System	Variable	
System	TELANGIECTASIA	
	NASAL ULCERS	
	ORAL ULCERS	
	RAYNAUD	
	SKIN HAND SWELLING HISTORY	
	SKIN HAND SWELLING OBSERVED	
	SCLERODACTYLY	
c	PITTING	
Skin	ALOPECIA	
<b>9</b> 1	MALAR RASH	
	DISCOID RASH	
	SKIN RASH	
	PHOTOSENSITIVITY	
	CALCINOSIS	
	PROXIMAL SCLERODERMA	
	SICCA	
	MYOSITIS	
	MYALGIA	
	ARTHRALGIA	
le	OBSERVED PROXIMAL WEAKNESS	
Muscle	HISTORY PROXIMAL WEAKNESS	
Mı	MUSCULAR HAND SWELLING SPECIFIC	
	MUSCULAR HAND SWELLING GENERAL	
	MUSCULAR HAND SWELLING HISTORY	
	MUSCULAR HAND SWELLING OBSERVED	
	AVASCULAR NECROSIS	
	MORNING STIFF	
	JOIN TENDER	
	SYNOVITYS	
Ø	JOIN SWELLLING HISTORY	
<b>Joints</b>	JOIN SWELLLING OBS	
Jo	SWELLING JOINTS > 3	
	SYMMETRIC SWELLING	
	JOINTS PAIN	
	JOINTS DEFORMITY	
	RHEUM NODULE	
	ANY LYMPHADENOPATHY	
bh es	LYMPNODES SWELLING	
Lymph nodes	NECK LYMPNODE SWELLIN	
	AXILA LYMPNODE SWELLIN	

Γ	GROIN LYMPNODE SWELLIN		
Gastro	GASTRIC REFLUX		
	ANEMIA		
	ANEMIA HEMOLYTI		
po	LEUKOPENIA		
Blood	LYMPHOPENIA		
	THROMBOPENIA		
	THROMBOSIS		
	PLEURITIS		
	PERICARDITIS		
	PLEURITIS and/or PERICARDITIS		
ŧ	VENOUS CLOT		
Heart	ARTERIAL CLOT		
#	ANY CLOT		
	MYOCARD INFARCTION		
	VALVULAR DISEASE		
	VALVULAR DISEASE SITE		
	NUMB VALVUAR		
	PULMONARY HYPERTEN		
Bu	PULMONARU VASC LESION		
Lu	PULMONARY FIBROSIS		
	EVIDENCE OF LUNG DISEASE		
	EVIDENCE OF RENAL DISEASE		
<b>&gt;</b> .	RENAL CELL CAST		
Kidney	RENAL PROTEINURIA		
ž L	RENAL HEMATURIA		
	RENAL CLOT		
	RENAL ARTERY STENOSIS		
-	SEIZURE		
Iro	PSYCHOSIS		
Neuro	NEUROPATHY		
_	NEUROPSYCHIATRIC		
_	STROKE		
	CHOREA		
-	GLUCOSE		
ļ.	UREANITROGEN (BUN)		
ļ.	CREATINE SEDIM CREATINE		
<b> </b>	SERUM CREATINE		
<u> </u>	BUN/CREATINE RATIO		
abolic Panel	SODIUM		
ic I	POTASIUM		
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ı	TOTAL PROTEIN		
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b t	GLOBULIN		
La	ALBUMUN/GLOBULIN		
	BILIRUBIN		
	ALKALINE PHOSPHATASE		
	AST		
	ALT		
	CREATINE KINASE		
	URINE GLUCOSE		
.s	URINE PROTEIN		
lys	URINE WBC		
Jrinalysis	URINE RBC		
Uri	URINE SQUAMOS EPLITHELIAL CELLS		
·	URINE BACTERIA		
	HYALINE CAST		
	WBC COUNT		
	RBC COUNT		
	HEMOGLOBIN		
	HEMATOCRIT		
	MCV		
<b>X</b> 5	МСН		
ab tests - Hematology	МСНС		
ato	RDW		
em	PLATELET COUNT		
H.	ABSOLUTE NEUTROPHILS		
ts -	ABSOLUTE LYMPHOCYTES		
tes	ABSOLUTE MONOCYTES		
ab	ABSOLUTE EOSINOPHILS		
Г	ABSOLUTE BASOPHILS		
	NEUTROPHIL %		
	LYMPHOCYTE %		
	MONOCYTE %		
	EOSINOPHYL %		
	BASOPHILS %		
	ANA +		
	ANTI-RNP +		
	ANTI-SM ABS +		
	ANTI-DNA ABS +		
	DNA ELEVATED		
	FANA TITER		
	FANA_PATTR		
	SSA_RESULT		
	SSB_RESULT		
	SCL RESULT		
Ī	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		

