

Indiana Regional Medical Center

835 Hospital Road
Indiana, PA 15701

Patient: **STIFFLER, ERIC VAUGHN**

MRN: 100165848

Admit: 11/15/2024

FIN: 2003957119

Disch:

DOB/Age/Sex: 8/7/1979 45 years Male

Admitting: Eckels,Dennis L

Location: IH-NEURO

835 Hospital
Road

Indiana, PA 15701-3629

724-357-7000

Patient Viewable Clinical Documentation

DOCUMENT NAME: EMG/Botox
SERVICE DATE/TIME: 11/15/2024 14:04 EST
RESULT STATUS: Auth (Verified)
PERFORM INFORMATION: Viehmann,Brandon D (11/15/2024 14:13 EST)
SIGN INFORMATION: Viehmann,Brandon D (11/15/2024 14:13 EST)

Eric Stiffler is referred from Dr. Eckles, DO for electromyographic evaluation of the upper extremities to include upper limb mononeuropathy, brachial plexopathy or cervical radiculopathy.

Eric Stiffler is a 45-year-old right-handed industrial maintenance specialist with a longstanding history of bilateral hand pain and right much greater than left intermittent hand numbness and tingling. Hand paresthesias are most noticeable nocturnally and with sustained gripping activities. Intermittent electric-like sensations are also noted through the right volar wrist. Left basal joint pain has been especially troublesome, and noted with sustained gripping activities. Eric also states a longstanding history of predominantly central chronic neck pain; however intermittently neck discomfort will radiate into the proximal upper extremities and shoulders. Radiologist interpretation of cervical spine x-rays completed October 15, 2020 demonstrated C4-7 degenerative disc disease with mild bilateral C6-7 neuroforaminal stenosis.

Physical examination:

Deep tendon reflexes are intact and symmetric bilateral biceps brachii, brachioradialis and triceps.

Hoffmann sign is negative bilaterally.

Basal joint scour sign is significantly positive on the left, negative right.

Tinel sign is positive right median nerve at the wrist; negative bilateral ulnar nerves at the wrist and elbow.

Cervical range of motion is painfully limited 25% into all planes.

Phalen's position positive right greater than left.

Manual muscle test bilateral C4-T1 myotomes 4+/5. Mild weakness is noted in right thumb palmar abduction.

Bilateral hand temperature 32 °C.

Please see attached document for nerve conduction and electromyographic data, summary and waveforms.

Electromyographic impression:

1. Moderate right; very mild, early left median neuropathy across the wrist and carpal tunnel segment without acute denervation of the abductor pollicis brevis. Intermittent hand paresthesias are much more troublesome on the right, subjectively.

2. Mild bilateral ulnar demyelinating involvement across the global elbow segment without acute or chronic denervation of ulnar innervated hand intrinsics.

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3. All other electromyographic studies of the upper extremities are within normal limits and would not suggest postganglionic, neurogenic brachial plexopathy; or C5-T1 acute/chronic root level irritation.

Please correlate findings clinically.

Electronically Signed on 11/15/24 14:13

Viehmnn, Brandon D

* Auth (Verified) *

Indiana Regional Medical Center

835 Hospital Rd,
Indiana, PA 15701
Ph 724-357-7000

Test Date: 11/15/2024

Pt. Name:	Eric Stiffler	DOB:	8/7/1979	Examiner:	B. Viehmann PT, DPT, ECS
		Sex:	Male	Ref. Phy:	Dr. Eckles, DO

