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Test Date:

Patient:		DOB:		Physician:	
Sex:	Male	Height:		Ref Phys:	
ID#:		Weight:		Technician:	

TEST: EMG/NCV Upper/Lower

REASON FOR TEST: Rule out neuropathy and or radiculopathy neuropathy and or radiculopathy.

SUMMARY OF FINDINGS: The bilateral median compound motor unit action potentials revealed prolonged distal latencies and decreased conduction velocities. The right tibial and left ulnar compound motor unit action potentials revealed decreased conduction velocities. The bilateral median and ulnar sensory nerve action potentials revealed prolonged distal latencies and decreased conduction velocities. The bilateral radial sensory nerve action potentials revealed upper limit of normal for distal latency and for conduction velocity. The bilateral sural, superficial peroneal and medial plantar sensory nerve action potentials were unobtainable. Bilateral H-reflexes were prolonged and difficult to obtain. In addition, detailed needle electromyographic evaluation was performed on this patient's upper extremities and lower extremities musculature bilaterally, utilizing a sterile monopolar needle. All muscles tested revealed normal insertional activity, silence at rest and normal motor unit potentials. A full recruitment and full interference pattern was elicited utilizing provocative manual resistance.

Impression: Abnormal study, suggestive of coexistent carpal tunnel syndrome as well as a mixed sensory-motor polyneuropathy. Further evaluation with needle electromyography would be helpful to exclude co-existent radiculopathy.

Diplomate ABPN (N), ABEM, & ABDA

EMG

Side	Muscle	Nerve	Root	Ins Act	Fibs	Psw	Amp	Dur	Poly	Recrt	Int Pat	Comment
Right	Deltoid	Axillary	C5-6	Nml	0	0	Nml	Nml	Nml	Nml	Complete	Normal
Right	Biceps	Musculocut	C5-6	Nml	0	0	Nml	Nml	Nml	Nml	Complete	Normal
Right	Triceps	Radial	C6-7-8	Nml	0	0	Nml	Nml	Nml	Nml	Complete	Normal
Right	FlexCarRad	Median	C6-7	Nml	0	0	Nml	Nml	Nml	Nml	Complete	Normal
Right	ExtCarUln	Radial (Post Int)	C7-8	Nml	0	0	Nml	Nml	Nml	Nml	Complete	Normal
Left	Deltoid	Axillary	C5-6	Nml	0	0	Nml	Nml	Nml	Nml	Complete	Normal
Left	Biceps	Musculocut	C5-6	Nml	0	0	Nml	Nml	Nml	Nml	Complete	Normal
Left	Triceps	Radial	C6-7-8	Nml	0	0	Nml	Nml	Nml	Nml	Complete	Normal
Left	FlexCarRad	Median	C6-7	Nml	0	0	Nml	Nml	Nml	Nml	Complete	Normal
Left	ExtCarUln	Radial (Post Int)	C7-8	Nml	0	0	Nml	Nml	Nml	Nml	Complete	Normal
Right	AntTibialis	Dp Br Peron	L4-5	Nml	0	0	Nml	Nml	Nml	Nml	Complete	Normal
Right	Peroneus Long	Sup Br Peron	L5-S1	Nml	0	0	Nml	Nml	Nml	Nml	Complete	Normal
Right	MedGastroc	Tibial	S1-2	Nml	0	0	Nml	Nml	Nml	Nml	Complete	Normal
Left	AntTibialis	Dp Br Peron	L4-5	Nml	0	0	Nml	Nml	Nml	Nml	Complete	Normal
Left	Peroneus Long	Sup Br Peron	L5-S1	Nml	0	0	Nml	Nml	Nml	Nml	Complete	Normal
Left	MedGastroc	Tibial	S1-2	Nml	0	0	Nml	Nml	Nml	Nml	Complete	Normal