	ANTI-PHOSPHO-LIPID ABS +
sts	ANTI CARDOLIPIN ANTIBODY
Lupus Specific lab tests	ANTICARDIOLIPIN IGG LEVEL
	ANTICARDIOLIPIN IGG +
fic	ANTICARDIOLIPIN IGM LEVEL
eci	IGM ANTICRD +
$\mathbf{S}_{\mathbf{p}}$	ANTICARDIOLIPIN IGA LEVEL
sno	IGA ANTICRD+
In	C3 COMPLEMENT LEVEL
<b>I</b>	C3_LOW
	C4 COMPLEMENT LEVEL
	C4_LOW
	ESR
	ESR_ELEVATED
	C REACTIVE PROTEIN
	CRP_ELEVATED
	RF LATEX TITER
	RF ELISA IGM TITER
	RF ELISA IGG TITER
	CPK LEVEL
	CPK ELEVATED
	BAFF
	BAFFR
	TACI
	ВСМА
	IFNG
	TNFA
	SCD40L
	IL12P40
	IL12P70
	IL23
	IL17A
	IL17AF
test	П 17F

ab	IL1/I
ntal L	IL21
Experimental Lab	IL22
Exp	IL33
	E-SELECTIN
	NGAL
	IGM ANTI-U1A (196-203) TITER
	IGM ANTI-SME (63-70) TITER
	IGM ANTI-SMF (46-53) TITER
	IGM ANTI-U1C (90-97) TITER
	IGM ANTI-U1-70K (337-344) TITER
	IGM ANTI-SMB (83-90) TITER
	IGM ANTI-SMG (1-8) TITER
	IGM ANTI-SMD3 (20-27) TITER
	IGM ANTI-SMF (77-84) TITER
	IGM ANTI-U1A (112-119) TITER
	IGM ANTI-SMD2 (14-21) TITER
	IGM ANTI-SMD1 (22-29) TITER
	IGM ANTI-U1A (178-185) TITER
	IGM ANTI-U1-70K (325-332) TITER
	IGM ANTI-U1C (66-73) TITER
	ELISA ANTI-SNRNP
	IMMUNOBLOT ANTI-70KD
	IMMUNOBLOT ANTI-SM
	IMMUNOBLOT ANTI-U1-A

## Definition

SKIN TELENGECTASIA OBSERVED

SKIN NASAL ULCERS OBSERVED

SKIN ORAL ULCERS OBSERVED

RAYNAUD: A PATTERN OF COLOR CHANGES IN THE FINGERS AS FOLLOWS: PALE/WHITE FOLLOWED BY BLUE THEN RED WHEN THE HANDS ARE WARMED; COLOR CHANGES ARE USUALLY PRECEDED BY EXPOSURE TO COLD OR EMOTIONAL UPSET

HAND SWELLING BY HISTORY

HAND SWELLING OBSERVED

SKIN SCLERODACYTYL / ACROSCLEROSIS

SKIN DIGITAL PITTING

SKIN ALOPECIA-PATCHY OR GENERALIZED

SKIN MALAR RASH- FIXED ERYTHEMA, FLAT OR RAISED, OVER THE MALAR EMINENCES, TENDING TO SPARE THE SOLABIAL FOLDS

SKIN DISCOID RASH- ERYTHEMATOUS RAISED PATCHES WITH ADHERENT KERATOTIC SCALING AND FOLLICULAR PLUGGING. ATROPHIC SCARING SEEN IN OLDER LESIONS

SKIN RASH OTHER BY HISTORY OR EXAM

SKIN PHOTOSENSITIVITY- SKIN RASH AS A RESULF OF UNUSUAL REACTION TO SUNLIGHT BY HISTORY OR EXAM

SKIN CALCINOSIS OBSERVED

SKIN PROXIMAL SCLERODERMA / EXTEND AT or ABOVE WRIST

SKIN SICCA- XEROPHTHALMIA AND XEROSTOMIA

MYOSITIS

MYALGIA-SUBJECTIVE MUSCLE ACKING INVOLVING PROXIMAL MUSCLES

ARTHRALGIA

ANY OBJECTIVE WEAKNESS IN THE PROXIMAL MUSCLES

A SUBJECTIVE HISTORY OF ANY PROXIMAL MUSCLE WEAKNESS

AT LEAST ONE AREA SWOLLEN IN A WRIST, MCP, OR PIP JOINT

MUSCULAR HAND SWELLING

SWELLING OF THE HAND BY HISTORY

SWELLING OF THE HANDS OBSERVED

AVASCULAR NECROSIS

MORNING STIFNESS LASTING AT LEAST 1 HOUR BEFORE MAXIMAL IMPROVEMENT

JOINT TENDERNESS OBSERVED

SYNOVITYS

HISTORY OF JOINT SWELLING

JOINT SWELLING OBSERVED

SWELLING OF 3 OR MORE JOINTS (PIP, MCP, WRIST, ELBOW, KNEE, ANKLE AND MTP)

SYMETRIC SWELLING OBSERVED

JOINTS PAIN

JOINTS DEFORMITY

OBSERVED RHEUMATOID NODULE- SUBCUTANEOUS NODULES OVER BONY PROMINENCES OR EXTENSOR SURFACES, OR IN JUXTAARTICULAR REGIONS

