



The EMG Center

Serving Central Pennsylvania:
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Patient:	DOB:	Date Of Service:
Height:	Sex:	Ref Phys:
Weight:		

Complaints: Brief clarifying examination reveals N/T R hand, digits I-V. Symptoms began, "Six months ago," with no overt MOI. Reports he has chronically had N/T to R hand but notably worse in the last six months. Denies neck pain or N/T to L upper or B lowers. Reports nocturnal paresthesia with Flick sign. Reports R hand is losing strength and is now dropping smaller objects. Denies DM, heart, lung, thyroid, autoimmune, CA or exposure to toxins. Sensation diminished R dorsal/ventral hand digits II-IV. MMT: C5-T1 5/5, except R APB 3+/5. Tinell's POS R, Neg L at wrist and Neg B at elbow. Durkan's POS R, Neg L. Hoffman's Neg B. Spurling's Neg B. MSR: Bi, Br, Tri 1+=B. Hands and feet maintained at 31 C and 29 C respectively.

ELECTRONEUROMYOGRAPHIC STUDY:

Nerve Conduction:

- R median sensory to digits I and III elicit no response. R median motor demonstrates delayed latency and reduced amplitude, with spared forearm velocity.
- R: ulnar sensory, ulnar motor and ulnar F wave are WNL.
- R radial sensory to digit I is WNL.

Electromyography:

- R APB demonstrate larger than normal muscle motor units.
- All other muscles sampled, R uppers C5-T1, including R paraspinals C4-T1, are WNL in insertional, resting, muscle unit morphology, and recruitment activities.

Impression: (Abnormal Study)

1. The evidence suggests severe R median neuropathy across the wrist.
2. There is not sufficient evidence to suggest any other focal mononeuropathy, cervical radiculopathy, brachial plexopathy, generalized polyneuropathy, or myopathy.

Thank you for the referral.

Daniel B. Neff, DPT

Daniel B. Neff, DPT, ECS, COMT
Board Certified Electrophysiologist



Nerve Conduction Studies

Motor Summary Table

Stim Site	NR	Onset (ms)	Norm Onset (ms)	O-P Amp (mV)	Norm O-P Amp	Neg Dur (ms)	Full Dur (ms)	Neg Area (mVms)	Site1	Site2	Delta-0 (ms)	Dist (cm)	Vel (m/s)	Norm Vel (m/s)
Right Median Motor (Abd Poll Brev)														
Wrist		4.8	<4.2	1.5	>4.1	3.75	28.91	3.20	Wrist	Abd Poll Brev	4.8	8.0		
Elbow		9.8		1.5		4.84	24.06	3.70	Elbow	Wrist	5.0	27.0	54	>49.0
Right Ulnar Seg Motor (Abd Dig Minimi)														
Wrist		2.8	<3.7	7.3	>4.9	5.47	30.31	22.95	Wrist	Abd Dig Minimi	2.8	8.0		
B Elbow		6.9		6.8		5.94	26.09	22.51	B Elbow	Wrist	4.1	25.0	61	>52.0
A Elbow		8.3		6.4		5.47	25.00	21.40	A Elbow	B Elbow	1.4	8.0	57	>43.0

Sensory Summary Table

Stim Site	NR	Peak (ms)	Norm Peak (ms)	O-P Amp (µV)	Norm O-P Amp	Site1	Site2	Delta-P (ms)	Dist (cm)	Vel (m/s)	Norm Vel (m/s)
Right Median D3 Antidromic Transcarpal Sensory (3rd Digit)											
Wrist	NR		<3.6		>10.0	Wrist	3rd Digit		14.0		>39
Palm	NR		<2.2		>10.0	Palm	3rd Digit		7.0		>32
						Wrist	Palm		7.0		>39.0
Right Ulnar D5 Sensory (5th Digit)											
Wrist		3.3	<4.0	14.6	>10.0	Wrist	5th Digit	3.3	14.0	42	>35

Sen Comparison Summary Table

Stim Site	NR	Peak (ms)	Norm Peak (ms)	O-P Amp (µV)	Norm O-P Amp	Site1	Site2	Delta-P (ms)	Dist (cm)
Right Median/Radial Sen Comparison (Digit 1 (10 cm seg))									
Median Wst	NR		<3.0		>7.0	Median Wst	Radial Wst		10.0
Radial Wst		2.2	<3.0	10.7	>7.0				

