

HAND ULTRASOUND REPORT

PATIENT:

ORDERING PHYSICIAN:

ID#:

FACILITY:

DOB:

SONOGRAPHER:

STUDY DATE:

READING DATE:

MACHINE: GE Logiq S8 with 12 MHz Linear Transducer

STUDY: Ultrasound of bilateral hands

PRIMARY INDICATION: Rheumatoid Arthritis

SECONDARY INDICATION: Joint Pain

PRACTICE NOTES:

TECHNIQUE: A high frequency probe was used in longitudinal view of the radio-carpal and ulno-carpal joints as well as the 2nd, 3rd, and 5th metacarpalphalangeal joints. Transverse views were also obtained of the distal ulna, scapho-lunate, and radio-ulnar joints. Power Doppler was used to assess for synovitis and tenosynovitis. Cross sectional evaluation of the median nerve was performed as well.

FINDINGS:

Left hand: Significant tenosynovial hypertrophy of the 2nd extensor tendon compartment with significant hyperemia. Slight synovial hypertrophy overlying the scaphoid. Significant synovial hypertrophy in the mid-wrist with 3/3 PDS. Significant tenosynovial hypertrophy of the ECU tendon with associated significant hyperemia. Erosive changes are noted on the dorsum of the distal ulna. Significant synovial hypertrophy in the 2nd MCP with joint space narrowing and erosive changes on the radial aspect of the 2nd metacarpal head. Significant synovial hypertrophy in the 3rd MCP with joint space narrowing. Probable erosion on the dorsum of the 3rd metacarpal head as well. Significant synovial hypertrophy of the 5th MCP with no power Doppler activity. Probable erosion on the ulnar aspect of the 5th metacarpal head though slightly out of view. Significant tenosynovitis of the 2nd, 3rd, and 5th flexor tendons. The visualized portions of the bone, muscle, tendon, joints and median nerve are otherwise normal appearing.

Right hand: Significant synovial hypertrophy overlying the scaphoid. Moderate synovial hypertrophy in the mid-wrist with 3/3 PDS. Tenosynovial hypertrophy of the ECU tendon. Significant erosive changes on the dorsum of the distal ulna. Narrowing of the distal radio-ulnar joint. Significant narrowing of the 2nd MCP with significant synovial hypertrophy. Large erosion on the dorsum of the 2nd metacarpal head. Multiple erosions are noted on the radial aspect of the 2nd MCP, quite large. Joint space narrowing of the 3rd MCP with slight subluxation of the proximal phalanx. Significant synovial hypertrophy here with 1/3 PDS. Significant synovial hypertrophy of the 5th MCP with 2/3 PDS. Erosion on the ulnar aspect of the 5th metacarpal head. Significant tenosynovial hypertrophy of the 2nd flexor tendon with significant hyperemia. Similar findings of the 3rd and 5th flexor tendons as well. There is also likely flexor tenosynovitis of the volar wrist. The visualized portions of the bone, muscle, tendon, joints and median nerve are otherwise normal appearing.

Comparison: none

IMPRESSION:

Significantly active rheumatoid arthritis with prominent destructive features. Please see details above.

Shane Anderson

A. Shane Anderson, MD, RhMSUS, RMSK
Rheumatology Overread Services

Electronically signed by A. Shane Anderson, MD, RhMSUS, RMSK at 7:15 PM on 3/29/2019

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EULAR-OMERACT DISEASE ACTIVITY