ANY LYMPHADENOPATHY

LYMPNODES SWELLING

NECK LYMPNODE SWELLIN

AXILA LYMPNODE SWELLIN

GROIN LYMPNODE SWELLIN GASTRIC REFLUX AS DIAGNOSED BY PATIENT SYMPTOMS OF HEARTBURN, ACID REFLUX OR CHEST PAIN AND RADIOGRAPHIC STUDIES AND/OR ENDOSCOPY ANEMIA HEMOLYTIC ANEMIA LEUKOPENIA LYMPHOPENIA, Total lymphocyte count < 1500/mm THROMBOCYTOPENIA THROMBOSIS CONVINCING HISTORY OF PLEURITIC PAIN OR RUBBING HEARD BY A PHYSICIAN OR EVIDENCE OF PLEURAL EFFUSION PERICARDITIS: DOCUMENTED BY ECG OR RUB OR EVIDENCE OF PERICARDIAL EFFUSION PLEURITIS and/or PERICARDITIS: either or both of two above described VENOUS CLOT ARTERIAL CLOT ANY CLOT MYOCARDIO INFARCTION VALVULAR HEART DISEASE AORTIC, MITRAL TRICUSPID, PULMONIC BASED ON THE VALVULAR DISEASE TYPE PULMONARY HYPERTENSION≥40mmHg RVSP PULMONARY VASCULAR DISEASE BY BIOPSY OR AUTOPSY PULMONARY FIBROSIS BASED ON CHEST XRAY OR CT SCAN LUNG DISEASE DEFINED BY pHTN (Clin-P1) + AND/OR PULMONARY FIBROSIS (Clin-P3) RENAL DISEASE DEFINED BY ACRRENAL + AND/OR RENAL BIOPSY RENAL CELLULAR CAST- RED, HEMOGLOBIN, GRANULAR, TUBULAR, OR MIXED RENAL PROTEINURIA- PERSISTENT > 0.5 GRAMS/24HRS OR > 3+ RENAL HEMATURIA- > 5 RBC PER HIGH POWERED FIELD REPORTED RENAL CLOT REPORTED RENAL ARTHERY STENOSIS SEIZURE IN THE ABSENCE OF OFFENDING DRUGS OR KNOWN METABOLIC DERANGEMENTS PSYCHOSIS IN THE ABSENCE OF OFFENDING DRUGS OR KNOWN METABOLIC DERANGEMENT ANY NEUROPATHY NEUROPSYCHIATRIC STROKE CHOREA GLUCOSE NORMAL RANGE: 65-99 MG/DL UREA NITROGEN (BUN) NORMAL RANGE: 7-25 MG/ML CREATINE NORMAL RANGE: 0.5-1.4 MG/DL SERUM CREATINE BUN/CREATINE RATIO NORMAL RANGE: 6-25 CALC SODIUM NORMAL RANGE: 135-146 MMOL/L POTASIUM NORMAL RANGE: 3.5-5.3 MMOL/L CHLORIDE NORMAL RANGE: 98-110 MMOL/L CARBON DIOXIDE NORMAL RANGE: 21-33 MMOL/L

CALCIUM NORMAL RANGE: 8.5-10.4 MG/DL
TOTAL PROTEIN NORMAL RANGE: 6-8.3 G/DL
ALBUMIN NORMAL RANGE: 3.7-5.1 G/DL
GLOBULIN NORMAL RANGE: 2.2-4.2 G/DL
ALBUMUN/GLOBULIN NORMAL RANGE: 0.8-2 CALC
BILIRUBIN NORMAL RANGE: 0.2-1.5 MG/DL
ALKALINE PHOSPHATASE NORMAL RANGE: 20-125 MG/DL
AST NORMAL RANGE: 3-35 MG/DL
ALT NORMAL RANGE: 3-40 U/L
CREATINE KINASE NORMAL RANGE: 0-165 U/L
URINE GLUCOSE NORMAL RANGE: 0
URINEPROTEIN NORMAL RANGE: 0
URINE WBC NORMAL RANGE: = 5</td
URINE RBC NORMAL RANGE: = 5</td
URINE SQUAMOS EPLITHELIAL CELLS NORMAL RANGE: = 5</td
URINE BACTERIA NORMAL RANGE: 0
HYALINE CAST NORMAL RANGE: 0
WBC COUNT NORMAL RANGE: 3.8-10.8 THOUS/MCL
RBC COUNT NORMAL RANGE: 4.20-5.80 MILL/MCL
HEMOGLOBIN NORMAL RANGE: 13.2-17.1 G/DL
HEMATOCRIT NORMAL RANGE: 38.5-50%
MCV NORMAL RANGE: 80-100 FL
MCH NORMAL RANGE: 27-33 PG
MCHC NORMAL RANGE: 32-36 G/DL
RDW NORMAL RANGE: 11-15%
PLATELET COUNT NORMAL RANGE: 140-400 THOUS/MCL
ABSOLUTE NEUTROPHILS NORMAL RANGE: 1500-7800 CELLS/MCL
ABSOLUTE LYMPHOCYTES NORMAL RANGE: 850-3900 CELLS/MCL
ABSOLUTE MONOCYTES NORMAL RANGE: 200-950 CELLS/MCL
ABSOLUTE EOSINOPHILS NORMAL RANGE: 15-500 CELLS/MCL
ABSOLUTE BASOPHILS NORMAL RANGE: 0-200 CELLS/MHC
NEUTROPHIL % NORMAL RANGE: 35-80%
LYMPHOCYTE % NORMAL RANGE: 18-44%
MONOCYTE % NORMAL RANGE: 0-10%
EOSINOPHYL % NORMAL RANGE: 0-3%
BASOPHILS % NORMAL RANGE: 0-1%
ANA
ANTI-RNP AT HEMAGGLUTINATION TITER > 1:1600
SM NORMAL RANGE: 0-20
DSDNA TITER NORMAL RANGE: 5-9 IU/ML
ELEVATED DNA IF≥ 10 IU/ML
FANA TITER NORMAL RANGE: <320
FANA PATTERN. HOMO , SPECKLED NUCLEOLAR, HOMO/SPECKLED, MIXED ,
SPECKLED/MIXED, NO-SPECIFIC
SSA NORMAL RANGE: < 20 EU/ML
SSB NORMAL RANGE: < 20 EU/ML
SCL NORMAL RANGE: < 20 EU/ML

