

REFERENCER til artikel i Dansk Sportsmedicin nr. 4, 2007:

"STYRKETRÆNING - hvordan reagerer humant væv?"

Af professor, PhD Per Aagaard

1. Aagaard P. Training-induced changes in neural function. *Exerc. Sports Sci. Reviews* 31, 61-67, 2003
2. Aagaard P. Making muscles stronger: Exercise, Nutrition, Drugs. *J. Musculoskel. Neuron. Interact.* 4, 165-174, 2004
3. Aagaard P, Bennekou M, Larsson B, Andersen JL, Olesen J, Crameri R, Magnusson PS, Kjaer M. Resistance Training Leads to Altered Muscle Fiber Type Composition and Enhanced Long-term Cycling Performance in Elite Competitive Cyclists. *Med. Sci. Sports Exerc.* 39(5) Suppl, S448-449, 2007 (abstract)
4. Aagaard P, Thorstensson A. Neuromuscular aspects of exercise: adaptive responses evoked by strength training. Kap. 1.4 i *Textbook of Sports Medicine* (Eds Kjær M et al), Blackwell, pp. 70-106, 2003
5. Andersen JL, Aagaard P. Myosin heavy chain IIX overshooting in human skeletal muscle. *Muscle & Nerve* 23, 1095-1104, 2000
6. Aagaard P, Simonsen EB, Andersen JL, Magnusson P, Bojsen-Møller F, Dyhre-Poulsen P. Antagonist muscle coactivation during isokinetic knee extension. *Scand. J. Med. Sci. Sports* 10, 58-67, 2000b
7. Aagaard P, Simonsen EB, Andersen JL, Magnusson P, Halkjær-Kristensen J, Dyhre-Poulsen P. Neural inhibition during maximal eccentric and concentric quadriceps contraction: Effects of resistance training. *J. Appl. Physiol.* 89, 2249-2257, 2000a
8. Aagaard P, Simonsen EB, Magnusson P, Andersen JL, Dyhre-Poulsen P. Increased rate of force development and neural drive of human skeletal muscle following resistance training. *J. Appl. Physiol.* 93, 1318-1326, 2002a
9. Aagaard P, Simonsen EB, Magnusson P, Andersen JL, Dyhre-Poulsen P. Neural adaptation to resistance training: Changes in evoked V-wave and H-reflex responses. *J. Appl. Physiol.* 92, 2309-2318, 2002b
10. Alfredson H, Pietila T, Jonsson P, Lorentzon R. Heavy-load eccentric calf muscle training for the treatment of chronic Achilles tendinosis. *Am. J. Sports Med.* 26, 360-366, 1998

11. Andersen LL, Andersen JL, Magnusson SP, Aagaard P. Neuromuscular adaptations to detraining following resistance training in previously untrained subjects. *Eur. J. Appl. Physiol.* 93, 511-518, 2005a
12. Andersen LL, Tufekovic G, Zebis MK, Cramer R, Verlaan G, Kjær M, Suetta C, Magnusson SP, Aagaard P. The effect of resistance training combined with timed ingestion of protein on muscle fiber size and muscle strength. *Metabolism Clin. Exp.* 54, 151-156, 2005b
13. Caserotti P, Aagaard P, Larsen JB, Puggaard P. Explosive heavy-resistance strength training in old and very old adults: Adaptations in muscle force, power, and rate of force development. *Scand. J. Med. Sci. Sports* in press, 2007
14. Croisier JL, Forthomme B, Namurois MH, Vanderthommen M, Crielaard JM. Hamstring muscle strain recurrence and strength performance disorders. *Am. J. Sports Med.* 30, 199-203, 2002
15. Enoka RM. *Neuromechanics of human movement; Human Kinetics, Champaign, IL, 2002*
16. Esmarck B, Andersen JL, Olsen S, Mizuno M, Kjaer M. Timing of protein intake after resistance exercise bouts is paramount for muscle hypertrophy over a 12-week training period in elderly. *J. Physiol.* 535, 301-311, 2001
17. Ettinger WJ, Burns R, Messier S, et al. A randomized trial comparing aerobic exercise and resistance exercise with a health education program in older adults with knee osteoarthritis. *JAMA* 277, 25-31, 1997
18. Ferri A, Scaglioni G, Pousson M, Capodaglio P, Van Hoecke J, Narici MV. Strength and power changes of
19. the human plantar flexors and knee extensors in response to resistance training in old age. *Acta Physiol.*
20. *Scand.* 177, 69-78, 2003
21. Folland JP, Williams AG. The Adaptations to Strength Training: Morphological and Neurological Contributions to Increased Strength. *Sports Med.* 37, 145-168, 2007
22. Frontera WR, Meredith CN, O'Reilly KP, Knuttgen HG, Evans WJ. Strength conditioning in older men: skeletal muscle hypertrophy and improved function. *J. Appl. Physiol.* 64, 1038-1044, 1988
23. Fry AC. The Role of Resistance Exercise Intensity on Muscle Fibre Adaptations. *Sports Med* 34, 663-679, 2004

