Current Issue	Acta Medica Iranica
💋 Browse Issues	2009;47(4):8-8
Search	Original Article
\sim	Effect of cognitive task (dual task) on postural control in patients with chronic ankle sprain
About this Journal Instruction to Authors	Shiravi Z ¹ , Hadian MR ^{2*} , Talebian S ³ , Olyaei GR ²
) Online Submission) Subscription	 M.Sc of Physio Therapy of Tehran University of Medical Sciences Full Professor of Tehran University of Medical Science Assosiate Professor of Tehran University of Medical Science
Contact Us	Corresponding Author:
RSS Feed	Zeynab Shiravi M.Sc of Physio Therapy of Tehran University of Medical Sciences
	Abstract:
	Background and aim: Chronic ankle instability (CAI) is a current disability that can affect on activity daily living of the patients. Many studies have indicated postural control deficits in these patients; but the effect of a dual task on postural control has not been examined yet.
	Materials and methods: Postural stability in CAI patients and healthy subjects was measured using the Force Plate. Eight positions concluded two different stances (double & single) with closed or opened eyes. All positions concurrently were done with a cognitive task. Anterior/posterior (Rfa) and medial/lateral (Rsw) mean sway quantified static postural stability.
	Results: Mean sway significantly increased in patients in the anterior/posterior (single and double leg stance) and medial/lateral (single leg stance) directions (P<0.05). While performing a dual task anterior/posterior mean sway decreases within the patients group on the impaired leg stance (P<0.05). No difference is seen in the healthy subjects.
	Conclusion: Postural control deficits were identified in participants with chronic ankle instability. In view of the fact that a cognitive task resulted in decreasing displacement of center of pressure in patients, this method may identify as an examination and a plan of treatment for affecting on ankle stabilizing factors.
	Key Words: Postural Control, Information Processing, Ankle Sprain, Force Plate, Dual Task.
	Keywords:
	Postural Control ، Information Processing ، Ankle Sprain ، Force Plate ، Dual Task
	TUMS I D: 14066
	Full Text HTML 🕘 Full Text PDF 🖄 11 KB

Home - About - Contact Us

TUMS E. Journals 2004-2009 Central Library & Documents Center Tehran University of Medical Sciences

Best view with Internet Explorer 6 or Later at 1024*768 Resolutions