

Patient: XXX (M) **DOB:** XX-XX-XXXX **Physician:** Dr. XXXX, MD

Diagnosis / Complaint: G56.03, G56.21 Medical chart reviewed, and brief clarifying examination reveals pain on / off since 2010 in B hands (digits I-V), wrist, forearm, and shoulders. Had EMG 2012 after falling in manhole. No surgery as result of that EMG. Primary complaints today of L>R N/T, aching, and burning in B digits I-III and intermittently digits IV and V. Reports intermittent N/T in B feet that he feels is related to his LBP. Today, he reports worsening B hand symptoms past 3 months making it difficult to sleep. Quadruple bypass several years ago and takes baby aspirin daily. Denies: DM, lung, thyroid, CA, auto immune, or exposure to hazardous chemicals. MMT: C5-T1 5/5 except B APB 4+/5. MSR: Bi, Br, Tri = B. Special Testing: Hoffman's neg B. Durkan's neg B. Tinel's wrist POS R, neg L. Tinel's elbow neg B. Phalen's POS B. Lhermitte's neg B. Spurling's neg B. Hands and feet maintained at 31C and 29C respectively.

ELECTRONEUROMYOGRAPHIC SUMMARY

Nerve Conduction:

- B median sensory to digits I and III have no response. R median motor demonstrates delayed latency and slow forearm velocity with spared brachial velocity and amplitudes. The L median motor demonstrates delayed distal latency with spared amplitudes and forearm velocity.
- The R ulnar motor to the ADM demonstrates comparable (>10m/s) slow velocity across the elbow with spared forearm and brachial velocity and spared latency and amplitudes. The R ulnar motor to the FDI demonstrates slow across elbow velocity with spared forearm and brachial velocity and spared latency and amplitudes. The B ulnar sensory are WNL.
- The L ulnar motor is WNL. The B radial sensory are WNL. The B ulnar F-Waves are WNL.
- Sampling of the L lower demonstrates WNL sural sensory, peroneal motor, and peroneal F-Wave.

Electromyography:

- The R FDI and ADM demonstrate larger than normal muscle motor units. The L APB demonstrates increase insertional activity.
- All other muscles sampled in the B uppers C5-T1 and R paraspinals C6-T1 are WNL in insertional, resting, muscle unit morphology, and recruitment activities.

Impression: (Abnormal Study)

1. The evidence suggests severe B median neuropathy across the wrists.
2. The evidence suggests very mild R ulnar neuropathy across the elbow.
3. Often, multiple areas of focal slowing are an early sign of developing generalized polyneuropathy, which is not confirmed with screening of the L lower today.
4. There is not sufficient evidence to suggest any other focal mononeuropathy, cervical radiculopathy, brachial plexopathy, or myopathy.

Thank you for the referral.

Nerve Conduction Studies

Anti Sensory Summary Table

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)
Left Median Anti Sensory (3rd Digit)											
Palm	NR		<2.2		>10	Palm	3rd Digit		7.0		
Wrist	NR		<3.6			Wrist	Palm		7.0		>39
Right Median Anti Sensory (3rd Digit)											
Palm	NR		<2.2		>10	Palm	3rd Digit		7.0		
Wrist	NR		<3.6			Wrist	Palm		7.0		>39
Left Sural Anti Sensory (Lat Mall)											
Calf		3.0	<4.2	18.1	>5.0	Calf	Lat Mall	3.0	12.0	40	
Left Ulnar Anti Sensory (5th Digit)											
Wrist		2.8	<3.4	14.0	>10	Wrist	5th Digit	2.8	12.0	43	
Right Ulnar Anti Sensory (5th Digit)											
Wrist		2.8	<3.4	13.4	>10	Wrist	5th Digit	2.8	12.0	43	

