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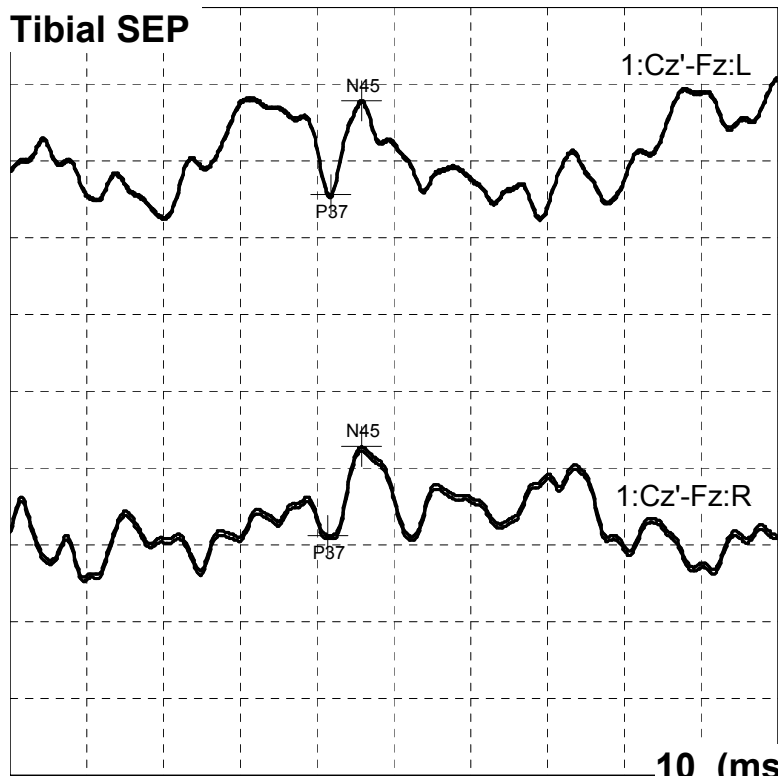
**Patient:** Doe, John  
**DOB:** 11/17/1940  
**Sex:** Male  
**Ref:** Smith, M.D.  
**Site:** # 327

### Somatosensory Evoked Potential of the Tibial Nerve Report

Somatosensory Evoked Potential (SSEP) is a response elicited by stimulating a peripheral nerve and recording the response as it is transmitted along the nerve pathway, including the peripheral nerve, nerve root, spinal cord, brainstem, and the sensory cortex. SSEP is a useful neurodiagnostic test for the evaluation of sensorimotor signs and symptoms. It is the most useful electrodiagnostic test for identifying dysfunction in the spinal cord, brainstem and sensory cortex. SSEP, NCV/EMG and imaging studies provide diagnostic information which complement each other.

Lower extremity SSEP was elicited by stimulating the posterior tibial nerve at the ankle. Simultaneous recordings over the lumbar spine and parietal scalp, were performed. N22 corresponds to the lumbar and lower thoracic spinal potential, and P37 and N45 correspond to the SSEP at the scalp.

**RESULTS:** Standard protocol for SSEP was followed. The evoked waveforms, peak latencies, amplitudes, and interpeak latencies are indicated below.



**Tibial SEP**

| <b>Trial</b> | <b>P37<br/>(ms)</b> | <b>P37-N45<br/>(<math>\mu</math>V)</b> |
|--------------|---------------------|--|
| Norm         | <43.5               |  |
| Avg : R      | 41.41               | 5.72                                   |
| 1 : L        | 41.72               | 2.45                                   |
| L-R Norm     | <1.6                |  |
| L-R          | 0.31                | 3.27                                   |

**IMPRESSION:** Analysis of peak latency, amplitude, and interpeak latency was performed and compared to the normative values. Testing conditions and subject variables were considered. The impression is as follows:

Normal tibial nerve SSEP study.

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Board Certified Neurologist  
Electronically Signed

Date:

Time:

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Tested By:  
Abdel Deraz  
Clinical Neurophysiology  
Active Member ABRET