ANTI-PHOSPHOLIPID ABS + IF > 10 GPL U/ML
ANTI CARDOLIPIN ANTIBODY IF > 10 GPL U/ML
ANTICARDIOLIPIN IGG NORMAL RANGER: < 10 GPL U/ML
ANTICARDIOLIPIN IGG + IF > 10 GPL U/ML
ANTICARDIOLIPIN IGM NORMAL RANGER: < 10 GPL U/ML
IGM ANTICRD + IF > 10 GPL U/ML
ANTICARDIOLIPIN IGA NORMAL RANGER: < 10 GPL U/ML
IGA ANTICRD+ IF > 10 GPL U/ML
C3 COMPLEMENT NORMAL RANGE: 90 – 180 MG/DL
C3_LOW IF < 90 MG/DL
C4 COMPLEMENT NORMAL RANGE: 16 – 47 MG/DL
C4_LOW IF < 16
ESR NOMAL RAMNGE: < 10 MG/DL
ESR_ELEVATED IF >10 MG/DL
C REACTIVE PROTEIN NOMAL RANGE: 1.0 MG/DL
CRP_ELEVATED FI . 1.0 MG/DL
RF LATEX TITER NORMAL RANGE: 14 IU/ML
RF ELISA IGM TITER NORMAL RANGE: < 20 IU/ML
RF ELISA IGG TITER NORMAL RANGE: < 20 IU/ML
CPK NORMAL RANGE: < 165 U/L
CPKELEAVTED: > 165 U/L
BAFF NORMAL CYTOKINE LEVEL < 1.19 NG/ML
(BASED ON HEALTHY GROUP AVERAGE + SD OF HEALTHY GROUP)
BAFFR NORMAL CYTOKINE LEVEL < 0.09 NG/ML
(BASED ON HEALTHY GROUP AVERAGE + SD OF HEALTHY GROUP)
TACI NORMAL CYTOKINE LEVEL < 0.02 NG/ML
(BASED ON HEALTHY GROUP AVERAGE + SD OF HEALTHY GROUP)
BCMA NORMAL CYTOKINE LEVEL < 1.64 NG/ML
(BASED ON HEALTHY GROUP AVERAGE + SD OF HEALTHY GROUP)
IFNG NORMAL CYTOKINE LEVEL < 13.13 PG/ML
(BASED ON HEALTHY GROUP AVERAGE + SD OF HEALTHY GROUP)
TNFA NORMAL CYTOKINE LEVEL < 7.58 PG/ML
(BASED ON HEALTHY GROUP AVERAGE + SD OF HEALTHY GROUP)
SCD40L NORMAL CYTOKINE LEVEL < 1959.30 PG/ML
(BASED ON HEALTHY GROUP AVERAGE + SD OF HEALTHY GROUP)
IL12P40 NORMAL CYTOKINE LEVEL < 61.68 PG/ML
(BASED ON HEALTHY GROUP AVERAGE + SD OF HEALTHY GROUP)
IL12P70 NORMAL CYTOKINE LEVEL < 18.77 PG/ML
(BASED ON HEALTHY GROUP AVERAGE + SD OF HEALTHY GROUP)
IL23 NORMAL CYTOKINE LEVEL < 348.34 PG/ML
(BASED ON HEALTHY GROUP AVERAGE + SD OF HEALTHY GROUP)
IL17A NORMAL CYTOKINE LEVEL < 3.88 PG/ML
(BASED ON HEALTHY GROUP AVERAGE + SD OF HEALTHY GROUP)
IL17AF NORMAL CYTOKINE LEVEL < 19.40 PG/ML
(BASED ON HEALTHY GROUP AVERAGE + SD OF HEALTHY GROUP)
IL17F NORMAL CYTOKINE LEVEL < 38.00 PG/ML

