***Dr. Ammar Yaseen Mansour***

***The Overactive******Hyperreflexia******The Pathophysiology of Disproportionate Motor Response***

[*To watch a short video explaining in detail the pathological mechanism of the overactive spinal hyperreflexia, click on this link:*](https://youtu.be/-JLJKAi8k44)

*[video](https://youtu.be/-JLJKAi8k44)*

*Under normal conditions, where the brain is dominant over all sensory afferent input as well as all motor efferent output, each spinal reflex retains its own specific and independent circuit, separate from others. Stimulating the receptive field of a specific spinal reflex triggers a motor response unique to that reflex. It is a singular, non-repetitive response, specific to the reflex being studied, controlled in its intensity and strength, and localized to the same side where the stimulation occurred.*

*In contrast, in Upper Motor Neuron injuries, the brain becomes functionally absent, and matters escape the effects of control and regulation. At that point, the Interneurons become active to fill the functional void. They activate old, abandoned neural pathways from early childhood, and/or work on forming new neural pathways that did not previously exist.*

*They connect the Sensory Neurons with the Motor Neurons of the Anterior Horn on the same side and within the same Spinal Segment. Consequently, new Neural Circuits are formed. It is a functional, aberrant circuit that did not exist before; it is the Hyperreflex Circuit. When this emergent circuit is stimulated, the neural signal travels directly from the Sensory Receptor to the sensory neuron, then to the Lower Motor Neuron, and finally to the Effector Muscle (Target Muscle).*

*Here, and as a result of the functional absence of the brain, the Afferent Signal is not subjected to processing and modulation. Rather, it dumps its entire load of energy directly into the lap of the Lower Motor Neuron. The response of the latter is consequently violent, sudden, non-objective, and disproportionate to the strength of the stimulus itself. This is precisely the intended meaning of the concept of an overactive, hyperactive reflex (Overactive Hyperreflex); see* ***Figure (1).***

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| ***Figure (1)******The Pathophysiology of the Overactive Hyperreflex***  *[video](https://youtu.be/-JLJKAi8k44) [To watch a short video explaining the pathological mechanism of overactive hyperreflexia in detail, click on this link:](https://youtu.be/-JLJKAi8k44)*  *After its connection with the governing Upper Motor Neuron is severed, and to satiate its craving for energy input, the Lower Motor Neuron (LMN) may form connections with the adjacent Sensory Neuron (SN) within the same Spinal Segment, or in the immediately adjacent segment. The latter, the SN, succeeds in dumping its entire load directly into the lap of the former, the LMN. The LMN receives the sensory input as an urgent, high-priority action command, resulting in reflex Overactivity.*  *Even mild stimuli are followed by an inconsistent, powerfully strong reflex.*  *Here, the functions of filtering and processing sensory input are absent. So too is the function of modulating the dosage of the motor command. These are two functions performed exclusively by the Upper Motor Neuron and the non-cortical upper command centers.* |

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*In other contexts, you can also read the following articles:*

