



**SERUM AND SYNOVIAL FLUID LEVELS OF MATRIX
METALLOPROTEINASE-3 AS A BIOMARKER OF JOINT
DAMAGE IN PATIENTS WITH RHEUMATOID
ARTHRITIS**

Thesis

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List of Abbreviations

AAOS	American Academy of Orthopaedic Surgeons
ACI	Autologous Chondrocyte Implantation
ACR	American College of Rheumatology
ACS	Acute Coronary Syndrome
AD	Alzheimer Disease
ADLs	Activities of Daily Living
ALT	Alanine Aminotransferase
Anti-CCP	Anti-Cyclic Citrullinated Peptides
AS	Ankylosing Spondylitis
AST	Aspartate Aminotransferase
AUC	Area Under Curve
AZA	Azathioprine
bDMARD	Biological Disease Modifying Antirheumatic Drugs
BMP-7	Bone Morphogenetic Protein-7
BUN	Blood Urea Nitrogen
CBC	Complete Blood Count
CDAI	Clinical Disease Activity Index
CNS	Central Nervous System
COX-2	Cyclo-Oxygenase-2
CRC	Colorectal cancer
CRP	C-reactive protein
csDMARDS	Conventional Synthetic Disease Modifying Antirheumatic Drugs
CSF	Cerebrospinal Fluid
CTLA-4	Cytotoxic T-Lymphocyte-associated Antigen 4

List of Abbreviations

DAS	Disease Activity Score
DAS28	Disease Activity Score Based on 28 Joint Count
DMARDs	Disease Modifying Antirheumatic Drugs
ECM	Extracellular Matrix
EGF	Epidermal Growth Factor
ELISA	Enzyme Linked Immuno Sorbent Assay
EMMPRIN	Extracellular Matrix Metalloproteinase Inducer
ER	Erosions
ESR	Erythrocyte Sedimentation Rate
EULAR	European League against Rheumatism
FGF	Fibroblast Growth Factor
HSA	Human Serum Albumin
HCQ	Hydroxychloroquine
HRCT	High Resolution Computed Tomography
IFN	Interferon
IGF	Insulin like Growth Factor
IgG	Immunoglobulin G
IgM	Immunoglobulin M
IL	Interleukin
ILD	Interstitial Lung Disease
IV	Intravenous
JSN	Joint Space Narrowing
K/L	Kellgren and Lawrence system
Kda	Kilodalton
LEF	Leflunomide
LFT	Liver Function Test

List of Abbreviations

MCP	Metacarpophalangeal
MG	Myasthenia gravis
MHZ	Megahertz
MI	Myocardial Infarction
MMP-3	Matrix Metalloproteinase-3
MMPIs	Matrix metalloproteinases Inhibitors
MMPs	Matrix Metalloproteinases
MMSE	Mini Mental State Examination
MRI	Magnetic Resonance Imaging
MS	Multiple sclerosis
MTP	Metatarsophalangeal
MTX	Methotrexate
NO	Nitric Oxide
NPV	Negative Predictive Value
NSAID	Non-steroidal Anti-inflammatory Drugs
OA	Osteoarthritis
OARSI	Osteoarthritis Research Society International
OD	Optical Density
OMERACT	Outcome Measures in Rheumatoid Arthritis Clinical Trials
PAS	Pulmonary Artery Systolic Pressure
PDGF	Platelet Derived Growth Factor
PGA	Patient Global Assessment of general health
PIP	Proximal Interphalangeal
PNGD	Palisaded Neutrophilic Granulomatous Dermatitis

List of Abbreviations

PPV	Positive Predictive Value
PRP	Platelet Rich Plasma
P-Value	Propability Value
PVR	Pulmonary Vascular Resistance
RA	Rheumatoid Arthritis
RANKL	Receptor Activator of Nuclear factor kappa-B Ligand
RF	Rheumatoid Factor
rhBMP-7	Recombinant Human Bone morphogenetic Protein-7
rhFGF	Recombinant Human Fibroblast Growth Factor
RND	Rheumatoid Neutrophilic Dermatositis
ROC curve	Receiver Operating Characteristic Curve
RV	Rheumatoid Vasculitis
SC	Subcutaneous
SDAI	Simplified Disease Activity Index
SENS	Simple Erosion Narrowing Score
SF	Synovial fluid
SLE	Systemic Lupus Erythematosus
SNP	Single Nucleotide Polymorphism
SNRIs	Serotonin Norepinephrine Reuptake Inhibitors
SPSS	Statistical Program for Social Science
sSS	Secondary Sjögren's Syndrome
SvdH	Sharp/van der Heijde Score
TBS	Tris Buffered Saline
TGF-beta	Transforming Growth Factor Beta

List of Abbreviations

TIMPS	Tissue Inhibitors of Metallo-proteinases
TMB	Tetra-Methyl Bneizidine
TMJ	Temporomandibular Joint
TNF	Tumor Necrosis Factor
tsDMARD	Targeted Synthetic Disease Modifying Antirheumatic Drugs
US	Ultrasound
US28 score	The 28 Joint Ultrasound Score
US7 score	The 7 Joint Ultrasound Score
VAS	Visual Analogue Scale of pain
VEGF	Vascular Endothelial Growth Factor
WBC	White Blood Cell
β-NGF	Beta Nerve Growth Factor

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