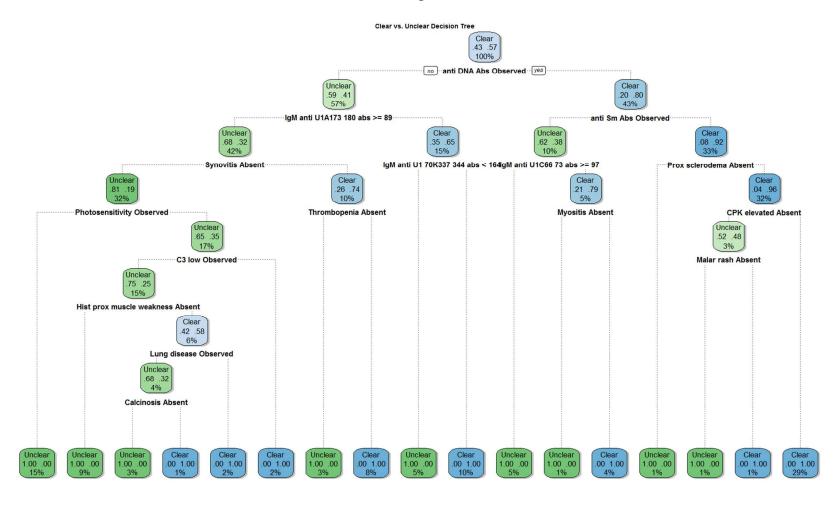
(BASED ON HEALTHY GROUP AVERAGE + SD OF HEALTHY GROUP)	
IL21 NORMAL CYTOKINE LEVEL < 13.5 PG/ML	
(BASED ON HEALTHY GROUP AVERAGE + SD OF HEALTHY GROUP)	
IL22 NORMAL CYTOKINE LEVEL < 31 PG/ML	
(BASED ON HEALTHY GROUP AVERAGE + SD OF HEALTHY GROUP)	
IL33 NORMAL CYTOKINE LEVEL < 12.3 PG/ML	
(BASED ON HEALTHY GROUP AVERAGE + SD OF HEALTHY GROUP)	
ESELECTIN NORMAL CYTOKINE LEVEL < 23.63 NG/ML	
(BASED ON HEALTHY GROUP AVERAGE + SD OF HEALTHY GROUP)	
NGAL NORMAL CYTOKINE LEVEL < 79.10 NG/ML	
(BASED ON HEALTHY GROUP AVERAGE + SD OF HEALTHY GROUP)	
P1-IGM AVERAGE NORMAL RANGE: 0-100	
P2-IGM AVERAGE NORMAL RANGE: 0-100	
P3-IGM AVERAGE NORMAL RANGE: 0-100	
P4-IGM AVERAGE NORMAL RANGE: 0-100	
P5-IGM AVERAGE NORMAL RANGE: 0-100	
P6-IGM AVERAGE NORMAL RANGE: 0-100	
P7-IGM AVERAGE NORMAL RANGE: 0-100	
P8-IGM AVERAGE NORMAL RANGE: 0-100	
P9-IGM AVERAGE NORMAL RANGE: 0-100	
P10-IGM AVERAGE NORMAL RANGE: 0-100	
P11-IGM AVERAGE NORMAL RANGE: 0-100	
P12-IGM AVERAGE NORMAL RANGE: 0-100	
P13-IGM AVERAGE NORMAL RANGE: 0-100	
P14-IGM AVERAGE NORMAL RANGE: 0-100	
P15-IGM AVERAGE NORMAL RANGE: 0-100	
BASED ON HEALTHY GROUP AVERAGE + SD OF HEALTHY GROUP	
BASED ON HEALTHY GROUP AVERAGE + SD OF HEALTHY GROUP	
BASED ON HEALTHY GROUP AVERAGE + SD OF HEALTHY GROUP	
BASED ON HEALTHY GROUP AVERAGE + SD OF HEALTHY GROUP	

