

ONDERZOEK KRACHT TESTS

Algemeen, biomechanica:

- Leonardo Mechanography - A New Device for the Assessment of Muscle Function in Pediatrics. in: Pediatric Research 2006
- Messung von Muskelleistung und Bewegungsanalyse mit LEONARDO-Meßsystem.
- Propulsion forces as a function of intensity for weightlifting and vertical jumping. J. Appl Sport Sci Res. 6(3): 1992
- Force-time dependent characteristics of dynamic and isometric muscle actions. J. Strength Cond Res, 11(4), 1997

Validiteit, betrouwbaarheid

- Reproducibility of the Jumping Mechanography As a Test of Mechanical Power Output in Physically Competent Adult and Elderly Subjects. in: J. of the American Geriatrics Society (JAGS)
- Intrasession Reliability of Center of Pressure Measures of Postural Steadiness in Healthy Elderly People. in: Arch Phys Med Rehabil Vol 85, June 2004
- Isokinetic knee extension and vertical jumping: Are they related? in: Journal of Sports Sciences, October 2005; 23(10): 1121 – 1127

Relatie met dagelijkse en sport activiteiten:

- Is muscle power output a key factor in the age-related decline in physical performance? A comparison of muscle cross section, chair-rising test and jumping power. in: Clinical Physiology and Functional Imaging 2004
- JUMP KINETIC DETERMINANTS OF SPRINT ACCELERATION PERFORMANCE FROM STARTING BLOCKS IN MALE SPRINTERS - Journal of Sports Science and Medicine (2006) 5, 359-366
- STRENGTH AND POWER PREDICTORS OF SPORTS SPEED. in: Journal of Strength and Conditioning Research, 2005, 19(2), 349–357
- On the assessment of lower-limb muscular power capability. Isokinetics and Exercise Science 11 (2003) 87–94
- Lower-limb extension power: How well does it predict short distance speed skating performance? Isokinetics and Exercise Science 10 (2002) 87–95

Training/revalidatie:

- EVALUATING STRENGTH QUALITIES OF ATHLETES USING RELATIONSHIPS BETWEEN JUMP PROTOCOLS. XXV ISBS Symposium 2007, Ouro Preto – Brazil
- Klinische Diagnostik des Regelkeises Muskel-Knochen am Unterschenkel. in: Osteologie Band 11, Heft 1
- Lokomotorisches Assessment. in: arthritis und rheuma, 4/2006
- Bewegungsprogramm zur Prävention von Stürzen und Frakturen. in: arthritis und rheuma, 4/2006
- Sturzrisiko-Assessment bei älteren Menschen. in: arthritis und rheuma, 4/2006
- A Comparison of Strength and Power Characteristics Between Power Lifters, Olympic Lifters, and Sprinters. in: Journal of Strength and Conditioning Research, 1999, 13(1), 58–66
- DIFFERENCES BETWEEN JUMPING AND NON-JUMPING LEGS IN DIVISION III COLLEGIATE TRACK AND FIELD JUMPERS. J. Undergrad. Kin. Res. 2006;1(2): 1-7
- ECCENTRIC UTILIZATION RATIO: EFFECT OF SPORT AND PHASE OF TRAINING. Journal of Strength and Conditioning Research, 2006, 20(4), 992–995

Blessurerisiko:

- Defining Osteopenias and Osteoporoses: Another View (With Insights From a New Paradigm) in: Bone, Vol. 20, No. 5
- Wacklig auf den Beinen? Das mißt ein neues Gerät für Geriater. in: Ärzte-Zeitung 2004
- Postural stability in the elderly: empirical confirmation of a theoretical model. in: Archives of Gerontology and Geriatrics 39 (2004) 163–177
- Evaluation of Postural Stability in Elderly With Diabetic Neuropathy. in: Diabetes Care 23:1187–1191, 2000
- Biomechanical Analysis of jumping comparing low- and high- ACL injury risk groups: identifying possible mechanical risk factors. J. Jeansonne. ISB XXth congress and ASB 29th Annual Meeting
- Ground reaction force data in functional ankle instability during two cutting movements. in: Clinical Biomechanics 21 (2006) 405–411
- Knee movement patterns of injured and uninjured adolescent basketball players when landing from a jump: A case-control study. In: *BMC Musculoskeletal Disorders* 2006, 7:22
- Preparticipation Physical Examination Using a Box Drop Vertical Jump Test in Young Athletes: The Effects of Puberty and Sex. In: *Clinical Journal of Sport Medicine*. 16(4):298-304, July 2006. [link](#)
- Lower Limb Stability With ACL Impairment. In: *JOSPT AUGUST 1999 Volume 29, No. 8* [link](#)

- Biomechanical evidence supporting a differential response to acute ACL injury. In: Clinical Biomechanics Volume 16, Issue 7, August 2001, Pages 586-591 [link](#)
- Muscle-bone relationships in the lower leg of healthy pre-pubertal females and males. J Musculoskelet Neuronal Interact 2008; 8(3):239-243