

Adams M. (1998). *Exercise Physiology – Laboratory Manual*. 3° Ed. McGraw-Hill.

Anholm J., Johnson R., Ramanathan M. Changes in cardiac output during sustained maximal ventilation in humans. *J Appl Physiol* 1987, 63: 181-187.

Arendt-Nielsen L., Mills K. The relationship between mean power frequency of the EMG spectrum and muscle fiber conduction velocity. *Electroencephalogr Clin Neurophysiol* 1985; 60: 130-4.

Armstrong N., Welsman J., Winsley R. Is peak VO₂ a maximal index of children's aerobic fitness? *International Journal of Sports Medicine* 1996, 17 (5): 356-359.

Arnaud S., Zattara-Hartmann M., Tomei C., Jammes Y. Correlations between muscle metabolism and changes in M-Wave and surface electromyogram: dynamic constant load leg exercise in untrained subjects. *Muscle Nerve* 1997, 20: 1197-1199.

Barstow T. Characterization of VO₂ kinetics during heavy exercise. *Med Sci Sports Exerc* 1994, 26: 1327-1334.

Barstow T., Jones A., Nguyen P., Casaburi R. Influence of muscle fibre type and fitness on the oxygen uptake/power output slope during incremental exercise in humans. *Exp Physiol* 2000, 85: 109-116.

Basmajian J., De Luca C. (1985). *Muscle alive: their functions revealed by electromyography*. Baltimore: Williams e Wilkins.

Bearden S., Moffatt R. Leg electromyography and the VO₂-power relationship during ergometry. *Med Sci Sports Exerc* 2001, 33, (7): 1241-1245.

Bigland-Ritchie B., Woods J. Integrated EMG and oxygen uptake during dynamic contractions of human muscles. *J Appl Physiol* 1974, 36: 475-479.

Bigland-Ritchie, B.; Lippold, O .C. J. The relation between force, velocity and integrated electrical activity in human muscles. *Journal of Physiology* 1954, 123: 214-24.

Borg G. (1982). Psychophysical bases of perceived exertion. *Med Sci Sports Exerc* 1982, 14 (5): 377-381.

Borrani F., Candau R., Millet G. Y., Perrey S., Fuchslocher J., Rouillon J.D. Is the VO₂ slow component dependent on progressive recruitment of fast-twitch fibers in trained runners? *J Appl Physiol* 2001, 90: 2212-2220.

Bouchard C., Malina R., Pérusse L. (1997). Genetics of fitness and physical performance. *Human Kinetics*.

Bouissou P., Estrade P., Goubel F., Guezennec C., Serrurier B. Surface EMG power spectrum and intramuscular pH in human vastus lateralis muscle during dynamic exercise. *J Appl Physiol* 1989, 67: 1245-1249.

Brooks G., Fahey T. (1984). *Exercise Physiology: human bioenergetics and its applications*. New York: John Wiley & Sons.

Burnley M., Doust J., Ball D., Jones A. Effects of prior heavy exercise on VO₂ kinetics during heavy exercise are related to changes in muscle activity. *J Appl Physiol* 2002, 93: 167-174.

Cairo J. (1992). Fisiologia del músculo. In Gallego, *Fisiologia de la actividad física e del deporte* (pp. 53-74). Madrid: McGraw-Hill.

Castelo J. (2002). *O exercício de treino desportivo*. Lisboa: Faculdade de Motricidade Humana.

Castelo J., Barreto H., Alves F., Santos P., Carvalho J., Vieira J. (2000). *Metodologia do treino desportivo*. Lisboa: Faculdade de Motricidade Humana.

Chicharro L. J., Vaquero F. A. (1995). Fisiología del Ejercicio. Editorial Médica Panamericana.

Coast J. et al. (1995). Exercise Physiology. McGraw-Hill.

Correia P. (1999). Anatomofisiologia. Tomo II. Função neuromuscular. Lisboa: Faculdade de Motricidade Humana.

Correia P., Santos P., Veloso A. (1993). Electromiografia. Lisboa: Faculdade de Motricidade Humana.

Costil L., Wilmore J. (1994). Physiology of sport and exercise. Human Kinetics.

Cottin F., Médigue C., Lepretre P., et al. Heart rate variability during exercise Performance below and above ventilatory threshold. Med Sci Sports Exerc 2004, 36 (4): 594-600.

Davis J. (1995). Direct determinations of aerobic power. In Maud J. P., Foster C., Physiological assessment of human fitness. Human Kinetics.

