

The Hyperreflexia

The Pathophysiology of the Extended Hyperreflex

[For more details concerning the Pathophysiology of the Extended Hyperreflex,](#)
[see the linked video:](#) 

Thanks to the data processing in the brain, each spinal reflex has its own predesignated trigger points. Actually, these trigger points are the only keys to launch the reflex circuit.

In the upper motor neuron injuries, and because of the brain absence, the interneurons start activating the ancient deserted neural connections and/or creating new neural connections. Therefore, the hyperreflex recruits new trigger points for its pathological circuit. In such way, the hyperreflex extends its sector of work; **figure (1)**.

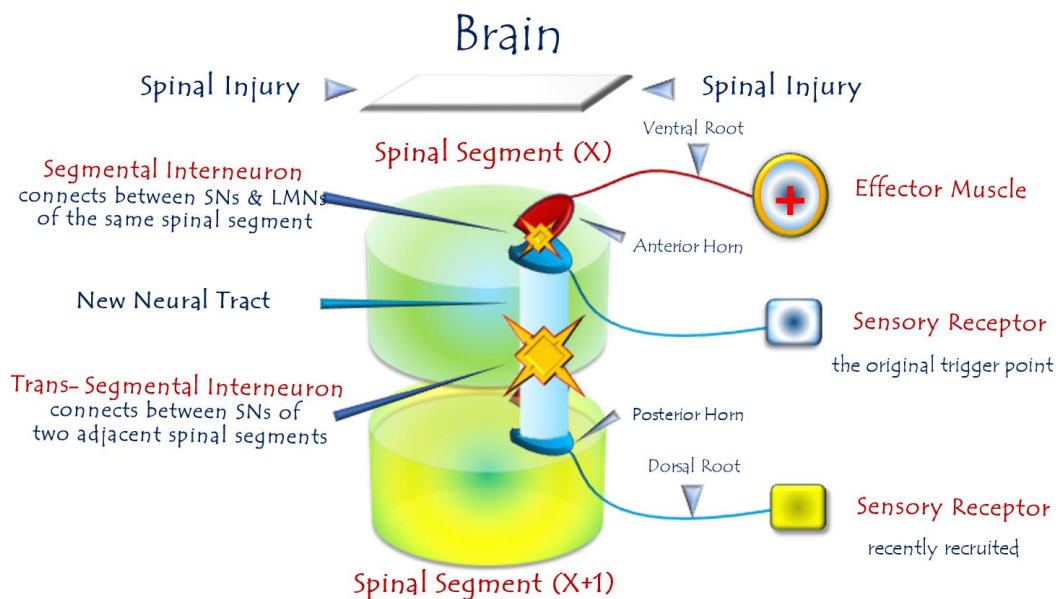



Figure (1)
The Pathophysiology of Extended Hyperreflexia

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Upon their efforts to discharge their burdens of raw data, the SNs arrive to communicate with the other SNs of the adjacent spinal segments, as well as with the LMNs of the same spinal segment.

Therefore, the SNs of many spinal segments work together to serve one spinal hyperreflex circuit. Consequently, in addition to the muscle's tendon, the stimulation of the muscle body itself and/or the cutaneous coverage can provoke the contraction of the effector muscle.

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