**Clinical Image**

# Exclusive Image Gallery on Human Spinal Cord Regeneration

## Giselher Schalow*

MD, PhD, Untere Kirchmatte 6, CH-6207 Nottwil, Switzerland

*****Corresponding author:** Giselher Schalow, Professor, Untere Kirchmatte 6, CH-6207 Nottwil, Switzerland, E-mail: g_schalow@hotmail.com
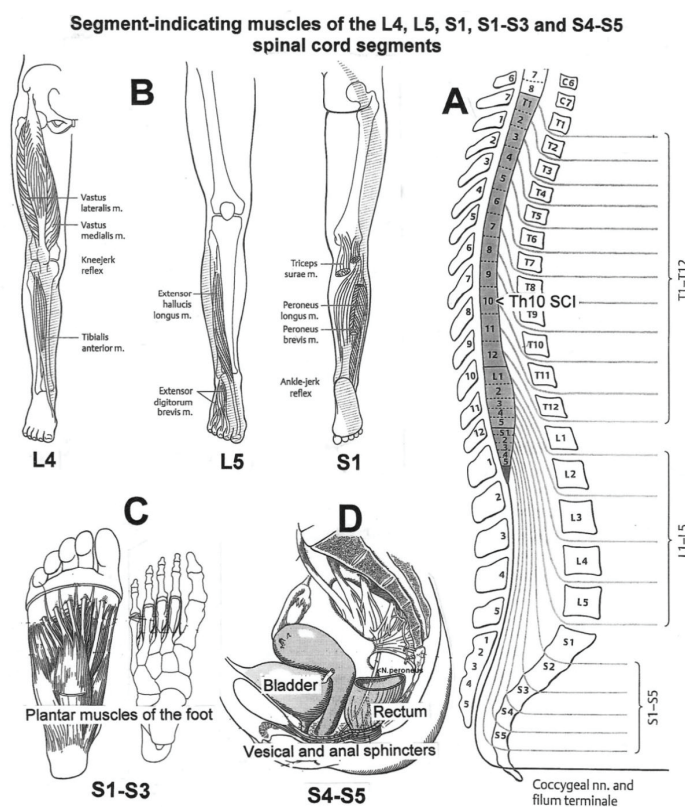
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**Figure 37:** Segment-indicating muscles of the L4, L5, S1, S2/S3 and S4/S5 spinal cord segments for measuring the level of spinal cord regeneration. A. Relation between spinal cord and vertebra segments. B. The spinal cord segment L4 indicating muscle is for example the quadriceps. The extensor halluces longus is characteristic for the L5 segment. C. The plantar muscles of the foot represent S1 to S3 spinal cord segments. D. The vesical and anal sphincters are activated from the S4/S5 spinal cord segments. The skeletal muscles of the leg are innervated by α1, α2 and α3-motoneurons, but the external bladder and anal sphincters are innervated only by α2-motoneurons.