De Luca C, Knaflitz M. (1990). Surface EMG: What's new? Monograph of the Neuromuscular Research Center. Boston: Boston University.

Echternach J.L. (1994). Introduction to electromyography and nerve conduction testing. A laboratory manual. Virginia: Slack.

Enoka R., Stuart D. Neurobiology of muscle fatigue. J Appl Physiol 1992, 72: 1631-1648.

Ericson M., Crow M. On the biomechanics of cycling: a study of joint and muscle load during exercise on the bicycle ergometer. Scand J Rehabil 1986, 16: 1-43.

Essen B. Intramuscular substrate utilization during prolonged exercise. Ann NY Acad Sci 1977, 301: 30-44.

Farinatti P., Monteiro W. (1992). Fisiologia e avaliação funcional. Rio de Janeiro: Editors Sprint, Lda.

Farrell S., Ivy JL. Lactate acidosis and the increase in VE/VO₂ during incremental exercise. *J Appl Physiol* 1987, 62 (4): 1551-1555.

Ferrero J., Vaquero A. (1995). Consumo de oxigênio: concepto, bases fisiológicas y aplicaciones. In Chicharro J., Vaquero A., Fisiologia del Ejercicio (pp. 209-218). Madrid: Panamericana.

Fleck S., Kraemer W. (1997). Designing resistance training programs. 2ª Ed. Human Kinetics.

Fonseca G. (2003). A influência da cafeína no teste de Wingate acoplado ao registo electromiográfico. Coimbra: FCDEF – UC.

Foss L. M., Steven J. K. (1998). Fox's physiological basis for exercise and sport. 6ª Ed. McGraw- Hill.

Foss M., Keteyian S. (2000). Bases fisiológicas do exercício e do esporte. 6ª Ed. Guanabara-Koogan.

Fox S. (1999). Human Physiology. 6ª Ed. McGraw-Hill.

Gaesser G., Ward S., Baum V., Whipp B. Effects of infused epinephrine on slow phase of O₂ uptake kinetics during heavy exercise in humans. *J Appl Physiol* 1994, 77: 2413-2419.

Gallego J. (1992). Fisiologia de la actividad fisica y del deporte. Nova York: Interamericana – McGraw-Hill.

Gamet J., Garapon-Bar C., Goubel F. Surface electromyogram power spectrum in human quadriceps muscle during incremental exercise. *J Appl Physiol* 1993, 74: 2704-2710.

Gass G., McLellan T., Gass E. Effects of prolonged exercise at a similar percentage of maximal oxygen consumption in trained and untrained subjects. *Eur J Appl Physiol* 1991, 63: 430-435.

Glass C., Knowlton G. R., Sanjabi P. B., Sullivan J. J. Identifying the integrated electromiography threshold using different muscles during incremental cycling exercise. *J Sports Med* 1998, 38: 47-52.

Glass C., Knowlton G. R., Sanjabi P.B., Sullivan J.J. The effect of exercise induced glycogen depletion on the lactate, ventilatory and electromyographic thresholds. *J Sports Med* 1997, 37: 32-40.

Gunnar Borg (1998). Borg's perceived exertion and pain scales. *Human Kinetics*.

Guyton A. (1992). *Fisiologia humana e mecanismos das doenças*. 6ª Ed. Guanabara Koogan.

Guyton A., Hall J. (1997). *Fisiologia humana e mecanismos das doenças*. 6ª Ed. Guanabara Koogan.

Guyton A., Hall J. (1998). *Fisiologia humana e mecanismos das doenças*. 6ª Ed. Guanabara Koogan.

Guyton C. A., Hall E. J. (1996). *Tratado de fisiologia médica*. 9ª Ed. Guanabara Koogan.

Hagg G. Interpretation of EMG spectral alterations and alterations indexes at sustained contraction. *J Appl Physiol* 1992, 73: 1211-1217.

Hanon C., Thépaut-Mathieu C., Hausswirth C. Electromyogram as an indicator of neuromuscular fatigue during incremental exercise. *Eur J Appl Physiol* 1998, 78 (4): 315-323.

Hansen J., Casaburi R., Cooper D., Wasserman K. Oxygen uptake as related to work rate increment during cycle ergometer exercise. *Eur J Appl Physiol* 1998, 57: 140-145.

Hausswirth C., Brisswalter J., Vallier J., Smith D., Lepers R. Evolution of electromyographic signal, running economy, and perceived exertion during different prolonged exercises. *Int J Sports Med* 2000, 21 (6): 429-436.

