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Ainsworth, B. E. 2002. The Compendium of Physical Activities Tracking Guide.

[http://prevention.sph.sc.edu/tools/docs/documents\\_compendium.pdf](http://prevention.sph.sc.edu/tools/docs/documents_compendium.pdf)

Alvarez, A. 2001. Feeding the Rat: A Climber's Life on the Edge. Thunder's Mouth Press, New York.

Amann, M., L. M. Romer, A. W. Subudhi, et al. 2007. Severity of arterial hypoxemia affects the relative contributions of peripheral muscle fatigue to exercise performance. *J Physiol* 581(Pt 1):389–403.

American Alpine Club. 1952-2006. Accidents in North American Mountaineering. American Alpine Club, Golden, CO.

Anand, I., and Y. Chandrashekhar. 1996. Fluid metabolism at high altitudes. *In* B. M. Marriott and S. J. Carlson, eds. *Nutritional Needs in Cold and in High-Altitude Environments* (pp. 331–356). National Academy Press, Washington, DC.

Anand, I. S., Y. Chandrashekhar, S. K. Rao, et al. 1993. Body fluid compartments, renal blood flow, and hormones at 6,000 m in normal subjects. *J Appl Physiol* 74:1234–1239.

Anooshiravani, M., L. Dumont, C. Mardirosoff, et al. 1999. Brain magnetic resonance imaging (MRI) and neurological changes after a single high altitude climb. *Med Sci Sports Exerc* 31:969–972.

Arden, N. K., and T. D. Spector. 1997. Genetic influences on muscle strength, lean body mass, and bone mineral density: a twin study. *J Bone Miner Res* 12:2076–2081.

Armellini, F., M. Zamboni, R. Robbi, et al. 1997. The effects of high altitude trekking on body composition and resting metabolic rate. *Horm Metab Res* 29:458–461.

Armstrong, L. 2001. *It's Not about the Bike: My Journey Back to Life*. Berkeley Books, New York.

Armstrong, L. E. 2005. Hydration assessment techniques. *Nutr Rev* 63:S40–54.

Arzy, S., M. Idel, T. Landis, et al. 2005. Why revelations have occurred on mountains? Linking mystical experiences and cognitive neuroscience. *Med Hypotheses* 65:841–845.

Attwells, R. L., S. A. Birrell, R. H. Hooper, et al. 2006. Influence of carrying heavy loads on soldiers' posture, movements and gait. *Ergonomics* 49:1527–1537.

Ayton, J. M. 1993. Polar hands: spontaneous skin fissures closed with cyanoacrylate (histoacryl blue) tissue adhesive in Antarctica. *Arctic Med Res* 52:127–130.

- Backer, H. 2000. Editorial: In search of the perfect water treatment method. *Wilderness Environ Med* 11:1–4.
- Backer, H. 2003. A different experience as a medical advisor for an adventure travel company. *High Alt Med Biol* 4:255–256.
- Baden, D. A., T. L. McLean, R. Tucker, et al. 2005. Effect of anticipation during unknown or unexpected exercise duration on rating of perceived exertion, affect, and physiological function. *Br J Sports Med* 39:742–746; discussion 742–746.
- Bardwell, W. A., W. Y. Ensign, and P. J. Mills. 2005. Negative mood endures after completion of high-altitude military training. *Ann Behav Med* 29:64–69.
- Barker, R. 1959. *The Last Blue Mountain*. The Mountaineers, Seattle.
- Barry, P. W., N. P. Mason, M. Riordan, et al. 1997. Cough frequency and cough receptor sensitivity are increased in man at high altitude. *Clin Sci* 93:181–186.
- Bärtsch, P., D. M. Bailey, M. M. Berger, et al. 2004. Acute mountain sickness: controversies and advances. *High Alt Med Biol* 5:110–124.
- Bärtsch, P., E. Grunig, E. Hohenhaus, et al. 2001. Assessment of high altitude tolerance in healthy individuals. *High Alt Med Biol* 2:287–296.
- Bärtsch, P., H. Mairbaurl, M. Maggiorini, et al. 2005. Physiological aspects of high-altitude pulmonary edema. *J Appl Physiol* 98:1101–1110.
- Basnyat, B., T. A. Cumbo, and R. Edelman. 2000. Acute medical problems in the Himalayas outside the setting of altitude sickness. *High Alt Med Biol* 1:167–174.
- Basnyat, B., J. H. Gertsch, P. S. Holck, et al. 2006. Acetazolamide 125 mg BD is not significantly different from 375 mg BD in the prevention of acute mountain sickness: the prophylactic acetazolamide dosage comparison for efficacy (PACE) trial. *High Alt Med Biol* 7:17–27.
- Basnyat, B., J. Leomaster, and J. A. Litch. 1999. Everest or bust: a cross sectional, epidemiological survey of acute mountain sickness at 4234m in the Himalaya. *Aviat Space Environ Med* 70:867–873.
- Basnyat, B., and J. A. Litch. 1997. Medical problems of porters and trekkers in the Nepal Himalaya. *Wilderness Environ Med* 8:78–81.
- Basnyat, B., T. Wu, and J. H. Gertsch. 2004. Neurological conditions at altitude that fall outside the usual definition of altitude sickness. *High Alt Med Biol* 5:171–179.

- Bastien, G. J., P. A. Willems, B. Schepens, et al. 2005. Effect of load and speed on the energetic cost of human walking. *Eur J Appl Physiol* 94:76–83.
- Bates, R. H., R. L. Burdsall, W. P. House, et al. 1939. *Five Miles High*. Lyons Press, New York.
- Bauer, A., F. Demetz, D. Bruegger, et al. 2006. Effect of high altitude and exercise on microvascular parameters in acclimatized subjects. *Clin Sci (Lond)* 110:207–215.
- Bauer, P. 1937. *Himalayan Campaign: The German Attack on Kangchenjunga*. Blackwell, Oxford.
- Baumgartner, R. W., A. M. Siegel, and P. H. Hackett. 2007. Going high with preexisting neurological conditions. *High Alt Med Biol* 8:108–116.
- Bean, W. B., and L. W. Eichna. 1943. Performance in relation to environmental temperature: Reactions of normal young men to simulated desert environment. *Federation Proceedings* 2:144–158.
- Beidleman, B. A., S. R. Muza, C. S. Fulco, et al. 2004. Intermittent altitude exposures reduce acute mountain sickness at 4300 m. *Clin Sci (Lond)* 106:321–328.
- Beidleman, B. A., S. R. Muza, C. S. Fulco, et al. 2006. White blood cell and hormonal responses to 4300 m altitude before and after intermittent altitude exposure. *Clin Sci (Lond)* 111:163–169.
- Beidleman, B. A., S. R. Muza, P. B. Rock, et al. 1997. Exercise responses after altitude acclimatization are retained during reintroduction to altitude. *Med Sci Sports Exerc* 29:1588–1595.
- Bemben, M. G., and H. S. Lamont. 2005. Creatine supplementation and exercise performance: recent findings. *Sports Med* 35:107–125.
- Bennington, J. H., and H. C. Heller. 1995. Restoration of brain energy metabolism as the function of sleep. *Prog Neurobiol* 45:347–360.
- Berg, J. M., J. L. Tymoczko, and L. Stryer. 2006. *Biochemistry*. 6th ed. W.H. Freeman and Company, New York.
- Bernardi, L., A. Schneider, L. Pomidori, et al. 2006. Hypoxic ventilatory response in successful extreme altitude climbers. *Eur Respir J* 27:165–171.
- Bettembourg, G., and M. Brame. 1981. *The White Death*. Reynard House, Seattle, WA.
- Bezruchka, S. 2005. *Altitude Illness: Prevention and Treatment*. 2nd ed. The Mountaineers, Seattle.
- Bickler, P. E., J. R. Feiner, and J. W. Severinghaus. 2005. Effects of skin pigmentation on pulse oximeter accuracy at low saturation. *Anesthesiol* 102:715–719.

