In a notable study, biopsies of the quadriceps femoris revealed that couch potatoes had a ratio of about:

A) 95% fast to 5% slow muscle cells.
B) 60% fast to 40% slow muscle cells.
C) 50% fast to 50% slow muscle cells.
D) 25% fast to 75% slow muscle cells.
E) 10% fast to 90% slow muscle cells.
A neuromuscular junction is rendered inoperable by botulinum toxin.

When does the axon terminal of the SMN affected by the toxin regain the ability to release acetylcholine?

A) 12 hours
B) one week
C) three months
D) one and a half years
E) never again
Sensory afferents in which class of axons make direct ("monosynaptic") connections with perikarya of somatic motor neurons?

A) Ia
B) II
C) III (type A delta)
D) IV (type C)
E) IV (type C)
Which of these conditions damages lower motor neurons?

A) Brown - Séquard
B) Anterior Cord Syndrome
C) Tabes Dorsalis
D) Syringomyelia
E) Poliomyelitis
F) Amyothrophic lateral sclerosis
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Which descending pathway originating in the brain stem fulfills these criteria?

i) terminates on spinal cord interneurons
ii) influences SMNs in medial spinal gray matter
iii) projects bilaterally only as far as the upper cord
iv) is located in the medial longitudinal fasciculus

A) tectospinal pathway (tract)
B) lateral vestibulospinal pathway (tract)
C) medial vestibulospinal pathway (tract)
D) lateral reticulospinal pathway (tract)
E) medial reticulospinal pathway (tract)