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<b>Patient:</b>		<b>DOB:</b>		
<b>Sex:</b>	Male	<b>Height:</b>	6' 3"	<b>Ref Phys:</b>
<b>ID#:</b>		<b>Weight:</b>	225 lbs.	<b>Technician:</b>

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**Patient Complaints:**

Male Pt. has pain in the neck/shoulder and lower back region. Patient has been presently diagnosed by referring physician with cervical disc W/O myelopathy, cervicalgia, shoulder pain and lumbosacral disc.

**NCV Findings:**

Evaluation of the Left median motor and the Right median motor nerves showed decreased conduction velocity (Elbow-Wrist, L21, R22 m/s). The Left peroneal motor, the Right peroneal motor, the Left ulnar motor nerves showed reduced amplitude (L2.0, R1.6, L1.7, R1.3, L203.9, R26.8  $\mu$ V). The Left tibial motor and the Right tibial motor nerves showed prolonged distal onset latency (L13.8, R6.8 ms) and reduced amplitude (L0.1, R1.6 mV). The Left sural sensory and the Right sural sensory nerves showed prolonged distal peak latency (L5.2, R14.8 ms) and decreased conduction velocity (Calf-Lat Mall, L27, R9 m/s). The Right ulnar sensory nerve showed prolonged distal peak latency (4.1 ms), reduced amplitude (6.0  $\mu$ V), and decreased conduction velocity (Wrist-5th Digit, 34 m/s).

All remaining nerves (as indicated in the following tables) were within normal limits.

All F Wave latencies were within normal limits.

**Impression:**

This is a reading of the NCV study, based on wave forms and data summary tables.

There is a delay in latency and slowing of the conduction velocity over the right ulnar and both sural sensory nerves.

There is a moderate slowing of the conduction velocity over both median motor nerves.

There is a delay in latency of both tibial motor nerves.

There is a reduction in amplitude over both tibial, both peroneal and both ulnar motor nerves.

Above findings are compatible with Polyneuropathy, involving both upper and lower extremities.

## Nerve Conduction Studies

## Anti Sensory Summary Table

Site	NR	Peak (ms)	Norm Peak (ms)	P-T Amp ( $\mu$ V)	Norm P-T Amp	Site1	Site2	Delta-P (ms)	Dist (cm)	Vel (m/s)	Norm Vel (m/s)
<b>Left Median Anti Sensory (2nd Digit)</b>											
Wrist		2.7	<3.6	29.2	>10	Wrist	2nd Digit	2.7	14.0	52	>39
<b>Right Median Anti Sensory (2nd Digit)</b>											
Wrist		2.8	<3.6	15.1	>10	Wrist	2nd Digit	2.8	14.0	50	>39
<b>Left Sural Anti Sensory (Lat Mall)</b>											
Calf		5.2	<4.0	314.6	>5.0	Calf	Lat Mall	5.2	14.0	27	>35
<b>Right Sural Anti Sensory (Lat Mall)</b>											
Calf		14.8	<4.0	7.3	>5.0	Calf	Lat Mall	14.8	14.0	9	>35
<b>Left Ulnar Anti Sensory (5th Digit)</b>											
Wrist		2.8	<3.7	27.5	>15.0	Wrist	5th Digit	2.8	14.0	50	>38
<b>Right Ulnar Anti Sensory (5th Digit)</b>											
Wrist		4.1	<3.7	6.0	>15.0	Wrist	5th Digit	4.1	14.0	34	>38

## Motor Summary Table

Site	NR	Onset (ms)	Norm Onset (ms)	O-P Amp (mV)	Norm O-P Amp	Site1	Site2	Delta-0 (ms)	Dist (cm)	Vel (m/s)	Norm Vel (m/s)
<b>Left Median Motor (Abd Poll Brev)</b>											
Wrist		3.3	<4.2	8.4	>5	Elbow	Wrist	10.5	22.0	21	>50
Elbow		13.8		0.0		Axilla	Elbow	0.0	0.0		
Axilla		13.8		0.0							
<b>Right Median Motor (Abd Poll Brev)</b>											
Wrist		3.8	<4.2	7.0	>5	Elbow	Wrist	10.0	22.0	22	>50
Elbow		13.8		0.0		Axilla	Elbow	0.0	0.0		
Axilla		13.8		0.0							
<b>Left Peroneal Motor (Ext Dig Brev)</b>											
Ankle		2.0	<6.1	2.0	>2.5	B Fib	Ankle	11.5	0.0		>38
B Fib		13.5		2.9		Poplt	B Fib	1.0	0.0		>40
Poplt		14.5		4.8							
<b>Right Peroneal Motor (Ext Dig Brev)</b>											
Ankle		3.0	<6.1	1.6	>2.5	B Fib	Ankle	10.8	0.0		>38
B Fib		13.8		0.2		Poplt	B Fib	1.1	0.0		>40
Poplt		14.9		5.7							
<b>Left Tibial Motor (Abd Hall Brev)</b>											
Ankle		13.8	<6.1	0.1	>3.0	Knee	Ankle	0.0	0.0		>35
Knee		13.8		0.0							
<b>Right Tibial Motor (Abd Hall Brev)</b>											
Ankle		6.8	<6.1	1.6	>3.0	Knee	Ankle	7.0	0.0		>35
Knee		13.8		0.0							
<b>Left Ulnar Motor (Abd Dig Minimi)</b>											
Wrist		2.7	<4.2	1.7	>3	B Elbow	Wrist	6.2	0.0		>53
B Elbow		8.9		1.1		A Elbow	B Elbow	3.0	0.0		>53
A Elbow		11.9		3.2							
<b>Right Ulnar Motor (Abd Dig Minimi)</b>											
Wrist		0.9	<4.2	1.3	>3	B Elbow	Wrist	12.9	0.0		>53
B Elbow		13.8		0.1		A Elbow	B Elbow	0.0	0.0		>53
A Elbow		13.8		0.3							