- Bircher, H. P., U. Eichenberger, M. Maggiorini, et al. 1993. Relationship of mountain sickness to physical fitness and exercise intensity during ascent. *J Wilderness Med* 5:302–311.
- Bitterman, M. E. 1944. Fatigue defined as reduced efficiency. *Am J Psychol* 57:569–573.
- Blum, A. 1998. *Annapurna: a Woman's Place*. Sierra Club Books, San Francisco.
- Blume, F. D., S. J. Boyer, L. E. Braverman, et al. 1984. Impaired osmoregulation at high altitude: studies on Mt Everest. *JAMA* 252:524–526.
- Bohne, M., and J. Abendroth-Smith. 2007. Effects of hiking downhill using trekking poles while carrying external loads. *Med Sci Sports Exerc* 39:177–183.
- Bonatti, W. 2001. *The Mountains of My Life*. The Modern Library, New York.
- Bonington, C. 1973. *The Ultimate Challenge*. Stein and Day, New York.
- Bonington, C. 2001. *Annapurna South Face*. Thunder's Mouth Press, New York.
- Bosco, G., A. Ionadi, S. Panico, et al. 2003. Effects of hypoxia on the circadian patterns in men. *High Alt Med Biol* 4:305–318.
- Bouchard, C. 1993. Heredity and health-related fitness. *Phys Activity Fitness Res Dig* 1(4). President's Council on Physical Fitness and Sports.
- Bouchard, C., and T. Rankinen. 2001. Individual differences in response to regular physical activity. *Med Sci Sports Exerc* 33:S446–451; discussion S452–443.
- Boukreev, A. 1997. The oxygen illusion: perspectives on the business of high-altitude climbing. *Am Alpine J* 39:37–43.
- Boukreev, A. 2001. *Above the Clouds*. St. Martin's Press, New York.
- Boukreev, A., and W. DeWalt. 1997. *The Climb*. St. Martin's Press, New York.
- Boulware, D. R. 2003. Backpacking-induced paresthesias. *Wilderness Environ Med* 14:161–166.
- Boutilier, R. G. 2001. Mechanisms of cell survival in hypoxia and hypothermia. *J Exp Biol* 204:3171–3181.
- Boyer, S. J., and F. D. Blume. 1984. Weight loss and changes in body composition at high altitude. *J Appl Physiol* 57:1580–1585.
- Braun, B., J. T. Mawson, S. R. Muza, et al. 2000. Women at altitude: carbohydrate utilization during exercise at 4,300 m. *J Appl Physiol* 88:246–256.
- Breashears, D. 1999. *High Exposure*. Simon & Schuster, New York.
- Bremer-Kamp, C. 1987. *Living on the Edge*. Peregrine Smith, Layton, UT.

- Brooks, G. A., and G. E. Butterfield. 2001. Metabolic response of lowlanders to high-altitude exposure: malnutrition versus the effect of hypoxia. *In* T. Hornbein and R. B. Schoene, eds. *High Altitude: An Exploration of Human Adaptation* (pp. 569–599). Marcel Dekker, New York.
- Buhl, H. 1956. *Lonely Challenge*. E.P. Dutton & Company, New York.
- Burgess, A., and A. Burgess. 1994. *The Burgess Book of Lies. The Mountaineers*, Seattle.
- Burgess, A., and J. Palmer. 1983. *Everest: The Ultimate Challenge*. Beaufort Books, New York.
- Burtscher, M. 2004. Endurance performance of the elderly mountaineer: requirements, limitations, testing, and training. *Wien Klin Wochenschr* 116:703–714.
- Burtscher, M., R. Likar, W. Nachbauer, et al. 1998. Aspirin for prophylaxis against headache at high altitudes: randomised, double blind, placebo controlled trial. *BMJ* 316:1057–1058.
- Butterfield, G. 1996. Maintenance of body weight at high altitudes: in search of 500 kcal/day. *In* B. M. Marriott and S. J. Carlson, eds. *Nutritional Needs in Cold and in High-Altitude Environments* (pp. 357–378). National Academy Press, Washington, D.C.
- Bygrave, S., S. J. Legg, S. Myers, et al. 2004. Effect of backpack fit on lung function. *Ergonomics* 47:324–329.
- Cairns, S. P. 2006. Lactic acid and exercise performance : culprit or friend? *Sports Med* 36:279–291.
- Calbet, J. A., R. Boushel, G. Radegran, et al. 2003. Why is  $\text{VO}_2$  max after altitude acclimatization still reduced despite normalization of arterial  $\text{O}_2$  content? *Am J Physiol Regul Integr Comp Physiol* 284:R304–316.
- Carlsson, S., T. Andersson, P. Lichtenstein, et al. 2006. Genetic effects on physical activity: results from the Swedish Twin Registry. *Med Sci Sports Exerc* 38:1396–1401.
- Castellani, J. W., A. J. Young, D. W. Degroot, et al. 2001. Thermoregulation during cold exposure after several days of exhaustive exercise. *J Appl Physiol* 90:939–946.
- Castellani, J. W., A. J. Young, J. E. Kain, et al. 1999. Thermoregulation during cold exposure: effects of prior exercise. *J Appl Physiol* 87:247–252.
- Cavaletti, G., and G. Tredici. 1993. Long-lasting neuropsychological changes after a single high altitude climb. *Acta Neurol Scand* 87:103–105.
- Chapman, R. F., J. Stray-Gundersen, and B. D. Levine. 1998. Individual variation in response to altitude training. *J Appl Physiol* 85:1448–1456.

- Cheuvront, S. N., R. Carter, 3rd, J. W. Castellani, et al. 2005. Hypohydration impairs endurance exercise performance in temperate but not cold air. *J Appl Physiol* 99:1972–1976.
- Child, G. 1988. *Thin Air: Encounters in the Himalayas*. Peregrine Smith, Layton, UT.
- Cibella, F., G. Cuttitta, S. Romano, et al. 1999. Respiratory energetics during exercise at high altitude. *J Appl Physiol* 86:1785–1792.
- Clinch, N. 1982. *A Walk in the Sky*. The Mountaineers, Seattle.
- Clover, D. O. 2006. Cutting boards in Salmonella cross-contamination. *J AOAC Int* 89:538–542.
- Coffey, M. 2003. *Where the Mountain Casts Its Shadow*. St. Martin's Press, New York.
- Conley, K. E., W. F. Kemper, and G. J. Crowther. 2001. Limits to sustainable muscle performance: interaction between glycolysis and oxidative phosphorylation. *J Exp Biol* 204:3189–3194.
- Coppin, E. G., S. D. Livingstone, and L. A. Kuehn. 1978. Effects on handgrip strength due to arm immersion in a 10 degree C water bath. *Aviat Space Environ Med* 49:1322–1326.
- Craig, R. 1977. *Storm and Sorrow in the High Pamirs*. Simon & Schuster, New York.
- Crowley, A. 1969. *The Confessions of Aleister Crowley*. Hill & Wang, New York.
- Curran, J. 1987. *K2: Triumph and Tragedy*. Houghton Mifflin Company, Boston.
- Curran, J. 1995. *K2: The Story of the Savage Mountain*. The Mountaineers, Seattle.
- Daanen, H. A., and H. J. van Ruiten. 2000. Cold-induced peripheral vasodilation at high altitudes—a field study. *High Alt Med Biol* 1:323–329.
- Dallimore, J., F. J. Cooke, and K. Forbes. 2002. Morbidity on youth expeditions to developing countries. *Wilderness Environ Med* 13:1–4.
- Daries, H. N., T. D. Noakes, and S. C. Dennis. 2000. Effect of fluid intake volume on 2-h running performances in a 25 degrees C environment. *Med Sci Sports Exerc* 32:1783–1789.
- Delavier, F. 2006. *Strength Training Anatomy*. 2nd ed. Human Kinetics, Champaign, IL.
- Dempsey, J. A., and P. D. Wagner. 1999. Exercise-induced arterial hypoxemia. *J Appl Physiol* 87:1997–2006.
- DePalo, V. A., A. L. Parker, F. Al-Bilbeisi, et al. 2004. Respiratory muscle strength training with nonrespiratory maneuvers. *J Appl Physiol* 96:731–734.
- Dickinson, J., D. Heath, J. Gosney, et al. 1983. Altitude-related deaths in seven trekkers in the Himalayas. *Thorax* 38:646–656.