Motor Summary Table

Site	NR	Onset (ms)	Norm Onset (ms)	O-P* Amp (mV)	Norm O-P Amp	Neg Dur (ms)	Site1	Site2	Delta-0 (ms)	Dist (cm)	Vel (m/s)	Norm Vel (m/s)
Left Median Motor (Abd Poll Brev)												
Wrist		5.6	<4.2	9.9	>2.8	6.09	Wrist	Elbow	4.7	24.5	52	>50
Elbow		10.3		9.2		6.25						
Right Median Motor (Abd Poll Brev)												
Wrist		4.7	<4.2	10.8	>2.8	7.03	Wrist	Elbow	5.1	24.5	48	>50
Elbow		9.8		9.8		4.06	Elbow	Axilla	1.9	10.0	53	>50
Axilla		11.7		9.3		4.06						
Left Peroneal Motor (Ext Dig Brev)												
Ankle 8cm		5.3	<6.2	5.4	>0.700	4.38	B Fib	Ankle 8cm	7.0	33.0	47	>38
B Fib		12.3		4.4		4.69	Poplt	B Fib	1.9	8.0	42	>39
Poplt		14.2		4.1		4.69						
Left Ulnar Motor (Abd Dig Minimi)												
Wrist 8cm		3.4	<3.6	10.6	>4.2	5.31	B Elbow	Wrist 8cm	3.5	20.5	59	>49
B Elbow		6.9		8.8		5.78	A Elbow	B Elbow	1.4	8.0	57	>44
A Elbow		8.3		8.6		5.63	Axilla	A Elbow	1.4	10.0	71	>50
Axilla		9.7		7.9		6.41						
Right Ulnar Motor (Abd Dig Minimi) max stim BE												
Wrist 8cm		3.3	<3.6	10.3	>4.2	5.00	B Elbow	Wrist 8cm	3.3	21.5	65	>49
B Elbow		6.6		6.6		5.94	A Elbow	B Elbow	1.8	8.0	44*	>44
A Elbow		8.4		9.0		5.78	Axilla	A Elbow	1.4	10.0	71	>50
Axilla		9.8		8.7		6.09						
Right Ulnar FDI Motor (FDI)												
Wrist		3.9		10.1		4.53	Wrist	B Elbow	3.8	21.5	57	>49
B Elbow		7.7		6.3		4.53	B Elbow	A Elbow	1.7	8.0	47*	>44
A Elbow		9.4		7.1		4.84	A Elbow	Axilla	1.7	10.0	59	>50
Axilla		11.1		6.9		5.00						

Comparison Summary Table

Site	NR	Peak (ms)	O-P* Amp (µV)	Norm O-P Amp	Site1	Site2	Delta-P (ms)
Left Median/Radial Comparison (Digit 1)							
Median 10cm	NR			>7	Median 10cm	Radial 10 cm	
Radial 10 cm		2.4	8.0				
Right Median/Radial Comparison (Digit 1)							
Median 10cm	NR			>7	Median 10cm	Radial 10 cm	
Radial 10 cm		2.6	11.5				

F Wave Studies

NR	F-Lat (ms)	Lat Norm (ms)	L-R F-Lat (ms)
Left Peroneal (Mrkrs) (EDB)			
	53.27	<60	
Left Ulnar (Mrkrs) (Abd Dig Min)			
	29.61	<33	0.34
Right Ulnar (Mrkrs) (Abd Dig Min)			
	29.95	<33	0.34

