



The Toronto General Hospital
Electromyography Report
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Name:

Invest. Date: Mrch-09-15

Clinical History:

Referred with a diagnosis of CIDP.

Summary:

Motor and sensory studies of median nerve are normal. Motor studies of left peroneal and tibial nerves show low CMAP, prolonged distal latencies, and slow conduction velocity. Since a study of left sural nerve shows slow conduction velocity.

F waves of left median nerve are normal but prolonged and left peroneal and tibial nerves.

Vibration perception thresholds are prolonged in the lower limbs.

Needle EMG examination show evidence of denervation potentials in left tibialis anterior and gastrocnemius muscles, normal and vastus lateralis.

Interpretation:

The nerve conduction study and needle examination show evidence of demyelinating polyneuropathy affecting the lower limbs.



Nerve Conduction Studies

Anti Sensory Summary Table

Site	NR	Onset (ms)	Peak (ms)	O-P Amp (μV)	P-T Amp (μV)	Full Dur (ms)	Full Area (μV·ms)	Site1	Site2	Dist (cm)	Vel (m/s)
Left Sural Anti Sensory (Lat Mall)											
Calf		3.6	4.0	3.1	5.1	6.94	75.41	Calf	Lat Mall	14.0	39

Ortho Sensory Summary Table

Site	NR	Onset (ms)	Peak (ms)	O-P Amp (μV)	P-T Amp (μV)	Full Dur (ms)	Full Area (μV·ms)	Site1	Site2	Dist (cm)	Vel (m/s)
Left Median Ortho Sensory (Wrist)											
Palm		1.6	2.2	43.6	61.0	2.03	32.91	Palm	Wrist	8.5	53

Motor Summary Table

Site	NR	Onset (ms)	O-P Amp (mV)	P-T Amp (mV)	Full Dur (ms)	Full Area (mV·ms)	Site1	Site2	Dist (cm)	Vel (m/s)
Left Median Motor (Abd Poll Brev)										
Wrist		3.4	9.3	14.3	29.92	66.28	Elbow	Wrist	25.0	52
Elbow		8.2	8.7	13.8	23.44	63.45	Axilla	Elbow	11.0	55
Axilla		10.2	8.0	13.6	20.78	56.41				
Left Peroneal Motor (Ext Dig Brev)										
Ankle		5.7	2.0	3.1	15.16	9.22	B Fib	Ankle	30.5	38
B Fib		13.7	1.7	2.5	14.06	7.42	Poplt	B Fib	10.0	36
Poplt		16.5	1.6	2.4	9.53	5.93				
Left Tibial Motor (Abd Hall Brev)										
Ankle		4.7	4.5	6.7	19.22	23.42	Knee	Ankle	41.0	38
Knee		15.4	3.3	4.8	16.72	21.05				

F Wave Studies

NR	F-Lat (ms)	L-R F-Lat (ms)	L-R Lat Norm
Left Median (Mrkrs) (Abd Poll Brev)			
	30.60		<2.2
Left Peroneal (Mrkrs) (EDB)			
	57.31		<5.1
Left Tibial (Mrkrs) (Abd Hallucis)			
	58.48		<5.7

EMG

Side	Muscle	Nerve	Root	P	A	IA	Fib	Fas	Amp	Dur	Phases	Stability	Rec
Left	AntTibialis	Dp Br Peron	L4-5	5	0	N	1+	1+	Occ I	Occ I	N	N	Dec
Left	Gastroc	Tibial	S1-2	5	0	N	0	0	N	Occ I	N	N	Dec
Left	VastusLat	Femoral	L2-4	5	0	N	0	0	N	N	N	N	N

Vibration Perception Thresholds

Index Finger		First Toe		Fifth Finger	
Right	Left	Right	Left	Right	Left
4.5	4.5	21.5	18.5		
5.0	4.5	24.0	21.0		
4.5	4.0	22.5	21.5		
Mean Values		Mean Values			
4.7	4.3	22.7	20.3		