

DBC Research

Publications in international peer-reviewed journals



1. Epidemiology, Etiology and Diagnostics

Karppinen J, Kurunlahti M, Taimela S, Haapea M, Vanharanta H, Tervonen O. **Determinants of lumbar artery occlusion among patients with sciatica: A three-year follow-up with magnetic resonance angiography.** *Eur Spine J.* 2005 Feb 19; Epub ahead of print. [PubMed](#)

Leinonen V, Kankaanpää M, Luukkonen M, Kansanen M, Hanninen O, Airaksinen O, Taimela S. **Lumbar paraspinal muscle function, perception of lumbar position, and postural control in disc herniation-related back pain.** *Spine.* 2003 Apr 15; 28(8): 842-8. [PubMed](#)

Leinonen V, Määttä S, Taimela S, Herno A, Kankaanpää M, Partanen J, Hanninen O, Airaksinen O. **Paraspinal muscle denervation, paradoxically good lumbar endurance, and an abnormal flexion-extension cycle in lumbar spinal stenosis.** *Spine.* 2003 Feb 15; 28(4): 324-31. [PubMed](#)

Leinonen V, Kankaanpää M, Hanninen O, Airaksinen O, Taimela S. **Paraspinal muscle responses during sudden upper limb loading.** *Eur J Appl Physiol.* 2002 Nov; 88(1-2): 42-9. Epub 2002 Aug 14. [PubMed](#)

Rissanen A, Heliövaara M, Alaranta H, Taimela S, Mälkiä E, Knekt P, Reunanen A, Aromaa A. **Does Good Trunk Extensor Performance Protect Against Back-Related Work Disability?** *J Rehabil Med* 2002; 34: 62-66. [PubMed](#)

Leinonen V, Määttä S, Taimela S, Herno A, Kankaanpää M, Partanen J, Kansanen M, Hanninen O, Airaksinen O. **Impaired Lumbar Movement Perception in Association With Postural Stability and Motor and Somatosensory-Evoked Potentials in Lumbar Spinal Stenosis.** *Spine* 2002; 27(9): 975-83. [PubMed](#)

Leinonen V, Kankaanpää M, Luukkonen M, Hanninen O, Airaksinen O, Taimela S. **Disc Herniation-Related Back Pain Impairs Feed-**

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Taimela S, Kankaanpää M, Luoto S. **The Effect of Lumbar Fatigue on the Ability to Sense a Change in Lumbar Position. A Controlled Study.** *Spine* 1999; 24(13): 1322-7. [PubMed](#)

Kankaanpää M, Taimela S, Laaksonen D, Airaksinen OV, Hänninen OO. **Back and Hip Extensor Fatigability in Chronic Low Back Pain Patients and Controls.** *Arch Phys Med Rehabil* 1998; 79: 412-417 [PubMed](#)

Taimela S, Kankaanpää M, Airaksinen OV. **A Submaximal Back Endurance Test Utilising Subjective Perception of Low Back Fatigue.** *Scand J Rehab Med* 1998 30: 107-112. [PubMed](#)

Peltonen JE, Taimela S, Erkintalo M, Salminen JJ, Oksanen A, Kujala UM. **Back Extensor and Psoas Muscle Cross-Sectional area, Prior Physical Training and Trunk Muscle Strength - a Longitudinal Study in Adolescent Girls.** *Eur J Appl Physiol* 1998; 77: 66-71. [PubMed](#)

Kankaanpää M, Laaksonen D, Taimela S, Kokko SM, Airaksinen OV, Hänninen OO. **Age, Sex and Body Mass Index as Determinants of Back and Hip Extensor Fatigue in Isometric Sorensen Back Endurance Test.** *Arch Phys Med Rehabil* 1998; 79: 1069-1075. [PubMed](#)

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2.Treatment

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Timonen L, Rantanen T, Rynnänen OP, Taimela S, Timonen TE, Sulkava R. **A randomized controlled trial of rehabilitation after hospitalization in frail older women: effects on strength, balance and mobility.** *Scand J Med Sci Sports.* 2002 Jun; 12(3): 186-92. [PubMed](#)

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