

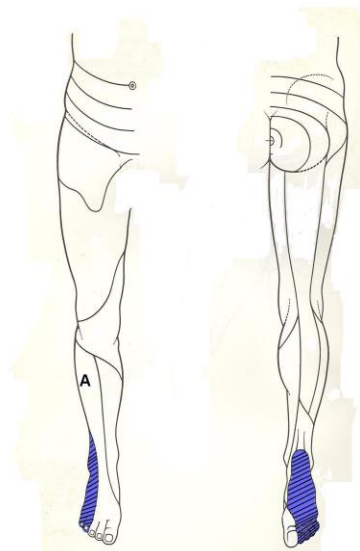
## **Learning Objective**

By the end of session the student should be able to

- Know the motor and sensory distribution of lumbar nerve roots.
- Recognize the features that occur due to disease of a certain nerve root.
- Correlate the motor and sensory impairment to identify the level of nerve root involved.

## **CASE SCENARIO**

A 35 old laborer has complaint of backache which radiates to the left leg for 3 month and numbness with weakness of his left leg for 1 month. On examination he has wasting of his left calf, diminished sensation in the leg and foot and weakness of flexion of ankle (plantar flexion of foot). His ankle jerk is absent and the area of sensory impairment is as depicted below in the picture.



## **QUESTIONS**

1. How are these findings explained?
2. What are the features if a nerve root above this particular segment is affected?
3. Can this motor and sensory loss be due to involvement of whole of Sciatic nerve ?
4. Can Femoral Nerve involvement explain this neurological loss?
5. Does involvement of Common Peroneal nerve produce this picture?
6. If there was sensory loss in area A which structure could have been involved?
7. What is this pattern of sensory loss known as?