

## 18. POUŽITÁ LITERATURA

- Aagaard, P., Simonsen, E. B., Magnusson, S. P., Larsson, B., & Dyhre-Poulsen, P. (1998). A New Concept For Isokinetic Hamstring: Quadriceps Muscle Strength Ratio. *Am J Sports Med*, 26(2), 231-237.
- Aagaard, P., Simonsen, E. B., Trolle, M., Bangsbo, J., & Klausen, K. (1995). Isokinetic hamstring/quadriceps strength ratio: influence from joint angular velocity, gravity correction and contraction mode. *Acta Physiol Scan*, 154(4), 421-427.
- Akima, H., Kubo, K., Kanehisa, H., Suzuki, Y., Gunji, A., & Fukunaga, T. (2000). Leg-press resistance training during 20 days of 6 head-down-tilt bed rest prevents muscle deconditioning. *Eur J Appl Physiol*, 82(1), 30-38.
- Alkjær, T., Simonsen, E. B., Magnusson, S. P., Aagaard, H., & Dyhre-Poulsen, P. (2002). Differences in the movement pattern of a forward lunge in two types of anterior cruciate ligament deficient patients: copers and non-copers. *Clin Biomech*, 17(8), 586-593.
- Alkjær, T., Simonsen, E. B., Peter Magnusson, S., Aagaard, H., & Dyhre-Poulsen, P. (2002). Differences in the movement pattern of a forward lunge in two types of anterior cruciate ligament deficient patients: copers and non-copers. *Clin Biomech*, 17(8), 586-593.
- Alkner, B. A., Tesch, P. A., & Berg, H. E. (2000). Quadriceps EMG/force relationship in knee extension and leg press. *Med Sci Sports Exerc*, 32(2), 459-463.
- Andersen, L. L., Andersen, J. L., Magnusson, S. P., Suetta, C., Madsen, J. L., Christensen, L. R., & Aagaard, P. (2005). Changes in the human muscle force-velocity relationship in response to resistance training and subsequent detraining. *J Appl Physiol*, 99(1), 87-94.
- Andersen, L. L., Magnusson, S. P., Nielsen, M., Haleem, J., Poulsen, K., & Aagaard, P. (2006). Neuromuscular Activation in Conventional Therapeutic Exercises and Heavy Resistance Exercises: Implications for Rehabilitation. *Phys Ther*, 86(5), 683-697.
- Arnason, A., Andersen, T., Holme, I., Engebretsen, L., & Bahr, R. (2008). Prevention of hamstring strains in elite soccer: an intervention study. *Scan J Med Sci Sports*, 18(1), 40-48.
- Askling, C., Karlsson, J., & Thorstensson, A. (2003). Hamstring injury occurrence in elite soccer players after preseason strength training with eccentric overload. *Scan J Med Sci Sports*, 13(4), 244-250.
- Ayala, F., De Ste Croix, M., Sainz de Baranda, P., & Santonja, F. (2012). Absolute reliability of hamstring to quadriceps strength imbalance ratios calculated using peak torque, joint angle-specific torque and joint ROM-specific torque values. *Int J Sports Med*, 33,
- Ayotte, N. W., Stetts, D. M., Keenan, G., & Greenway, E. H. (2007). Electromyographical analysis of selected lower extremity muscles during 5 unilateral weight-bearing exercises. *J Orthop Sports Phys Ther*, 37, (2), 48-55.
- Baechele, T. R., Earle, R. W., & Wathen, D. (2000). Resistance training. In N. S. C. Association (Ed.), *Essentials of strength training and conditioning* (2nd Edition ed.). Champaign IL: Human Kinetics. ISBN:1-4504-1168-2
- Bagshaw, C. R. (1993). *Muscle contraction*: Springer Science & Business Media. ISBN: 0-412-40370-6

- Bahr, R., & Krosshaug, T. (2005). Understanding injury mechanisms: A key component of preventing injuries in sport. *Br J Sports Med*, 39(6), 324-329.
- Baker, D., & Newton, R. U. (2005). Acute effect on power output of alternating an agonist and antagonist muscle exercise during complex training. *J Strength Cond Res*, 19(1), 202-205.
- Balsamo, S., Tibana, R. A., da Cunha Nascimento, D., de Farias, G. L., Petruccelli, Z., de Santana, F. d. S., . . . de Souza, J. C. (2012). Exercise order affects the total training volume and the ratings of perceived exertion in response to a super-set resistance training session. *Int J Gener Med*, 5, 123.
- Bandholm, T., Thorborg, K., Lunn, T. H., Kehlet, H., & Jakobsen, T. L. (2014). Knee Pain during Strength Training Shortly following Fast-Track Total Knee Arthroplasty: A Cross-Sectional Study. *PLoS ONE*, 9(3), e91107.