- Dickinson, M. 1997. *The Other Side of Everest: Climbing the North Face through the Killer Storm*. Times Books, New York.
- Diemberger, K. 1991/ 1999. *The Endless Knot*. In *The Kurt Diemberger Omnibus* (pp. 321–590). The Mountaineers, Seattle.
- Drummond, E. 1973. *Mirror Mirror*. In K. Wilson, ed. *Games Climbers Play* (pp. 27-42). Diadem, London.
- Dudley, R. 2001. Limits to human locomotor performance: phylogenetic origins and comparative perspectives. *J Exp Biol* 204:3235–3240.
- Duff, J. 1999. Observations while treating altitude illness. *Wilderness Environ Med* 10:274.
- Dunn, K. M., L. F. Cherkas, and T. D. Spector. 2005. Genetic influences on variation in female orgasmic function: a twin study. *Biol Lett* 1:260–263.
- Durrer, B., H. Brugger, and D. Syme. 2003. The medical on-site treatment of hypothermia: ICAR-MEDCOM recommendation. *High Alt Med Biol* 4:99–103.
- Eggler, A. 1957. *The Everest-Lhotse Adventure*. Harper & Brothers, New York.
- Eichna, L. W., W. B. Bean, W. F. Ashe, et al. 1945. Performance in relation to environmental temperature: reactions of normal young men to hot humid (simulated jungle) environment. *Bull Johns Hopkins Hosp* 76:25–58.
- Enander, A. 1984. Performance and sensory aspects of work in cold environments: a review. *Ergonomics* 27:365–378.
- Endoh, T., T. Nakajima, M. Sakamoto, et al. 2005. Effects of muscle damage induced by eccentric exercise on muscle fatigue. *Med Sci Sports Exerc* 37:1151–1156.
- Enright, S. J., V. B. Unnithan, C. Heward, et al. 2006. Effect of high-intensity inspiratory muscle training on lung volumes, diaphragm thickness, and exercise capacity in subjects who are healthy. *Phys Ther* 86:345–354.
- Evans, C. 1956. *Kangchenjunga: The Untrodden Peak*. Hodder & Stoughton, London.
- Falk, B., O. Bar-Or, J. Smolander, et al. 1994. Response to rest and exercise in the cold: effects of age and aerobic fitness. *J Appl Physiol* 76:72–78.
- Fallowfield, J. L., C. Williams, J. Booth, et al. 1996. Effect of water ingestion on endurance capacity during prolonged running. *J Sports Sci* 14:497–502.

- Falola, J. M., N. Delpech, and J. Brisswalter. 2000. Optimization characteristics of walking with and without a load on the trunk of the body. *Percept Mot Skills* 91:261–272.
- Fanshawe, A., and S. Venables. 1995. *Himalaya Alpine Style*. The Mountaineers, Seattle.
- Fayed, N., P. J. Modrego, and H. Morales. 2006. Evidence of brain damage after high-altitude climbing by means of magnetic resonance imaging. *Am J Med* 119:168 e161–166.
- Fletcher, C. 1972. *The Complete Walker*. Alfred A. Knopf, New York.
- Forster, P. 1984. Reproducibility of individual response to exposure to high altitude. *BMJ* 289:1269.
- Fowler, M. 2005. *On Thin Ice*. Baton Wicks, London.
- Franco, J. 1957. *Makalu*. Alden Press, London.
- Franklin, B. A., P. Hogan, K. Bonzheim, et al. 1995. Cardiac demands of heavy snow shoveling. *JAMA* 273:880–882.
- Freund, B., and M. Sawka. 1996. Influence of cold stress on human fluid balance. *In* B. M. Marriott and S. J. Carlson, eds. *Nutritional Needs in Cold and in High-Altitude Environments* (pp. 161–179). National Academy Press, Washington, D.C.
- Gaillard, S., P. Dellasanta, L. Loutan, et al. 2004. Awareness, prevalence, medication use, and risk factors of acute mountain sickness in tourists trekking around the Annapurnas in Nepal: a 12-year follow-up. *High Alt Med Biol* 5:410–419.
- Gammelgaard, L. 1999. *Climbing High*. Seal Press, Seattle.
- Garcia, N., S. R. Hopkins, and F. L. Powell. 2000. Intermittent vs continuous hypoxia: effects on ventilation and erythropoiesis in humans. *Wilderness Environ Med* 11:172–179.
- Garner, S. H., J. R. Sutton, R. L. Burse, et al. 1990. Operation Everest II: neuromuscular performance under conditions of extreme simulated altitude. *J Appl Physiol* 68:1167–1172.
- Garske, L. A., M. G. Brown, and S. C. Morrison. 2003. Acetazolamide reduces exercise capacity and increases leg fatigue under hypoxic conditions. *J Appl Physiol* 94:991–996.
- Ge, R. L., S. Witkowski, Y. Zhang, et al. 2002. Determinants of erythropoietin release in response to short-term hypobaric hypoxia. *J Appl Physiol* 92:2361–2367.
- Gertsch, J. H., T. B. Seto, J. Mor, et al. 2002. *Ginkgo biloba* for the prevention of severe acute mountain sickness (AMS) starting one day before rapid ascent. *High Alt Med Biol* 3:29–37.

