

SUMMARY

170 patients suspected of lumbar disc syndrome had been studied by electromyographic examinations in order to localize the level of nerve root involvement and to detect the degree of severity. The EMG findings were evaluated against the myelographic and surgical findings.

EMG showed the evidence of nerve root involvement in 153 cases out of 170 cases or 90 %. The levels of nerve root lesion were L₂& L₃ nerve root : 0.7 %, L₄ nerve root : 0.7 %, L₅ nerve root: 37.9 %, S₁ nerve root : 22.8 % and L₅& S₁ nerve roots : 37.9 %. The degree of severity was found to be mild in 43.1 %, moderate in 50.3 % and severe in 6.6 %. In addition, other tests were also carried out and the results were as follows.

- 1) Straight leg raising test was positive in 54.5 %
- 2) Weakness of muscle power was found in 60.8 %
- 3) Sensory impairment was detected in 45.8 %

In this series, 22 cases were treated by surgical procedure.

Leaving off one doubtful case, the surgical findings in 21 cases confirmed the EMG findings. So the accuracy of EMG finding was 100 % whereas myelographic accuracy was only 66.7 %

In spite of the fact that EMG examination was done only in a few muscles not the entire myotome, the nerve root lesion could be localized with a high degree of accuracy. The EMG investigation was therefore dependable.

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