بسم الله الرحمن الرحيم

شبكة المعلومـــــات الجامعية

التوثيق الالكتروني والميكروفيلم

شبكة المعلومات الجامعية

جامعة عين شمس

التوثيق الالكتروني والميكروفيلم

﴿ قـــسـم ﴾

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها
علي هذه الأفلام قد اعدت دون آية تغيرات

يجب أن

تحفظ هذه الأفلام بعيداً عن الغبار

في درجة حرارة من 15 – 20 مئوية ورطوبة نسبية من 20-40 %

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

بعض الوثائق الأصلية تالفة

بالرسالة صفحات

لم ترد بالأصـــل

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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CONTENTS

LIST OF ABBREVIATIONS

A	Ängstrom
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
Co_2	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
FEV_1	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
M	Mean
M_1	Muscarnic 1-receptor
M_2	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
N_2	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
O_2	Oxygen
PCo_2	carbon dioxide tension
PIF	Peak inspiratory flow
Po_2	Oxygen tension
$\sim Po_4$	High energy phosphate
pot. AGT	Potential abnormality of glucose tolerance
prev. AGT	Previous abnormality of glucose tolerance
PRP	Pressure rate product
QCo_2	Carbon dioxide production by cells
Qo_2	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
VCo_2	Carbon output by the lung
VD	Dead space ventilation
VE	Minute ventilation
Vo_2	Oxygen uptake by the lung
Vo_{2max}	Maximum aerobic capacity
VT	Tidal volume