
Patient: XXXXX (F) **DOB:** XX/XX/XXXX **Physician:** Dr. XXXX, MD

Diagnosis: M54.5, M54.16

Complaint: Medical chart reviewed, and brief clarifying examination reveals September 2020 worsening bilateral thigh pain and pain that goes into the R lateral foot. She has had 2 epidurals the past several months with no change. Walks with straight cane. Reports no recent falls but feels like B legs want to "give way". States had EMG in 2011 was "positive" but does not recall what it reported other than that. Denies any back surgery. State she has auto immune problems "low immune system". Denies: DM, heart, lung, thyroid, CA, or exposure to hazardous chemicals. MMT: L2-S2 5/5 except B hip flexion 4/5 and B quad 4/5. MSR: PT and AT = B. Special Testing: Slump neg B. Clonus and Babinski neg B. Hands and feet maintained at 31C and 29C respectively.

ELECTRONEUROMYOGRAPHIC SUMMARY

Nerve Conduction:

- The B tibial motor are WNL.
- The B sural are WNL.
- The B tibial H-Reflexes are WNL.

Electromyography:

- The L med gastroc, ant tib, TFL, and L5/S1 paraspinals demonstrate muscle membrane instability.
- All other muscles sampled, including all 3 heads of the L quad, are WNL in insertional, resting, muscle unit morphology, and recruitment activities.



Impression: (Abnormal Study)

1. The evidence suggests active / ongoing L L5/S1 radiculopathy.
2. There is not sufficient evidence to suggest any focal mononeuropathy, lumbosacral plexopathy, generalized polyneuropathy, or myopathy.

Thank you for the referral.



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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 Saphenous Anti Sensory (Anterior Medial Mall)											
Med Tibia	NR										
Right Saphenous Anti Sensory (Anterior Medial Mall)											
Med Tibia	NR										
Left Sural Anti Sensory (Lat Mall)											
Calf		3.6	<4.2	13.2	>5.0	Calf	Lat Mall	3.6	12.0	33	
Right Sural Anti Sensory (Lat Mall)											
Calf		3.6	<4.2	7.8	>5.0	Calf	Lat Mall	3.6	12.0	33	

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 Tibial Motor (Abd Hall Brev)												
Ankle 8cm		5.5	<6.1	5.5	>2.8	6.25	Knee	Ankle 8cm	7.3	34.0	47	>38
Knee		12.8		5.4		7.97						
Right Tibial Motor (Abd Hall Brev)												
Ankle 8cm		4.5	<6.1	8.1	>2.8	7.97	Knee	Ankle 8cm	7.8	34.0	44	>38
Knee		12.3		6.5		9.06						

H Reflex Studies

NR	H-Lat (ms)	Lat Norm (ms)	L-R H-Lat (ms)	L-R Lat Norm
Left Tibial (Gastroc)				
	32.16	<36	0.65	2.0
Right Tibial (Gastroc)				
	31.51	<36	0.65	2.0

