

Nervous System HW #1

Directions: Define Vocab and Answer Questions on the actual ISN page in your notebook.

- | | |
|--------------------|------------------|
| 1. Anesthesia | 8. Paraplegia |
| 2. Babinski's sign | 9. Quadriplegia |
| 3. Bradykinesia | 10. Spina bifida |
| 4. Convulsion | 11. Tetraplegia |
| 5. Myelography | 12. Tremor |
| 6. Lumbar puncture | 13. Neuroma |
| 7. Paralysis | 14. Radiculitis |

Questions:

1. A reflex called the biceps-jerk reflex employs motor neurons that exit from the spinal cord in the fifth spinal nerve (C5)- that is, fifth from the top of the cord. Another reflex called the triceps-jerk reflex utilizes motor neurons in the seventh spinal nerve (C7). How might these reflexes help locate the site of damage in a patient with a neck injury?
2. Janelle had been on the go the entire day. Her busy schedule had included a job interview, a class presentation, and an unmerciful physics exam she would rather not discuss. Once home, she was determined to head straight for bed, but there was one minor complication. She hadn't managed to eat anything in the midst of all the day's activities. While scrambling to put together a fast and easy meal at home, she inadvertently touched one of the hot burners on the stove. Fortunately, she reacted by jerking back her hand before any damage was done. A short time later, Janelle felt pain on her hand where it had been exposed to the hot burner. After telling her mother about her eventful day and her narrow escape, Janelle's mother asked her about her hand. Janelle replied, "I'm fine, but it could have been much worse."

In this relatively simple event involving the hot burner, several neural pathways have contributed to the response of Janelle removing her hand from the potentially dangerous hot burner. Can you explain what happened? (a bulleted list is OK)