

The Hyperreflexia

The Pathophysiology of Multi- Motor- Response Hyperreflex

For more details concerning the Pathophysiology of the Multi- Motor- Response Hyperreflex, see the linked video: 

Thanks to data processing in the brain, every spinal reflex has its own independent predesignated circuit. So, the concept of “One Reaction for One Action” rests valid.

However, in upper neuron injuries, and because of the brain absence, the interneurons start activating the old unused (abandoned) neural roads and/or creating new neural connections. In such way, many reflex circuits would be interlinked. So that, one stimulus can activate all of them simultaneously; **figure (1)**.

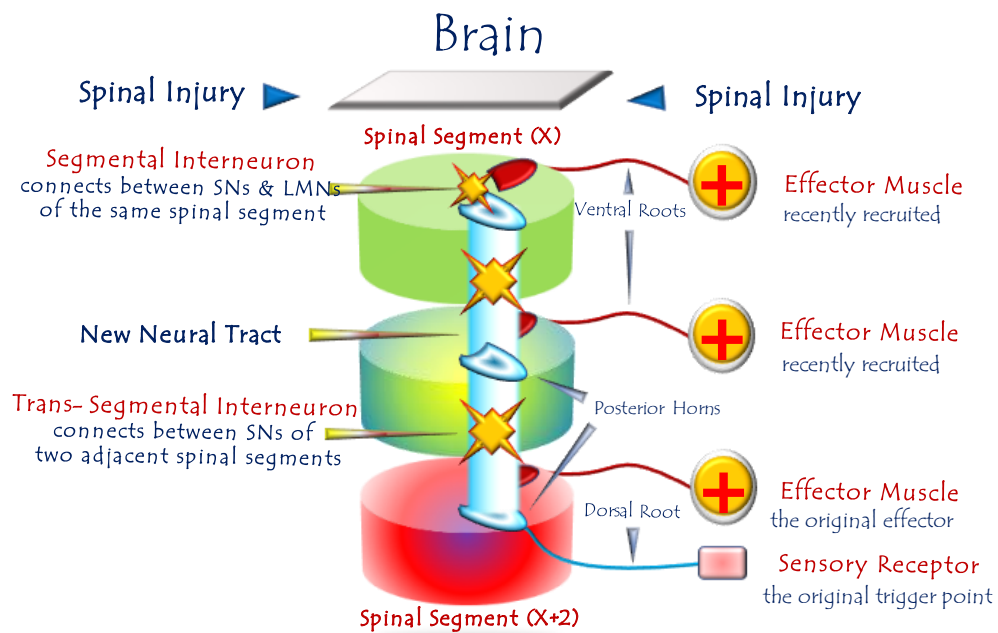



























Figure (1)
The Pathophysiology of Multi- Motor- Response Hyperreflexia
























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*In the upper motor injury,
the SNs of one segment arrive to communicate with many LMNs of the adjacent spinal
segments. Thus, the SNs of a specific spinal segment (X+ II) could supply the LMNs of the
adjacent segments (X) & (X+I). Therefore, as an example, the stimulation of the right patellar
tendon could simultaneously provoke the extension of the right knee,
the flexion of the right hip joint as well.*

One can also read:

-  [*Neural Conduction, Personal View vs. International View \(Innovated\)*](#)
-  [*Upper Motor Neuron Lesions, Pathophysiology of Symptomatology*](#)
-  [*Neural Conduction, Action Pressure Waves \(Innovated\)*](#)
-  [*Neural Conduction, Action Potentials \(Innovated\)*](#)
-  [*Neural Conduction, Action Electrical Currents \(Innovated\)*](#)
-  [*The Function of Action Potentials \(Innovated\)*](#)
-  [*The Three Phases of Neural Conduction \(Innovated\)*](#)
-  [*Neural Conduction in the Synapse \(Innovated\)*](#)
-  [*Sensory Receptors*](#)
-  [*Nodes of Ranvier, the Equalizers \(Innovated\)*](#)
-  [*Nodes of Ranvier, the Functions \(Innovated\)*](#)
-  [*Nodes of Ranvier, First Function \(Innovated\)*](#)
-  [*Nodes of Ranvier, Second Function \(Innovated\)*](#)
-  [*Nodes of Ranvier, Third Function \(Innovated\)*](#)
-  [*Node of Ranvier The Anatomy*](#)
-  [*The Philosophy of Pain, Pain Comes First! \(Innovated\)*](#)
-  [*The Philosophy of the Form \(Innovated\)*](#)
-  [*Spinal Injury, Pathophysiology of Spinal Shock, Pathophysiology of Hyperreflexia*](#)

-  [*Who Decides the Sex of Coming Baby?*](#)
-  [*Spinal Shock \(Innovated\)*](#)
-  [*The Clonus \(Innovated\)*](#)
-  [*Hyperactivity Hyperreflexia \(Innovated\)*](#)
-  [*Hyperreflexia, Extended Sector of Reflex*](#)
-  [*Hyperreflexia, Bilateral Responses*](#)
-  [*Hyperreflexia, Multiple Responses*](#)
-  [*Nerve Conduction Study, Wrong Hypothesis is the Origin of the Misinterpretation \(Innovated\)*](#)
-  [*Wallerian Degeneration \(Innovated\)*](#)
-  [*Neural Regeneration \(Innovated\)*](#)
-  [*Wallerian Degeneration Attacks Motor Axons, While Avoids Sensory Axons*](#)
-  [*Barr Body, the Whole Story \(Innovated\)*](#)
-  [*Boy or Girl, Mother Decides!*](#)
-  [*Adam's Rib and Adam's Apple, Two Faces of one Sin*](#)
-  [*The Black Hole is a \(the\) Falling Star?*](#)
-  [*Adam's Rib, could be the Original Sin?*](#)
-  [*Pronator Teres Syndrome, Struthers Like Ligament \(Innovated\)*](#)
-  [*Function of Standard Action Potentials & Currents*](#)
-  [*Posterior Interosseous Nerve Syndrome*](#)
-  [*Spinal Reflex, New Hypothesis of Physiology*](#)
-  [*Hyperreflexia, Innovated Pathophysiology*](#)
-  [*Clonus, 1st Hypothesis of Pathophysiology*](#)
-  [*Clonus, 2nd Hypothesis of Pathophysiology*](#)
-  [*Clonus, Two Hypotheses of Pathophysiology*](#)

-  [*Hyperreflexia \(1\), Pathophysiology of Hyperactivity*](#)
-  [*Hyperreflexia \(2\), Pathophysiology of bilateral Responses*](#)
-  [*Hyperreflexia \(3\), Pathophysiology of Extended Hyperreflex*](#)
-  [*Hyperreflexia \(4\), Pathophysiology of Multi-Response Hyperreflex*](#)
-  [*Barr Body, the Second Look*](#)
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-  [*Barr Body; Mystery of Origin & Ignorance of Function*](#)
-  [*The Multiple Sclerosis: The Causative Relationship Between The Galvanic Current & Multiple Sclerosis?*](#)
-  [*Liver Hemangioma: Urgent Surgery of Giant Liver Hemangioma Because of Intra-Tumor Bleeding*](#)
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