- Barnett, C., Kippers, V., & Turner, P. (1995). Effects of Variations of the Bench Press Exercise on the EMG Activity of Five Shoulder Muscles. *J Strength Cond Res*, 9(4), 222-227.
- Basmajian, J. V., & De Luca, C. J. (1985). *Muscles alive: their functions revealed by electromyography*: Williams & Wilkins. ISBN: 068300414X
- Begum, G., Cunliffe, A., & Leveritt, M. (2005). Physiological role of carnosine in contracting muscle. *Int J Sport Nutr Exerc Metab*, 15(5), 493-514.
- Bennell, K., Duncan, M., Cowan, S., McConnell, J., Hodges, P., & Crossley, K. (2010). Effects of vastus medialis oblique retraining versus general quadriceps strengthening on vasti onset. *Med Sci Sports Exerc*, 42(5), 856-864.
- Bigland, B., & Lippold, O. (1954). The relation between force, velocity and integrated electrical activity in human muscles. *Journal Physiol*, 123(1), 214.
- Bird, S. P., Tarpinning, K. M., & Marino, F. E. (2005). Designing resistance training programmes to enhance muscular fitness. *Sports Med*, 35(10), 841-851.
- Bohannon, R. W. (1997). Reference values for extremity muscle strength obtained by hand-held dynamometry from adults aged 20 to 79 years. *Arch Phys Med Rehabil*, 78(1), 26-32.
- Bohannon, R. W. (1997). Reference values for extremity muscle strength obtained by hand-held dynamometry from adults aged 20 to 79 years. *Arch Phys Med Rehabil*, 78(1), 26-32.
- Bolgia, L. A., & Uhl, T. L. (2005). Electromyographic analysis of hip rehabilitation exercises in a group of healthy subjects. *J Orthop Sports Phys Ther*, 35(8), 487-494.
- Bolgia, L. A., & Uhl, T. L. (2007). Reliability of electromyographic normalization methods for evaluating the hip musculature. *J Electromyogr Kinesiol*, 17(1), 102-111.
- Bompa, T., & Buzzichelli, C. (2015). *Periodization Training for Sports, 3E: Human kinetics*. ISBN: 0-88011-840-7
- Boren, K., Conrey, C., Le Coguic, J., Paprocki, L., Voight, M., & Robinson, T. K. (2011). Electromyographic analysis of gluteus medius and gluteus maximus during rehabilitation exercises. *Int J Sports Phys Ther*, 6(3), 206-223.
- Bouchard, C., Shephard, R. J., & Stephens, T. (1993). *Physical activity, fitness, and health: Physical activity, fitness, and health: International proceedings and consensus statement*, Human Kinetics Publishers.
- Boudreau, S. N., Dwyer, M. K., Mattacola, C. G., Lattermann, C., Uhl, T. L., & McKeon, J. M. (2009). Hip-muscle activation during the lunge, single-leg squat, and step-up-and-over exercises. *J Sport Rehabil*, 18(1), 91-103.

- Boullosa, D. A., Abreu, L., Beltrame, L. G., & Behm, D. G. (2013). The acute effect of different half squat set configurations on jump potentiation. *J Strength Cond Res*, 27(8), 2059-2066.
- Brennecke, A., Guimaraes, T. M., Leone, R., Cadarci, M., Mochizuki, L., Simao, R., . . . Serrao, J. C. (2009). Neuromuscular activity during bench press exercise performed with and without the preexhaustion method. *J Strength Cond Res*, 23(7), 1933-1940.
- Brown, J. C., Miller, C. J., Schweltnus, M. P., & Collins, M. (2011). Range of motion measurements diverge with increasing age for COL5A1 genotypes. *Scand J Med Sci Sports*, 21(6), e266-272.
- Brown, J. M., Wickham, J. B., McAndrew, D. J., & Huang, X. F. (2007). Muscles within muscles: Coordination of 19 muscle segments within three shoulder muscles during isometric motor tasks. *J Electromyogr Kinesiol*, 17(1), 57-73.
- Brown LE, & Weir J. (2001). ASEP procedures recommendation I: Accurate assessment of muscular strength and power. *J Exerc Physiol - Online*(4), 1-21.
- Brown, L. E., & Weir, J. P. (2001). ASEP procedures recommendation I: Accurate assessment of muscular strength and power. *Journal of Exercise Physiology Online*, 4(3), 1-21.
- Brzycki, M. (1993). Strength testing - Predicting a one-rep max from a reps-to-fatigue. *Journal of Physical Education, Recreation and Dance*, 64(1), 88-90.
- Buchanan, P. A., & Vardaxis, V. G. (2009a). Lower-extremity strength profiles and gender-based classification of basketball players ages 9-22 years. *J Strength Cond Res*, 23(2), 406-419.
