

## Accepted Manuscript

Comparison of spinal stability following motor control and general exercises in nonspecific chronic low back pain patients

MohammadBagher Shamsi, Javad Sarrafzadeh, Aliashraf Jamshidi, Arjmand Navid, Farshid Ghezelbash



PII: S0268-0033(17)30150-X  
DOI: doi: [10.1016/j.clinbiomech.2017.07.006](https://doi.org/10.1016/j.clinbiomech.2017.07.006)  
Reference: JCLB 4352  
To appear in: *Clinical Biomechanics*  
Received date: 1 November 2016  
Revised date: ####REVISEDDATE###  
Accepted date: 7 July 2017

Please cite this article as: MohammadBagher Shamsi, Javad Sarrafzadeh, Aliashraf Jamshidi, Arjmand Navid, Farshid Ghezelbash , Comparison of spinal stability following motor control and general exercises in nonspecific chronic low back pain patients, *Clinical Biomechanics* (2017), doi: [10.1016/j.clinbiomech.2017.07.006](https://doi.org/10.1016/j.clinbiomech.2017.07.006)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

## Comparison of Spinal Stability Following Motor Control and General Exercises in Nonspecific Chronic Low Back Pain Patients

Authors:

1- Shamsi, MohammadBagher, PhD,  
Assistant Professor, Rehabilitation and Sport Medicine Department, School of Paramedicine, Kermanshah University of Medical Sciences, Dolat Abad Street, Kermanshah, Iran

Tel: (+98) 8317241929 Fax: (+98) 8338279190 Mobile: (+98) 9188310161

Email: Mshamsi@kums.ac.ir Mbshamsi@yahoo.com

2- Sarrafzadeh, Javad; PhD,  
Associate Professor, Physiotherapy Department, School of Rehabilitation Sciences, Iran University of Medical Sciences, Mohseni Square, Tehran, Iran  
Email: j.sarrafzadeh@gmail.com

3- Jamshidi, Aliashraf; PhD,  
Assistant Professor, Physiotherapy Department, School of Rehabilitation Sciences, Iran University of Medical Sciences, Mohseni Square, Tehran, Iran  
Email: aliajamshidi@yahoo.com

4- Arjmand Navid, PhD,  
Assistant Professor, Department of Mechanical Engineering, Sharif University of Technology, Tehran 11155-9567, Iran  
Email: arjmand@sharif.edu

5- Ghezelbash Farshid, Msc,  
Division of Applied Mechanics, Department of Mechanical Engineering, École Polytechnique, Montréal, Canada  
Email: ghezelbash.far@gmail.com

### Corresponding Author:

Shamsi, MohammadBagher, PhD,  
Assistant Professor, Rehabilitation and Sport Medicine Department, School of Paramedicine, Kermanshah University of Medical Sciences, Dolat Abad Street, Kermanshah, Iran

Tel: (+98) 8317241929 Fax: (+98) 8338279190 Mobile: (+98) 9188310161

Email: Mshamsi@kums.ac.ir Mbshamsi@yahoo.com

**Text Word Count** : 3458

**Abstract Word Count**: 251

Download English Version:

<https://daneshyari.com/en/article/5707006>

Download Persian Version:

<https://daneshyari.com/article/5707006>

[Daneshyari.com](https://daneshyari.com)