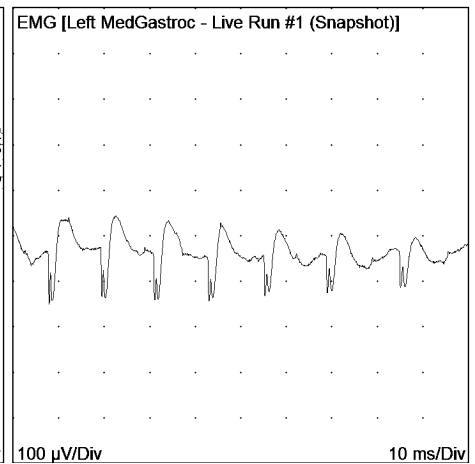
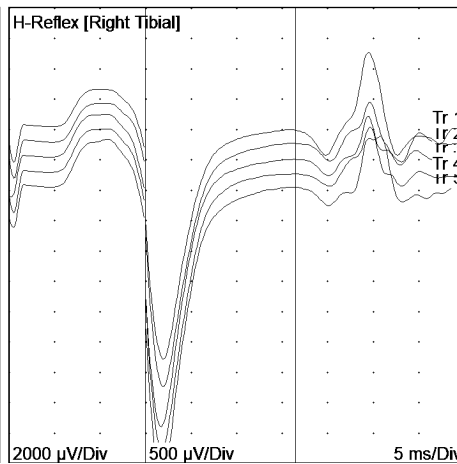
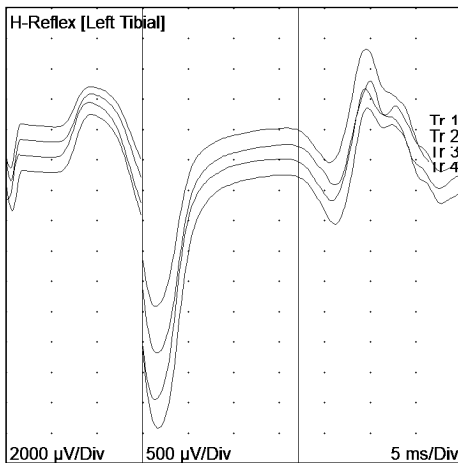
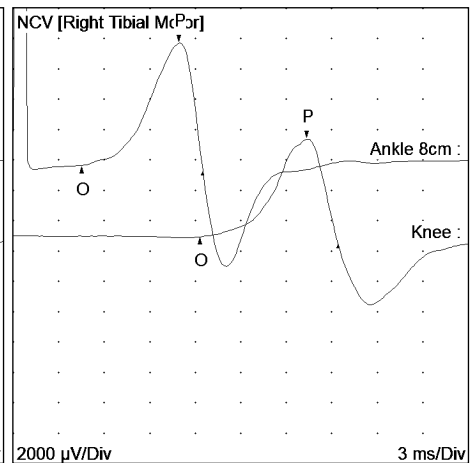
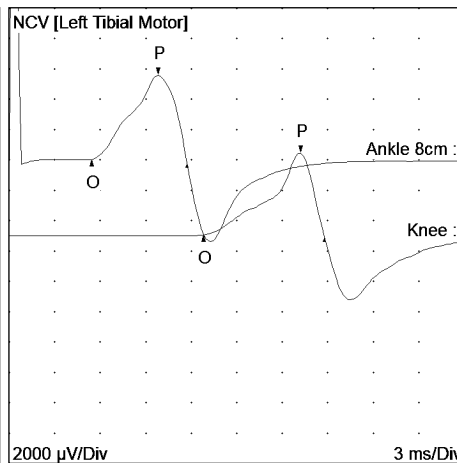
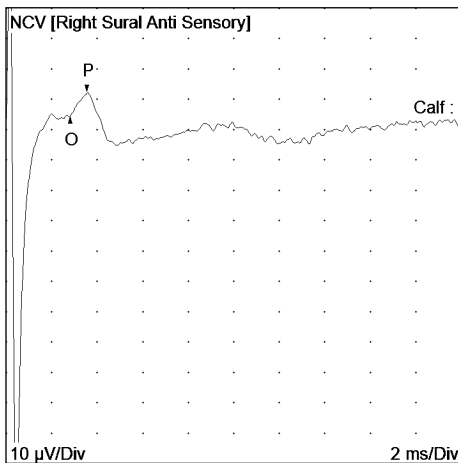
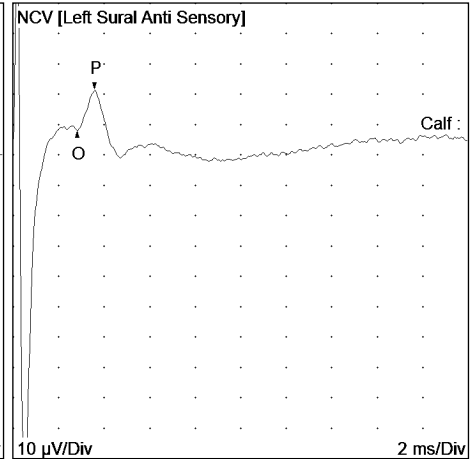
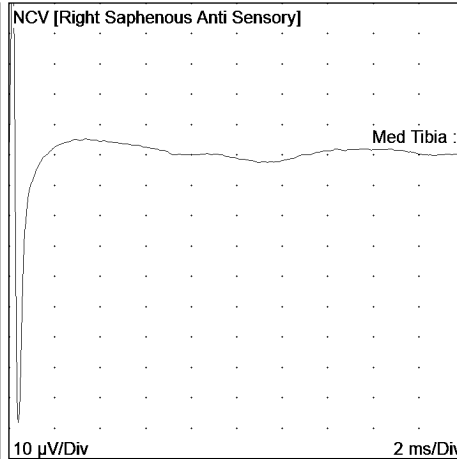
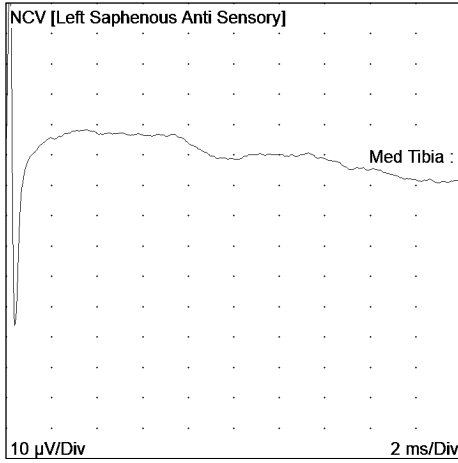
EMG

