***Dr. Ammar Yaseen Mansour***

***The Bilateral-Response Hyperreflexia  
The Pathophysiology of Bilateral-Response Hyperreflexia***

[*To watch a short video explaining in detail the pathophysiology of the bilateral-response hyperreflex, click on this link:*](https://youtu.be/q1mMORyoNLY)

*[video](https://youtu.be/q1mMORyoNLY)*

*Under normal circumstances, where the brain dominates 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. This response is singular, non-repetitive, specific to the reflex being studied, precisely regulated in intensity and force, and occurs on the same side where the stimulus was applied.*

*In contrast, with upper motor neuron injuries, the brain becomes functionally absent, and processes escape the effects of regulation and control. At this point, interneurons become active to fill the functional void. They activate old, unused neural pathways from early childhood, and/or work to form new neural pathways that did not previously exist. They interconnect among themselves, simultaneously networking with the sensory neurons and motor neurons on the same (unilateral) side, as well as on the opposite (contralateral) side, within the same spinal segment.*

*Consequently, the hyperreflex circuit on one side merges with its counterpart on the opposite (contralateral) side into a single, aberrant functional circuit: the bilateral-response hyperactive spinal reflex circuit. Merely stimulating the reflex circuit on one side is sufficient to elicit a motor response in both sides simultaneously (bilateral response). This is precisely the meaning of the concept of a bilateral response; see* ***Figure (1).***

*It is important to note here the central role of interneurons. They have become the connecting conduit between the two poles of the spinal reflex in its pathological form, namely between the sensory neurons and the lower motor neurons on both sides.*

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| ***Figure (1)******The Pathophysiology of the Bilateral-Response Hyperreflex***  *[video](https://youtu.be/e2mXSrOPtXk)* [*To watch a short video explaining in detail the pathophysiology of the bilateral-response hyperreflex, click on this link:*](https://youtu.be/e2mXSrOPtXk)  *In an upper motor neuron lesion, after the connection with higher centers is lost, the neural elements of the spinal cord communicate with each other in an abnormal, aberrant manner. This results in a sensory neuron forming connections with both the ipsilateral (same-side) and the contralateral (opposite-side) lower motor neurons. Consequently, an abnormal lower motor neuron circuit is formed. Stimulating the receptive field of the concerned sensory neuron can trigger a motor response in both the ipsilateral and contralateral sides simultaneously. That is, a single sensory input can elicit the spinal reflex motor response in both sides.* |

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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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