- Ghofrani, H. A., F. Reichenberger, M. G. Kohstall, et al. 2004. Sildenafil increased exercise capacity during hypoxia at low altitudes and at Mount Everest base camp: a randomized, double-blind, placebo-controlled crossover trial. *Ann Intern Med* 141:169–177.
- Gladden, L. B. 2004. Lactate metabolism: a new paradigm for the third millennium. *J Physiol* 558:5–30.
- Goedecke, J. H., A. St Clair Gibson, L. Grobler, et al. 2000. Determinants of the variability in respiratory exchange ratio at rest and during exercise in trained athletes. *Am J Physiol Endocrinol Metabol* 279:E1325–1334.
- Gonzales, J. U., and B. W. Scheuermann. 2006. Gender differences in the fatigability of the inspiratory muscles. *Med Sci Sports Exerc* 38:472–479.
- Gonzalez-Alonso, J., J. A. Calbet, and B. Nielsen. 1999a. Metabolic and thermodynamic responses to dehydration-induced reductions in muscle blood flow in exercising humans. *J Physiol* 520 Pt 2:577–589.
- Gonzalez-Alonso, J., R. Mora-Rodriguez, P. R. Below, et al. 1995. Dehydration reduces cardiac output and increases systemic and cutaneous vascular resistance during exercise. *J Appl Physiol* 79:1487–1496.
- Gonzalez-Alonso, J., R. Mora-Rodriguez, and E. F. Coyle. 1999b. Supine exercise restores arterial blood pressure and skin blood flow despite dehydration and hyperthermia. *Am J Physiol* 277:H576–583.
- Gonzalez-Alonso, J., R. Mora-Rodriguez, and E. F. Coyle. 2000. Stroke volume during exercise: interaction of environment and hydration. *Am J Physiol Heart Circ Physiol* 278:H321–330.
- Goodman, T., and B. Basnyat. 2000. A tragic report of probable high-altitude pulmonary edema in the Himalayas: preventative implications. *Wilderness Environ Med* 11:99–101.
- Gore, C. J., and W. G. Hopkins. 2005. Counterpoint: positive effects of intermittent hypoxia (live high:train low) on exercise performance are not mediated primarily by augmented red cell volume. *J Appl Physiol* 99:2055–2057; discussion 2057–2058.
- Grover, R. F., and P. Bärtsch. 2001. Blood. In T. Hornbein and R. B. Schoene, eds. *High Altitude: An Exploration of Human Adaptation* (pp. 493–523). Marcel Dekker, New York.
- Gudjonsdottir, M., L. Appendini, P. Baderna, et al. 2001. Diaphragm fatigue during exercise at high altitude: the role of hypoxia and workload. *Eur Respir J* 17:674–680.

- Habeler, P. 1978. *The Lonely Victory*. Simon & Schuster, New York.
- Hackett, P. H., and R. C. Roach. 2004. High altitude cerebral edema. *High Alt Med Biol* 5:136–146.
- Hainsworth, R., M. J. Drinkhill, and M. Rivera-Chira. 2007. The autonomic nervous system at high altitude. *Clin Auton Res* 17:13–19.
- Hamel, P., J. A. Simoneau, G. Lortie, et al. 1986. Heredity and muscle adaptation to endurance training. *Med Sci Sports Exerc* 18:690–696.
- Hanton, S., D. Fletcher, and G. Coughlan. 2005. Stress in elite sport performers: a comparative study of competitive and organizational stressors. *J Sports Sci* 23:1129–1141.
- Hargreaves, J. S. 2006. Laboratory evaluation of the 3-bowl system used for washing-up eating utensils in the field. *Wilderness Environ Med* 17:94–102.
- Harirchi, I., A. Arvin, J. H. Vash, et al. 2005. Frostbite: incidence and predisposing factors in mountaineers. *Br J Sports Med* 39:898–901; discussion 901.
- Hartung, G. H., L. G. Myhre, S. A. Nunneley, et al. 1984. Plasma substrate response in men and women during marathon running. *Aviat Space Environ Med* 55:128–131.
- Harvard, A., and T. Thompson. 1974. *Mountain of Storms*. Chelsea House, New York.
- Hashmi, M. A., M. Rashid, A. Haleem, et al. 1998. Frostbite: epidemiology at high altitude in the Karakoram mountains. *Ann R Coll Surg Engl* 80:91–95.
- Haston, D. 1972. In *High Places*. Macmillan, New York.
- Herzog, M. 1952. *Annapurna*. E.P. Dutton and Company, New York.
- Hillary, E. 1999. *View from the Summit*. Pocket Books, New York.
- Hillebrandt, D. 2002. A year's experience as advisory doctor to a commercial mountaineering expedition company. *High Alt Med Biol* 3:409–414.
- Hopkins, S. R. 2006. Exercise induced arterial hypoxemia: the role of ventilation-perfusion inequality and pulmonary diffusion limitation. *Adv Exp Med Biol* 588:17–30.
- Hoppeler, H., and M. Vogt. 2001. Muscle tissue adaptations to hypoxia. *J Exp Biol* 204:3133–3139.
- Hoppeler, H., M. Vogt, E. R. Weibel, et al. 2003. Response of skeletal muscle mitochondria to hypoxia. *Exp Physiol* 88:109–119.
- Hornbein, T. 1966. *Everest: The West Ridge*. Ballantine Books, New York.

- Hornbein, T., and R. B. Schoene, eds. 2001. *High Altitude: An Exploration of Human Adaptation*. Marcel Dekker, New York.
- Hornbein, T. F. 2001. The high-altitude brain. *J Exp Biol* 204:3129–3132.
- Hornbein, T. F., B. D. Townes, R. B. Schoene, et al. 1989. The cost to the central nervous system of climbing to extremely high altitude. *N Engl J Med* 321:1714–1719.
- Hörst, E. 1996. *Flash Training*. Chockstone Press, Evergreen, CO.
- Houston, C. S. 1985. The physiology of altitude illness: its role in alpine style rush tactics. *Am Alpine J* 27:158–161.
- Houston, C. S., and R. Bates. 1979. *The Savage Mountain*. The Mountaineers, Seattle.
- Hsu, A. R., K. E. Barnholt, N. K. Grundmann, et al. 2006. Sildenafil improves cardiac output and exercise performance during acute hypoxia, but not normoxia. *J Appl Physiol* 100:2031–2040.
- Huerta, C., S. Johansson, M. A. Wallander, et al. 2007. Risk factors and short-term mortality of venous thromboembolism diagnosed in the primary care setting in the United Kingdom. *Arch Intern Med* 167:935–943.
- Huey, R. B., and X. Eguskitza. 2000. Supplemental oxygen and mountaineer death rates on Everest and K2. *JAMA* 284:181.
- Huey, R. B., and X. Eguskitza. 2001. Limits to human performance: elevated risks on high mountains. *J Exp Biol* 204:3115–3119.
- Huey, R. B., X. Eguskitza, and M. Dillon. 2001. Mountaineering in thin air: patterns of death and of weather at high altitude. *Adv Exp Med Biol* 502:225–236.
- Huey, R. B., R. Salisbury, J.-L. Wang, et al. 2007. Effects of age and gender on success and death of mountaineers on Mount Everest. *Biol Lett* 3:498–500.
- Hultgren, H. N. 1997. *High Altitude Medicine*. Hultgren Publications, Stanford, CA.
- Ilg, S. 1999. *The Winter Athlete: Secrets of Wholistic Fitness for Outdoor Performance*. Johnson Books, Boulder, CO.
- Ilgner, A. 2006. *The Rock Warrior's Way*. Desiderata Institute, La Vergne, TN.
- Jain, S. C., J. Bardhan, Y. Swamy, et al. 1980. Body fluid compartments in humans during acute high-altitude exposure. *Aviat Space Environ Med* 51:234–236.