Telangicctasia Nasal ulcers Oral ulcers Hist hand swelling Obs hand swelling Sclerodactyly Pitting Alopecia Rash Photosensitivity Discoid rash Raynaud's Calcinosis Prox selerodema SICCA Myositis Myalgia Arthralgia Hist prox muscle weakness Obs prox muscle weakness Hist hand swelling Cobs hand swelling Low extremety swelling Facial swelling Worning stiff Tender Synovitys Hist swelling I CC A Swelling (>3) Symmetric sweeling Pain Deformity Any lymphadenopathy Swelling F QN Any lymphadenopathy Swelling F Neck swelling Axila swelling Axila swelling Rheumatoid nodule Rheumatoid nodule Rheumatoid nodule	Tissue		Variable
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Hist hand swelling Obs hand swelling Sclerodactyly Pitting Alopecia Rash Photosensitivity Discoid rash Raynaud's Calcinosis Prox sclerodema SICCA Myositis Myalgia Arthralgia Hist prox muscle weakness Obs prox muscle weakness Hist hand swelling Obs hand swelling Low extremety swelling Facial swelling Morning stiff Tender Synovitys Hist swelling Obs swelling Swelling Swelling Swelling Pain Deformity Any lymphadenopathy Swelling F ON AN Symmetric sweeling Pain Deformity Any lymphadenopathy Swelling F ON AN Swelling Axila swelling Axila swelling Rheumatoid nodule			
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Discoid rash Raynaud's Calcinosis Prox sclerodema SICCA Myositis Myalgia Arthralgia Hist prox muscle weakness Obs prox muscle weakness Hist hand swelling Cobs hand swelling Low extremety swelling Facial swelling Morning stiff Tender Synovitys Hist swelling Obs swelling Swelling Nobs swelling Swelling Swelling Facial swelling Any lymphadenopathy Swelling Facial swelling Axila swelling Axila swelling Rheumatoid nodule Rheumatoid nodule Rheumatoid nodule Gastric reflux			Photosensitivity
Calcinosis Prox sclerodema  SICCA  Myositis  Myalgia  Arthralgia  Hist prox muscle weakness Obs prox muscle weakness  Obs prox muscle weakness  Hist hand swelling  Cobs hand swelling  Low extremety swelling  Facial swelling  Morning stiff  Tender  Synovitys  Hist swelling  Obs swelling  Swelling  Swelling  Swelling  Any lymphadenopathy  Swelling  Fe Ban  Any lymphadenopathy  Swelling  Neck swelling  Axila swelling  Axila swelling  Rheumatoid nodule  Rheumatoid nodule  Gastric reflux			
Calcinosis Prox sclerodema  SICCA  Myositis  Myalgia  Arthralgia  Hist prox muscle weakness Obs prox muscle weakness  Obs prox muscle weakness  Hist hand swelling  Cobs hand swelling  Low extremety swelling  Facial swelling  Morning stiff  Tender  Synovitys  Hist swelling  Obs swelling  Swelling  Swelling  Swelling  Any lymphadenopathy  Swelling  Fe Ban  Any lymphadenopathy  Swelling  Neck swelling  Axila swelling  Axila swelling  Rheumatoid nodule  Rheumatoid nodule			Raynaud's
SICCA  Myositis  Myalgia  Arthralgia  Hist prox muscle weakness  Obs prox muscle weakness  Hist hand swelling  Obs hand swelling  Low extremety swelling  Facial swelling  Morning stiff  Tender  Synovitys  Hist swelling  Obs swelling  Obs swelling  Swelling  Swelling  Swelling  Any lymphadenopathy  Swelling  Facial swelling  Morning stiff  Tender  Synovitys  Hist swelling  Obs swelling  Swelling  Swelling  Pain  Deformity  Any lymphadenopathy  Swelling  Ferein Synovitys  Any lymphadenopathy  Swelling  Any lymphadenopathy  Swelling  Rheumatoid nodule  Rheumatoid nodule  Gastric reflux			
Myositis  Myalgia  Arthralgia  Hist prox muscle weakness Obs prox muscle weakness Hist hand swelling Obs hand swelling Low extremety swelling Facial swelling Morning stiff Tender Synovitys Hist swelling Obs swelling Obs swelling Synovitys Hist swelling Obs swelling Swelling Obs swelling An pain Deformity Any lymphadenopathy Swelling Ference Synovitys Any lymphadenopathy Swelling Ference Swelling Axila swelling Axila swelling Groin swelling Rheumatoid nodule Rheumatoid nodule Gastric reflux			Prox sclerodema
Myalgia Arthralgia Hist prox muscle weakness Obs prox muscle weakness Hist hand swelling Obs hand swelling Low extremety swelling Facial swelling Morning stiff Tender Synovitys Hist swelling Obs swelling Swelling Swelling Swelling Swelling Pain Deformity Any lymphadenopathy Swelling Facial swelling Any lymphadenopathy Swelling Any lymphadenopathy Swelling Axila swelling Axila swelling Groin swelling Rheumatoid nodule Rheumatoid nodule			SICCA
Myalgia Arthralgia Hist prox muscle weakness Obs prox muscle weakness Hist hand swelling Obs hand swelling Low extremety swelling Facial swelling Morning stiff Tender Synovitys Hist swelling Obs swelling Swelling Swelling Swelling Swelling Pain Deformity Any lymphadenopathy Swelling Facial swelling Any lymphadenopathy Swelling Any lymphadenopathy Swelling Axila swelling Axila swelling Groin swelling Rheumatoid nodule Rheumatoid nodule			Myositis
