

# بسم الله الرحمن الرحيم





# شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم





# جامعة عين شمس

التوثيق الإلكتروني والميكروفيلم

## قسم

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# **Evaluation of Plasma Urokinase –Type Plasminogen Activator Receptor and Interleukin 34 in Patients with Chronic Hepatitis C as Serological Fibrosis Markers**

Thesis submitted for Partial fulfillment for the MD Degree in Clinical pathology

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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

قالوا

سببنا انك لا تعلم لنا  
إلا ما علمتنا انك أنت  
العليم العظيم

صدق الله العظيم

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<b>List of abbreviations</b>	
ADAM-13	A disintegrin and metalloproteinase with a thrombospondin type1 motif member 13
AHF	Acute heart failure
AKI	Acute kidney injury
ALB	Albumin
ALD	Alcoholic liver diseases
ALF	Acute liver failure
ALP	Alkaline phosphatase
ALT	Alanine transaminase
AML	Acute myeloid leukemia
AMP	Adenosine monophosphate
AMPK	Adenosine monophosphate activated protein kinase
ANA	Antinuclear antibody
APC	Activated protein C
APRI	Aspartate aminotransferase to platelet ratio index
APTT	Activated partial thromboplastin time
ARFI	Acoustic radiation force impulse
AS	Ankylosing spondylitis
ASMA	Antismooth muscle antibody
AST	Aspartate aminotransferase
AT	Antithrombin
AUC	Area under curve
CAD	Coronary artery disease
CBC	Complete blood count
CCL	Chemokine (C-C motif) ligand



<b>List of abbreviations</b>	
CCR	Chemokine receptor
cDCs	Classical dendritic cells
cDNA	complementary DNA
CHF	Chronic heart failure
CI	Confidence interval
CIA	Chemiluminescence immunoassay
CKD	Chronic kidney disease
COPD	Chronic obstructive pulmonary disorder
COVID-19	Corona virus disease of 2019
CRP	C reactive protein
CSC	Cancer stem cell
CSF	Cerebrospinal fluid
CSF-1	Colony stimulating factor 1
CSF-1R	Colony stimulating factor-1 receptor
CXCL	Chemokine (C-X-C motif) ligand
D	Domain
D.BIL	Direct bilirubin
DAAs	Direct acting antivirals
DC	Dendritic cell
DMARDs	Disease modifying antirheumatic drugs
ECM	Extra cellular matrix
EDTA	Ethylenediaminetetraacetic acid
EGF	Epidermal growth factor
eGFR	Estimated glomerular filtration rate

<b>List of abbreviations</b>	
EIA	Enzyme immunoassay
EIAV	Equine infectious anemia virus
ELISA	Enzyme linked immunosorbent assay
ERK1/2	Extracellular signal regulated protein kinases 1 and 2
EVR	Early virological response
FAK	Focal adhesion kinase
FDPs	Fibrin degradation products
FIB-4	Fibrosis-4
Foxp3+	Forkhead box P3
FSGS	Focal segmental glomerulosclerosis
GGT	Gamma glutamyl transferase
GPI	Glycosyl phosphatidylinositol
Hb	Hemoglobin
HBsAg	Hepatitis B surface antigen
HBV	Hepatitis B virus
HC	Hepatocytes
HCC	hepatocellular carcinoma
HCV	Hepatitis C virus
HCV Ab	Hepatitis C virus antibody
HCVc Ag	The HCV core antigen
HGF	Hepatocyte growth factor
HIV	Human immunodeficiency virus
HIV Ab	Human immunodeficiency virus antibody
HMWK	High molecular weight kininogen
HOMA	Homeostatic model assessment

<b>List of abbreviations</b>	
HRP	Horseradish peroxidase
HSC	Hepatic stellate cell
IASL	International Association for Study of the Liver
IBD	Inflammatory bowel disease
IFN	Interferon
Ig	Immunoglobulin
IL	Interleukin
INR	International normalized ratio
IQR	inter-quartile range
JAK	Janus kinase
JNK	Jun N-terminal kinase
KC	Kupffer cell
LDLR	low density lipoprotein receptor
LOX	Lysyl oxidase
LPO	Lipid peroxidation
LPS	Lipopolysaccharide
LSD	Least significant difference
LSEC	Liver sinusoidal endothelial cell
LSM	liver stiffness measurement
Ly-6	Lymphocyte antigen 6
M-CSF	Macrophage colony stimulating factor
MHC	Major histocompatibility complex
MM	Multiple myeloma
MMP	Matrix metalloproteinase
MR	Magnetic resonance

<b>List of abbreviations</b>	
MRE	Magnetic resonance elastography
mRNA	messenger ribonucleic acid
NAFLD	Nonalcoholic fatty liver disease
NAT	Nucleic acid testing
NF- $\kappa\beta$	Nuclear factor-kappa $\beta$
NK	Natural killer
NKT	Natural killer T cell
NPV	Negative predictive value
NS	Non structural protein
NSCL	Non small cell lung cancer
OCPs	Osteoclast progenitors
p38 MAPK	p38 mitogen-activated protein kinase
PAI	Plasminogen activator inhibitor
PAMPs	Pathogen associated molecular patterns
PBMC	Peripheral blood mononuclear cell
PC	Prothrombin concentration
PCR	Polymerase chain reaction
pDCs	Plasmacytoid dendritic cells
PDGF	Platelet derived growth factor
PI3K/AKT	3,phosphoinositide 3-kinase/ protein kinase B
PIINP	Procollagen II N- terminal propeptide
PL	Phospholipid
PLT	Platelet
PPV	Positive predictive value
Ps	Psoriasis



<b>List of abbreviations</b>	
PsA	Psoriatic arthritis
PT	Prothrombin time
PTP- $\zeta$	Protein tyrosine phosphatase-zeta
RA	Rheumatoid arthritis
RBC	Red blood cell
RIBA	Recombinant immunoblot assay
RNA	Ribonucleic acid
ROC	Receiver operating characteristic curve
ROS	Reactive oxygen species
RVR	Rapid virological response
SD	Standard deviations
Serpins	Serine protease inhibitors
SGOT	Serum glutamic oxaloacetic transaminase
SGPT	Serum glutamic pyruvic transaminase
SLE	Systemic lupus erythematosus
SMA	Smooth muscle actin
SPSS	Statistical Package for Social Science
Ssc	Systemic sclerosis
STAT	Signal transducer and activator of transcription
sUPAR	Soluble urokinase plasminogen activator receptor
SVR	Sustained virological response
SWE	Shear wave elastography
T.BIL	Total bilirubin
T2DM	Type 2 diabetes mellitus
TAFI	Thrombin activatable fibrinolysis inhibitor

<b>List of abbreviations</b>	
TECs	Tubular endothelia cells
TF	Tissue factor
TFPI	Tissue factor pathway inhibitor
TGF- $\beta$ 1	Transforming growth factor beta 1
Th	T helper
TIMP	Tissue inhibitors of metalloproteinase
TMA	Transcription mediated amplification
TME	Tumor microenvironment
TNF- $\alpha$	Tumor necrosis factor alpha
tPA	Tissue plasminogen activator
TPO	Thrombopoietin
Tregs	Regulatory T cell
TTIs	Transfusion transmitted infections
ULK	UNC-51-like kinase
UPA	Urokinase plasminogen activator
UPAR	Urokinase plasminogen activator receptor
UTR	Untranslated regions
VEGF	Vascular endothelial growth factor
VTE	Venous thromboembolism
VWF	von willebrand factor
WBC	White blood cell
WHO	World health organization
$\alpha$ SMA	Alpha smooth muscle actin

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