Nerve Conduction Studies
Anti Sensory Summary Table

Stim Site	NR	Peak (ms)	O-P Amp (µV)	Norm O-P Amp	Norm Peak (ms)	Dist (cm)	Vel (m/s)	Norm Vel (m/s)
Left Median Anti Sensory (Dgt)								
Thumb		3.8	25.0	>5	<4.0	14.0	37	
Index		3.9	41.4	>10	<4.0	14.0	36	
Middle		*4.1	41.0	>10	<4.0	14.0	34	
Right Median Anti Sensory (Dgt)								
Thumb		*4.9	9.2	>5	<4.0	14.0	29	
Index		*4.8	13.8	>10	<4.0	14.0	29	
Middle		*5.6	12.2	>10	<4.0	14.0	25	
Left Radial Anti Sensory (1st Web Space)								
Wrist		2.3	30.7	>5	<2.9	10.0	43	
Right Radial Anti Sensory (1st Web Space)								
Wrist		2.7	30.0	>5	<2.9	10.0	37	
Left Ulnar Volar Anti Sensory (Digit)								
5th-Wr		3.5	37.9	>10.0	<3.8	14.0	40	
B Elbow		7.1	15.8			19.0	53	>50
Acr Elb		9.5	12.0			12.0	50	>50
Right Ulnar Volar Anti Sensory (Digit)								
5th-Wr		3.2	16.5	>10.0	<3.8	14.0	44	
B Elbow		6.9	8.4			19.0	51	>50
Acr Elb		9.2	6.8			12.0	52	>50

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Motor Summary Table

Stim Site	NR	Onset (ms)	Norm Onset (ms)	O-P Amp (mV)	Norm O-P Amp	Dist (cm)	Vel (m/s)	Norm Vel (m/s)
Left Median Motor (Abd Poll Brev)								
Palm		1.3	<2.2	5.5		2.0		
Wr.8cm		3.9	<4.3	6.2	>4.0	8.0		
Wr.10cm		4.2		5.1		10.0	34	
Elbow		7.9		4.6		21.0	53	>50
Right Median Motor (Abd Poll Brev)								
Palm		1.3	<2.2	5.7		2.0		
Wr.8cm		*5.8	<4.3	*3.8	>4.0	8.0		
Wr.10cm		6.3		3.7		10.0	20	
Elbow		9.8		3.7		20.0	50	>50
Left Ulnar ADQ2 Motor (ADQ)								
Wrist		2.9	<3.5	10.7	>4.0	8.0		
B Elbow		6.3		9.7		20.5	60	>50
Med epi		6.9		9.8		3.0	50	>50
A Elbow		8.4		9.5		7.0	*47	>50
Right Ulnar ADQ2 Motor (ADQ)								
Wrist		3.1	<3.5	8.9	>4.0	8.0		
B Elbow		6.7		9.3		21.0	58	>50
Med epi		7.4		9.3		3.0	*43	>50
A Elbow		8.6		9.1		7.0	58	>50
Left Ulnar FDI Motor (FDI)								
Wrist		3.4	<5.1	10.7	>4.0	0.0		
B Elbow		6.9		10.5	>4.0	19.0	54	>50
Acr Elbo		9.5		10.7	>4.0	12.0	*46	>50
Right Ulnar FDI Motor (FDI)								
Wrist		4.0	<5.1	13.8	>4.0	0.0		
B Elbow		7.5		12.9	>4.0	19.0	54	>50
Acr Elbo		9.6		12.5	>4.0	12.0	57	>50

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)				
	27.51	<32	*2.50	<2.0
Right Median (Mrkrs) (Abd Poll Brev)				
	30.01	<32	*2.50	<2.0
Left Ulnar (Mrkrs) (Abd Dig Min)				
	28.33	<32	0.00	<2.0
Right Ulnar (Mrkrs) (Abd Dig Min)				
	28.33	<32	0.00	<2.0