- Jean, D., C. Leal, S. Kriemler, et al. 2005. Medical recommendations for women going to altitude. *High Alt Med Biol* 6:22–31.
- Jenkins, M. 2006. What the pros know. *Outside Magazine* September:78.
- Jones, P., and I. Lee. 1996. Macronutrient requirements for work in cold environments. *In* B. M. Marriott and S. J. Carlson, eds. *Nutritional Needs in Cold and in High-Altitude Environments* (pp. 189–202). National Academy Press, Washington, D.C.
- Jordan, J. 2005. *Savage Summit*. HarperCollins, New York.
- Kamler, K. 2004. *Surviving the Extremes*. St. Martin's Press, New York.
- Kang, J., E. C. Chaloupka, M. A. Mastrangelo, et al. 2002. Physiological and biomechanical analysis of treadmill walking up various gradients in men and women. *Eur J Appl Physiol* 86:503–508.
- Kauffman, A., and W. Putnam. 1992. *K2: The 1939 Tragedy. The Mountaineers*, Seattle.
- Kayser, B. 2003. Exercise starts and ends in the brain. *Eur J Appl Physiol* 90:411–419.
- Keatisuwan, W., T. Ohnaka, and Y. Tochihara. 1996. Physiological responses of women during exercise under dry-heat condition in winter and summer. *Appl Human Sci* 15:169–176.
- Kellas, A. M. 2001. A consideration of the possibility of ascending Mount Everest. *High Alt Med Biol* 2:431–461.
- Kinoshita, N., H. Yamazaki, S. Onishi, et al. 2000. Physiological profile of middle-aged and older climbers who ascended Gasherbrum II, an 8035-m Himalayan peak. *J Gerontol A Biol Sci Med Sci* 55:M630–633.
- Kleessen, B., W. Schroedl, M. Stueck, et al. 2005. Microbial and immunological responses relative to high-altitude exposure in mountaineers. *Med Sci Sports Exerc* 37:1313–1318.
- Knapik, J., E. Harman, and K. Reynolds. 1996. Load carriage using packs: a review of physiological, biomechanical and medical aspects. *Appl Ergon* 27:207–216.
- Kohrt, W. M., M. T. Malley, A. R. Coggan, et al. 1991. Effects of gender, age, and fitness level on response of  $\text{VO}_2\text{max}$  to training in 60–71 yr olds. *J Appl Physiol* 71:2004–2011.
- Komi, P. V., J. H. Viitasalo, M. Havu, et al. 1977. Skeletal muscle fibres and muscle enzyme activities in monozygous and dizygous twins of both sexes. *Acta Physiol Scand* 100:385–392.
- Krakauer, J. 1997. *Into Thin Air*. Villard, New York.
- Kropp, G. 1997. *Ultimate High: My Everest Odyssey*. Discovery Books, New York.

- Kukuczka, J. 1992. *My Vertical World*. The Mountaineers, Seattle.
- Kuntsi, J., H. Rogers, G. Swinard, et al. 2006. Reaction time, inhibition, working memory and “delay aversion” performance: genetic influences and their interpretation. *Psychol Med* 36:1613–1624.
- Kupper, T. E., B. Schraut, B. Rieke, et al. 2006. Drugs and drug administration in extreme environments. *J Travel Med* 13:35–47.
- Lafiandra, M., and E. Harman. 2004. The distribution of forces between the upper and lower back during load carriage. *Med Sci Sports Exerc* 36:460–467.
- LaFiandra, M., R. C. Wagenaar, K. G. Holt, et al. 2003. How do load carriage and walking speed influence trunk coordination and stride parameters? *J Biomech* 36:87–95.
- Lafleur, J., M. Giron, M. Demarco, et al. 2003. Cognitive effects of dexamethasone at high altitude. *Wilderness Environ Med* 14:20–23.
- LeBlanc, J. 1996. Cold exposure, appetite, and energy balance. *In* B. M. Marriott and S. J. Carlson, eds. *Nutritional Needs in Cold and in High-Altitude Environments* (pp. 203–214). National Academy Press, Washington, D.C.
- Lee, W. W., K. Mayberry, R. Crapo, et al. 2000. The accuracy of pulse oximetry in the emergency department. *Am J Emerg Med* 18:427–431.
- Leigh-Smith, S. 2004. Carbon monoxide poisoning in tents—a review. *Wilderness Environ Med* 15:157–163.
- Lemon, P. W., M. A. Tarnopolsky, J. D. MacDougall, et al. 1992. Protein requirements and muscle mass/strength changes during intensive training in novice bodybuilders. *J Appl Physiol* 73:767–775.
- Leon-Velarde, F., M. Maggiorini, J. T. Reeves, et al. 2005. Consensus statement on chronic and subacute high altitude diseases. *High Alt Med Biol* 6:147–157.
- Lessov-Schlaggar, C. N., Z. Pang, G. E. Swan, et al. 2006. Heritability of cigarette smoking and alcohol use in Chinese male twins: the Qingdao Twin Registry. *Int J Epidemiol* 35:1278–1285.
- Levine, B. D., and J. Stray-Gundersen. 2005. Point: positive effects of intermittent hypoxia (live high:train low) on exercise performance are mediated primarily by augmented red cell volume. *J Appl Physiol* 99:2053–2055.
- Levine, B. D., and J. Stray-Gundersen. 2006. Dose-response of altitude training: how much altitude is enough? *Adv Exp Med Biol* 588:233–247.

- Liffrig, J. R. 2001. Phototrauma prevention. *Wilderness Environ Med* 12:195–200.
- Lindstedt, S. L., and K. E. Conley. 2001. Human aerobic performance: too much ado about limits to  $VO_2$ . *J Exp Biol* 204:3195–3199.
- Litch, J. A., and R. A. Bishop. 2000. High altitude global amnesia. *Wilderness Exp Med* 11:25–28.
- Litch, J. A., and R. A. Bishop. 2001. Reascent following resolution of high altitude pulmonary edema (HAPE). *High Alt Med Biol* 2:53–55.
- Lundby, C., M. Sander, G. van Hall, et al. 2006. Maximal exercise and muscle oxygen extraction in acclimatizing lowlanders and high altitude natives. *J Physiol* 573:535–547.
- Lundby, C., and G. van Hall. 2001. Peak heart rates at extreme altitudes. *High Alt Med Biol* 2:41–45.
- Mader, T. H., and G. Tabin. 2003. Going to high altitude with preexisting ocular conditions. *High Alt Med Biol* 4:419–430.
- Maggiorini, M., H. P. Brunner-La Rocca, S. Peth, et al. 2006. Both tadalafil and dexamethasone may reduce the incidence of high-altitude pulmonary edema: a randomized trial. *Ann Intern Med* 145:497–506.
- Major, G. C., and E. Doucet. 2004. Energy intake during a typical Himalayan trek. *High Alt Med Biol* 5:355–363.
- Maraini, F. 1961. *Karakoram: The Ascent of Gasherbrum IV*. Viking Press, New York.
- Marrao, C., P. Tikuisis, A. A. Keefe, et al. 2005. Physical and cognitive performance during long-term cold weather operations. *Aviat Space Environ Med* 76:744–752.
- Mason, N. P., and P. W. Barry. 2007. Altitude-related cough. *Pulm Pharmacol Ther* 20:388–395.
- Maughan, R., and S. Shirreffs. 2004. Exercise in the heat: challenges and opportunities. *J Sports Sci* 22:917–927.
- Mazzeo, R. S. 2005. Altitude, exercise and immune function. *Exerc Immunol Rev* 11:6–16.
- McCool, F. D., J. O. Benditt, P. Conomos, et al. 1997. Variability of diaphragm structure among healthy individuals. *Am J Respir Crit Care Med* 155:1323–1328.
- McLaughlin, J. B., B. D. Gessner, and A. M. Bailey. 2005. Gastroenteritis outbreak among mountaineers climbing the West Buttress route of Denali—Denali National Park, Alaska, June 2002. *Wilderness Environ Med* 16:92–96.