Nerve Conduction Studies

Anti Sensory Summary Table

Site	NR	Onset (ms)	Peak (ms)	P-T* Amp (µV)	Site1	Site2	Delta-0 (ms)	Dist (cm)	Vel (m/s)
Left Med Plantar Anti Sensory (Med Sole)									
Med Mall	NR				Med Mall	Med Sole		12.0	
Right Med Plantar Anti Sensory (Med Sole)									
Med Mall	NR				Med Mall	Med Sole		12.0	
Left Median D3 Anti Sensory (3rd Digit)									
Wrist		3.6	4.5	20.6	Wrist	3rd Digit	3.6	14.0	38.9
Right Median D3 Anti Sensory (3rd Digit)									
Wrist		3.7	4.8	21.5	Wrist	3rd Digit	3.7	14.0	37.8
Left Radial Anti Sensory (Base 1st Digit)									
Med Forearm		2.0	2.7	29.1	Med Forearm	Base 1st Digit	2.0	10.0	50.0
Right Radial Anti Sensory (Base 1st Digit)									
Med Forearm		2.0	2.7	13.4	Med Forearm	Base 1st Digit	2.0	10.0	50.0
Left Sup Peroneal Anti Sensory (Ant Lat Mall)									
Low Leg	NR				Low Leg	Ant Lat Mall		14.0	
Right Sup Peroneal Anti Sensory (Ant Lat Mall)									
Low Leg	NR				Low Leg	Ant Lat Mall		14.0	
Left Sural Anti Sensory (Lat Mall)									
Calf	NR				Calf	Lat Mall		14.0	
Right Sural Anti Sensory (Lat Mall)									
Calf	NR				Calf	Lat Mall		14.0	
Left Ulnar Anti Sensory (5th Digit)									
Wrist		3.2	4.2	43.5	Wrist	5th Digit	3.2	14.0	43.8
Right Ulnar Anti Sensory (5th Digit)									
Wrist		3.4	3.8	49.3	Wrist	5th Digit	3.4	14.0	41.2

Motor Summary Table

Site	NR	Onset (ms)	O-P* Amp (mV)	Site1	Site2	Delta-0 (ms)	Dist (cm)	Vel (m/s)
Left Median Motor (Abd Poll Brev)								
Wrist		5.5	2.3	Elbow	Wrist	4.7	22.0	46.8
Elbow		10.2	1.9					
Right Median Motor (Abd Poll Brev)								
Wrist		4.2	8.1	Elbow	Wrist	4.4	22.0	50.0
Elbow		8.6	7.9					
Left Peroneal Motor (EDB)								
Ankle		5.0	0.8	Fib Head	Ankle	5.9	31.0	52.5
Fib Head		10.9	0.7					
Right Peroneal Motor (EDB)								
Ankle		4.8	1.5	Fib Head	Ankle	6.8	31.0	45.6
Fib Head		11.6	2.0					
Left Tibial Motor (Abd Hall Brev)								
Ankle		4.1	1.9	Poplit	Ankle	10.0	43.0	43.0
Poplit		14.1	1.5					
Right Tibial Motor (Abd Hall Brev)								
Ankle		4.5	5.5	Poplit	Ankle	11.3	43.0	38.1
Poplit		15.8	3.9					
Left Ulnar Seg Motor (Abd Dig Minimi)								
Wrist		3.9	8.7	B Elbow	Wrist	4.2	19.0	45.2
B Elbow		8.1	8.9					
Right Ulnar Seg Motor (Abd Dig Minimi)								
Wrist		3.8	6.1	B Elbow	Wrist	3.2	19.0	59.4
B Elbow		7.0	7.7					

F Wave Studies

NR	F-Lat (ms)	Lat Norm (ms)	L-R F-Lat (ms)	L-R Lat Norm
Left Median (Mrkrs) (Abd Poll Brev)				
	31.56	<33	0.00	2
Right Median (Mrkrs) (Abd Poll Brev)				
	31.56	<33	0.00	2
Left Peroneal (Mrkrs) (EDB)				
	40.00	<60	0.00	3
Right Peroneal (Mrkrs) (EDB)				
	40.00	<60	0.00	3
Left Tibial (Mrkrs) (Abd Hallucis)				
	56.41	<61	0.45	3
Right Tibial (Mrkrs) (Abd Hallucis)				
	55.96	<61	0.45	3
Left Ulnar (Mrkrs) (Abd Dig Min)				
	30.55	<36	0.00	2
Right Ulnar (Mrkrs) (Abd Dig Min)				
	30.55	<36	0.00	2

H Reflex Studies

NR	H-Lat (ms)	Lat Norm (ms)	L-R H-Lat (ms)	L-R Lat Norm
Left Median (Flexor Carpi Radialis)				
	12.65	<16	0.00	1.0
Right Median (Flexor Carpi Radialis)				
	12.65	<16	0.00	1.0
Left Tibial (Gastroc)				
	33.01	<32	0.00	1.5
Right Tibial (Gastroc)				
	33.01	<32	0.00	1.5

Waveforms:









