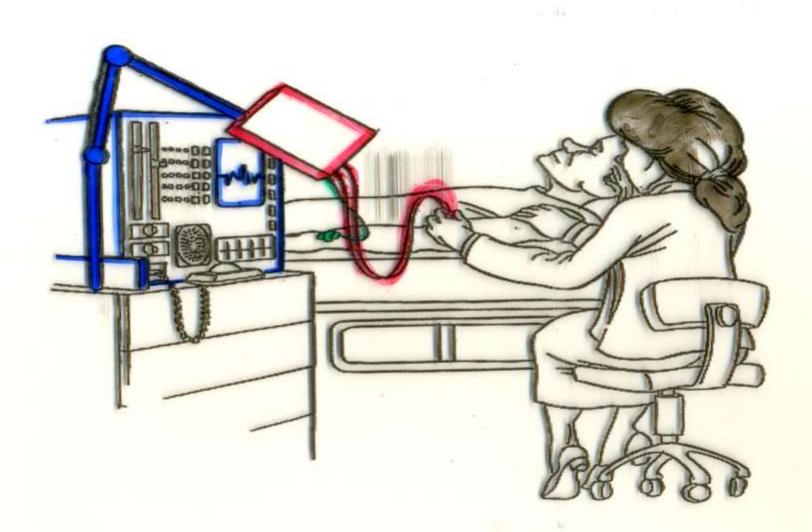
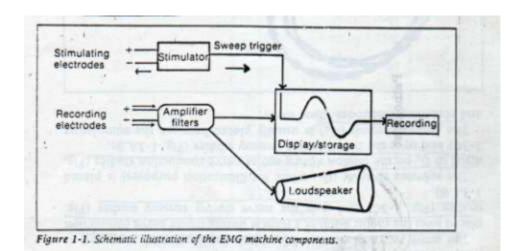
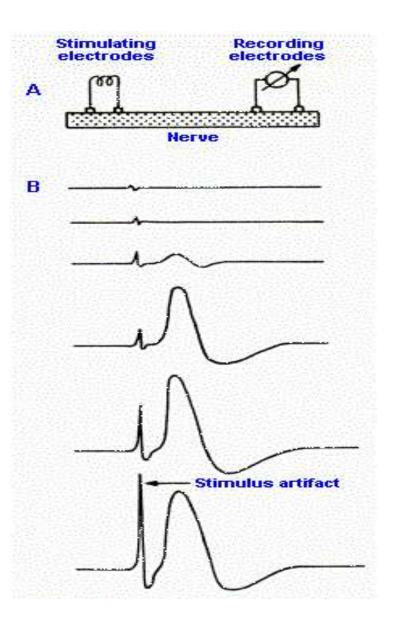
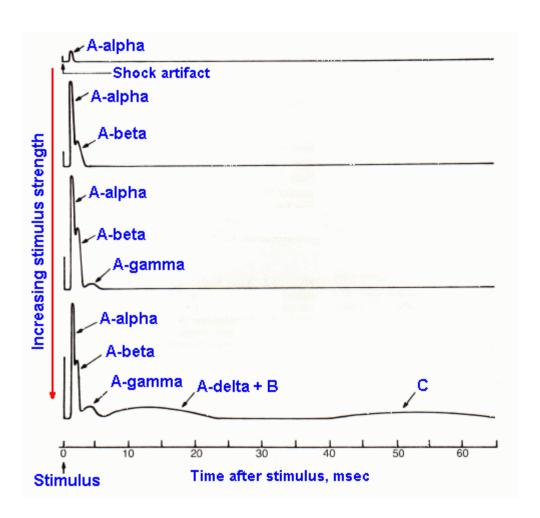
Electrodiagnostic studies