- Meehan, R. T., P. N. Uchakin, and C. F. Sams. 2001. High altitude and human immune responsiveness. *In* T. Hornbein and R. B. Schoene, eds. *High Altitude: An Exploration of Human Adaptation* (pp. 645–661). Marcel Dekker, New York.
- Meeusen, R., P. Watson, and J. Dvorak. 2006. The brain and fatigue: new opportunities for nutritional interventions? *J Sports Sci* 24:773–782.
- Messner, R. 1977. *The Challenge*. Oxford University Press, New York.
- Messner, R. 1989. *The Crystal Horizon*. The Mountaineers, Seattle.
- Messner, R. 1999a. *All 14 Eight-Thousanders*. The Mountaineers, Seattle.
- Messner, R. 1999b. *Free Spirit: A Climber's Life*. The Mountaineers, Seattle.
- Messner, R. 1999c. *To the Top of the World: Challenges in the Himalaya and Karakoram*. The Mountaineers, Seattle.
- Messner, R. 2002. *The Naked Mountain*. The Mountaineers, Seattle.
- Minetti, A. E. 1995. Optimum gradient of mountain paths. *J Appl Physiol* 79:1698–1703.
- Minetti, A. E., F. Formenti, and L. P. Ardigo. 2006. Himalayan porter's specialization: metabolic power, economy, efficiency and skill. *Proc Biol Sci* 273:2791–2797.
- Minetti, A. E., C. Moia, G. S. Roi, et al. 2002. Energy cost of walking and running at extreme uphill and downhill slopes. *J Appl Physiol* 93:1039–1046.
- Missitzi, J., N. Geladas, and V. Klissouras. 2004. Heritability in neuromuscular coordination: implications for motor control strategies. *Med Sci Sports Exerc* 36:233–240.
- Montain, S. J., S. N. Cheuvront, and M. N. Sawka. 2006. Exercise associated hyponatraemia: quantitative analysis to understand the aetiology. *Br J Sports Med* 40:98–105; discussion 198–105.
- Montain, S. J., and E. F. Coyle. 1992. Influence of graded dehydration on hyperthermia and cardiovascular drift during exercise. *J Appl Physiol* 73:1340–1350.
- Montain, S. J., S. A. Smith, R. P. Mattot, et al. 1998. Hypohydration effects on skeletal muscle performance and metabolism: a <sup>31</sup>P-MRS study. *J Appl Physiol* 84:1889–1894.
- Morel, O. E., R. Aubert, J. P. Richalet, et al. 2005. Simulated high altitude selectively decreases protein intake and lean mass gain in rats. *Physiol Behav* 86:145–153.
- Mortenson, G., and D. O. Relin. 2007. *Three Cups of Tea: One Man's Mission to Promote Peace...One School at a Time*. Penguin Books, New York.

- Moudgil, R., E. D. Michelakis, and S. L. Archer. 2005. Hypoxic pulmonary vasoconstriction. *J Appl Physiol* 98:390–403.
- Moul, J. L. 1998. Differences in selected predictors of anterior cruciate ligament tears between male and female NCAA Division I collegiate basketball players. *J Athl Training* 33:118–121.
- Murdoch, D. 1995. Symptoms of infection and altitude illness among hikers in the Mount Everest region of Nepal. *Aviat Space Environ Med* 66:148-151.
- Muza, S. R., A. J. Young, M. N. Sawka, et al. 2004. Ventilation after supplemental oxygen administration at high altitude. *Wilderness Environ Med* 15:18–24.
- Nag, P. K., R. N. Sen, and U. S. Ray. 1978. Optimal rate of work for mountaineers. *J Appl Physiol* 44:952–955.
- National Institutes of Health. 2003. The Seventh Report of the Joint National Committee on Prevention, Detection, Evaluation, and Treatment of High Blood Pressure (03-5233). Washington, D.C.
- Nickol, A. H., J. Leverment, P. Richards, et al. 2006. Temazepam at high altitude reduces periodic breathing without impairing next-day performance: a randomized cross-over double-blind study. *J Sleep Res* 15:445–454.
- Niermeyer, S. 2007. Going to high altitude with a newborn infant. *High Alt Med Biol* 8:117–123.
- Nimmo, M. 2004. Exercise in the cold. *J Sports Sci* 22:898–915; discussion 915–916.
- Noakes, T. D. 2003. *Lore of Running*. 4th ed. Human Kinetics, Champaign, IL.
- Noakes, T. D. 2005. Comments on Point:Counterpoint “Positive effects of intermittent hypoxia (live high:train low) on exercise performance are/are not mediated primarily by augmented red cell volume”. *J Appl Physiol* 99:2453.
- Noakes, T. D., J. A. Calbet, R. Boushel, et al. 2004. Central regulation of skeletal muscle recruitment explains the reduced maximal cardiac output during exercise in hypoxia. *Am J Physiol Regul Integr Comp Physiol* 287:R996–999; author reply R999–1002.
- Noakes, T. D., J. E. Peltonen, and H. K. Rusko. 2001. Evidence that a central governor regulates exercise performance during hypoxia and hyperoxia. *J Exp Biol* 204:3225–3234.
- Noakes, T. D., K. Sharwood, D. Speedy, et al. 2005. Three independent biological mechanisms cause exercise-associated hyponatremia: evidence from 2,135 weighed competitive athletic performances. *Proc Natl Acad Sci U S A* 102:18550–18555.

- Noel, J. 1927. *The Story of Everest*. Little, Brown and Company, Boston.
- Noel-Jorand, M. C., F. Joulia, and D. Braggard. 2001. Personality factors, stoicism and motivation in subjects under hypoxic stress in extreme environments. *Aviat Space Environ Med* 72:391–399.
- Noyce, W. 1954. *South Col: A Personal Story of the Ascent of Everest*. William Sloane Associates, New York.
- Oelz, O., H. Howald, P. E. di Prampero, et al. 1986. Physiological profile of world-class high-altitude climbers. *J Appl Physiol* 60:1734–1742.
- Okumura, A., H. Fuse, Y. Kawauchi, et al. 2003. Changes in male reproductive function after high altitude mountaineering. *High Alt Med Biol* 4:349–353.
- Olfert, I. M., J. Balouch, A. Kleinsasser, et al. 2004. Does gender affect human pulmonary gas exchange during exercise? *J Physiol* 557:529–541.
- Ozkaplan, A., E. C. Rhodes, A. W. Sheel, et al. 2005. A comparison of inspiratory muscle fatigue following maximal exercise in moderately trained males and females. *Eur J Appl Physiol* 95:52–56.
- Palinkas, L. A., and P. Suedfeld. 2007. Psychological effects of polar expeditions. *Lancet*.  
DOI:10.1016/S0140-6736(07)61056-3
- Pastene, J., M. Germain, A. M. Allevard, et al. 1996. Water balance during and after marathon running. *Eur J Appl Physiol Occup Physiol* 73:49–55.
- Patey, T. 1971. The art of climbing down gracefully. *In One Man's Mountains* (pp. 231–240). Victor Gollancz, London.
- Paulcke, W., and H. Dumler. 1973. *Hazards in Mountaineering*. Oxford University Press, New York.
- Pedlar, C., G. Whyte, S. Emegbo, et al. 2005. Acute sleep responses in a normobaric hypoxic tent. *Med Sci Sports Exerc* 37:1075–1079.
- Pollard, A. J., S. Niermeyer, P. Barry, et al. 2001. Children at high altitude: an international consensus statement by an ad hoc committee of the International Society for Mountain Medicine, March 12, 2001. *High Alt Med Biol* 2:389–403.
- Powell, F. L., and N. Garcia. 2000. Physiological effects of intermittent hypoxia. *High Alt Med Biol* 1:125–136.
- Pronk, M., I. Tiemessen, M. D. Hupperets, et al. 2003. Persistence of the lactate paradox over 8 weeks at 3,800 m. *High Alt Med Biol* 4:431–443.

