

**TRANSIENT ELASTOGRAPHY AND YKL-40 AS
PREDICTORS OF HEPATIC FIBROSIS IN
PATIENTS WITH CHRONIC HEPATITIS C**

Thesis

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Tropical Medicine

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List of Abbreviations

A	: Activity
ACR	: Acute cellular rejection
AIH	: Autoimmune hepatitis
AKT	: Protein kinase B
ALD	: Alcoholic liver disease
ALT	: Alanine aminotransferase
ANA	: Antinuclear antibody
APRI	: AST-to-Platelet Ratio Index
ARFI	: Acoustic radiation force imaging
AUC	: Area under the ROC curve
BM	: Bone marrow
BMI	: Body mass index
CHC	: Chronic hepatitis C
CI	: Confidence interval
CINC	: Cytokine-induced neutrophil chemoattractant
CNIs	: Calcineurin inhibitors
CT	: Computed tomography
CTGF	: Connective tissue growth factor
CTL	: Cytotoxic T cell

DDAVP : 1-Deamino-8-D-arginine Vasopressin=desmopressin

DMARDs : Disease modifying antirheumatic drugs

ECM : Extracellular matrix

ELISA : Enzyme-Linked Immunosorbent Assay

EMT : Epithelial-mesenchymal transition

ERK1/ ERK2 : Extracellular signal-regulated kinase-1 and 2

ET-1 : Endothelin-1

F : Fibrosis

FS : FibroScan®

GGT : γ -glutamyl transferase

HA : Hyaluronic acid

HAI : Histologic Activity Index

HBV : Hepatitis B virus

HCC : Hepatocellular carcinoma

Hcl : Hydrochloric acid

HCV : Hepatitis C virus

HIV : Human immunodeficiency virus

HSC : Hepatic stellate cells

hsCRP : hsC-reactive protein

HVPG : Hepatic venous pressure gradient

ICC : Intra-class correlation coefficients

IGF-1 : Insulin-like growth factor

IgG : Immunoglobulin G

IL : Interleukin

INR : International normalization ratio

IQR : Interquartile range

KCs : Kupffer cells

LS : Liver stiffness

LSM : Liver stiffness measurement

MAPK : Mitogen-activated protein kinase

CP-1 : Chemoattractant protein-1

MCP-1 : Monocyte chemotactic protein 1

MFAP-4 : Microfibril-associated glycoprotein 4

MHC – class II : Major histocompatibility complex class II

MHC : Major histocompatibility complex

MIP-2: Macrophage inflammatory protein-2

MMF : Mofetile mycophenolate

MMPs : matrix metalloproteinases

MT-MMP: Membrane-bound Matrix Metalloproteinases

NAS : NAFLD Activity Score

NAFLD: Non alcoholic fatty liver disease

NaOH : Sodium Hydroxide

NASH: Non alcoholic steatohepatitis

NC1 and PIVNP : Type IV collagen and its fragments

NK : Natural killer cells

NO : Nitric oxide

NPV : Negative predictive value

NSAIDs : Nonsteroidal anti-inflammatory drugs

OELF: Original European Liver Fibrosis

PBC : Primary biliary cirrhosis

PDGF : Platelet derived growth factor

PI3K : Phosphoinoside-3 kinase

PI3K : Phosphoinoside-3 kinase

PICP : Carboxy -terminal propeptide of procollagen type-I

PICP: Procollagen type I carboxy terminal peptide

PIIINP: Procollagen type III amino-terminal peptide

PON-1: Paraoxonase 1

PPV : Positive predictive value

PT : Prothrombin time

ROS: Reactive oxygen species

SAARDs : Slow acting antirheumatic drugs

SD : Standard deviation

TCR : T-cell receptor;

TE : Transient elastography

TE: Transient elastography

TGF- β : Transforming growth factor beta

Th : T helper;

Th1 : Helper T cells with a type 1 cytokine profile;

Th2 : Helper T cells with a type 2 cytokine profile;

Th3 : Helper T cells with a type 3 cytokine profile

TIMPs: Tissue inhibitors of metalloproteinases

TIPS : Transjugular intrahepatic portosystemic shunt

TNF : Tumor necrosis factor)

TNF-alpha : Tumor necrosis factor alpha

TNF- α : Tumor necrosis factor alpha

US : Ultrasound

VCTE : Vibration-controlled transient elastography

VSMCs: Vascular smooth muscle cells

YKL-40: chitinase-3-like-1 [CHI3L1], human cartilage glycoprotein-39

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