Helal J. N., Guezennec C. Y., Goubel F. The aerobic-anaerobic transition: re-examination of the threshold concept including an electromyographic approach. *Eur J Appl Physiol* 1987, 56: 643-649.

Henson L. P., Whipp B. Fitness as a determinant of oxygen uptake response to constant-load exercise. *Eur J Appl Physiol* 1989, 59: 21-28.

Herman C., Nagelkirk P., Pivarnik J., Womack C. Regulating oxygen uptake during high-intensity exercise using heart rate and rating of perceived exertion. *Med Sci Sports Exerc* 2003, 35 (10): 1751-1754.

Holloszy J. Muscle metabolism during exercise. *Archives of Physical and Rehabilitation Medicine* 1982, 63: 231-34.

Hug F., Decherchi P., Marqueste T., Jammes Y. (2004). EMG versus oxygen uptake during cycling exercise in trained and untrained subjects. *J of Electromyography and Kinesiology*. 2004, 14: 187-195.

Hughes R., Clode M., Edwards R., Goodwin T., Jones N. Effect of inspired O₂ on cardiopulmonary and metabolic responses to exercise in man. *J Appl Physiol* 1968, 24: 336-347.

Jacob S., Lossow W., Francone C. (1982). *Anatomia e Fisiologia Humana*. Saunders Company.

James Y., Arbogast S., Faucher M., Montmayeur A., Tagliarini F., Robinet C. Interindividual variability of surface EMG changes during cycling exercise in healthy humans. *Clin Physiol* 2001, 21 (5): 556-560.

Jammes Y., Caquelard F., Badier M. Correlation between surface electromyogram, oxygen uptake and blood lactate concentration during dynamic leg exercises. *Respir Physiol* 1998, 112 (2): 167-174.

Jammes Y., Zattara-Hartmann M., Caquelard F., Arnaud S., Tomei C. Electromyographic changes in vastus lateralis during dynamic exercise. *Muscle Nerve* 1997, 20: 247-249.

Jansen R., Ament W., Verkerke G. J., Hof A. L. Median power frequency of the surface electromyogram and blood lactate concentration in incremental cycle ergometry. *Eur J Appl Physiol Occup Physiol* 1997, 75 (2): 102-108.

Jones A., Carter H., Doust J. A disproportionate increase in VO₂ coincident with lactate threshold during treadmill exercise. *Med Sci Sports Exerc* 1999, 31: 1299-1306.

Kadefors R. (1973). Myoelectric signal processing as an estimation problem. In J. E. Desmedt (Ed), *New developments in EMG and clinical neurophysiology* (pp. 519-552). Basel: Karger.

Kippers V. (1999). *Electromyography (EMG) – Principles and biological bases of EMG*. Australia: The University of Queensland.

Koopo K., Jones A., Bouckaert J. Effects of prior heavy arm and leg exercise on VO₂ kinetics during heavy leg exercise. *Eur J Appl Physiol* 2003, 88: 593-600.

Lagally K., Robertson R., Gallacher et al. Perceived exertion electromiography, and blood lactate during acute bouts of resistance exercise, *Med Sci Sports Exerc*, 34 (3): 552-559.

Laires M. (1997). *Bioquímica*. Lisboa: Faculdade de Motricidade Humana.

Lamarra N., Whipp B. (1995). Measurement of pulmonary gas exchange. In Maud J. Peter, Foster Carl, *Physiological assessment of human fitness*. Human Kinetics.

Léger L. (1996). Aerobic performance. In D. Docherty (Ed.), *Measurement in pediatric exercise science* (pp.183-223). Illinois: Human Kinetics.

Lucia A., Hoyos J., Chicharro J. L. The slow component of VO₂ in professional cyclists. *Br J Sports Med* 2000, 34: 367-372.

Lucía A., Rivero J., Pérez M., Serrano J., Calbet A., Santalla A., Chicharro J. Determinants of VO₂ Kinetics at high power outputs during a ramp exercise protocol. *Med Sci Sports Exerc* 2002, 34 (2): 326-331.

Lucia A., Sanchez O., Carvajal A., Chicharro J. L. Analysis of the aerobic-anaerobis transition in elite cyclists during incremental exercise with the use of electromyography. *Br J Sports Med* 1999, 33 (3): 178-185.

MacIntosh B., Esau S., Svedahl K. The lactate minimum test for cycling: Estimation of the maximal lactate steady state. *Can J Appl Physiol* 2002, 27 (3): 232-249.