Hist prox muscle weakness  Obs prox muscle weakness  Hist hand swelling  Obs hand swelling  Low extremety swelling  Facial swelling  Morning stiff  Tender  Synovitys  Hist swelling  Obs swelling  Obs swelling  Swelling (>3)  Symmetric sweeling  Pain  Deformity  Any lymphadenopathy  Swelling  Ferror Synovitys  Hist swelling  Obs swelling  Swelling  Facial swelling  Any lymphadenopathy  Swelling  From Swelling  Any lymphadenopathy  Swelling  From Swelling  Axila swelling  Axila swelling  Groin swelling  Rheumatoid nodule  Rheumatoid nodule			
Hist prox muscle weakness  Obs prox muscle weakness  Hist hand swelling  Obs hand swelling  Low extremety swelling  Facial swelling  Morning stiff  Tender  Synovitys  Hist swelling  Obs swelling  Obs swelling  Swelling (>3)  Symmetric sweeling  Pain  Deformity  Any lymphadenopathy  Swelling  Ferror Synovitys  Hist swelling  Obs swelling  Swelling  Facial swelling  Any lymphadenopathy  Swelling  From Swelling  Any lymphadenopathy  Swelling  From Swelling  Axila swelling  Axila swelling  Groin swelling  Rheumatoid nodule  Rheumatoid nodule			Arthralgia
Obs prox muscle weakness  Hist hand swelling Obs hand swelling Low extremety swelling Facial swelling  Morning stiff Tender Synovitys Hist swelling Obs swelling Obs swelling Swelling (>3) Symmetric sweeling Pain Deformity Any lymphadenopathy Swelling FRON AND AND AND AND AND AND AND AND AND AN		<b>3</b>	
Obs hand swelling  Low extremety swelling  Facial swelling  Morning stiff  Tender  Synovitys  Hist swelling  Obs swelling  Obs swelling  Swelling (>3)  Symmetric sweeling  Pain  Deformity  Any lymphadenopathy  Swelling  F  Swelling  F  Swelling  Any lymphadenopathy  Swelling  F  Swelling  Any lymphadenopathy  Swelling  F  Swelling  Any lymphadenopathy  Swelling  Reck swelling  Axila swelling  Axila swelling  Groin swelling  Rheumatoid nodule		SCLI	
Low extremety swelling Facial swelling  Morning stiff  Tender  Synovitys  Hist swelling  Obs swelling  Swelling (>3)  Symmetric sweeling  Pain  Deformity  Any lymphadenopathy  Swelling  Ferror  Symuthic sweeling  Pain  Deformity  Any lymphadenopathy  Swelling  From  Any lymphadenopathy  Swelling  From  Axila swelling  Axila swelling  Groin swelling  Rheumatoid nodule  Rheumatoid nodule		MU	Hist hand swelling
Facial swelling  Morning stiff  Tender  Synovitys  Hist swelling  Obs swelling  Swelling (>3)  Symmetric sweeling  Pain  Pain  Deformity  Any lymphadenopathy  Swelling  F  Swelling  Any lymphadenopathy  Swelling  F  Swelling  F  Swelling  Any lymphadenopathy  Swelling  F  Swelling  F  Swelling  F  Swelling  Any lymphadenopathy  Swelling  F  Swelling  Reck swelling  Axila swelling  Groin swelling  Rheumatoid nodule  Gastric reflux			Obs hand swelling
Morning stiff  Tender  Synovitys  Hist swelling  Obs swelling  Swelling (>3)  Symmetric sweeling  Pain  M  Deformity  Any lymphadenopathy  Swelling  F  Swelling  Any lymphadenopathy  Swelling  F  Barro  Any lymphadenopathy  Swelling  Reck swelling  Axila swelling  Groin swelling  Rheumatoid nodule  Rheumatoid nodule			Low extremety swelling
Tender  Synovitys  Hist swelling  Obs swelling  Swelling (>3)  Symmetric sweeling  Pain  Pain  Deformity  Any lymphadenopathy  Swelling  F  Swelling  Any lymphadenopathy  Swelling  F  Swelling  Any lymphadenopathy  Swelling  F  Swelling  F  Groin swelling  Rheumatoid nodule  Gastric reflux			Facial swelling
C L I SE Hist swelling N Obs swelling I Obs swelling Swelling (>3) Symmetric sweeling Pain Deformity A Deformity Any lymphadenopathy I Swelling F ON Hall Swelling F			Morning stiff
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Swelling (>3)  Symmetric sweeling  Pain  Pain  Deformity  Any lymphadenopathy  Swelling  F  Swelling  Neck swelling  Neck swelling  Axila swelling  Groin swelling  Rheumatoid nodule  GASTRO  Gastric reflux	N	INI	Obs swelling
Symmetric sweeling  Pain  Pain  Deformity  Any lymphadenopathy  Swelling  F  Swelling  Neck swelling  Axila swelling  T  A  T  GASTRO  Gastric reflux	I	Эſ	Swelling (>3)
M Deformity  A N Selling  F D Neck swelling	A		Symmetric sweeling
Any lymphadenopathy  Swelling  F  Swelling  Neck swelling  Axila swelling  Groin swelling  Rheumatoid nodule  GASTRO  Gastric reflux	L		Pain
N I See Swelling F S Neck swelling Neck swelling Axila swelling Groin swelling Rheumatoid nodule I GASTRO Gastric reflux	M		Deformity
Swelling F F S E S S S S S S S S S S S S S S S S			Any lymphadenopathy
A T Rheumatoid nodule I GASTRO Gastric reflux		DES	Swelling
A T Rheumatoid nodule I GASTRO Gastric reflux		ON	Neck swelling
A T Rheumatoid nodule I GASTRO Gastric reflux	S	1PH	Axila swelling
T Rheumatoid nodule I GASTRO Gastric reflux	T	LYN	Groin swelling
I GASTRO Gastric reflux			Rheumatoid nodule
	Ī	GASTRO	Gastric reflux
O N Anemia	O N		Anemia
S Hemolytic anemia			Hemolytic anemia
Leukopenia		QD	Leukopenia