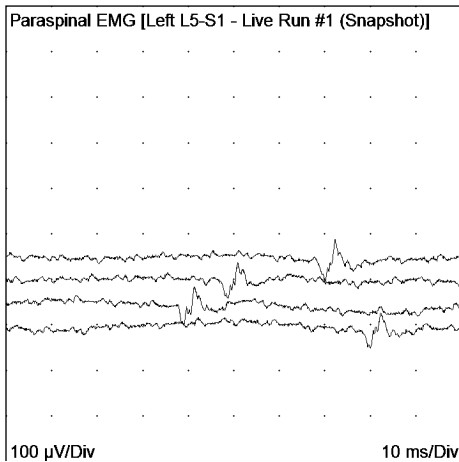
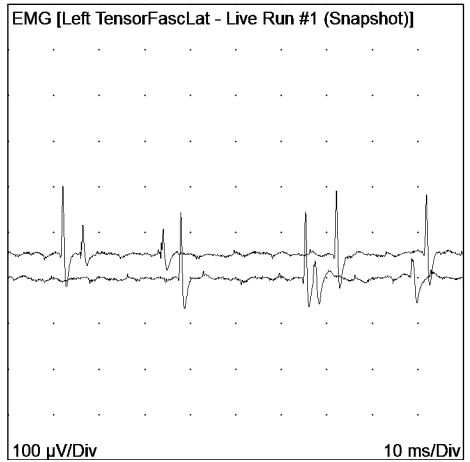
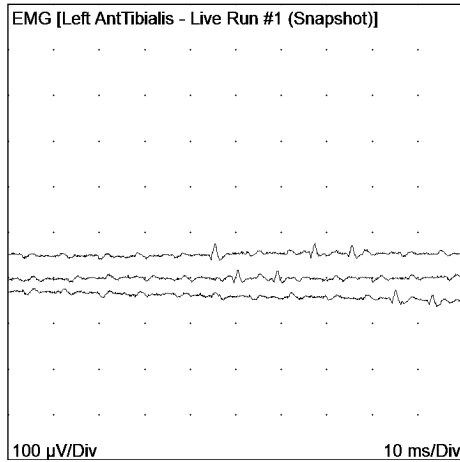
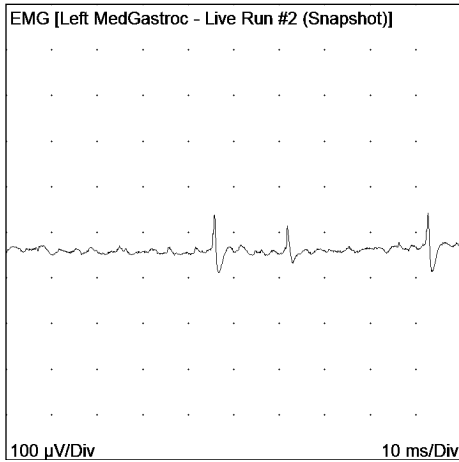
Side	Muscle	Nerve	Root	Ins Act	Fibs	Psw	Other	Amp	Dur	Poly	Recrt	Int Pat	Comment
Left	MedGastroc	Tibial	S1-2	Incr	Nml	2+	Nml	Nml	Nml	0	Nml	Nml	
Left	AntTibialis	Dp Br Peron	L4-5	Incr	Nml	2+	Nml	Nml	Nml	0	Nml	Nml	
Left	Peroneus Long	Sup Br Peron	L5-S1	Nml	Nml	Nml	Nml	Nml	Nml	0	Nml	Nml	
Left	VastusMed	Femoral	L2-4	Nml	Nml	Nml	Nml	Nml	Nml	0	Nml	Nml	
Left	RectFemoris	Femoral	L2-4	Nml	Nml	Nml	Nml	Nml	Nml	0	Nml	Nml	
Left	GluteusMed	SupGluteal	L4-S1	Nml	Nml	Nml	Nml	Nml	Nml	0	Nml	Nml	
Left	TensorFascLat	SupGluteal	L4-5, S1	Incr	2+	2+	Nml	Nml	Nml	0	Nml	Nml	
Right	MedGastroc	Tibial	S1-2	Nml	Nml	Nml	Nml	Nml	Nml	0	Nml	Nml	
Right	AntTibialis	Dp Br Peron	L4-5	Nml	Nml	Nml	Nml	Nml	Nml	0	Nml	Nml	
Right	VastusMed	Femoral	L2-4	Nml	Nml	Nml	Nml	Nml	Nml	0	Nml	Nml	
Left	VastusLat	Femoral	L2-4	Nml	Nml	Nml	Nml	Nml	Nml	0	Nml	Nml	

