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| **Supplementary Table 4:** Surgical treatment follow-up measurements of tibial F-waves, M-wave, ODI and MRC in S1 radiculopathy group.  |
|  | **Initial test** | **Follow-up test** |
| **ODI scores** | 43.7 ± 17.0\* | 18.6 ± 7.0\* |
| **MRC scales** | 4.7 ± 0.5 |  4.7 ± 0.5 |
|  | **Involved side** | **Normal side** | **Involved side** | **Normal side** |
| **Tibial M-wave** |
| Onset latency (ms) | 4.1 ± 0.4 | 4.1 ± 0.4 | 4.1 ± 0.4 | 4.1 ± 0.4 |
| Amplitude (mV) | 13.8 ± 4.8 | 14.4 ± 5.1 | 13.8 ± 4.7 | 14.5 ± 5.0 |
| **Tibial F-wave** |
| Minimal latency (ms/m) | 27.7 ± 2.7 | 26.4 ± 1.4 | 27.4 ± 2.7 | 26.5 ± 1.5 |
| Chronodispersion (ms) | 4.5 ± 1.8 | 3.5 ± 1.3 | 4.5 ± 1.8 | 3.5 ± 1.1 |
| Persistence (%) | 96.1 ± 7.1 | 100.0 ± 0.0 | 94.3 ± 8.1 | 97.9 ± 3.8 |
| Mean duration (ms) | 14.4 ± 3.3 | 12.0 ± 2.3 | 14.3 ± 3.2 | 12.0 ± 2.3 |
| F/M ratio | 3.63 ± 2.00 | 2.57 ± 1.35 | 3.68 ± 2.21 | 2.61 ± 1.32 |
| Repeater F-wave (%) | 15 | 10 | 15 | / |
| Cases with repeater waves | 1 | 1 | 1 | / |
|  | **Side-to-side difference** |
| **Tibial M-wave** |
| Onset latency (ms) | 0.4 ± 0.3 | 0.5 ± 0.4 |
| Amplitude (mV) | 1.2 ± 1.0 | 1.3 ± 1.1 |
| **Tibial F-wave** |
| Minimal latency (ms/m) | 2.3 ± 1.9 | 1.9 ± 1.7 |
| Chronodispersion (ms) | 1.3 ± 1.5 | 1.3 ± 1.4 |
| Persistence (%) | 3.9 ± 7.1 | 5.7 ± 7.8 |
| Mean duration (ms) | 2.9 ± 1.5 | 2.8 ± 1.4 |
| F/M ratio | 1.47 ± 1.80 | 1.62 ± 2.02 |
|  |  |  |
| **Needle EMG** |
| Spontaneous activity | 5/14 | / | 0/14 | / |
| Changes in MUAPs | 2/14 | / | 13/14 | / |
| Both  | 7/14 | / | 1/14 | / |
| **MRC:** Medical Research Council; **ODI:** Oswestry Disability Index; **EMG:** Electromyography; **MUAP:** Motor unit action potential**a/b:** a is the number of patients who had abnormal needle EMG and B is the number of patients underwent needle EMG evaluation. **Both:** the patients had both spontaneous activity and changes in MUAP in the muscles that were innervated by the involved S1 root. **/:** no repeater F-wave or abnormal needle EMG**\*:** P-values less than 0.05 between the initial and follow-up tests.  |