

IMMUNE RESPONSE TO HEPATITIS B-VACCINE AMONG SCHISTOSOMA INFECTED PATIENTS

THESIS

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THE M.D. DEGREE (CLINICAL PATHOLOGY)**

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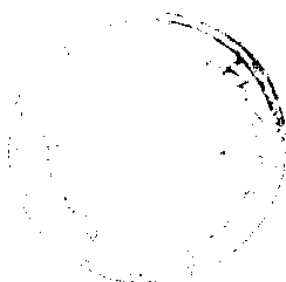
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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ
مَرَّبِّ أَوْزَعْنِي أَنْ أَشْكُرَ نِعْمَتَكَ الَّتِي أَنْعَمْتَ
عَلَيَّ وَعَلَىٰ وَالِدَيَّ وَأَنْ أَعْمَلَ صَالِحًا تَرْضَاهُ
وَأُوَفِّقْنِي بِرَحْمَتِكَ فِي عِبَادَتِكَ الصَّالِحِينَ .
صَدَقَ اللَّهُ الْعَظِيمُ
«الآية ١٩ من سورة الفل»



TO :

MY BROTHERS

MY WIFE; Dr. HODA

&

MY SON MOHAMMAD

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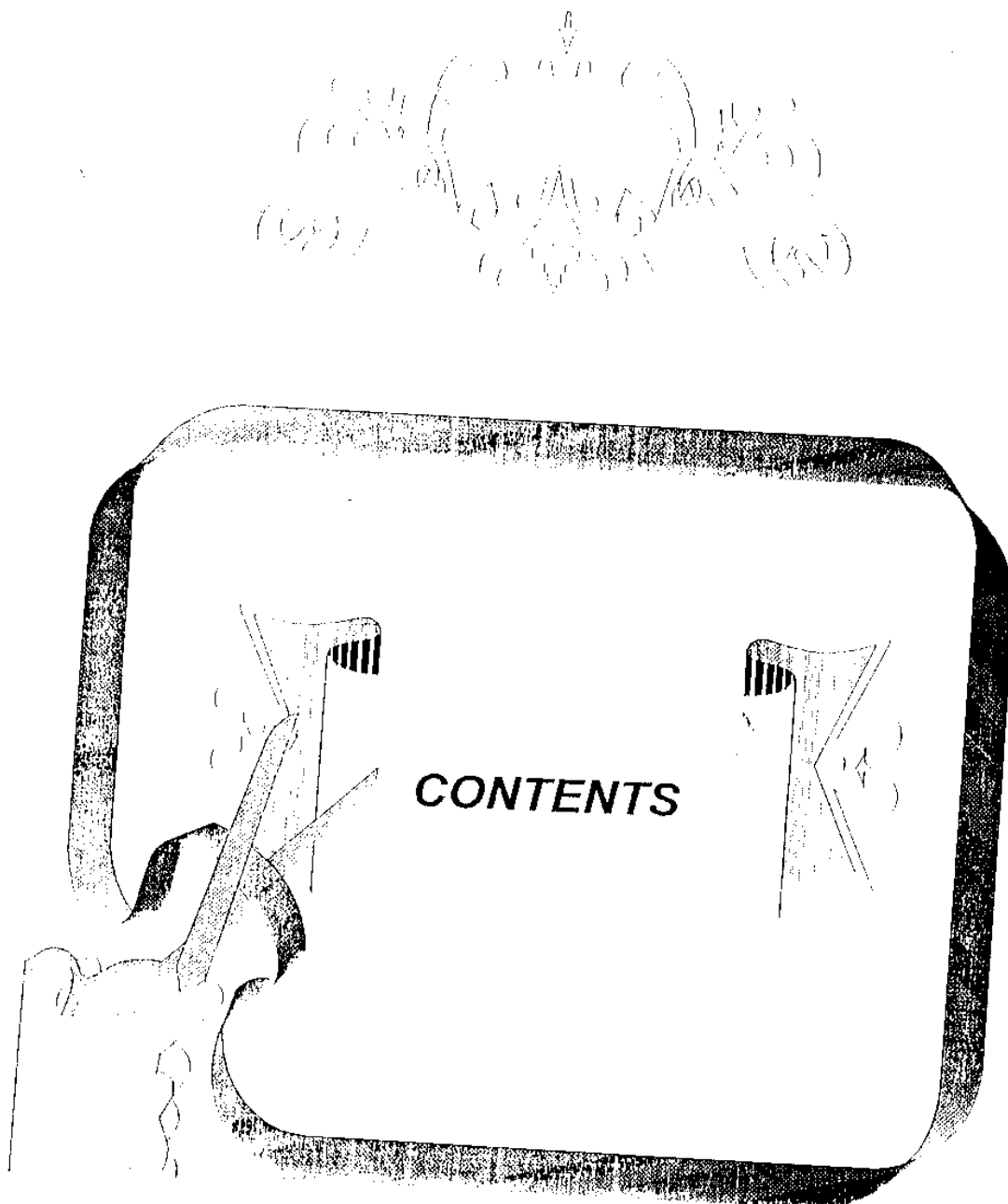
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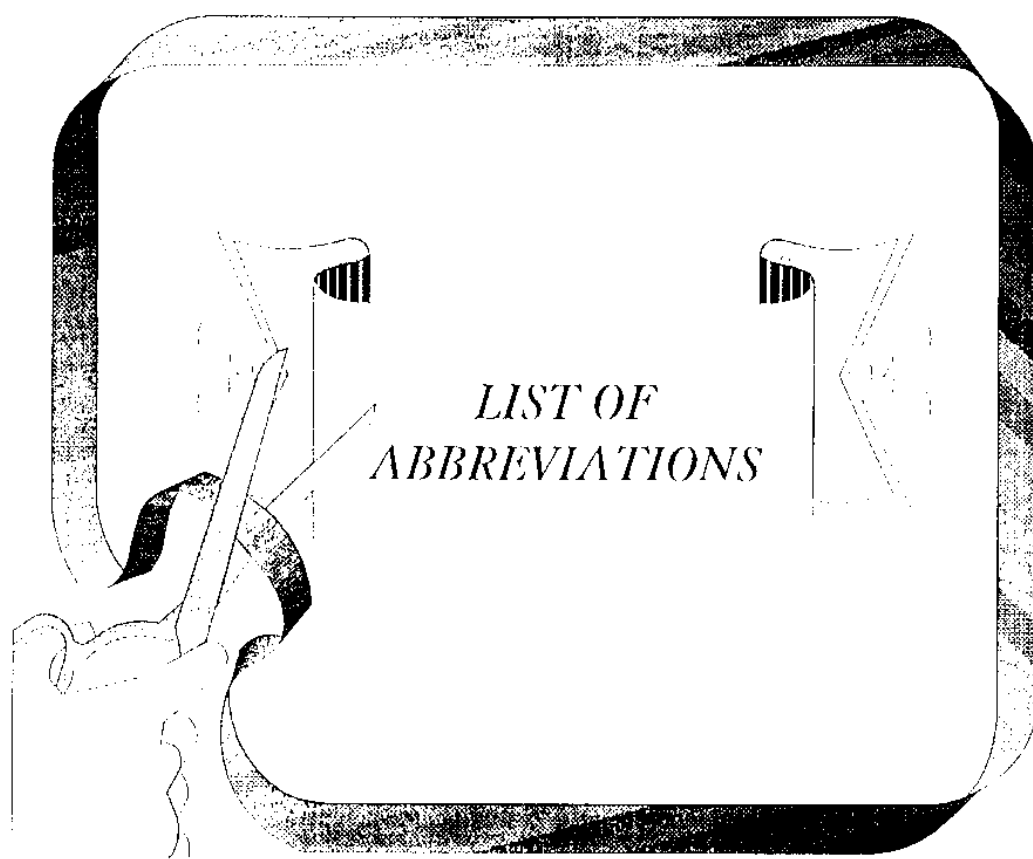
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LIST OF ABBREVIATION