Paraspinal EMG

Side	Muscle	Nerve	Root	Ins Act	Fibs	Psw	Other	Amp	Dur	Poly	Recrt	Int Pat	Comment
Left	L3-4	DPR	L3-4	Nml	Nml	Nml	Nml	NT'd	NT'd	NT'd	NT'd	NT'd	
Left	L4-5	DPR	L4-5	Nml	Nml	Nml	Nml	NT'd	NT'd	NT'd	NT'd	NT'd	
Left	L5-S1	DPR	L5-S1	Incr	2+	Nml	Nml	NT'd	NT'd	NT'd	NT'd	NT'd	
Right	L4-5	DPR	L4-5	Nml	Nml	Nml	Nml	NT'd	NT'd	NT'd	NT'd	NT'd	
Right	L5-S1	DPR	L5-S1	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		EMG Complete (5 or more muscles) each extremity; with or w/out paraspinals when performed with NCS			
	Lower	1				
95885	Upper		EMG Limited (<5 muscles) each extremity; with or w/out paraspinals when performed with NCS			
	Lower	1				
95907			Nerve conduction studies 1-2 tests			
95908			Nerve conduction studies 3-4 tests			
95909			Nerve conduction studies 5-6 tests			
95910		1	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			
Common Modifiers used for EMG billing are: XS, 59, LT & RT						