

Format: Abstract

Full text links



See 1 citation found by title matching your search:

J Bodyw Mov Ther. 2018 Jul;22(3):752-756. doi: 10.1016/j.jbmt.2017.12.001. Epub 2017 Dec 6.

Thoracic hyperkyphosis non invasively measured by general practitioners is associated with chronic low back pain: A cross-sectional study of 1364 subjects.

Villafañe JH¹, Bissolotti L², Zaina F³, Arienti C⁴, Donzelli S⁵, Negrini S⁶.

Author information

Abstract

OBJECTIVE: The aim of this **study** was to examine the association between trunk sagittal posture and nonspecific **chronic low back pain** (CLBP) by evaluating plumb-line distances in **subjects** recruited in an everyday clinical setting.

METHODS: Of the **1364 subjects** recruited, 63.1% were female (mean age \pm SD: 56.2 \pm 16.8 years). **Subjects** were categorized into CLBP and control groups and were prospectively assessed over a 3-month period. They provided information about their daily activities and their history of CLBP. Prognostic factors were analysed using univariate and multivariate logistic regression analyses. A physical examination was performed to record demographic (i.e. age, height and weight) and **pain** characteristics, and the intensity of **pain** was assessed using a numerical visual analogue scale. Disability was assessed using the Roland-Morris Disability Questionnaire (RMDQ). A simple measure generally used for sagittal plane screening purposes during growth was also utilized.

RESULTS: Multivariate logistic regression analysis revealed that gender (OR = 1.70), RMDQ score (OR = 0.51) and **thoracic hyperkyphosis** (C7 + L3 at the plumb-line distance) (OR = 1.57) were **associated** with CLBP. The final regression model explained 85.6% ($R^2 = 0.56$; $P < 0.001$) of the variability.

CONCLUSIONS: **General practitioners** can clinically and easily assess trunk posture in **subjects** with **low back pain** to identify **subjects** at higher risk of CLBP.

Copyright © 2017 Elsevier Ltd. All rights reserved.

PMID: 30100308 DOI: [10.1016/j.jbmt.2017.12.001](https://doi.org/10.1016/j.jbmt.2017.12.001)



LinkOut - more resources