	BLO	Lymphopenia		
		Thrombopenia		
		Thrombosis		
		Pericarditis		
		Pleuritis		
		Pericarditis/pleuritis		
	E	Any clot		
	HEART	Venous clot		
	Ħ	Valvular disease		
		Avascular necrosis		
		Myocardial infarction		
		Stroke		
		Hypertension		
	SZ	Vascular lesions		
	LUNG	Fibrosis		
		Lung disease		
		Proteinuria		
		Hematuria		
	ŒY	Clot		
	KIDNEY	Artherial stenosis		
	<b>*</b>	Cell cast		
		Renal disease		
		Neuropathy		
	NERVOUS	Psychosis		
	NERV OUS	Chorea		
		Glucose +		
		Protein +		
		WBC +		
	URINALYSIS	RBC +		
		squamos eplithelial cells +		
		Hyaline cast +		
		Sm level		
		Sm +		
L A B O R A		dsDNA titer		
		DNA +		
		DNA elevated		
		FANA titer		
		FANA +		
	sus	SSA +		
	ITIONAL FOR LUPUS	C3 level		
T O	OR	C3 low		
R	IL F	C4 level		
Y	ON∤	C4 low		
т	III	ESR		

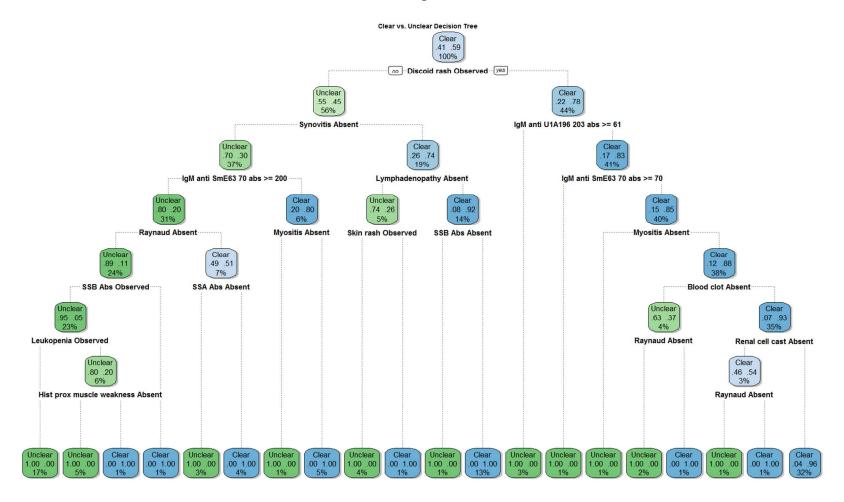
Ē	FRAD	ESR elevated
S	T .	CRP
S		CRP elevated
		IgM-RF ELISA titer
		IgM-RF +
		IgG-RF ELISA titer
		IgG-RF +
		CPK level
		CPK elevated
		IL17A
		IgM-U1A ELISA (112-119)
		IgM-U1A ELISA (196-203)
	PER	IgM-SmD2 ELISA (14-21)
	EX	IgM-SmD2 ELISA (14-21)

## **Unclear SLE vs MCTD patients: Decision tree 1**



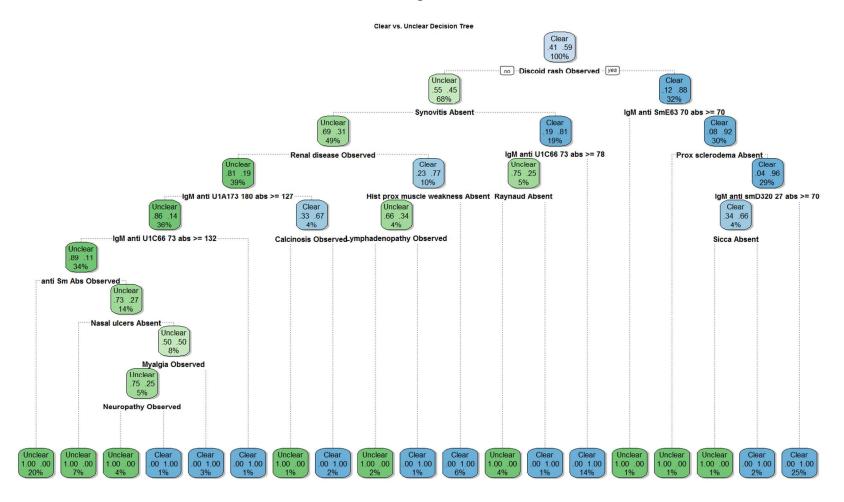
	Training	Test	Validation
Accuracy	0.9125	0.9231	0.9630
Sensitivity	0.5890	0.5833	0.6154
Specificity	0.5000	0.5000	0.5000

## **Unclear SLE vs MCTD patients: Decision tree 2**



	Training	Test	Validation
Accuracy	0.8875	0.9231	0.8889
Sensitivity	0.6197	0.5833	0.5833
Specificity	0.5000	0.5000	0.5000

## **Unclear SLE vs MCTD patients: Decision tree 3**



	Training	Test	Validation
Accuracy	0.9375	0.8846	0.9259
Sensitivity	0.6000	0.6087	0.6000
Specificity	0.5000	0.5000	0.5000