24. Häkkinen K, Alen M, Komi PV. Changes in isometric force and relaxation time, electromyographic and muscle fibre characteristics of human skeletal muscle during strength training and detraining. *Acta Physiol. Scand.* 125, 573-585, 1985
25. Häkkinen K, Newton RU, Gordon SE, McCormick M, Volek JS, Nindl BC, Gotshalk LA, Campbell WW,
26. Evans WJ, Häkkinen A, Humphries BJ, Kraemer WJ. Changes in muscle morphology, electromyographic
27. activity, and force production characteristics during progressive strength training in young and older men. *J. Gerontol.* 53, B415-B423, 1998
29. Hansen P, Bojsen-Moller J, Aagaard P, Kjaer M, Magnusson SP. Mechanical properties of the human patellar tendon, in vivo. *Clin. Biomech.* 21, 54-58, 2005
30. Harridge SD, Kryger A, Stensgaard A. Knee extensor strength, activation, and size in very elderly people following strength training. *Muscle Nerve* 22, 831-839, 1999
31. Hather BM, Tesch P, Buchanan P, Dudley GA. Influence of eccentric actions on skeletal muscle adaptations to resistance training. *Acta Physiol. Scand.* 143, 177-185, 1991
32. Hickson RC, Dvorak BA, Gorostiaga EM, Kurowski TT, Foster C. Potential for strength and endurance training to amplify endurance performance. *J. Appl. Physiol.* 65, 2285-2290, 1988
33. Hurley BF, Roth M. Strength Training in the Elderly: Effects on Risk Factors for Age-Related Diseases. *Sports Med.* 30, 249-268, 2000
34. Jones DA, Rutherford OM. Human muscle strength training: the effects of three different regimens and the
35. nature of the resultant changes. *J. Physiol.* 391, 1-11, 1987
36. Jonsson P, Alfredson H. Superior results with eccentric compared to concentric quadriceps training in patients with jumper's knee: a prospective randomised study. *Br. J. Sports Med.* 39, 847-850, 2005
37. Kamen G, Knight CA. Training-Related Adaptations in Motor Unit Discharge Rate in Young and Older Adults. *J. Gerontol. Med. Sci.* 59A, 1334-1338, 2004
38. Klinge K, Magnusson SP, Simonsen EB, Aagaard P, Klausen K, Kjaer M. The effect of strength and flexibility training on skeletal muscle EMG activity, stiffness and viscoelastic stress relaxation. *Am. J. Sports. Med.* 25, 710-716, 1997