Maud P., Foster C. (1995). *Physiological assessment of human fitness*. USA: Human Kinetics.

McArdle W., Katch F., Katch V. (1996). *Exercise Physiology*. 4^a Ed. USA: Williams and Wilkins.

McComas J. A. (1996). *Skeletal Muscle – Form and Function*. Human Kinetics.

McLeod W. (1973). EMG instrumentation in biomechanical studies: amplifiers, recorders, recorders and integrators. In J.E. Desmedt (Ed.), *New developments in electromyography and clinical neurophysiology* (pp. 511-518).

Miyashita M., Kanehisa H., Nemoto I. EMG related to anaerobic threshold. *J Sports Med* 1981, 21: 209-217.

Moritani T., De Vries H. A. Anaerobic threshold determination by surface electromyography. Re-examination of the relationship between the surface integrated electromyogram (iEMG) and force of isometric contraction. *Am J Phys Fitness* 1978, 57: 263-77.

Moritani T., Takaishi T., Matsumoto T. Determination of maximal power output at neuromuscular fatigue threshold. *J Appl Physiol* 1993, 74: 1729-1734.

Moritani T., Tanaka H., Yoshida T., Ishii C., Shindo M. Relationship between myoelectric signals and blood lactate during incremental forearm exercise. *Am J Phys Med* 1984, 63: 122-132.

Morrow J., Jackson A., Disch J., Mood D. (1995). *Measurement and evaluation in human performance*. Illinois: Human Kinetics.

Mortimer J., Magnusson R., Petersen I. Conduction velocity in ischemic muscle: effect on EMG frequency spectrum. *Am J Physiol* 1970, 219: 1324-1329.

Nagata A., Muro M., Moritani T., Yoshida T. Anaerobic threshold determination by blood lactate by myoelectric signals. *Am J Physiol* 1981, 31 (4): 585-597.

Neary J., Hall K., Bhambhani Y. Vastus medialis muscle oxygenation trends during a simulated 20-km cycle time trial. *Eur J Appl Physiol* 2001, 85: 427-433.

Newsholme E., Leech A. (1983). *Biochemistry for the medical sciences*. New York: John Wiley and Sons.

Nilsson J., Tesch P., Thorstensson A. Fatigue and EMG of repeated fast voluntary contractions in man. *Acta Physiol Scand* 1977, 101: 194-198.

Noble B., Borg G., Ceci R., Jacobs I., Kaiser P. A category-ratio perceived exertion scale: relationship to blood and muscle lactates and heart rate. *Med Sci Sports Exerc* 1983, 15: 523-528.

Noble B., Bruce J. (1986). *Physiology of exercise and sport*. Mosby.

Nunes L. (1996). *O organismo no esforço*. Lisboa: Caminho.

Perrey S., Candau R., Rouillo J. D., Hughson R. L. The effect of prolonged submaximal kinetics and ventilation during exercise in humans. *Eur J Appl Physiol* 2003, 89: 587-594.

Petrofsky J. Frequency and amplitude analysis of EMG during exercise on the bicycle ergometer. *Eur J Appl Physiol* 1979, 41: 1-15.

Pinheiro J. (1998). *Anatomia I e II – Textos de Apoio*. Coimbra: FCDEF-UC.

Pollock M., Wilmore J., Fox S. (1986) *Exercícios na saúde e na doença*. Rio de Janeiro: Medsi.

Poole D., Barstow T., Gaesser G., Willis W., Whipp B. Vo₂ slow component: physiological and functional significance. *Med. Sci Sports Exerc* 1994, 26: 1358.

Potvin J. R., Norman R. W. Quantification of erector spinae muscle fatigue during prolonged dynamic lifting tasks. *Eur J Appl Physiol* 1993, 67: 554-562.

Powers S., Howley E. (1997). *Fisiologia do exercício – teoria e aplicação ao condicionamento e ao desempenho*. 3ª Ed. USA: McGraw-Hill.

Pringle J. S., Jones A. M. Maximal lactate steady state, critical power and ENG during cycling. *Eur J Appl Physiol* 2002, 88 (3): 214-226.

Ribeiro B. (1992). *O treino do músculo*. Lisboa: Editorial Caminho.

Robergs A. R., Roberts O. S. (2000). *Fundamental principles of exercise physiology for fitness, performance and health*. McGraw-Hill Higher Education.

Roston W., Whipp B., Davis J., Cunningham D., Effros R., Wasserman K. Oxygen uptake kinetics and lactate concentration during exercise in humans. *Am Rev Respir Dis* 1987, 135: 1080-1084.

