

REFERENCES

1. Schultz AB, Alexander NB, Ashton-Miller JA. Biomechanical analyses of rising from a chair. *J Biomech* 1992; 25: 1383-91.
2. Wretenberg P, Arborelius UP. Power and work produced in different leg muscle groups when rising from a chair. *Eur J Appl Physiol Occup Physiol* 1994; 68: 413-7.
3. Deones VL, Wiley SC, Worrell T. Assessment of quadriceps muscle performance by a hand-held dynamometer and an isokinetic dynamometer. *J Orthop Sports Phys Ther* 1994; 20: 296-301.
4. Corrigan D, Bohannon RW. Relationship between knee extension force and stand-up performance in community-dwelling elderly women. *Arch Phys Med Rehabil* 2001; 82: 1666-72.
5. Csuka M, McCarty DJ. Simple method for measurement of lower extremity muscle strength. *Am J Med* 1985; 78: 77-81.
6. Takai Y, Ohta M, Akagi R, Kanehisa H, Kawakami Y, Fukunaga T. Sit-to-stand test to evaluate knee extensor muscle size and strength in the elderly: a novel approach. *J Physiol Anthropol* 2009; 28: 123-8.
7. Jones CJ, Rikli RE, Beam WC. A 30-s chair-stand test as a measure of lower body strength in community-residing older adults. *Res Q Exerc Sport* 1999; 70: 113-9.

8. Macfarlane DJ, Chou KL, Cheng YH, Chi I. Validity and normative data for thirty-second chair stand test in elderly community-dwelling hong kong chinese. *Am J Hum Biol* 2006; 18: 418-21.
9. McCarthy EK, Hovrvat MA, Holsberg PA, Wisenbaker JM. Repeated chair stands as a measure of lower limb strength in sexagenarian women. *J Gerontol* 2004; 59A: 1207-12.
10. Netz Y, Ayalon M, Dunsky A, Alexander N. 'The multiple-sit-to-stand' field test for older adults: what does it measure. *Gerontology* 2004; 50: 121-6.
11. Bohannon RW. Alternatives for measuring knee extension strength of the elderly at home. *Clin Rehabil* 1998; 12: 434-40.
12. Roebroeck ME, Doorenbosch CAM, Harlaar J, Jacobs R, Lankhorst GJ. Biomechanics and muscular activity during sit-to-stand transfer. *Clin Biomech* 1994; 9: 235-44.
13. Nuzik S, Lamb R, VanSant A, Hirt S. Sit-to-stand movement pattern. A kinematic study. *Phys Ther* 1986; 66: 1708-13.
14. Schenkman M, Berger RA, Riley PO, Mann RW, Hodge WA. Whole-body movements during rising to standing from sitting. *Phys Ther* 1990; 70: 638-51.
15. Janssen WG, Bussmann HB, Stam HJ. Determinants of the sit-to-stand movement: a review. *Phys Ther* 2002; 82: 866-79.
16. Shepherd RB, Koh HP. Some biomechanical consequences of varying foot placement in sit-to-stand in young women. *Scand J Rehabil Med* 1996; 28: 79-88.
17. Guyton AC, Hall JE. Textbook of medical physiology. 9th ed. United States of America: Saunders company; 1996.

18. Vander A, Sherman J, Luciano D. Human physiology. 8th ed. New York: McGraw-Hill; 2001.
19. Degens H, Erskine RM, Morse CI. Disproportionate changes in skeletal muscle strength and size with resistance training and ageing. *J Musculoskelet Neuronal Interact* 2009; 9: 123-9.
20. Khemlani MM, Carr JH, Crosbie WJ. Muscle synergies and joint linkages in sit-to-stand under two initial foot positions. *Clin Biomech (Bristol, Avon)* 1999; 14: 236-46.
21. Allen C, Harper V. Laboratory manual for anatomy and physiology. United States of America: John Wiley & Sons, Inc.; 2003.
22. Rarey KE, Romrell LJ, Pawlina W, Rosenberg JJ. Human anatomy. United States of America: Gold standard multimedia Inc; 1995.
23. Anatomy of the lower extremity muscles. [Online]; Available from: http://en.wikipedia.org/wiki/Gluteal_muscles [2010, July 5].
24. Human Anatomy Lab: Resources. [Online]; Available from: <http://www.colorado.edu/intphys/iphys3415/resources.html> [2010, July 5].
25. Braith RW, Graves JE, Leggett SH, Pollock ML. Effect of training on the relationship between maximal and submaximal strength. *Med Sci Sports Exerc* 1993; 25: 132-8.
26. Allaire J, Maltais F, Doyon J-F, Noel M, LeBlanc P, Carrier G, et al. Peripheral muscle endurance and the oxidative profile of the quadriceps in patients with COPD. *Thorax* 2004; 59: 673-8.
27. The American journal of sport medicine. [Online]; Available from: <http://ajs.sagepub.com/content/34/3/370/F1.large.jpg> [2010, July 5].

28. Con-trex MJ user's guide and software manual. Switzerland: CMV AG; 1996.
29. Bennell K, Wajswelner H, Lew P, Schall-Riaucour A, Leslie S, Plan D. Isokinetics strength testing does not predict hamstring injury in Australian Rules footballers. *Br J Sports Med* 1998; 32: 309-14.
30. Kawabata Y, Senda M, Oka T, Yagata Y, Takahara Y, Nagashima H, et al. Measurement of fatigue in knee flexor and extensor muscles. *Acta Med Okayama* 2000; 54: 85-90.
31. Portney LG, Watkins MP. Foundation of clinical research applications to practice. 2nd ed. United States of America: Julie Alexander; 2000.
32. Yamada T, Demura S. Influence of the relative difference in chair seat height according to different lower thigh length on floor reaction force and lower-limb strength during sit-to-stand movement. *J Physiol Anthropol Appl Human Sci* 2004; 23: 197-203.
33. Hall JG, Froster-Iskenius UG, Allanson JE. Handbook of normal physical measurements. Oxford University press. USA: Oxford Medical Publications; 1990.
34. Arangio GA, Chen C, Kalady M, Reed JF. Thigh muscle size and strength after anterior cruciate ligament reconstruction and rehabilitation. *J Orthop Sports Phys Ther* 1997; 26: 238-43.
35. Ferrucci L, Guralnik JM, Buchner DM, et al. Departures from linearity in the relationship between measures of muscular strength and physical performance of the lower extremities, the woman's health and aging study. *J Gerontol A Biol Sci Med* 1997; 52: M275-85