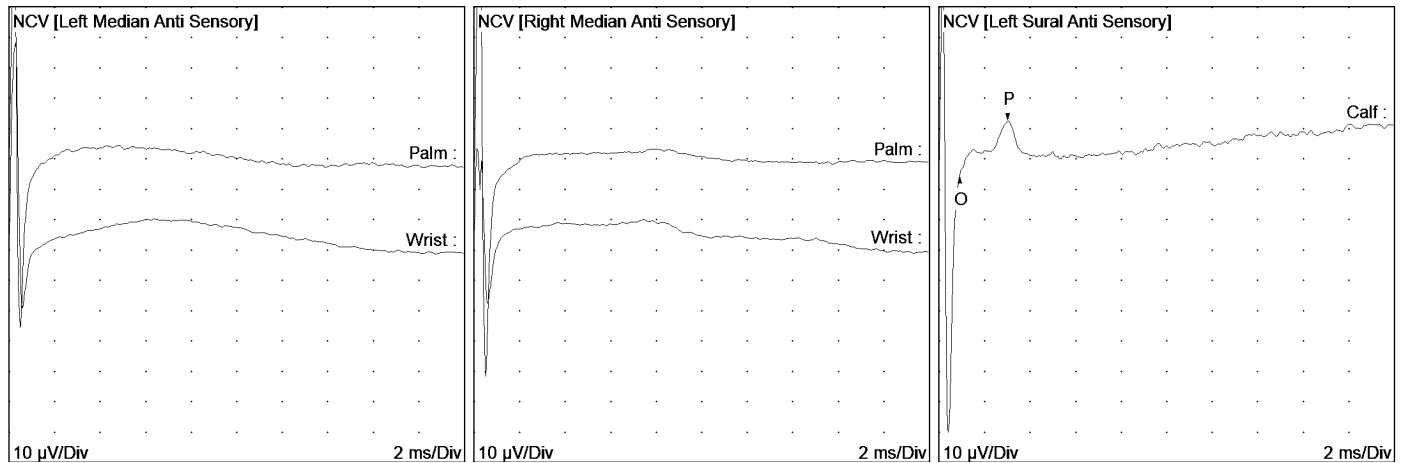
EMG

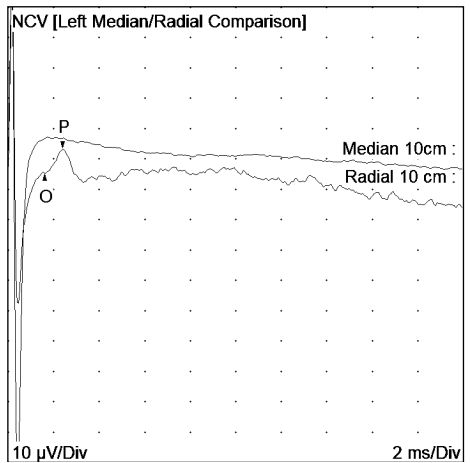
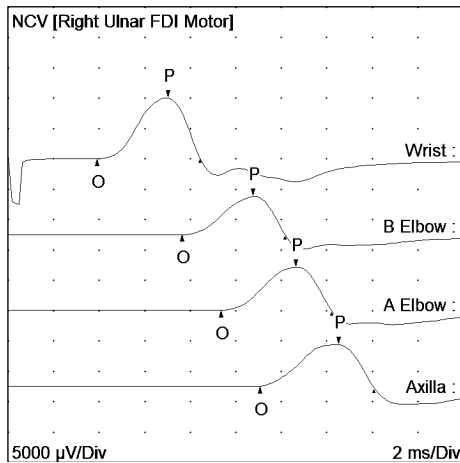
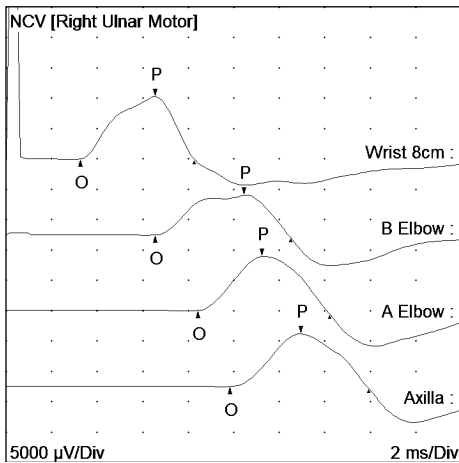
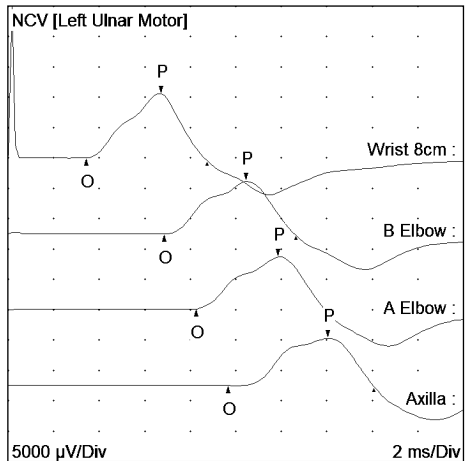
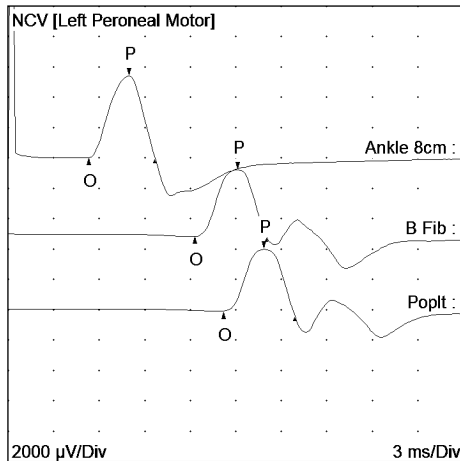
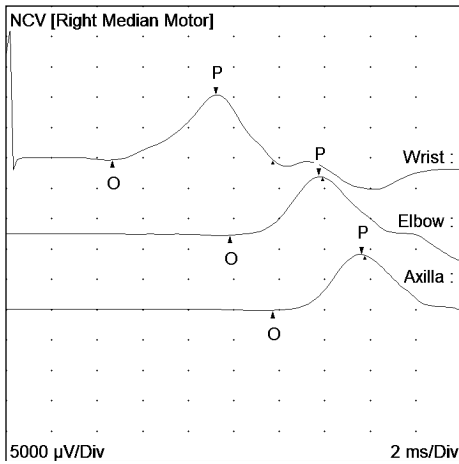
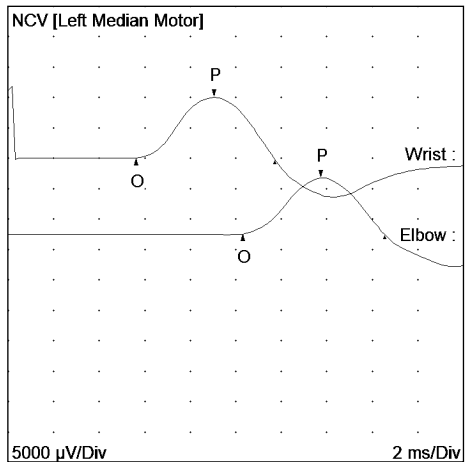
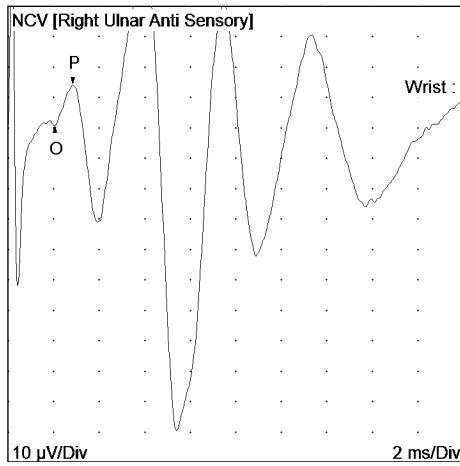
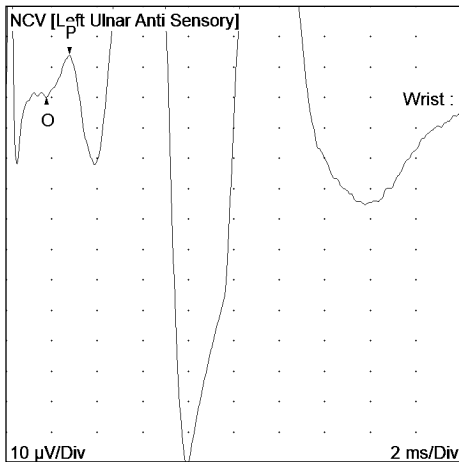
Side	Muscle	Nerve	Root	Ins Act	Fibs	Psw	Other	Amp	Dur	Poly	Recrt	Int Pat	Comment
Right	IstDorInt	Ulnar	C8-T1	Nml	Nml	Nml	Nml	Incr	Nml	0	Nml	Nml	
Right	Abd Poll Brev	Median	C8-T1	Nml	Nml	Nml	Nml	Nml	Nml	0	Nml	Nml	
Right	FlexCarRad	Median	C6-7	Nml	Nml	Nml	Nml	Nml	Nml	0	Nml	Nml	