Rowland T. (1996). *Developmental Exercise Physiology*. Human Kinetics.

Sachuf C., Moffett D., Moffet S. (1990). *Human Physiology: Foundations and Frontiers*. Missouri: Times Mirror.

Saunders M., Evans E., Arngrimsson S., Allison J., Warren G., Cureton K. Muscle activation and the slow component rise in oxygen uptake during cycling. *Med Sci Sports Exerc* 2000, 32 (12): 2040-2046.

Scheuermann B. W., Hoetling B. D., Noble M. L., Barstow T. J. The slow component of O₂ uptake is not accompanied by changes in muscle EMG during repeated bouts of heavy exercise in humans. *J Physiol* 2001, 531: 245-256.

Seburn K. L., Sanderson D. J., Belcastro A. N., McKenzie D. C. Effect of manipulation of plasma lactate on integrated EMG during cycling. *Med Sci Sports Exerc* 1992, 24 (8): 911-916.

Seely R., Stephens T., Tate P. (1995). *Anatomy and Physiology*. Morby-year book. New York.

Shepard R. J. (1994). *Aerobic Fitness and Health*. USA: Human Kinetics Publishers.

Shinohara M., Moritani T. Increase in neuromuscular activity and oxygen uptake during heavy exercise. *Ann Physiol Anthropol* 1992, 11: 257-262.

Skinner J., McLellan T. The transition from aerobic to anaerobic metabolism. *Res Quart for Exer and Sport* 1980, 51 (1): 234-27.

Sobral F., Silva M. (1997). *Cineantropometria - Curso básico*. Coimbra: FCDEF-UC.

Stoudemire N., Wideman K., Pass C., Mcginnes G., Gaesser A., Weltman A. The validity of regulation blood lactate concentration during running by ratings of perceived exertion. *Med Sci Sports Exerc* 1996, 28: 490-495.

Takaishi T., Yasuda Y. Relationship between muscle fatigue and oxygen uptake during cycle ergometer exercise with different ramp slope increments. *J Appl Physiol* 1992, 65 (4): 335-339.

Takaishi T., Yasuda Y., Moritani T. Optimal pedalling rate estimated from neuromuscular fatigue for cyclists. *Med Sci Sports Exerc* 1996, 28 (12): 1492-1497.

Taylor A., Bronks R. Electromyographic correlates of the transition from aerobic to anaerobic metabolism in treadmill running. *Eur J Appl Physiol* 1994, 69: 508-515.

Thoden J. (1991). Testing aerobic power. In J. MacDougall, H. Wenger e H. Green (Eds.), *Physiological Testing of the High-Performance Athlete* (pp. 107-174). Illinois: Human Kinetics Books.

Vander A., Sherman J., Luciano D. (1998). *Human Physiology – The Mechanisms of Body Function* (7^a Ed.). USA: McGraw-Hill.

Viitasalo J., Luhtanen P., Rahkila P., Rusko H. Electromyographic activity related to aerobic and anaerobic threshold in ergometer bicycling. *Acta Physiol Scand* 1985, 124: 287-293.

Ward A., Ebbeling C., Ahlquist L. (1995). Indirect methods for estimation of aerobic power. In P. Maud e C. Foster (Eds.), *Physiological Assessment of Human Fitness* (pp.37-56). Illinois: Human Kinetics Books.

Westerblad H., Lannergren L. Slowing of relaxation during fatigue in single mouse muscle fibres. *Journal of Physiology* 1991, 434: 323-336.

Whipp J., Wasserman K. Oxygen uptake kinetics for various intensities of constant-load work. *J Appl Physiol* 1972, 33: 351-356.

Williams C. Children's and adolescents anaerobic performance during cycle ergometry. *Sports Medicine* 1997, 24 (4): 227-240.

Wilmore H. J., Costill L. D. (1994). *Physiology of Sport and Exercise*. Human Kinetics.

Wittekopf, G., Schaaf, E., Taubenheim H. Use of electromyography for quantification of local muscular fatigue following a known strength-endurance load. *Biomechanics V-A International Series on Biomechanics* 1975, 1-A: 185-193.

Zoladz J., Duda K., Majerczak. Oxygen uptake does not increase linearly at high power outputs during incremental exercise test in humans. *Eur J Appl Physiol* 1998, 77: 445-451.

Zoladz J., Rademaker A., Sargeant A. Non-linear relationship between O₂ uptake and power output at high intensities of exercise in humans. *J Physiol* 1995, 488: 211-217.