- Buchanan, P. A., & Vardaxis, V. G. (2009b). Lower-extremity strength profiles and gender-based classification of basketball players ages 9-22 years. *J Strength Condit Res*, 23(2), 406-419.
- Burden, A. (2010). How should we normalize electromyograms obtained from healthy participants? What we have learned from over 25years of research. *J Electromyogr Kinesiol*, 20(6), 1023-1035.
- Burnet, E. N., & Pidcoe, P. E. (2009). Isometric gluteus medius muscle torque and frontal plane pelvic motion during running. *J Sports Sci Med*, 8(2), 284-288.
- Cacchio, A., Don, R., Ranavolo, A., Guerra, E., McCaw, S. T., Procaccianti, R., . . . Santilli, V. (2008). Effects of 8-week strength training with two models of chest press machines on muscular activity pattern and strength. *J Electromyogr Kinesiol*, 18(4), 618-627.
- Calatayud, J., Borreani, S., Colado, J. C., Martin, F., Tella, V., & Andersen, L. L. (2015). Bench Press and Push-up at Comparable Levels of Muscle Activity Results in Similar Strength Gains. *J Strength Cond Res*, 29(1), 246-253.
- Calatayud, J., Vinstrup, J., Jakobsen, M. D., Sundstrup, E., Brandt, M., Jay, K., . . . Andersen, L. L. (2016). Importance of mind-muscle connection during progressive resistance training. *Eur J Applied Physiol*, 116(3), 527-533.
- Caldwell, G. E., Robertson, D. G. E., & Whittlesey, S. N. (2004). Forces and their measurement. *Research methods in biomechanics*, 73-102.
- Caldwell, L. S., Chaffin, D. B., Dukes-Dobos, F. N., Kroemer, K., Laubach, L. L., Snook, S. H., & Wasserman, D. E. (1974). A proposed standard procedure for static muscle strength testing. *The American Industrial Hygiene Association Journal*, 35(4), 201-206.

- Campos, G. E., Luecke, T. J., Wendeln, H. K., Toma, K., Hagerman, F. C., Murray, T. F., . . . Staron, R. S. (2002). Muscular adaptations in response to three different resistance-training regimens: specificity of repetition maximum training zones. *Eur J Appl Physiol*, 88(1), 50-60.
- Campos, Y. D. A. C., & Da Silva, S. F. (2014). Comparison of electromyographic activity during the bench press and barbell pullover exercises. *Motriz. Revista de Educacao Fisica*, 20(2), 200-205.
- Carlock, J. M., Smith, S. L., Hartman, M. J., Morris, R. T., Ciroslan, D. A., Pierce, K. C., . . . Stone, M. H. (2004). The relationship between vertical jump power estimates and weightlifting ability: a field-test approach. *J Strength Cond Res*, 18(3), 534-539.
- Castillo, F., Valverde, T., Morales, A., Pérez-Guerra, A., de León, F., & García-Manso, J. M. (2012). Maximum power, optimal load and optimal power spectrum for power training in upper-body (bench press): A review. *Revista Andaluza de Medicina del Deporte*, 5(1), 18-27.
- Cè, E., Rampichini, S., Venturelli, M., Limonta, E., Veicsteinas, A., & Esposito, F. (2015). Electromechanical delay components during relaxation after voluntary contraction: reliability and effects of fatigue. *Muscle Nerve*, 51(6), 907-915.
- Chan, A. Y., Lee, F. L., Wong, P., Wong, C. Y., & Yeung, S. S. (2001). Effects of knee joint angles and fatigue on the neuromuscular control of vastus medialis oblique and vastus lateralis muscle in humans. *Eur J Appl Physiol*, 84(1), 36-41.
- Chandler, T. J., & Brown, L. E. (2008). *Conditioning for strength and human performance*: Lippincott Williams & Wilkins. ISBN: 13-978-0-7817-4594-9.
- Chelly, M. S., Fathloun, M., Cherif, N., Amar, M. B., Tabka, Z., & Van Praagh, E. (2009). Effects of a back squat training program on leg power, jump, and sprint performances in junior soccer players. *J Strength Cond Res*, 23(8), 2241-2249.
- Chulvi, M. I., & Díaz, C. A. (2008). Efficacy and safety of the bench press exercise. Review. *Revista Internacional de Medicina y Ciencias de la Actividad Fisica y del Deporte*, 8(32), 338-352.
- Cichanowski, H. R., Schmitt, J. S., Johnson, R. J., & Neimuth, P. (2007). Hip strength in collegiate female athletes with patellofemoral pain. *Med Sci Sports Exer*, 39(8), 1227.
- Cichanowski, H. R., Schmitt, J. S., Johnson, R. J., & Niemuth, P. E. (2007). Hip strength in collegiate female athletes with patellofemoral pain. *Med Sci Sports Exerc*, 39(8), 1227-1232.