Right	BrachioRad	Radial	C5-6	Nml	Nml	Nml	Nml	Nml	Nml	0	Nml	Nml	
Left	Abd Poll Brev	Median	C8-T1	Incr	Nml	Nml	Nml	Nml	Nml	0	Nml	Nml	
Left	IstDorInt	Ulnar	C8-T1	Nml	Nml	Nml	Nml	Nml	Nml	0	Nml	Nml	
Left	ExtDigCom	Radial (Post Int)	C7-8	Nml	Nml	Nml	Nml	Nml	Nml	0	Nml	Nml	
Left	FlexCarRad	Median	C6-7	Nml	Nml	Nml	Nml	Nml	Nml	0	Nml	Nml	
Left	BrachioRad	Radial	C5-6	Nml	Nml	Nml	Nml	Nml	Nml	0	Nml	Nml	
Left	Deltoid	Axillary	C5-6	Nml	Nml	Nml	Nml	Nml	Nml	0	Nml	Nml	
Left	Triceps	Radial	C6-7-8	Nml	Nml	Nml	Nml	Nml	Nml	0	Nml	Nml	
Left	Trapezius	SpinalAcc	CN XI, C3-4	Nml	Nml	Nml	Nml	Nml	Nml	0	Nml	Nml	
Right	ABD Dig Min	Ulnar	C8-T1	Nml	Nml	Nml	Nml	Incr	Nml	0	Nml	Nml	