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| *[video](https://youtu.be/ClqHfY65WQI)* | [*DOI*](https://doi.org/10.5281/zenodo.16070941) | [*The Spinal Reflex, New Hypothesis*](https://drive.google.com/file/d/1Nh0yxWLf3gPOlSKdftIZykUjb3xpsPBe/view?usp=sharing) *of Physiology* |
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| *[video](https://youtu.be/kwwsHHKh0AQ)* | [*DOI*](https://doi.org/10.5281/zenodo.16068269) | [*The Spinal Shock*](https://drive.google.com/file/d/1qQ6Ch-mVj1boww9SAhkPVTwFhX2kVoXR/view?usp=drive_link) |
| *[video](https://youtu.be/rBk0X29hs6w)* | *-* | [*The Spinal Injury, the Pathophysiology of the Spinal Shock, the Pathophysiology of the Hyperreflexia*](https://drive.google.com/open?id=1qQ6Ch-mVj1boww9SAhkPVTwFhX2kVoXR) |
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| *[video](https://youtu.be/PteMImPyZ0A)* | [*DOI*](https://doi.org/10.5281/zenodo.16922028) | [*Hyperreflexia (4): Pathophysiology of Multi-Motor-Response Hyperreflexia*](https://drive.google.com/file/d/1xRj0t5guxfzMsl3b0aeg6SHdWCwlQIEw/view?usp=sharing) |
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| *[video](https://youtu.be/zGRVmB0zta0)* | *-* | [*Nodes of Ranvier, Second Function*](https://youtu.be/OqH6r2qhmxY) |
| *[video](https://youtu.be/uP4QKEZsanA)* | *-* | [*Nodes of Ranvier, Third Function*](https://youtu.be/IFSf8eo8V9Y) |
| *[video](https://youtu.be/WtCIWXXP8wU)* | *-* | [*Node of Ranvier, The Anatomy*](https://youtu.be/WtCIWXXP8wU) |
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| *[video](https://youtu.be/wofEWjGJFS0)* | [*DOI*](https://doi.org/10.5281/zenodo.16838976) | [*Ulnar Nerve, Congenital Bilateral Dislocation*](https://drive.google.com/file/d/1V2mKzzV_RjoCYoJ0LRBelClJmiRv-ZnX/view?usp=sharing) |
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| *[video](https://youtu.be/yLyRSiN2EEo)* | [*DOI*](https://doi.org/10.5281/zenodo.16811632) | [*The Multiple Sclerosis: The Causative Relationship Between The Galvanic Current & Multiple Sclerosis?*](https://drive.google.com/file/d/1M0GTyJSsuc9ZWo8FnHPensmcptwHr0mR/view?usp=sharing) |
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| *[video](https://youtu.be/ZlNvPM0fh8A)* | [*DOI*](https://doi.org/10.5281/zenodo.16762035) | [*Carpal Tunnel Syndrome Ends Its Adherence: Complete Median Nerve Transection*](https://drive.google.com/file/d/1sHhWsaH47QJ5PzCDWlFd2KqiExBcONyl/view?usp=sharing) |
| *[video](https://youtu.be/rJoXOrr_IIE)* | [*DOI*](https://doi.org/10.5281/zenodo.16762909) | [*Biceps Femoris' Long Head Syndrome (BFLHS)*](https://drive.google.com/file/d/14y1g0Y9ThOqYRwJOsh1e5FIuxUurYDgJ/view?usp=sharing) |
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| *[video](https://youtu.be/2twXxX6T9zY)* | [*DOI*](https://doi.org/10.5281/zenodo.15879503) | [*Barr Body, The Whole Story (Innovated)*](https://drive.google.com/open?id=1MsjgYESiWd3slc7i9s9mSiwOAnWFfrys) |
| *[video](https://youtu.be/VsmAEwMexmE)* | *-* | [*Adam's Rib and Adam's Apple, Two Faces of one Sin*](https://drive.google.com/open?id=1SEtq6SqQxNHHOn0q4TqrS2mhVumXNQv5) |
| *[video](https://youtu.be/jjl8SMMkLeA)* | *-* | [*Adam's Rib, could be the Original Sin?*](https://drive.google.com/open?id=10CEzaQ2cbFr6CQI-d8VTur7Ekq2VnyF0) |
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| *[video](https://youtu.be/AA252qjldLk)* | *-* | [*Spermatogenesis*](https://drive.google.com/file/d/1dFhcEwK7X9_80oogfleEqy34PmuYHTb6/view?usp=sharing) |
| *[video](https://youtu.be/kQQxHeSzUn4)* | *-* | [*This Woman Can Only Give Birth to Female Children*](https://drive.google.com/file/d/1RLsOrpSIqwaR8FpwVi4fg5ep1G5JqIg_/view?usp=sharing) |
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| *[video](https://youtu.be/8ZBClHclnso)* | [*DOI*](https://doi.org/10.5281/zenodo.16333743) | [*Thumb Reconstruction Using Microvascular Second Toe to Thumb Transfer*](https://drive.google.com/file/d/1SDnEQtKoXJ673ApPVO1CuLnTewwOz9aH/view?usp=drive_link) |
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