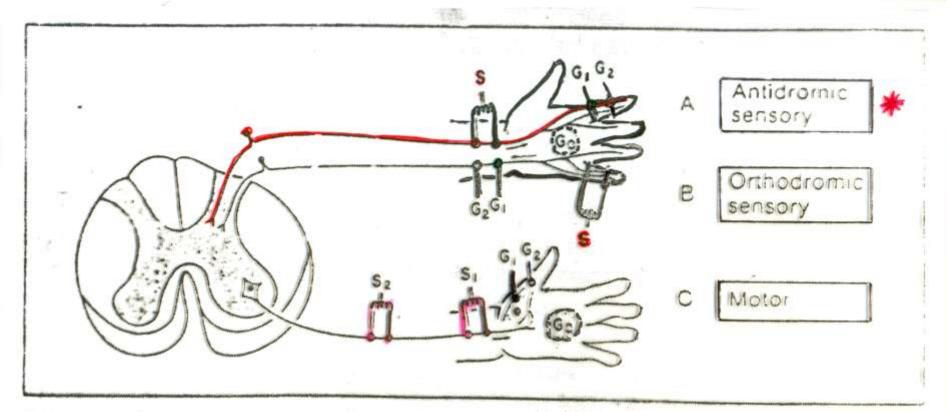


Figure 1-3. Diagrammatic illustration of electrode placement for nerve conduction studies. Antidromic sensory study (A): orthodromic sensory study (B): and motor nerve conduction study (C). ($G_1 = active\ recording\ electrode$: $G_2 = reference\ recording\ electrode$: $G_0 = active\ electrode$: $G_1 = active\ recording\ electrode$: $G_2 = reference\ recording\ electrode$: $G_3 = active\ recording\ electrode$: $G_4 = active\ recording\ electrode$: $G_5 = active\ recording\ electrode$: $G_6 = active\ recording\ electrode$: $G_7 = active\ recording\ electrode$: $G_8 = active\ recording\ electrode$: $G_9 = active\ recording\ electrode$

SNAP: Sensory Nerve Action Potential

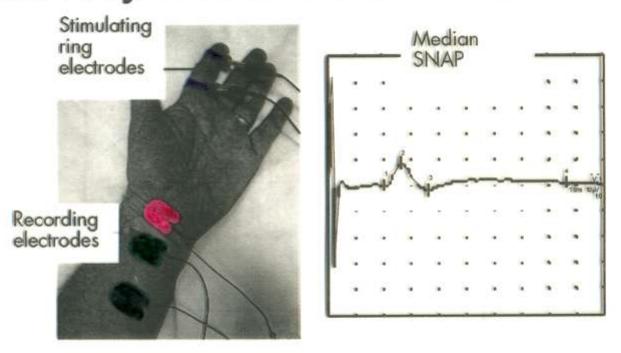
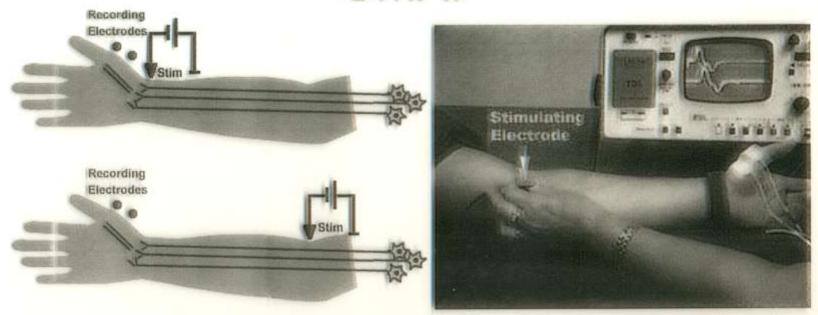


Figure 2 Median orthodromic sensory study. The index finger digital nerves are stimulated via ring electrodes and the response recorded over the median nerve at the wrist.



