

Klaus Mattes/Stefanie Manzer/Martin Reischmann/Nina Schaffert

DER EINFLUSS DER WIND- RICHTUNG AUF DAS GIEREN BEIM SKULLEN

Literatur

An, W. W., Wong, V. & Cheung, R. T. (2015). Lower limb reaction force asymmetry in rowers with and without a history of back injury. *Sports Biomechanics*, 4(4), 375-383 (doi: 10.1080/14763141.2015.1061047).

Baca, A., Kornfeind, P. & Heller, M. (2007). Comparison of foot-stretcher force profiles between on-water and ergometer rowing. *ISBS-Conference Proceedings Archive*, 1 (1), 347-350.

Baudouin, A. & Hawkins, D. (2002). A biomechanical review of factors affecting rowing performance * Commentary. *British Journal of Sports Medicine*, 36 (6), 396-402 (doi: 10.1136/bjism.36.6.396).

Bellace, J. V., Healy, D., Besser, M. P., Byron, T. & Hohman, L. (2000). Validity of the Dexter Evaluation System's Jamar dynamometer attachment for assessment of hand grip strength in a normal population. *Journal of Hand Therapy*, 13 (1), 46-51.

Buckeridge, E., Hislop, S., Bull, A. & McGregor, A. (2012). Kinematic asymmetries of the lower limbs during ergometer rowing. *Medicine and Science in Sports and Exercise*, 44 (11), 2147-2153 (doi: 10.1249/MSS.0b013e3182625231).

Buckeridge, E. M., Bull, A. M. J. & McGregor, A. H. (2014). Foot force production and asymmetries in elite rowers. *Sports Biomechanics/International Society of Biomechanics in Sports*, 13 (1), 47-61 (doi: 10.1080/14763141.2013.861013).

Colloud, F., Bahuaud, P., Doriot, N., Champely, S. & Chèze, L. (2006). Fixed versus free-floating stretcher mechanism in rowing ergometers: mechanical aspects. *Journal of Sports Sciences*, 24 (5), 479-493 (doi: 10.1080/02640410500189256).

Draper, C. (2006). *Optimising Rowing Performance in Elite Womens Single Sculling*: School of Exercise and Sport Science, Faculty of Health Sciences, University of Sydney.

Draper, C. & Smith, R. (2006). Consistency of technical and performance based rowing variables in single sculling. In H. Schwameder, G. Strutzenberger, V. Fastenbauer, S. Lindinger & E. Müller (Hrsg.), *XXIV International Symposium on Biomechanics in Sports* (S. 91-94). Salzburg.

Fohanno, V., Nordez, A., Smith, R. & Colloud, F. (2015). Asymmetry in elite rowers: effect of ergometer design and stroke rate. *Sports Biomechanics/International Society of Biomechanics in Sports*, 14 (3), 310-322 (doi: 10.1080/14763141.2015.1060252).

Hannafin, J. & Hosea, T. (2001). Oar sports. In W. E. Garret, D. T. Kirkendall & D. L. Squire (Eds.), *Principles and Practice of Primary Care Sports Medicine* (pp. 531-540). Philadelphia (PA): Lippincott, Williams & Wilkins.

Hosea, T. M. & Hannafin, J. A. (2012). Rowing injuries. *Sports Health*, 4 (3), 236-245 (doi: 10.1177/1941738112442484).

Kleshnev, V. (2011). Asymmetry in sculling. *Rowing Biomechanics Newsletter*, 11 (124).

Kleshnev, V. (2014). Brief rigging guide. *Rowing Biomechanics Newsletter*, 162 (9).

Kramer, J. F. & Leger, A. (1991). Oarside and nonoarside torques of the knee extensors and flexors in

light-weight and heavy-weight sweep oarsmen. *Physiotherapy Canada*, 43 (3), 23-27.

Kramer, J. F., Leger, A. & Morrow, A. (1991). Oarside and nonoarside knee extensor strength measures and their relationship to rowing ergometer performance. *Journal of Orthopaedic & Sports Physical Therapy*, 14 (5), 213-219.

Loschner, C. & Smith, R. (2000). The relationship between pin forces and individual feet forces applied during sculling. In R. Barrett, R. J. Simeoni & C. D'Heulon (Eds.), *3rd Australasian Biomechanics Conference (ABC3). Book of Abstracts*. School of Physiotherapy and Exercise Science, Griffith University.

Maselli, F., Ciuro, A., Mastro Simone, R., Cannone, M., Nicoli, P., Signori, A. et al. (2015). Low back pain among Italian rowers: A cross-sectional survey. *Journal of Back and Musculoskeletal Rehabilitation*, 28 (2), 365-376 (doi: 10.3233/BMR-140529).

Mattes, K. (2012). Rowing technique. In D. Altenburg, K. Mattes, J. M. Steinacker & J. Langfield (Eds.), *Manual of rowing training. Technique, high performance and planning* (2nd ed., pp. 53-108). Wiebelsheim: Limpert.

Mattes, K., Manzer, S., Schaffert, N., Reischmann, M. & Boehmert, W. (2016). Effects of non-oarside-arm pull on the forces at the handle and foot-stretcher in sweep-rowing. *International Journal of Sport and Human Performance*, 4 (1), 1-14.

Mattes, K., Schaffert, N., Manzer, S. & Böhmert, E. (2015). Non-oarside arm pull to increase the propulsion in sweep oar rowing. *International Journal of Performance Analysis in Sport*, 15 (3), 1124-1134.

Newlands, C., Reid, D. & Parmar, P. (2015). The prevalence, incidence and severity of low back pain among international-level rowers. *British Journal of Sports Medicine*, 49 (14), 951-956 (doi: 10.1136/bjsports-2014-093889).

Parkin, S., Nowicky, A. V., Rutherford, O. M. & McGregor, A. H. (2001). Do oarsmen have asymmetries in the strength of their back and leg muscles? *Journal of Sports Sciences*, 19 (7), 521-526 (doi: 10.1080/026404101750238971).

Riganas, C. S., Vrabas, I. S., Papaevangelou, E. & Mandroukas, K. (2010). Isokinetic strength and joint mobility asymmetries in oarside experienced oarsmen. *The Journal of Strength & Conditioning Research*, 24 (11), 3166-3172.

Robinson, R. O., Herzog, W. & Nigg, B. M. (1987). Use of force platform variables to quantify the effects of chiropractic manipulation on gait symmetry. *Journal of Manipulative and Physiological Therapeutics*, 10 (4), 172-176.

Sinclair, P., Greene, A. & Smith, R. (2009). The effects of horizontal and vertical forces on single scull boat orientation while rowing. *27 International Conference on Biomechanics in Sports*, 1 (1), 1-4.

Thompson, P. (2005). *Sculling. Training, Technique & Performance*. Ramsbury: Crowood.

Wilson, F., Gissane, C., Gormley, J. & Simms, C. (2010). A 12-month prospective cohort study of injury in international rowers. *British Journal of Sports Medicine*, 44 (3), 207-214 (doi: 10.1136/bjism.2008.048561).

Korrespondenzadresse

Stefanie Manzer, FB Bewegungswissenschaft, Mollerstraße 2, 20148 Hamburg
E-Mail: stefanie.manzer@uni-hamburg.de