- Prud'homme, D., C. Bouchard, C. Leblanc, et al. 1984. Sensitivity of maximal aerobic power to training is genotype-dependent. *Med Sci Sports Exerc* 16:489–493.
- Pugh, L. G. C. E., M. B. Gill, S. Lahiri, et al. 1964. Muscular exercise at great altitudes. *J Appl Physiol* 19:431–440.
- Rai, R. M., M. S. Malhotra, G. P. Dimri, et al. 1975. Utilization of different quantities of fat at high altitude. *Am J Clin Nutr* 28:242–245.
- Raichle, M. E., and T. Hornbein. 2001. The high altitude brain. *In* T. Hornbein and R. B. Schoene, eds. *High Altitude: An Exploration of Human Adaptation* (pp. 377–423). Marcel Dekker, New York.
- Rankinen, T., M. S. Bray, J. M. Hagberg, et al. 2006. The human gene map for performance and health-related fitness phenotypes: the 2005 update. *Med Sci Sports Exerc* 38:1863–1888.
- Reeves, J. T., and K. R. Stenmark. 2001. The pulmonary circulation at high altitude. *In* T. Hornbein and R. B. Schoene, eds. *High Altitude: An Exploration of Human Adaptation* (pp. 293–342). Marcel Dekker, New York.
- Regard, M., O. Oelz, P. Brugger, et al. 1989. Persistent cognitive impairment in climbers after repeated exposure to extreme altitude. *Neurology* 39:210–213.
- Reichl, M. 1987. Neuropathy of the feet due to running on cold surfaces. *BMJ* 294:348–349.
- Reynolds, R. D. 2005. Fat desire and fat intake at extreme altitude: observations from the “On Top Everest ‘89” Nutrition Research Expedition. *Wilderness Environ Med* 16:232–234.
- Reynolds, R. D., J. A. Lickteig, P. A. Deuster, et al. 1999. Energy metabolism increases and regional body fat decreases while regional muscle mass is spared in humans climbing Mt. Everest. *J Nutr* 129:1307–1314.
- Reynolds, R. D., J. A. Lickteig, M. P. Howard, et al. 1998. Intakes of high fat and high carbohydrate foods by humans increased with exposure to increasing altitude during an expedition to Mt. Everest. *J Nutr* 128:50–55.
- Ricart de Mesones, A., J. Turon Sans, M. Misiego, et al. 2002. Neuropathic pain and dysesthesia of the feet after Himalayan expeditions. *High Alt Med Biol* 3:395–399.
- Rice, T., P. An, J. Gagnon, et al. 2002. Heritability of HR and BP response to exercise training in the HERITAGE Family Study. *Med Sci Sports Exerc* 34:972–979.

- Richalet, J. P., P. Gratadour, P. Robach, et al. 2005. Sildenafil inhibits altitude-induced hypoxemia and pulmonary hypertension. *Am J Respir Crit Care Med* 171:275–281.
- Richard, S., D. Orr, and C. Lindholm. 1991. *The NOLS Cookery: Experience the Art of Outdoor Cooking*. 3rd ed. NOLS/Stackpole Books, Harrisburg, PA.
- Ridgeway, R. 1980. *The Last Step. The Mountaineers*, Seattle.
- Roach, R., and B. Kayser. 2001. Exercise and hypoxia: performance, limits, and training. *In* T. Hornbein and R. B. Schoene, eds. *High Altitude: An Exploration of Human Adaptation* (pp. 663–705). Marcel Dekker, New York.
- Roach, R. C., and P. H. Hackett. 2001. Frontiers of hypoxia research: acute mountain sickness. *J Exp Biol* 204:3161–3170.
- Roach, R. C., D. Maes, D. Sandoval, et al. 2000. Exercise exacerbates acute mountain sickness at simulated high altitude. *J Appl Physiol* 88:581–585.
- Robergs, R. A., F. Ghiasvand, and D. Parker. 2004. Biochemistry of exercise-induced metabolic acidosis. *Am J Physiol Regul Integr Comp Physiol* 287:R502–516.
- Roberts, D. 1986. *Moments of Doubt. The Mountaineers*, Seattle.
- Roberts, D. 2000. *True Summit: What Really Happened on the Legendary Ascent of Annapurna*. Simon & Schuster, New York.
- Roberts, E. 1980. *Welzenbach's Climbs. The Mountaineers*, Seattle.
- Rodway, G. 2007. George Ingle Finch and the Mount Everest expedition of 1922: breaching the 8000-m barrier. *High Alt Med Biol* 8:68–76.
- Roscoe, C., E. Baker, C. Gustafson, et al. 2006. Investigating carbon monoxide exposure on Denali. *Wilderness Environ Med* 17:75–80.
- Rose, D., and E. Douglas. 2000. *Regions of the Heart*. National Geographic Society, Washington, D.C.
- Roskelley, J. 1987. *Nanda Devi*. Avon Books, New York.
- Roskelley, J. 1993. *Stories off the Wall. The Mountaineers*, Seattle.
- Rowell, G. 1977. *In the Throne Room of the Mountain Gods*. Sierra Club, San Francisco.
- Rupert, J. L., and M. S. Koehle. 2006. Evidence for a genetic basis for altitude-related illness. *High Alt Med Biol* 7:150–167.

- Rusko, H. K., H. O. Tikkanen, and J. E. Peltonen. 2004. Altitude and endurance training. *J Sports Sci* 22:928–944; discussion 945.
- Rutkiewicz, W. 1987. The first woman's ascent of K2. *In* J. Curran, ed. *K2: Triumph and Tragedy* (pp. 195–200). Houghton Mifflin Company, Boston.
- Ryan, T. A. 1944. Varieties of fatigue. *Am J Psychol* 57:565–569.
- Sadnicka, A., R. Walker, and J. Dallimore. 2004. Morbidity and determinants of health on youth expeditions. *Wilderness Environ Med* 15:181–187.
- Saltin, B., G. Blomqvist, J. H. Mitchell, et al. 1968. Response to exercise after bed rest and after training. *Circulation* 38(5 Suppl):1–78.
- Sandal, G. M. 1998. The effects of personality and interpersonal relations on crew performance during space simulation studies. *Life Support Biosph Sci* 5:461–470.
- Santee, W. R., W. F. Allison, L. A. Blanchard, et al. 2001. A proposed model for load carriage on sloped terrain. *Aviat Space Environ Med* 72:562–566.
- Sapolsky, R. M. 2004. *Why Zebras Don't Get Ulcers*. 3rd ed. Owl Books, New York.
- Saunders, V. 1991. *Elusive Summits*. Sphere Books, London.
- Sayre, W. 1964. *Four Against Everest*. Tower Books, New York.
- Schena, F., F. Guerrini, P. Tregnaghi, et al. 1992. Branched-chain amino acid supplementation during trekking at high altitude: the effects on loss of body mass, body composition, and muscle power. *Eur J Appl Physiol Occup Physiol* 65:394–398.
- Schneider, M., D. Bernasch, J. Weymann, et al. 2002. Acute mountain sickness: influence of susceptibility, pre-exposure and ascent rate. *Med Sci Sports Exerc* 34:1886–1891.
- Schoene, R. B. 2001. Fatal high altitude pulmonary edema associated with absence of the left pulmonary artery. *High Alt Med Biol* 2:405–406.
- Schoene, R. B. 2005a. Dexamethasone: by safe means, by fair means. *High Alt Med Biol* 6:273–275.
- Schoene, R. B. 2005b. Limits of respiration at high altitude. *Clin Chest Med* 26:405–414, vi.
- Schoene, R. B., S. Lahiri, and P. H. Hackett. 1984. Relationship of hypoxic ventilatory response to exercise performance on Mount Everest. *J Appl Physiol* 56:1478–1483.
- Schwartz, R. B., D. J. Ledrick, and A. Lindman. 2001. A comparison of carbon monoxide levels during the use of a multi-fuel camp stove. *Wilderness Environ Med* 12:236–238.