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EMG

Side	Muscle	Nerve	Root	Ins Act	Fibs	Psw	Amp	Dur	Poly	Recrt	Int Pat	Comment
Left	Deltoid	Axillary	C5-6	Nml	Nml	Nml	Nml	Nml	0	Nml	Nml	.
Left	Triceps	Radial	C6-7-8	Nml	Nml	Nml	Nml	Nml	0	Nml	Nml	.
Left	Biceps	Musculocut	C5-6	Nml	Nml	Nml	Nml	Nml	0	Nml	Nml	.
Left	PronatorTeres	Median	C6-7	Nml	Nml	Nml	Nml	Nml	0	Nml	Nml	.
Left	FlexCarRad	Median	C6-7	Nml	Nml	Nml	Nml	Nml	0	Nml	Nml	.
Left	BrachioRad	Radial	C5-6	Nml	Nml	Nml	Nml	Nml	0	Nml	Nml	.
Left	FlexPolLong	Median (Ant Int)	C7-8	Nml	Nml	Nml	Nml	Nml	0	Nml	Nml	.
Left	Abd Dig Min	Ulnar	C8-T1	Nml	Nml	Nml	Nml	Nml	0	Nml	Nml	.
Left	1stDorInt	Ulnar	C8-T1	Nml	Nml	Nml	Nml	Nml	0	Nml	Nml	.
Left	Abd Poll Brev	Median	C8-T1	Nml	Nml	Nml	Nml	Nml	0	Nml	Nml	.
Right	Deltoid	Axillary	C5-6	Nml	Nml	Nml	Nml	Nml	0	Nml	Nml	.
Right	Triceps	Radial	C6-7-8	Nml	Nml	Nml	Nml	Nml	0	Nml	Nml	.
Right	Biceps	Musculocut	C5-6	Nml	Nml	Nml	Nml	Nml	0	Nml	Nml	.
Right	PronatorTeres	Median	C6-7	Nml	Nml	Nml	Nml	Nml	0	Nml	Nml	.
Right	FlexCarRad	Median	C6-7	Nml	Nml	Nml	Nml	Nml	0	Nml	Nml	.
Right	BrachioRad	Radial	C5-6	Nml	Nml	Nml	Nml	Nml	0	Nml	Nml	.
Right	FlexPolLong	Median (Ant Int)	C7-8	Nml	Nml	Nml	Nml	Nml	0	Nml	Nml	.
Right	Abd Dig Min	Ulnar	C8-T1	Nml	Nml	Nml	Nml	Nml	0	Nml	Nml	.
Right	1stDorInt	Ulnar	C8-T1	Nml	Nml	Nml	Nml	Nml	0	Nml	Nml	.
Right	Abd Poll Brev	Median	C8-T1	Nml	Nml	Nml	*Incr	Nml	0	Nml	*50%	.

NCV FINDINGS:

1. The right median motor nerve prolonged distal latency (Wr.8cm, 5.8 ms) and reduced amplitude (Wr.8cm, 3.8 mV).
2. The left Ulnar ADQ2 motor nerve decreased conduction velocity (A Elbow-Med epi, 47 m/s).
3. The right Ulnar ADQ2 motor nerve decreased conduction velocity (Med epi-B Elbow, 43 m/s).
4. The left Ulnar FDI motor nerve decreased conduction velocity (Acr Elbo-B Elbow, 46 m/s).
5. The left median sensory nerve prolonged distal peak latency (Middle, 4.1 ms).
6. The right median sensory nerve prolonged distal peak latency (Thumb, 4.9 ms), prolonged distal peak latency (Index, 4.8 ms), and prolonged distal peak latency (Middle, 5.6 ms).

EMG FINDINGS:

1. Needle evaluation of the right abductor pollicis brevis - increased Amplitude and decreased interference pattern.
2. All remaining muscles (as indicated in the preceding table) showed no evidence of electrical instability.