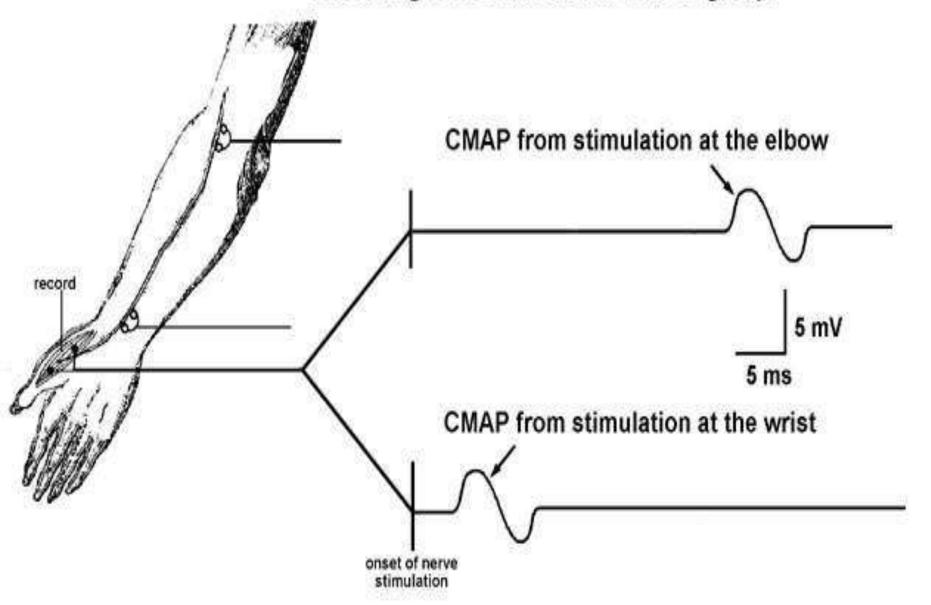
Compound Motor Action Potential: CMAP

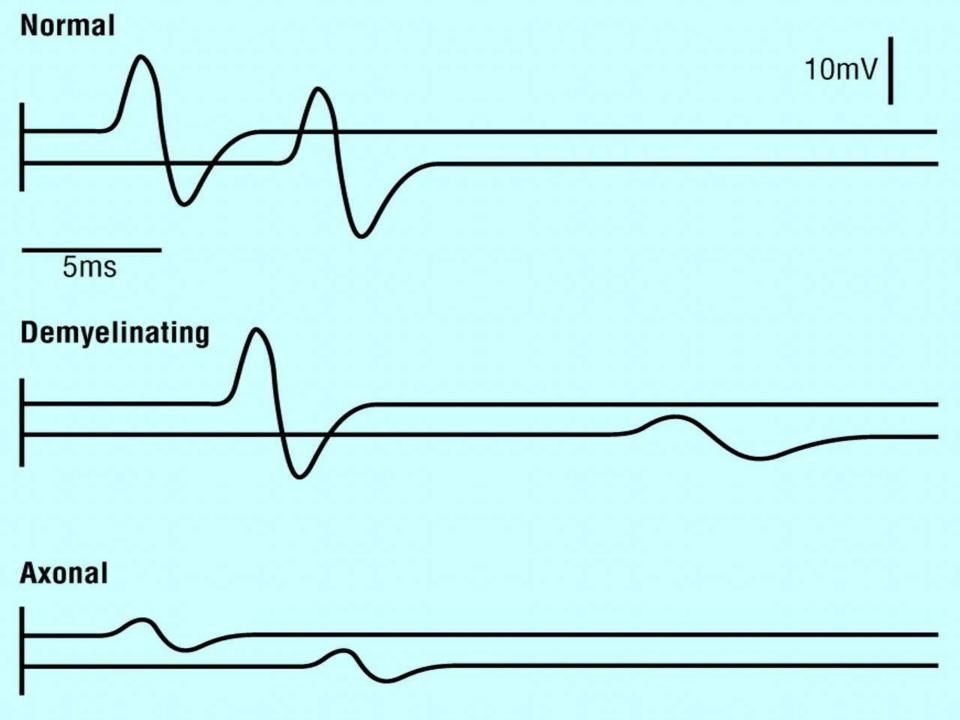


Motor nerve is stimulated and muscle response is calculated. Latency includes synaptic transmission etc. By subtracting the two latencies, the conduction velocity can be calculated.

http://www.mmi.mcgill.ca/Dev/chalk/lect72p2.htm

Median nerve stimulation at the elbow and wrist. Recording is from the thenar muscle group.





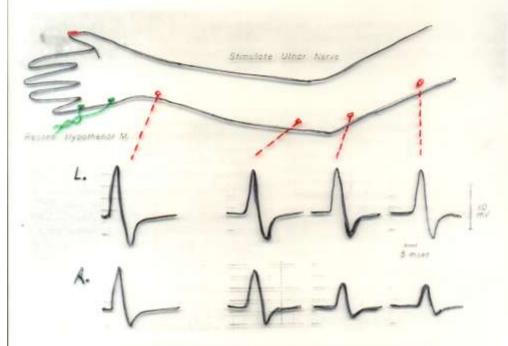


Fig. 12-25. Nerve conduction studies in patient with ulnar neuropathy at the elbow. Normal responses from let arm (L.): abnormal on right (R). There is a localized partial block of conduction (recreased amplitude above the elbow) and localized slowing of conduction velocity at the elbow. (Courtesy of E. H. Lambert, Mayo Clinic.)