Study of Some Cardiopulmonary Functions in Insulin Dependent Diabetic Patients.

Thesis

subjected in partial fulfillment for

Master Degree in Paediatrics

By

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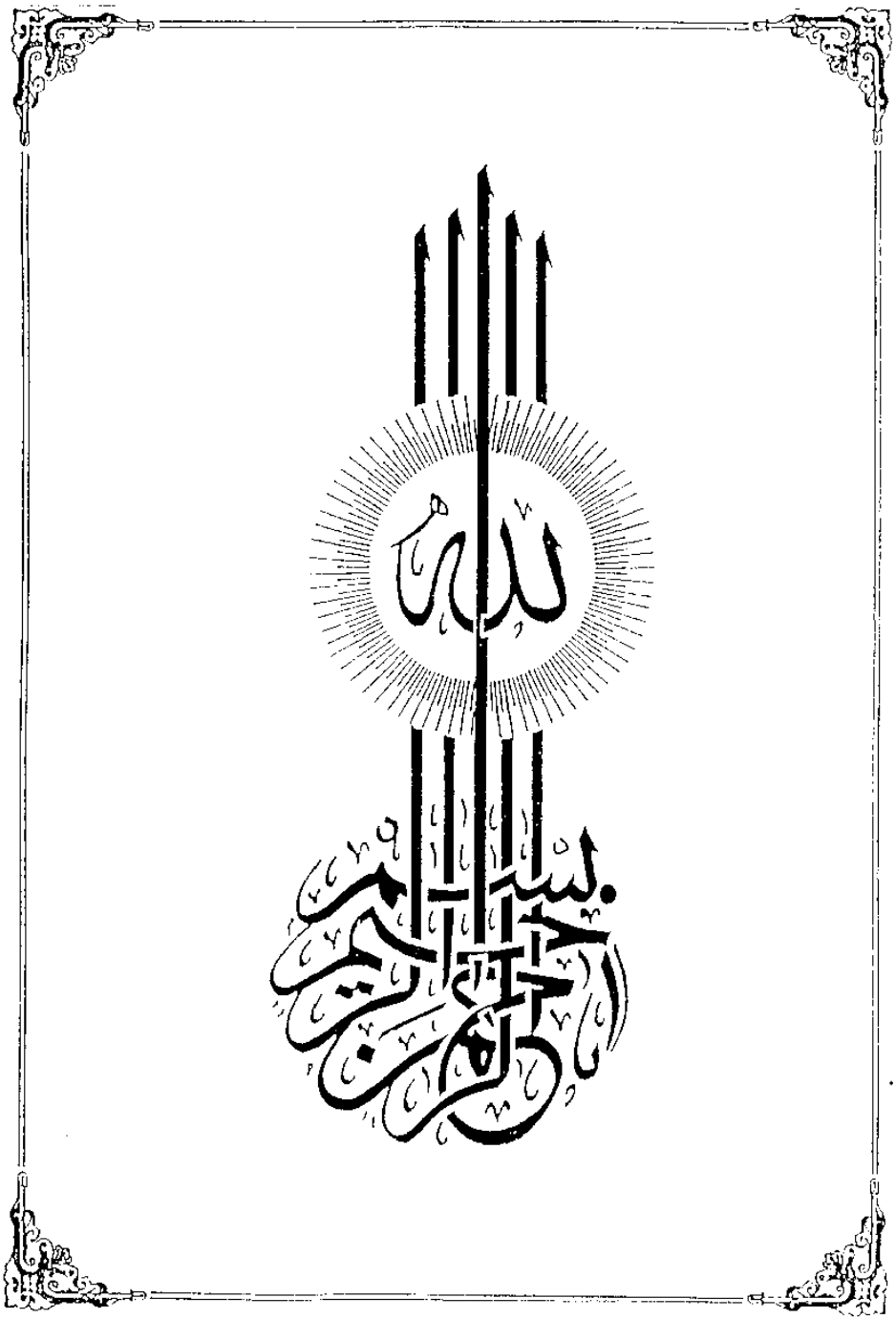

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بسم الله الرحمن الرحيم

قالوا سبحانك لا علم لنا إلا ما
علمتنا إنك أنت العليم
الحكيم

صدق الله العظيم

سورة البقرة
الآية ٣٢

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Man is a mystery. It must be solved, and if you spend your live trying to solve it, you must not say the time was wasted.
I have chosen to occupy myself with this mystery, for I wish to be a man.

Fyodor Doestoevsky
16 August, 1839.

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To my father, my mother, and my husband who suffered alot during preparation of this work.

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List of Contents

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List of Abbreviations

ABBOS:	Bovine serum albumin
ACE:	Angiotensin converting enzyme
ADP:	Adenosine di-phosphate
AER:	Albumin excretion rate
AFTs:	Autonomic function tests
Bp	Blood pressure
BTPS:	Basal temperature and pressure
C-AMP:	Cyclic adenosine monophosphate
CBM:	Capillary basement membrane
CO:	Carbon monoxide
CSII:	Continuous subcutaneous infusion of insulin
CVR:	Cardiovascular reflex
DCCT:	Diabetes control and complications trial
DLCO:	Diffusion capacity of the lung for Co
DM	Diabetes mellitus
E/I:	Expiration/inspiration ratio
ERV:	Expiratory reserve volume
ESRD:	End stage renal disease
FEF:	Forced expiratory flow
FEV1:	Forced expiratory volume in the first second
FMEF:	Forced mid-expiratory flow
FRC:	Functional residual capacity

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FVC:	Forced vital capacity
GAD:	Glutamic acid decarboxylase
GBM:	Glomerular basement membrane
GFR:	Glomerular filtration rate
G-Hb:	Glycosylated hemoglobin
HLA:	Human leucocyte antigen
HR	Heart rate
IAA:	Insulin auto antibodies
IC:	Inspiratory capacity
ICA:	Islet cell antibodies
IDDM:	Insulin dependent diabetes mellitus
IRV:	Inspiratory reserve volume
JDF:	Units
MDI:	Multiple daily injections
NIDDM:	Non insulin dependent diabetes mellitus
PEFR:	Peak expiratory flow rate
RV:	Residual volume
SBGM:	Self blood glucose monitoring
SD	Standard deviation
T.V:	Tidal volume
TLC:	Total lung capacity
VC:	Vital capacity

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