

Assessment of Serum Retinol-Binding Protein-4 Levels in Patients with Acute Exacerbation of Chronic Obstructive Pulmonary Disease admitted to Intensive Care Unit

Thesis

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In Chest Diseases*

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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

قالوا

لَسْبَدَانِكَ لَا عِلْمَ لَنَا
إِلَّا مَا عَلَّمْتَنَا إِنَّكَ أَنْتَ
الْعَلِيمُ الْعَظِيمُ

صدق الله العظيم

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List of Abbreviations

Abb.	Full term
ACC	Acetyl CoA Carboxylase-1
ACOS	Asthma-COPD overlap syndrome
AECOPD	Acute Exacerbation of Chronic Obstructive Pulmonary Disease
ALI	Acute Lung Injury
ALT	Alanine Aminotransferase
AMP	Adenosine Monophosphate
ANOVA	Analysis of variance
APACHE2	Acute Physiology and Chronic Health Evaluation 2
APOB	Apolipoprotein B
AST	Aspartate Aminotransferase
ATS	American thoracic society
ATT	Alpha One Antitrypsin
B2	Beta 2 receptor
BMI	Body Mass Index
CAD	Coronary Artery Disease
CAT	COPD assessment test
cAMP	Cyclic Adenosine Monophosphate
CBC	Complete Blood Count
CCQ	COPD control questionnaire
CD8	Killer T-cell
COPD	Chronic obstructive pulmonary disease
CREP	cAMP response element-binding protein
CRP	C-Reactive Protein
CRQ	Chronic respiratory questionnaire
CT	Computerized Tomography
CVD	Cardio Vascular Disease
DGAT2	Diacylglycerol Transferase-2
Di1	First Phase Disposition Index
DLC0	Diffusion Lung Capacity for Carbon monoxide
DM	Diabetes Mellitus
DNA	deoxyribonucleic acid
EDTA	Ethylene Diaminete Traacetic Acid

Abb.	Full term
EELV	End Expiratory Lung Volume
EFL	Expiratory Flow Limitation
EGFR	Epidermal growth factor receptor
ELISA	Enzyme-Linked Immunosorbent Assay
ESR	Erythrocyte Sedimentation Rate
FAS	Fatty Acid Synthase
FCR	Fractional Catabolic Rate
FEV	Forced expiratory volume
FEV₁	Forced expiratory volume in the first second
FFA_s	Free Fatty Acids
FMD	Flow Mediated Dilatation
FRC	Functional Residual Capacity
FVC	Forced vital capacity
G1C	Fasting serum Glucose Level
GDR	Glucose Disposal Rate
GFR	Glomerular Filtration Rate
GLUT4	Glucose Transporter Type 4
GM-CSF	Granulocyte-Macrophage Colony Stimulating Factor
GOLD	Global Initiative For Chronic Obstructive Pulmonary disease
GSM	Gray Scale Median
H₂O	Hydrogen Monoxide
Hb A1c	Glycated Hemoglobin
HDLc	High Density Lipoprotein Cholesterol
HepG2	Human Liver Tumor Cell Line
HMW	High Molecular Weight
HOMA	Homeostasis Model Assessment of Insulin Resistance
HRCT	High Resolution Computed Tomography
IC	Inspiratory Capacity
ICU	Intensive Care Unit
I/E	Inspiratory / Expiratory
IGT	Impaired Glucose Tolerance
IL	Interleukin
IL 8	Interleukin 8
IMT	Intima Media Thickness

Abb.	Full term
ITUS	Intensive Units
KD_a	Kilo Dalton
KPa	Kilopascal
KW_X²	Kruskal Wallis test
LD	Lipodystrophy
LDLC	Low Density Lipoprotein Cholesterol
mMRC	Modified Medical Research Council
mRNA	Messenger Ribonucleic acid
MS	Metabolic Syndrome
NAFLD	Non Alcoholic Fatty Liver Disease
NGT	Normal Glucose Tolerance
NIPPV	Non-Invasive Positive Pressure Ventilation
NIV	Non-invasive Ventilation
NK cells	Natural Killer cells
Ob/Ob	Obese Mouse
OD	Optical Density
OGTT	Oral Glucose Tolerance Test
OSA	Obstructive sleep apnea
PaO₂	Partial Pressure of oxygen
PaCO₂	Partial Pressure of Carbon Dioxide
PCOS	Polycystic Ovary Syndrome
PEEP	Positive End Expiratory Pressure
PEEPi	intrinsic positive end-expiratory pressure
PGC1b	Peroxisome Proliferator Activated Receptor-c Coactivator 1-b
PH	Power Of Hydrogen
PI	Protease Inhibitor
PL	Lung Recoil pressure
RBP4	Retinol Binding Protein 4
rs	Spearman coefficient
SD	Standard deviations
SdLDLC	Small Dense Low Lipoprotein Density
SREBP1	Sterol Regulatory Element Binding Protein-1
SST	Serum Separator Tube
T1 DM	T 1 Diabetes Mellitus
T2 DM	Type 2 Diabetes Mellitus
t	Student t-test

Abb.	Full term
TB	Tuberculosis
TC	Total Cholesterol
TNF	Tumor necrosis factor
TNF-α	Tumor necrosis factor alpha
	Towards a Revolution in COPD Health
TRG	Triglycerides
TTR	Tetrameric Protein Transthyretin
V'	Gas flow
VILI	Ventilator Induced Lung Injury
VLDLC	Very Low Density Lipoprotein Cholesterol
V'max	Maximal expiratory flow
Vr	Relaxation volume
V/Q	Ventilation / perfusion
	White Blood Count
WHO	World Health Organization
X²	Chi square test
Z	Mann Whitney test

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Introduction

