Name: [redacted] | DOF [redacted] | MRN: [redacted] | PCP:

Progress Notes

Alexandru V Olaru, MD at 04/19/21 1400

Electromyography & Nerve Conduction Report

Full Name: [redacted]
MRN: [redacted]
Gender: Male
Date of Birth: [redacted]

Visit Date: 4/19/2021 14:39
Age: 33 Years 5 Months Old
Examining Physician: Alexandru V. Olaru, MD
Patient History: Patient noted muscle twitches occuring on various parts of the body. Has left grip weakness and also noted mild left leg weakness. No numbness. Has some neck pain and also pain in the left shoulder and left thigh and calf bit can also have burning type pain on other parts of the body. Balance is normal. Balance control is normal Symptoms started several weeks ago.
On examination strength is full throughout. Muscle bulk is normal. Reflexes are normal Sensation to PP and vibration is normal

Sensory NCS

Nerve / Sites	Rec. Site	Onset Lat ms	Peak Lat ms	Amp µV	Segments	Distance mm	Peak Diff ms	Velocity m/s
L Radial - Anatomical snuff box (Forearm)								
Forearm	Wrist	1.7	2.3	38	Forearm - Wrist	100		60
L Sural - Ankle (Calf)								
Calf	Ankle	2.9	3.8	23	Calf - Ankle	140		49
L Superficial peroneal - Ankle								
Lat leg	Ankle	3.4	4.3	13	Lat leg - Ankle	140		41
L Median - Orthodromic (Dig II, Mid palm)								
Dig II	Wrist	2.1	2.8	39	Dig II - Wrist	130		61
Mid palm	Wrist	1.3	1.8	116	Mid palm - Wrist	80		61
L Ulnar - Orthodromic, (Dig V, Mid palm)								
Dig V	Wrist	2.1	2.7	18	Dig V - Wrist	110		53
Mid palm	Wrist	1.1	1.7	63	Mid palm - Wrist	80		73
L Lateral antebrachial cutaneous - Forearm (Elbow)								
Elbow	Forearm	1.7	2.3	21	Elbow - Forearm	140		81

Motor NCS

Nerve / Sites	Muscle	Latency ms	Amplitude mV	Segments	Distance mm	Lat Diff ms	Velocity m/s
L Median - APB							
Wrist	APB	2.8	11.1	Wrist - APB	70		
Elbow	APB	6.8	10.1	Elbow - Wrist	240	4.1	59
L Ulnar - ADM							
Wrist	ADM	3.3	12.0	Wrist - ADM	70		
B.Elbow	ADM	6.4	11.4	B.Elbow - Wrist	220	3.1	72
A.Elbow	ADM	8.0	11.7	A.Elbow - B.Elbow	110	1.6	68
				A.Elbow - Wrist		4.7	
L Peroneal - EDB							
Ankle	EDB	4.9	7.4	Ankle - EDB	80		
Fib head	EDB	11.3	6.9	Fib head - Ankle	330	6.4	52
Pop fossa	EDB	13.1	6.9	Pop fossa - Fib head	100	1.8	56
				Pop fossa - Ankle		8.1	
L Tibial - AH							
Ankle	AH	5.7	16.9	Ankle - AH	80		
Pop fossa	AH	15.8	7.1	Pop fossa - Ankle	425	10.1	42

F Wave

Nerve	Fmin ms
L Median - APB	25.3
L Ulnar - ADM	26.8
L Peroneal - EDB	46.4
L Tibial - AH	49.2

EMG Summary Table									
	Spontaneous					MUAP			Recruitment
Muscle	IA	Fib	PSW	Fasc	Comments	Amp	Dur.	PPP	Pattern
L. Deltoid	NL	None	None	None	None	NL	NL	NL	NL
L. Biceps brachii	NL	None	None	None	None	NL	NL	NL	NL
L. Triceps brachii	NL	None	None	None	None	NL	NL	NL	NL
L. Pronator teres	NL	None	None	None	None	NL	NL	NL	NL
L. Abductor pollicis brevis	NL	None	None	None	None	NL	NL	NL	NL
L. First dorsal interosseous	NL	None	None	None	None	NL	NL	NL	NL
L. Cervical paraspinals	NL	None	None	None	None				
L. Tibialis anterior	NL	None	None	None	None	NL	NL	NL	NL

EMG Summary Table									
	Spontaneous					MUAP			Recruitment
Muscle	IA	Fib	PSW	Fasc	Comments	Amp	Dur.	PPP	Pattern
L. Gastrocnemius (Medial head)	NL	None	None	None	None	NL	NL	NL	NL
L. Vastus lateralis	NL	None	None	None	None	NL	NL	NL	NL
L. Gluteus medius	NL	None	None	None	None	NL	NL	NL	NL
L. Gluteus maximus	NL	None	None	None	None	NL	NL	NL	NL
L. Lumbar paraspinals	NL	None	None	None	None				
L. Trapezius (middle)	NL	None	None	None	None	NL	NL	NL	NL
R. Trapezius (middle)	NL	None	None	None	None	NL	NL	NL	NL

Summary

The motor conduction test was normal in all 4 of the tested nerves: L Median - APB, L Ulnar - ADM, L Peroneal - EDB, L Tibial - AH.

The sensory conduction test was performed on 7 nerve(s). The results were normal in 6 nerve(s): L Radial - Anatomical snuff box (Forearm), L Sural - Ankle (Calf), L Superficial peroneal - Ankle, L Median - Orthodromic (Dig II, Mid palm), L Ulnar - Orthodromic, (Dig V, Mid palm), L Lateral antebrachial cutaneous - Forearm (Elbow). Findings were unremarkable in 1 nerve(s): L Median, Ulnar - (2 Ch) Orthodromic, (Ring finger-Wrist). There were no results outside the specified normal range.

The F wave study was normal in all 4 of the tested nerves: L Median - APB, L Ulnar - ADM, L Peroneal - EDB, L Tibial - AH.

The needle EMG study was normal in all 15 tested muscles: L. Deltoid, L. Biceps brachii, L. Triceps brachii, L. Pronator teres, L. Abductor pollicis brevis, L. First dorsal interosseous, L. Cervical paraspinals, L. Tibialis anterior, L. Gastrocnemius (Medial head), L. Vastus lateralis, L. Gluteus medius, L. Gluteus maximus, L. Lumbar paraspinals, L. Trapezius (middle), R. Trapezius (middle).

Conclusion:

This is a normal study.
There is no electrodiagnostic evidence of a left upper or lower extremity neuropathy, radiculopathy or plexopathy..
There is no electrodiagnostic evidence of active denervation
There is no electrodiagnostic evidence of a myopathy

Alexandru V. Olaru, MD

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