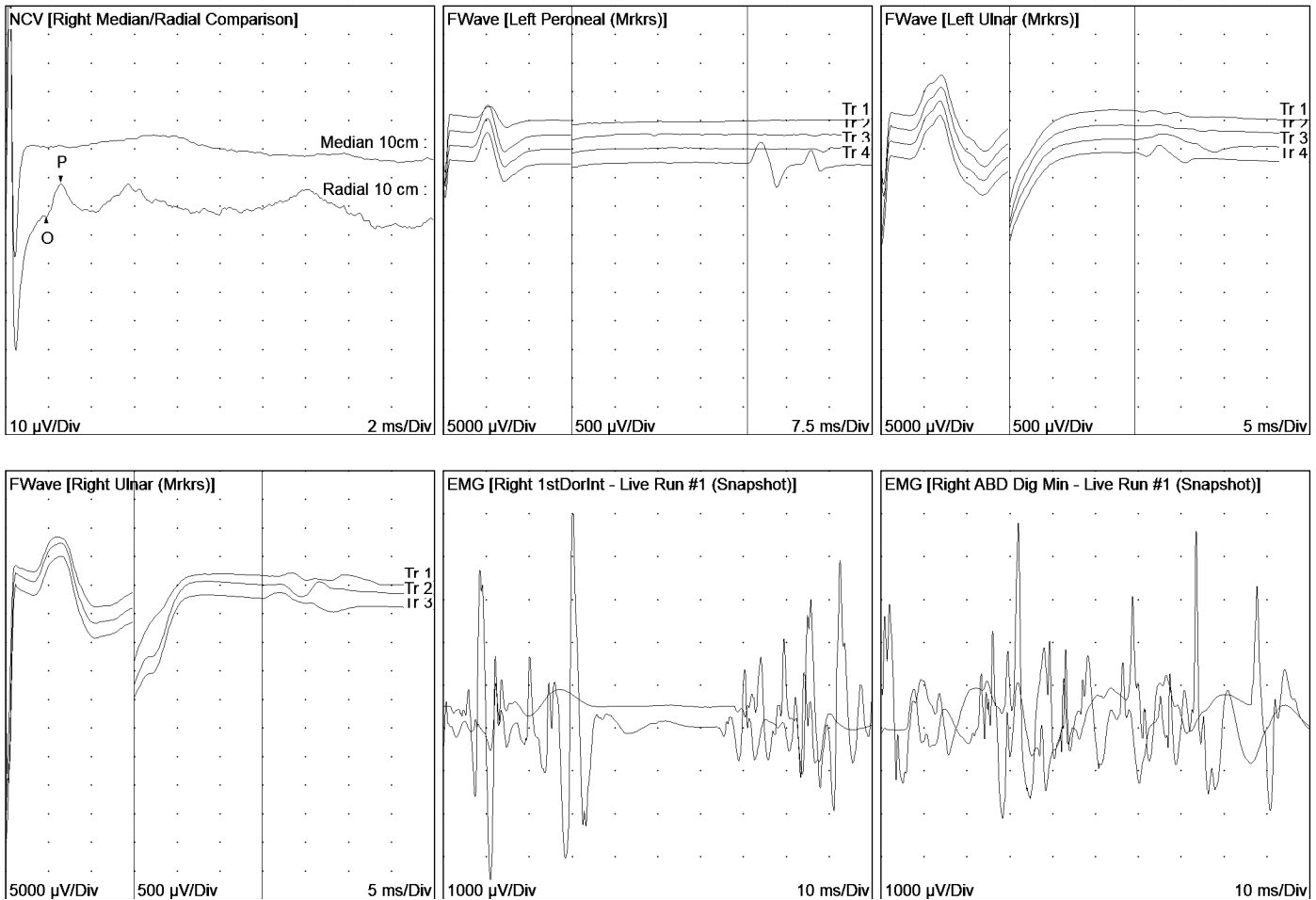
Paraspinal EMG

Side	Muscle	Nerve	Root	Ins Act	Fibs	Psw	Other	Amp	Dur	Poly	Recrt	Int Pat	Comment
Right	C6-7	DPR	C6-7	Nml	Nml	Nml	Nml	NT'd	NT'd	NT'd	NT'd	NT'd	
Right	C7-T1	DPR	C7,C8	Nml	Nml	Nml	Nml	NT'd	NT'd	NT'd	NT'd	NT'd	

Waveforms:







			EMG / NCS Charges			
Units by Extremity			Description			
	L	R				
95886	Upper	1				
	Lower					
95885	Upper	1				
	Lower					
95907						
95908						
95909						
95910						
95911						
95912						
95913		1				

Common Modifiers used for EMG billing are: **XS, 59, LT & RT**