentage
PI	Phagocytic Index
LI	Lytic Index.
RBBB	Right bundle branch block
IRBBB	Intermittent right bundle branch block

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