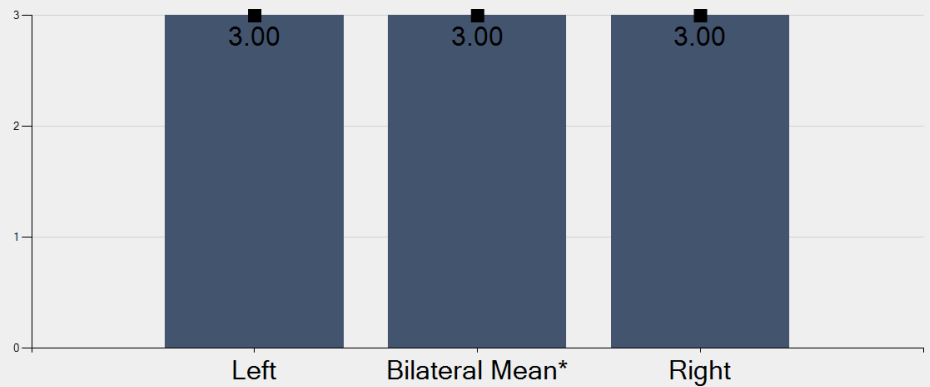
SCORE

From 3/26/2019

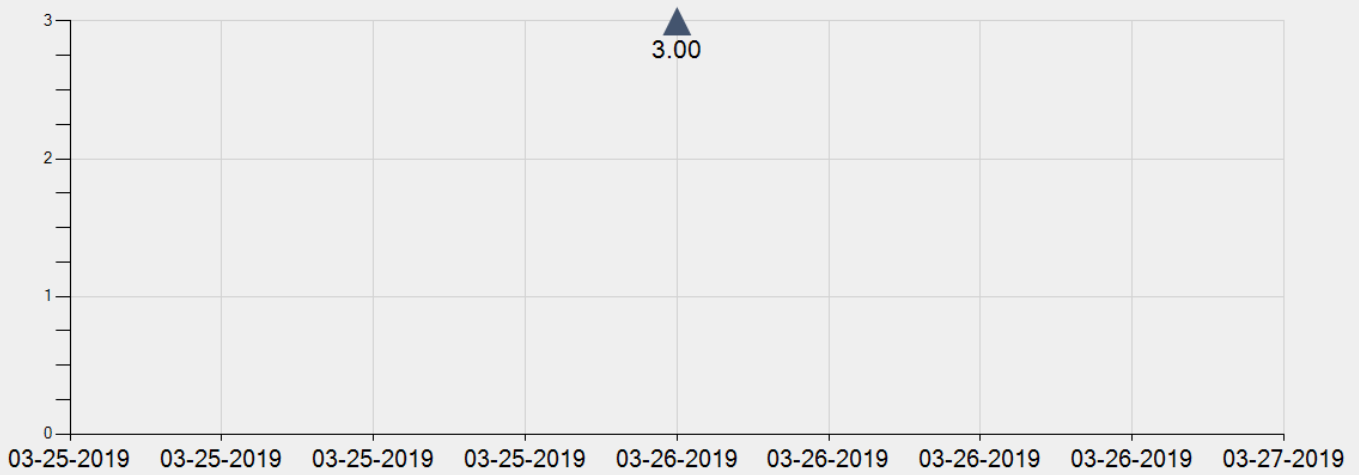
3

Bilateral Mean*

SCORE DISTRIBUTION



HISTORY



▲ Bilateral (mean)

* Bilateral mean may be calculated using a recent previous study when both left and right scores are not part of the current study.

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EULAR-OMERACT DISEASE ACTIVITY
SCORE DETAILS

	Left			Right		
	<u>SH</u>	<u>PD</u>	<u>SCORE</u>	<u>SH</u>	<u>PD</u>	<u>SCORE</u>
RL	3	3	3	2	3	3
2nd MCP	3	0	3	3	0	3
3rd MCP	3	0	3	3	1	3
5th MCP	3	0	3	3	2	3
SCORE			3			3
BILATERAL MEAN*			3			

DETAILS OF PRIOR STUDIES

Date Left Right Bilateral Mean*

* Bilateral mean may be calculated using a recent previous study when both left and right scores are not part of the current study.

References:

- D'Agostino M-A, Terslev L, Aegerter P, et al. Scoring ultrasound synovitis in rheumatoid arthritis: a EULAR-OMERACT ultrasound taskforce - Part 1: definition and development of a standardised, consensus-based scoring system. RMD Open. 2017;3(1)
- Terslev L, Naredo E, Aegerter P, et al. Scoring ultrasound synovitis in rheumatoid arthritis: a EULAR-OMERACT ultrasound taskforce-Part 2: reliability and application to multiple joints of a standardised consensus-based scoring system. RMD Open. 2017