## F Wave Studies

NR	F-Lat (ms)	Lat Norm (ms)	L-R F-Lat (ms)	L-R Lat Norm
<b>Left Median (Mrkrs) (Abd Poll Brev)</b>				
	20.00	<33	0.00	<2.2
<b>Right Median (Mrkrs) (Abd Poll Brev)</b>				
	20.00	<33	0.00	<2.2
<b>Left Peroneal (Mrkrs) (EDB)</b>				

40.00	<60	0.00	<5.1
<b>Right Peroneal (Mrkrs) (EDB)</b>			
40.00	<60	0.00	<5.1
<b>Left Tibial (Mrkrs) (Abd Hallucis)</b>			
40.00	<61	0.00	<5.7
<b>Right Tibial (Mrkrs) (Abd Hallucis)</b>			
40.00	<61	0.00	<5.7
<b>Left Ulnar (Mrkrs) (Abd Dig Min)</b>			
20.00	<36	0.00	<2.5
<b>Right Ulnar (Mrkrs) (Abd Dig Min)</b>			
20.00	<36	0.00	<2.5

**H Reflex Studies**

NR	H-Lat (ms)	L-R H-Lat (ms)	L-R Lat Norm
<b>Left Median (Flex Car Rad)</b>			
20.00		0.00	<1.0
<b>Right Median (Flex Car Rad)</b>			
20.00		0.00	<1.0
<b>Left Tibial (Gastroc)</b>			
40.00		0.00	<2.0
<b>Right Tibial (Gastroc)</b>			
40.00		0.00	<2.0

**Nerve Conduction Studies**

**Anti Sensory Left/Right Comparison**

Site	L Lat (ms)	R Lat (ms)	L-R Lat (ms)	L Amp (µV)	R Amp (µV)	L-R Amp (%)	Site1	Site2	L Vel (m/s)	R Vel (m/s)	L-R Vel (m/s)
<b>Median Anti Sensory (2nd Digit)</b>											
Wrist	2.7	2.8	0.1	29.2	15.1	48.3	Wrist	2nd Digit	52	50	2
<b>Sural Anti Sensory (Lat Mall)</b>											
Calf	5.2	14.8	9.6	314.6	7.3	97.7	Calf	Lat Mall	27	9	18
<b>Ulnar Anti Sensory (5th Digit)</b>											
Wrist	2.8	4.1	1.3	27.5	6.0	78.2	Wrist	5th Digit	50	34	16

**Motor Left/Right Comparison**

Site	L Lat (ms)	R Lat (ms)	L-R Lat (ms)	L Amp (mV)	R Amp (mV)	L-R Amp (%)	Site1	Site2	L Vel (m/s)	R Vel (m/s)	L-R Vel (m/s)
<b>Median Motor (Abd Poll Brev)</b>											
Wrist	3.3	3.8	0.5	8.4	7.0	16.7	Elbow	Wrist	21	22	1
Elbow	13.8	13.8	0.0	0.0	0.0		Axilla	Elbow			
Axilla	13.8	13.8	0.0	0.0	0.0						
<b>Peroneal Motor (Ext Dig Brev)</b>											
Ankle	2.0	3.0	1.0	2.0	1.6	20.0	B Fib	Ankle			
B Fib	13.5	13.8	0.3	2.9	0.2	93.1	Poplt	B Fib			
Poplt	14.5	14.9	0.4	4.8	5.7	15.8					
<b>Tibial Motor (Abd Hall Brev)</b>											
Ankle	13.8	6.8	7.0	0.1	1.6	93.8	Knee	Ankle			
Knee	13.8	13.8	0.0	0.0	0.0						
<b>Ulnar Motor (Abd Dig Minimi)</b>											
Wrist	2.7	0.9	1.8	1.7	1.3	23.5	B Elbow	Wrist			
B Elbow	8.9	13.8	4.9	1.1	0.1	90.9	A Elbow	B Elbow			
A Elbow	11.9	13.8	1.9	3.2	0.3	90.6					

Waveforms:





