Robotics Assessment Following Stroke

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Research Abstract

Robotic technologies have profoundly affected our ability to identify fundamental properties of brain function. This success is attributable to the fact that robots can control the position of or forces applied to limbs and their inherent ability to rapidly, objectively, and reliably quantify sensorimotor behavior. Our general hypothesis is that these same attributes make robotic technologies ideal for assessing sensory, motor and cognitive impairments in stroke and other neurological disorders. Further, they provide opportunities for novel therapeutic strategies. This presentation will discuss how robotic technology can be used for a wide range of sensorimotor assessment following stroke and highlight the importance of accurate assessment in tailoring future rehabilitation therapies.

References

