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Introduction.

F. Lmidmani, A. El Fatimi

and review of the literature

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Keywords: General muscle fatigue; Local muscle fatigue; Postural control

Objective.– The aim was to compare the effect of unilateral knee extensor, ankle
plantarflexor fatigue and one leg squat jump on postural control during quiet
standing stance.

Methods.– Twenty-eight healthy male students in sports sciences were random-
ized into 3 groups performed fatiguing tasks of the knee and the ankle muscle
using an isokinetic dynamometer and an exercise of the limb extensor muscles
of one leg (one leg squat jump). Fatigue judged to have occurred when the torque
output dropped below 50% the initial peak torque (IPT) for three consecutive
movements. Postural control was assessed by measuring the centre of foot pres-
sure (COP) with a force platform quiet standing posture with eyes opened (EO)
and eyes closed (EC).

Results.– In EC condition, ML sway, AP sway and mean COP velocity
(P=0.025) increased after performing the knee muscle fatigue more than others
groups.

Conclusion.– Our main finding that local and general muscle fatigue revealed an
immediate destabilization of undisturbed stance. The postural control is more
impairment by knee muscle fatigue than by ankle muscle fatigue.

http://dx.doi.org/10.1016/j.rehab.2014.03.697

Heterotopic ossification in Guillain-Barré syndrome: Rare localization: About a case
and review of the literature


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Keywords: Heterotopic ossification; Guillain-Barré syndrome; Polyradiculonevritis

Introduction.– Heterotopic ossifications are frequent in central nervous disease,
on the opposite just a few cases have been described in peripheral disorders.
Observation.– A 18-year-old man without particular history. The onset of symp-
toms goes back to 2012 by the installation of a rapidly progressive ascendant a
reflexxique flacide tetraplegia without sensory or urinary troubles with respira-
tory distress and trouble of swallowing with stay in intensive care. The evolution
was marked by polyarticular stiffness of elbows, knees and hips. X-ray showed
neurogenic heterotopic ossifications and high alkaline phosphatase.

Discussion.– Heterotopic ossification is a frequent complication in central neu-
rologic lesions such spinal cord injury or brain injury. Just a few cases following
peripheral nerve disorders have been reported. The severity of neurological impairment associated with the onset of encephalopathy is probably important risk factors in these patients, involving
careful monitoring.

Farther reading

Kan L, et al. Dysregulation of local stem/progenitor cells as a common cellular

http://dx.doi.org/10.1016/j.rehab.2014.03.698

Simultaneous bilateral rupture of the patellar tendon: A case report


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Keywords: Patellar tendon; Tendon tears; Surgery; Rehabilitation

Introduction.– The patellar tendon ruptures are well known in orthopedic liter-
ature lesions, however bilateral simultaneous ruptures are extremely rare.
Case presentation.– A 35-year-old patient monitoring for chronic renal fail-
ure with hyperparathyroidism undergoing hemodialysis for 15 years. He was
admitted for pain with functional importance of two lower limbs. Both knees
were very tender on palpation and the patient complained of severe pain. Active