- Cieszczyk, P., Willard, K., Gronek, P., Zmijewski, P., Trybek, G., Gronek, J., . . . Lulińska-Kuklik, E. (2017). Are genes encoding proteoglycans really associated with the risk of anterior cruciate ligament rupture? *Biol Sport*, 34(2), 97-103.
- Clark, R. A., Humphries, B., Hohmann, E., & Bryant, A. L. (2011). The influence of variable range of motion training on neuromuscular performance and control of external loads. *J Strength Cond Res*, 25(3), 704-711.
- Clover, J. (2015). *Sports Medicine Essentials: Core concepts in athletic training & fitness instruction*: Cengage Learning. ISBN: 978-1-133-28124-5.
- Coelho, A. C., Cannon, D. T., Cao, R., Porszasz, J., Casaburi, R., Knorst, M. M., & Rossiter, H. B. (2015). Instantaneous quantification of skeletal muscle activation, power production, and fatigue during cycle ergometry. *J Appl Physiol*, 118(5), 646-654.

- Čoh, M., & Žvan, M. (2011). Biodynamic diagnostics of the Explosive Power of the Lower Extremities: A Case Study. *Acta Universitatis Carolinae – Kinantropologica*, 47(1), 6-10.
- Collins, M., Mokone, G. G., September, A. V., van der Merwe, L., & Schweltnus, M. P. (2009). The COL5A1 genotype is associated with range of motion measurements. *Scandinavian J Med Sci Sports*, 19(6), 803-810.
- Coombs, R., Garbutt, G., Gulick, D. T., Yoder, H. N., Barfield, W. R., Kirkendall, D. T., . . . McHugh, M. P. (2002). Developments in the use of the hamstrings/quadriceps ratio for the assessment of muscle balance. *J Sports Sci Med*, 1, 56-62.
- Cormie, P., McGuigan, M. R., & Newton, R. U. (2011). Developing maximal neuromuscular power. *Sports Med*, 41(1), 17-38.
- Correa, J. C., Negrao Filho, R. F., Bérzin, F., & Veiga, M. C. (2002). Electromyographic analysis of the extending muscles of the knee during functional activities. *Electromyogr Clin Neurophysiol*, 42(1), 45-50.
- Craib, M. W., Mitchell, V. A., Fields, K. B., Cooper, T. R., Hopewell, R., & Morgan, D. W. (1996). The association between flexibility and running economy in sub-elite male distance runners. *Med Sci Sports Exerc*, 28(6), 737-743.
- Crossley, K., Bennell, K., Green, S., & McConnell, J. (2001). A Systematic Review of Physical Interventions for Patellofemoral Pain Syndrome. *Clin J Sport Med*, 11(2), 103-110.
- Danneskiold-Samsøe, B., Bartels, E. M., Bulow, P. M., Lund, H., Stockmarr, A., Holm, C. C., . . . Bliddal, H. (2009). Isokinetic and isometric muscle strength in a healthy population with special reference to age and gender. *Acta Physiol (Oxf)*, 197 Suppl 673, 1-68.
- Danneskiold-Samsøe, B., Bartels, E. M., Bülow, P. M., Lund, H., Stockmarr, A., Holm, C. C., . . . Bliddal, H. (2009). Isokinetic and isometric muscle strength in a healthy population with special reference to age and gender. *Acta Physiol (Oxf)*, 197, 1-68.
- Danneskiold-Samsøe, B., Bartels, E., Bülow, P., Lund, H., Stockmarr, A., Holm, C., . . . Bliddal, H. (2009). Isokinetic and isometric muscle strength in a healthy population with special reference to age and gender. *Acta Physiol*, 197(s673), 1-68.
- Dasteridis, G., Pilianidis, T., Mantzouranis, N., & Aggelousis, N. (2012a). The effects of athletics training on isometric strength and EMG activity in adolescent athletes. *Biology of Exercise*, 8(1).
- Dauty, M., Potiron-Josse, M., & Rochcongar, P. (2003). Identification of previous hamstring muscle injury by isokinetic concentric and eccentric torque measurement in elite soccer player. *Isokinetics and Exercise Science*, 11(3), 139-144.
- Davis, R. B., Öunpuu, S., Tyburski, D., & Gage, J. R. (1991). A gait analysis data collection and reduction technique. *Hum Mov Sci*, 10(5), 575-587.
- de França, H. S., Branco, P. A. N., Guedes Junior, D. P., Gentil, P., Steele, J., & Teixeira, C. V. L. S. (2015). The effects of adding single-joint exercises to a multi-joint exercise resistance training program on upper body muscle strength and size in trained men. *Appl Physiol Nutr Metabol*, 40(8), 822-826.
- de Salles, B. F., Simao, R., Miranda, F., da Silva Novaes, J., Lemos, A., & Willardson, J. M. (2009). Rest interval between sets in strength training. *Sports Med*, 39(9), 765-777.