39. Kongsgaard M, Reitelseder S, Pedersen TG, Holm L, Aagaard P, Kjaer M, Magnusson SP. Region specific patellar tendon hypertrophy in humans following resistance training. *Acta Physiol. Scand.* 191, 111-121 2007
40. Kraemer WJ, Patton JF, Gordon SE, Harman EA, Deschenes MR, Reynolds K, Newton RU, Triplett NT, Dziados JE. Compatibility of high-intensity strength and endurance training on hormonal and skeletal muscle adaptations. *J. Appl. Physiol.* 78, 976-989, 1995
41. Kryger AI, Andersen JL. Resistance training in the oldest old: consequences for muscle strength, fiber types, fiber size, and MHC isoforms. *Scand. J. Med. Sci. Sports* 2007, In Press
42. Kubo K, Kanehisa H, Fukunaga T. Effects of resistance and stretching training programmes on the viscoelastic properties of human tendon structures in vivo. *J. Physiol.* 538, 219–226, 2002
43. Kubo K, Kanehisa H, Miyatani M, Tachi M, Fukunaga T. Effect of low-load resistance training on the tendon properties in middle-aged and elderly women. *Acta Physiol. Scand.* 178, 25–32, 2003
44. Langberg H, Ellingsgaard H, Madsen T, Jansson J, Magnusson P, Aagaard P, Kjaer M. Eccentric rehabilitation exercise increases peritendinous type I collagen synthesis in humans with Achilles tendinosis. *Scand. J. Med. Sci. Sports* 17(1), 61-66, 2007
45. Layne JE, Nelson ME. The effects of progressive resistance training on bone density: a review. *Med. Sci. Sports Exerc.* 31, 25-30, 1999
46. Martyn-St James M, Carroll S. High-intensity resistance training and postmenopausal bone loss: a meta-analysis. *Osteoporos Int.* 17, 1225–1240, 2006
47. McCall GE, Byrnes WC, Dickinson A, Pattany PM, Fleck SJ. Muscle fiber hypertrophy, hyperplasia, and capillary density in college men after resistance training. *J. Appl. Physiol.* 81, 2004-2012, 1996
48. Menkes A, Mazel S, Redmond R, et al. Strength training increases regional bone mineral density and bone remodeling in middle-aged and older men. *J. Appl. Physiol.* 199, 2478-2484, 1993
49. Miller BF, Olesen JL, Hansen M, Døssing S, Cramer RM, Welling RJ, Langberg H, Flyvbjerg A, Kjaer M, Babraj JA, Smith K, Rennie MJ. Coordinated collagen and muscle protein synthesis in human patella tendon and quadriceps muscle after exercise. *J. Physiol.* 567, 1021-1033, 2005

50. Narici MV, Hoppeler H, Kayser B, Landoni L, Claassen H, Gavardi C, Conti M, Cerretelli P. Human quadriceps cross-sectional area, torque and neural activation during 6 months strength training. *Acta Physiol Scand* 157, 175-186, 1996
51. Narici MV, Reeves ND, Morse CI, Maganaris CN. Muscular adaptations to resistance exercise in the elderly. *J. Musculoskel. Neuron. Interact.* 4, 161-164, 2004
52. Narici MV, Roig S, Landomi L, Minetti AE, Cerretelli P. Changes in force, cross-sectional area and neural activation during strength training and detraining of the human quadriceps. *Eur. J. Appl. Physiol.* 59, 310-319, 1989
53. Reeves ND, Narici MV, Maganaris CN. Myotendinous plasticity to ageing and resistance exercise in humans. *Exp. Physiol.* 91, 483-498, 2006
54. Reeves ND, Maganaris CN, Narici MV. Effect of strength training on human patella tendon mechanical properties of older individuals. *J. Physiol.* 548, 971-981, 2003a
55. Reeves ND, Narici MV, Maganaris CN. Strength training alters the viscoelastic properties of tendons in elderly humans. *Muscle Nerve* 28, 74-81, 2003b
56. Ryan A, Treuth M, Rubin M, et al. Effects of strength training on bone mineral density: hormonal and bone turnover relationships. *J. Appl. Physiol.* 77, 1678-1684, 1994
57. Sale DG. Neural adaption to strength training. *Strength and Power in Sports* (Ed Komi PV). IOC Medical Commission, Blackwell Scientific Publications, Oxford, pp. 249-265, 1992
58. Schilke JM, Johnson GO, Housh TJ, et al. Effects of muscle strength training on the functional status of patients with osteoarthritis of the knee joint. *Nurs. Res.* 45, 68-72, 1996
59. Staron RS, Leonardi MJ, Karapondo DL, Malicky ES, Falkel JE, Hagerman FC, Hikida RS. Strength and skeletal muscle adaptations in heavy-resistance trained women after detraining and retraining. *J. Appl. Physiol.* 70, 631-640, 1991
60. Suetta C, Aagaard P, Rosted A, Jakobsen AK, Duus B, Kjaer M, Magnusson SP. Training-induced changes in muscle CSA, muscle strength, EMG and rate of force development in elderly subjects after long-term unilateral disuse. *J. Appl. Physiol.* 97, 1954-1961, 2004
61. Suetta C, Magnusson SP, Beyer N, Kjaer M. Effect of strength training on muscle function in elderly hospitalized patients. *Scand. J. Med. Sci. Sports* 17, 464-472, 2007
62. Suominen H. Muscle training for bone strength. *Aging Clin. Exp. Res.* 18, 85-93, 2006

63. Van Cutsem M, Duchateau J, Hainaut K. Changes in single motor unit behavior contribute to the increase in contraction speed after dynamic training in humans. *J. Physiol.* 513.1, 295-305, 1998