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To be kept away from dust in dry cool place of 15 – 25c and relative humidity 20-40 %



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VENTILATORY FUNCTIONS AND BLOOD GLUCOSE RESPONSE TO MUSCULAR EXERCISE IN NON INSULIN DEPENDANT DIABETES MELLITUS WITH AUTONOMIC NEUROPATHY

Thesis

Submitted for Partial Fulfillment of Master Degree in Internal Medicine

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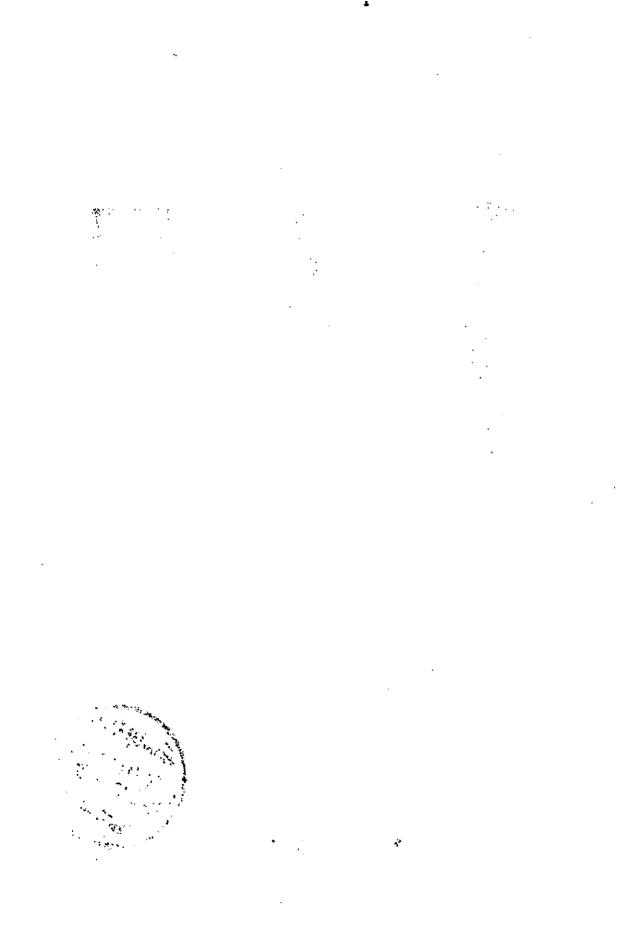
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LIST OF ABBREVIATIONS

A Āngstrom

ADP Adenosine diphosphate
AN Autonomic neuropathy
ANOVA Analysis of variants
ATP Adenosine triphosphate
ATPase Adenosine triphosphatase

BL.G. Blood glucose
B.M.I. Body mass index
Co₂ Carbon dioxide

D.A.N. Diabetic autonomic neuropathy

DL_{CO} Diffusing capacity for carbon monoxide

DM Diabetes mellitus

ERV Expiratory reserve volume

FEF_{25-75%} Forced expiratory flow in 25-75% of vital capacity FEF_{50%} Forced expiratory flow in 50% of vital capacity FEF_{75%} Forced expiratory flow in 75% of vital capacity

FEV₁ Forced expiratory volume in one second

FFA Free fatty acid

FIC Forced inspiratory capacity
FRC Functional residual capacity

FVC Forced vital capacity

GDM Gestational diabetes mellitus

gm Gram

GTT Glucose tolerance test

h Hour

H⁺ Hydrogen

HLA Human leucocytic antigen
2h.p.p. Two hours postprandial
IC Inspiratory capacity
ICA Islet-cell antibody

IDDM Insulin dependant diabetes mellitus

IGT Impaired glucose tolerance
 IRS₋₁ Insulin receptor substrate -one
 IRV Inspiratory reserve volume
 IMGU Insulin mediated glucose uptake

K Potassium K cal Kilo calorie

Lit Liter Mean

M₁ Muscarnic 1-receptor
 M₂ Muscarnic 2-receptor
 MAP Mitogen activated protein
 MBC Maximum breathing capacity

MEF_{50%} Maximal expiratory flow at 50% of vital

capacity

MEF_{75%} Maximum expiratory flow at 75% of vital capacity

MEFV Maximal expiratory flow volume curve

MIF_{50%} Maximum inspiratory flow at 50% of vital capacity

min Minute

mMol/dl Millie-mole per deciliter

MODY Maturity onset diabetes of young age MRDM Malnutrition related diabetes mellitus

MVV Maximum voluntary ventilation

N₂ . Nitrogen Na Sodium

NANC Non-adrenergic non-cholinergic

NEFA Non-estrified fatty acids

NIDDM Non-insulin dependant diabetes mellitus NIMGU Non-insulin mediated glucose uptake

nm Nano-meter No. Number

N.S. Non-significant

O₂ Oxygen

PCo₂ carbon dioxide tension PIF Peak inspiratory flow

Po₂ Oxygen tension

~Po₄ High energy phosphate

pot. AGT Potential abnormality of glucose tolerance prev. AGT Previous abnormality of glucose tolerance

PRP Pressure rate product

QCo₂ Carbon dioxide production by cells

Q₀₂ Oxygen consumption by cells

RIA Radio-immune assay

RQ Metabolic respiratory quotient

RV Residual volume

S. Significant

S.D. Standard deviation

sec. Second

SPSS Statistical package of social sciences

TLC Total lung capacity Vc Vital capacity

VCo₂ Carbon output by the lung VD Dead space ventilation VE Minute ventilation

V_{O2} Oxygen uptake by the lung V_{O2max} Maximum aerobic capacity

VT Tidal volume