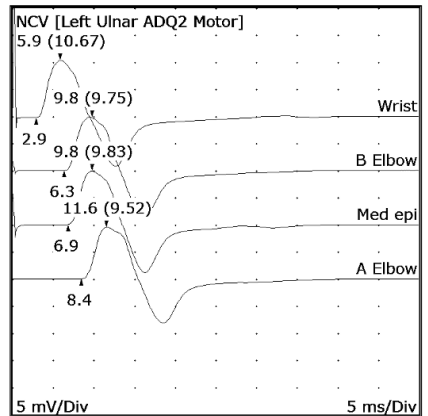
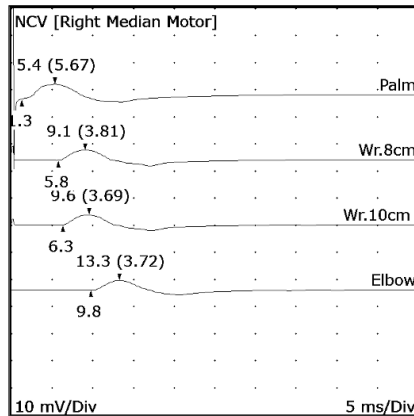
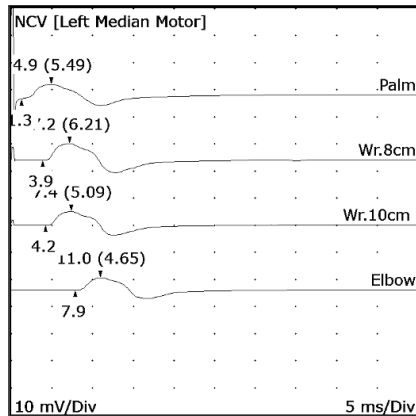
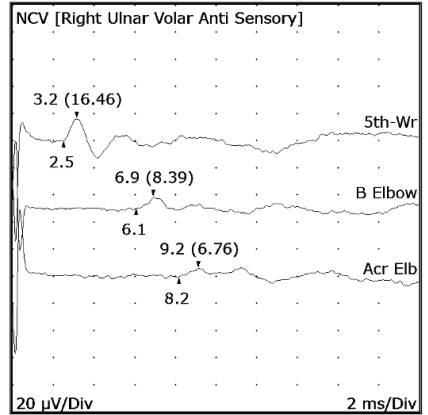
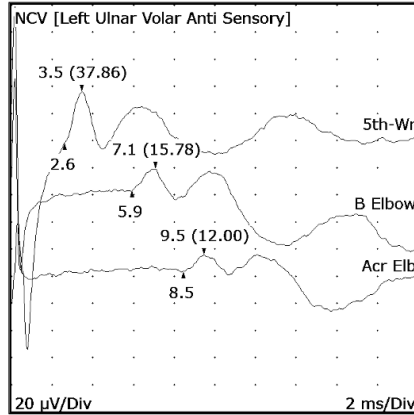
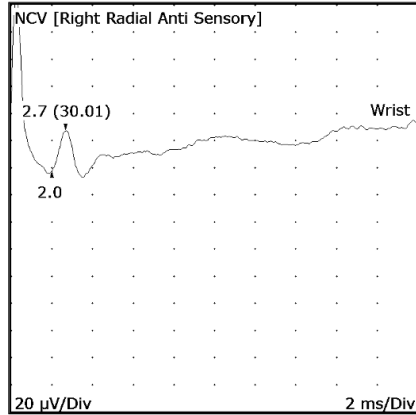
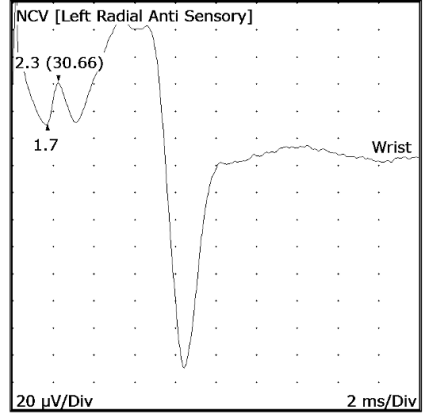
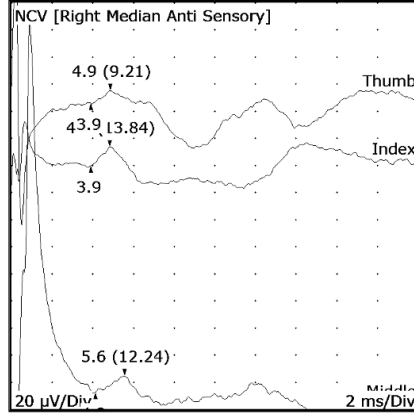
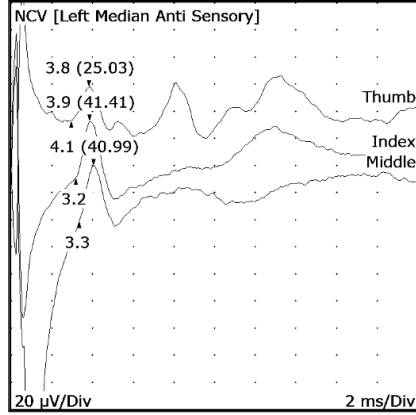
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Waveforms:



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