LEARNING VIDEOS SIMULATING NEUROMUSCULAR LIMB DEFICITS

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Summary:

Anatomical localization is an essential first step in the diagnosis of peripheral neuromuscular disease. We will demonstrate a series of educational video recordings simulating multiple limb deficits that limit mobility. The simulations provide learners with step-by-step analyses of the key anatomical relations that are critical to the development of diagnostic skills and patient management strategies. Anyone interested in medical education software and its utilization in online teaching should benefit from the poster demonstration.

Abstract:

Common neuromuscular deficits that impact the normal functions of the upper and lower limbs were selected and digitally recorded for online distribution to first-year medical students. Abnormal patterns of movement were systematically analyzed to review synergistic muscle group actions and innervation. Cutaneous deficits were included when relevant to aid in differential diagnosis of motor nerve impairments. Text summarizing key anatomical relationships followed each simulation enabling learners to assimilate information vital to the anatomical localization of neuromuscular deficits. This approach can be adapted to suit any learning environment where knowledge of anatomical relations is an essential part of effective patient diagnosis and treatment.

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