SpinalMouse® Scientific Publications

Validity / Reliability / Objectivity

Topalidou A, Tzagarakis G, Souvatziis X, Kontakis G, Katonis P
Evaluation of the reliability of a new non-invasive method for assessing the functionality and mobility of the spine
Department of Anaesthesiology, University Hospital of Heraklion, Crete, Greece

Barrett E, McCree K, Lewis J Artikel auf Englisch
Reliability and validity of non-radiographic methods of thoracic kyphosis measurement: A systematic review
Department of Clinical Therapies, Faculty of Education and Health Sciences, University of Limerick, Limerick, Ireland

Russel BS, Muhlenkamp KA, Hoiriis KT, Desimone CM
Measurement of lumbar lordosis in static standing posture with and without high heeled shoes
Office of Sponsored Research and Scholarly Activity, Life University, Marietta, GA, USA

E Kellis, G Adamou, G Tzilos, M Emmanouilidou
Reliability of spinal range of motion in healthy boys using a skin-surface device
Physical Education and Sports and Sciences at Serres, Aristotle University Thessaloniki, Serres, Greece

M Guermazi, S Ghroubi, M Kassis, O Jaziri, H Keskes, W Kessomtini, I Ben Hammouda, MH Elleuch
Validity and reliability of Spinal Mouse to assess lumbar flexion
Service de Médicine Physique et Réadaptation fonctionnelle de l'Hôpital Habib-Bourguiba, Université du Sud, Sfax, Tunisia

RB Post, VJM Leferink
Spinal mobility: sagittal range of motion measured with the SpinalMouse, a new non-invasive device
Department of Surgery, University Hospital Groningen, Holland
AF Mannion, K Knecht, G Balaban, J Dvorak, D Grob

A new skin-surface device for measuring the curvature and global and segmental ranges of motion of the spine: reliability of measurements and comparison with the data reviewed from the literature

Institut für Physikalische Medizin und Rehabilitation, Universitätsspital Zürich, Switzerland

Eur Spine J, 13:122 – 136, 2004

E Bistritschan, S Delank, G Winnekendonk, P Eysel

Oberflächenmessverfahren (MediMouse) versus Röntgenfunktionsaufnahmen zur Beurteilung der lumbalen Wirbelsäulenbeweglichkeit

Klinik und Poliklinik für Orthopädie, Klinik der Universität Köln, Germany

Orthopädie, 141 (S1), 2003

S Keller, AF Mannion, D Grob

Reliability of a new measuring device („spinalmouse“) in recording the sagittal profile of the back

Schultess Klinik, Zürich, Switzerland

Eur Spine J, 9 (4), 2000

RK Meier, D Gutensohn, R Dracheneder, N Seichert

Objektive Evaluation der Rückenform und Veranschaulichung der WS-Aufrichtung im Rahmen der Patientenschulung

Orthopädische Abteilung der Bad Colberg Kliniken, Bad Colberg, Germany

Phys Med Rehab Kuror, 10 (4), 2000

S Steinbeis, G Stucki

Alters- und geschlechtsspezifische Normwerte von Rückenform und –beweglichkeit gemessen mit der Rückenmaus

Medizinische Fakultät der Ludwig-Maximilians-Universität München, Germany

Dissertation, 1999

N Seichert

Measurement of shape and mobility of the spinal column: Validation of the SpinalMouse® by comparison with functional radiographs

Ludwig-Maximilians-Universität München, Germany

Summary of dissertation of S Schulz, 1999

S Schultz, E Senn, G Stucki

Messung von Form und Beweglichkeit der Wirbelsäule: Validierung der „Rückenmaus“ durch Vergleich mit Röntgen-Funktionsaufnahmen

Medizinische Fakultät der Ludwig-Maximilians-Universität München, Germany

Dissertation, 1999
Clinical Applications

S Watanabe, K Kobara, H Ishida, A Eguchi

Influence of trunk muscle co-contraction on spinal curvature during sitting cross-legged

Department of Rehabilitation, Faculty of Health Science and Technology, Kawasaki, Japan

I Bautmans, J Van Arken, M Van Mackelenberg, T Mets

Rehabilitation using manual mobilization for thoracic kyphosis in elderly postmenopausal patients with osteoporosis

Frailty in Ageing Research Department, Vrije Universiteit Brüssel, Belgium
Geriatrics, Universitair Ziekenhuis, Brüssel, Belgium

Y Takihara, Y Urabe, GA Nishiwaki, K Tanaka, K Miyashita

How back-muscle fatigue influences lumbar curvature

Health Science Department, Hiroshima University, Hiroshima, Japan

R Chou, R Fu, JA Carrino, RA Deyo

Imaging strategies for low-back pain: systematic review and meta-analysis

Oregon, Health and Science University, Portland, USA
Lancet, 373: 463 – 472, 2009

G Verheyden, A Nieuwboer

An exploratory study of trunk impairment in people with Parkinson’s disease

School of Health Sciences, University Southampton, UK
Poster (unpublished) 2007
S Watanabe, A Eguchi, K Kobara, H Ishida

Influence of trunk muscle co-contraction on spinal curvature during sitting for desk work
Department of Rehabilitation, Faculty of Health Science and Technology, Kawasaki, Japan

N Miyakoshi, M Hongo, S Maekawa, Y Ishikawa, Y Shimada, E Itoi

Back extensor strength and lumbar spinal mobility are predictors of QOL in patients with postmenopausal osteoporosis
Division of Orthopedic Surgery, Akita University School of Medicine, Akita, Japan
Osteoporus Int, 18: 1397 – 1403, 2007

N Miyakoshi, M Hongo, S Maekawa, Y Ishikawa, Y Shimada, K Okada, E Itoi

Factors related to spinal mobility in patients with postmenopausal osteoporosis
Department of Orthopedic Surgery, Akita University School of Medicine, Akita, Japan
Osteoporus Int, 16: 1871 – 1874, 2005

AF Mannion, J Dvorak, M Müntener, D Grob

A prospective study of the interrelationship between subjective and objective measures of disability before and 2 months after lumbar decompression surgery for disc herniation
Schulthess Klinik, Zürich, Switzerland
Eur Spine J, 14: 454 – 465, 2005

RB Post, VJM Leferink

Sagittal range of motion after a spinal fracture: does ROM correlate with functional outcome?
Department of Surgery, University Hospital Groningen, Holland
Eur Spine J, 13: 489 – 494, 2004

EM Liebig, R Kothe, AF Mannion, D Grob

The clinical significance of the lumbar lordosis: relationship between lumbar spinal curvature and low back pain
Schulthess Klinik, Switzerland
Eur Spine J, 9: 286, 2000