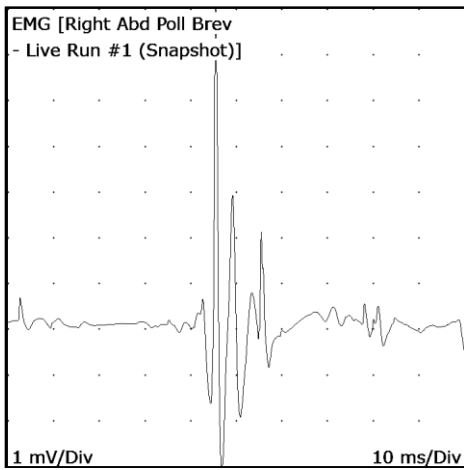
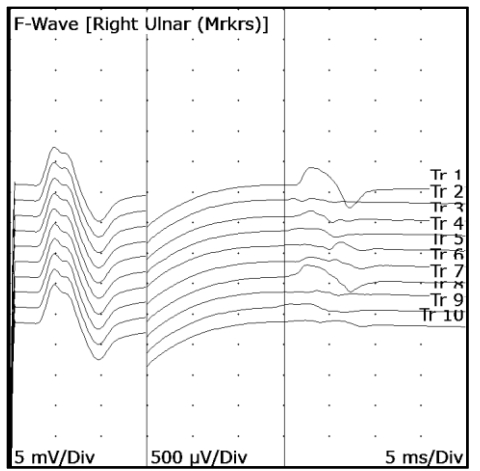
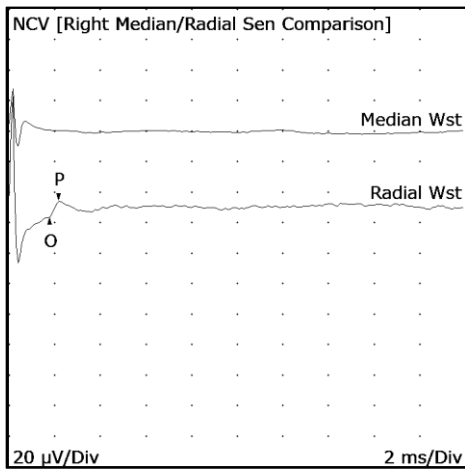
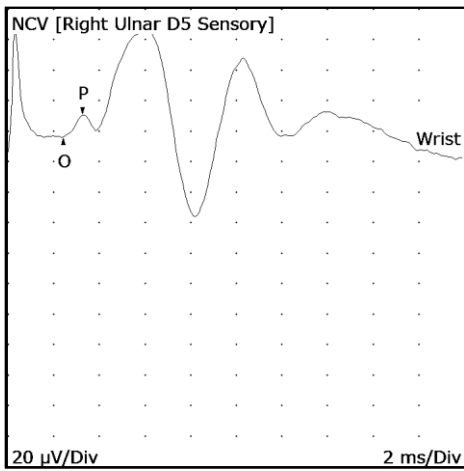
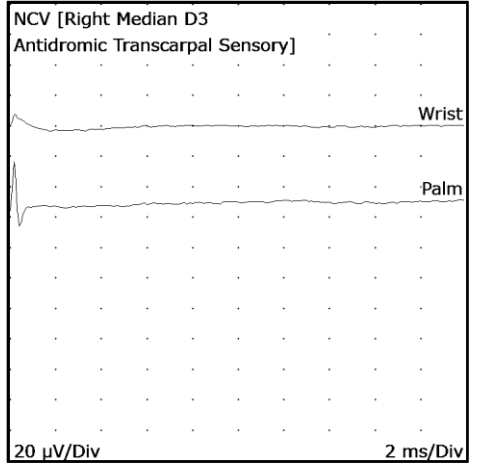
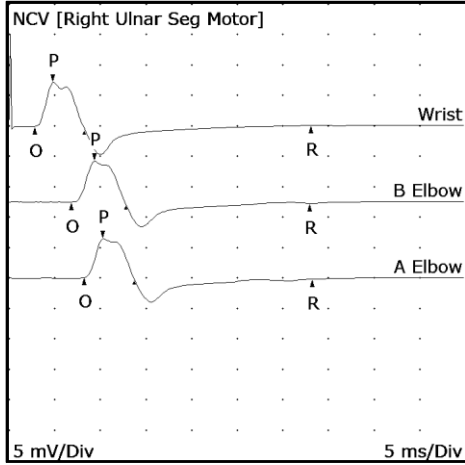
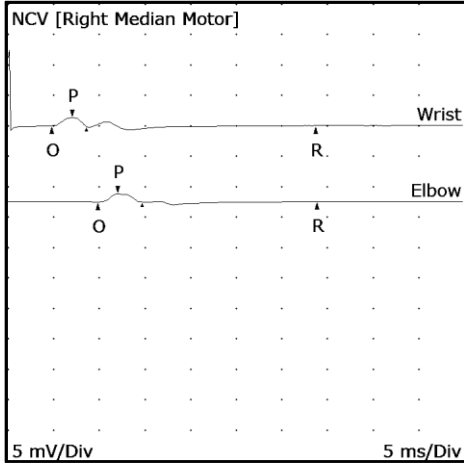
F Wave Studies

NR	F-Lat (ms)	Lat Norm (ms)	L-R F-Lat (ms)	L-R Lat Norm
Right Ulnar (Mrkrs) (Abd Dig Min)				
	30.11	<31.5		<2.5

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	
Right	Triceps	Radial	C6-7-8	Nml	0	0	Nml	Nml	Nml	Nml	Complete	
Right	ExtDigCom	Radial (Post Int)	C7-8	Nml	0	0	Nml	Nml	Nml	Nml	Complete	
Right	FlexCarRad	Median	C6-7	Nml	0	0	Nml	Nml	Nml	Nml	Complete	
Right	BrachioRad	Radial	C5-6	Nml	0	0	Nml	Nml	Nml	Nml	Complete	
Right	Abd Poll Brev	Median	C8-T1	Nml	0	0	Inc	Inc	Nml	Nml	Complete	
Right	1stDorInt	Ulnar	C8-T1	Nml	0	0	Nml	Nml	Nml	Nml	Complete	
Right	CervParasp Middle	Rami		Nml	0	0						
Right	CervParasp Lower	Rami		Nml	0	0						

Waveforms:



	Units by Extremity		Description					
	L	R						
95886 Upper		1	EMG Complete (5 or more muscles) each extremity; with or w/out paraspinals when performed with NCS					
Lower								
95885 Upper			EMG Limited (<5 muscles) each extremity; with or w/out paraspinals when performed with NCS					
Lower								
95907			Nerve conduction studies 1-2 tests					
95908			Nerve conduction studies 3-4 tests					
95909		1	Nerve conduction studies 5-6 tests					
95910			Nerve conduction studies 7-8 tests					
95911			Nerve conduction studies 9-10 tests					
95912			Nerve conduction studies 11-12 tests					
95913			Nerve conduction studies 13- tests					