ACA	: Anodal Circulating Antigen.
ACIP	: Immunization Practices Advisory Committee.
ADCC	: Antibody Dependent-cell mediated Cytotoxicity.
Anti-HBc	: Antibody to Hepatitis B core antigen.
Anti-HBe	: Antibody to Hepatitis B (e) antigen.
Anti-HBs	: Antibody to Hepatitis B surface antigen.
APC	: Antigen Presenting Cell.
CAP	: Cercarial Antigen Preparation.
CCA	: Cathodal Circulating Antigen.
CDC	: Centre for Disease Control.
c-DNA	: Complementary DNA.
CFA	: Complete Freund Adjuvent.
CFT	: Complement Fixation Test.
CHO	: Chinese Hamster Ovary
CMI	: Cell-Mediated Immune response.
COPT	: Circumoval precipitin test.
CPM	: Count Per Minute.
E.Coli	: Escherichia coli.
EDTA	: Ethylene Diamine Tetra-acetic Acid.
ELISA	: Enzyme Linked Immunosorbent Assay.
EPO	: Erythropoietin.
FCS	: Fetal Calf Serum.
G-CSF	: Granulocyte Colony Stimulating Factor.
GM-CSF	: Granulocyte-Monocyte Colony Stimulating Factor.

HBcAg	: Hepatitis B core Antigen.
HBeAg	: Hepatitis B (e) Antigen.
HBIG	: Hepatitis B Immunoglobulin.
HBsAg	: Hepatitis B-surface Antigen.
HBV	: Hepatitis B virus.
HB-vaccine	: Hepatitis B vaccine
HCV	: Hepatitis C virus
HLA	: Human Leucocyte Antigen.
IDT	: Intradermal Test.
IFN- α	: Interferon alpha.
IFN-gamma	: Interferon Gamma.
IH	: Immediate Hypersensitivity.
IL-1	: Interleukin -1.
IL-2	: Interleukin-2.
IL-3	: Interleukin-3.
IL-4	: Interleukin-4.
IL-5	: Interleukin-5.
IL-6	: Interleukin-6
IL-7	: Interleukin-7.
IL-8	: Interleukin-8.
IL-9	: Interleukin-9.
IL-10	: Interleukin-10.
IL-11	: Interleukin-11.
IL-12	: Interleukin-12.
IL-13	: Interleukin-13.
IM	: Intra-muscular.

IR	: Immune Response.
KD	: Kilo Dalton.
M-CSF	: Monocyte-Colony Stimulating Factor.
MHC	: Major Histocompatibility Complex.
MSA I,II,III	: Major serological egg Antigens.
NK	: Natural Killer Cells.
PBMC	: Peripheral Blood Mononuclear Cells.
PCR	: Polymerase chain Reaction.
PDV	: Plasma Derived Vaccine.
PHA	: Phytohaemagglutinin.
P.V.or P-value	: Probability value.
r-DNA	: recombinant DNA.
RPM	: Revolution or rotation per minute.
SCF	: Stem Cell Factor.
SEA	: Soluble Egg Antigen.
SI	: Stimulation Index.
SWAP	: Soluble worm Antigen Preparation.
Tc	: Cytotoxic T-cell.
TD	: T-delayed-type hyper sensitivity.
TGF-B	: Tumour Growth Factor B.
Th	: T-helper cells.
Th-1	: T-helper-1
Th-2	: T-helper-2
TNF	: Tumour Necrosis Factor.
TS	: T suppressor.
UB-wall	: Urinary bladder wall.
YDV	: Yeast-derived vaccine.