- Scott, D., and A. MacIntyre. 1984. *The Shishapangma Expedition*. The Mountaineers, Seattle.
- Sharma, V. M., and M. S. Malhotra. 1976. Ethnic variations in psychological performance under altitude stress. *Aviat Space Environ Med* 47:248–251.
- Shipton, E. 1943/ 1999. *Upon that Mountain*. In *The Six Mountain Travel Books* (pp. 305-454). The Mountaineers, Seattle.
- Shirreffs, S. M., and R. J. Maughan. 1997. Whole body sweat collection in humans: an improved method with preliminary data on electrolyte content. *J Appl Physiol* 82:336–341.
- Shlim, D. R., and J. Gallie. 1992. The causes of death among trekkers in Nepal. *Int J Sports Med* 13 Suppl 1:S74–76.
- Shlim, D. R., P. Hackett, C. S. Houston, et al. 1995. Diplopia at high altitude. *Wilderness Environ Med* 6:341–343.
- Simon-Schnass, I. 1996. Oxidative stress at high altitudes and effects of vitamin E. In B. M. Marriott and S. J. Carlson, eds. *Nutritional Needs in Cold and in High-Altitude Environments* (pp. 393–418). National Academy Press, Washington, DC.
- Skinner, J. S., A. Jaskolski, A. Jaskolska, et al. 2001. Age, sex, race, initial fitness, and response to training: the HERITAGE Family Study. *J Appl Physiol* 90:1770–1776.
- Smith, C. A., J. A. Dempsey, and T. Hornbein. 2001. Control of breathing at high altitude. In T. Hornbein and R. B. Schoene, eds. *High Altitude: An Exploration of Human Adaptation* (pp. 139–173). Marcel Dekker, New York.
- Smythe, F. 1930/ 2000. *The Kangchenjunga Adventure*. In *Frank Smythe: The Six Alpine/Himalayan Climbing Books* (pp. 139–346). The Mountaineers, Seattle.
- Smythe, F. 1937/ 2000. *Camp 6*. In *Frank Smythe: The Six Alpine/Himalayan Climbing Books* (pp. 515–652). The Mountaineers, Seattle.
- Smythe, F. 2000. *The Six Alpine/Himalayan Climbing Books*. The Mountaineers, Seattle.
- Southard, A., S. Niermeyer, and M. Yaron. 2007. Language used in Lake Louise Scoring System underestimates symptoms of acute mountain sickness in 4- to 11-year-old children. *High Alt Med Biol* 8:124–130.
- Speedy, D. B., T. D. Noakes, and C. Schneider. 2001. Exercise-associated hyponatremia: a review. *Emerg Med (Fremantle)* 13:17–27.

- Sridharan, K., S. Ranganathan, A. K. Mukherjee, et al. 2004. Vitamin status of high altitude (3660 m) acclimatized human subjects during consumption of tinned rations. *Wilderness Environ Med* 15:95–101.
- Stampfer, M. J. 2006. *Vitamins and Minerals: What You Need to Know (SR12000)*. Harvard Medical School, Boston.
- Steele, P. 1999. *Backcountry Medical Handbook*. 2nd ed. The Mountaineers, Seattle.
- Strydom, N. B., C. H. Wyndham, C. H. van Graan, et al. 1966. The influence of water restriction on the performance of men during a prolonged march. *South African Med J* 40:539–544.
- Swenson, E. R. 2001. Renal function and fluid homeostasis. *In* T. Hornbein and R. B. Schoene, eds. *High Altitude: An Exploration of Human Adaptation* (pp. 525–570). Marcel Dekker, New York.
- Syme, D. 2002. Position paper: on-site treatment of frostbite for mountaineers. *High Alt Med Biol* 3:297–298.
- Tanner, D. A., and J. M. Stager. 1998. Partitioned weight loss and body composition changes during a mountaineering expedition: a field study. *Wilderness Environ Med* 9:143–152.
- Tarnopolsky, M. A., S. A. Atkinson, J. D. MacDougall, et al. 1992. Evaluation of protein requirements for trained strength athletes. *J Appl Physiol* 73:1986–1995.
- Tasker, J. 1982. *Savage Arena*. St. Martin's Press, New York.
- Taylor, R. 1981. *The Breach*. Coward, McCann & Geoghegan, New York.
- Thompson, A. E., and J. E. Pope. 2005. Calcium channel blockers for primary Raynaud's phenomenon: a meta-analysis. *Rheumatology* 44:145–150.
- Thrush, D., and M. R. Hodges. 1994. Accuracy of pulse oximetry during hypoxemia. *South Med J* 87:518–521.
- Tikuissis, P. 1995. Predicting survival time for cold exposure. *Int J Biometeorol* 39:94–102.
- Tikuissis, P., I. Jacobs, D. Moroz, et al. 2000. Comparison of thermoregulatory responses between men and women immersed in cold water. *J Appl Physiol* 89:1403–1411.
- Tilman, H. W. 1937/ 2003. *The Ascent of Nanda Devi*. *In* *The Seven Mountain Travel Books* (pp. 149–267). The Mountaineers, Seattle.
- Tilman, H. W. 1946/ 2003. *When Men and Mountains Meet*. *In* *The Seven Mountain Travel Books* (pp. 269–421). The Mountaineers, Seattle.

- Tilman, H. W. 1948/ 2003. Everest 1938. *In* The Seven Mountain Travel Books (pp. 423–509). The Mountaineers, Seattle.
- Truesdell, A. G., and R. L. Wilson. 2006. Training for medical support of mountain operations. *Mil Med* 171:463–467.
- Tschop, M., C. J. Strasburger, G. Hartmann, et al. 1998. Raised leptin concentrations at high altitude associated with loss of appetite. *Lancet* 352:1119–1120.
- Tullis, J. 1987. *Clouds from Both Sides*. Sierra Club Books, San Francisco.
- Twight, M. 2001. *Kiss or Kill*. The Mountaineers, Seattle.
- Twight, M., and J. Martin. 1999. *Extreme Alpinism: Climbing Light, Fast, and High*. The Mountaineers, Seattle.
- Twombly, S. E., and L. C. Schussman. 1995. Gender differences in injury and illness rates on wilderness backpacking trips. *Wilderness Environ Med* 4:363–376.
- Vander, A., J. Sherman, and D. Luciano. 1998. *Human Physiology: The Mechanisms of Body Function*. 7th ed. WCB/McGraw-Hill, Boston.
- Venables, S. 2000. *Everest: Alone at the Summit*. Thunder's Mouth Press, New York.
- Viesturs, E. 2006. *No Shortcuts to the Top*. Broadway Books, New York.
- Wagner, P. D. 2001. Gas exchange. *In* T. Hornbein and R. B. Schoene, eds. *High Altitude: An Exploration of Human Adaptation* (pp. 199–234). Marcel Dekker, New York.
- Wang, R. Y., S. C. Tsai, J. J. Chen, et al. 2001. The simulation effects of mountain climbing training on selected endocrine responses. *Chin J Physiol* 44:13–18.
- Wang, W. J., and R. H. Crompton. 2004. The role of load-carrying in the evolution of modern body proportions. *J Anat* 204:417–430.
- Ward, M. P. 1954. High altitude deterioration. *Proc R Soc, Series B, London* 143:40–42.
- Ward, M. P., J. Milledge, and J. B. West. 2000. *High Altitude Medicine and Physiology*. 3rd ed. Arnold, London.
- Waterhouse, J., T. Reilly, and B. Edwards. 2004. The stress of travel. *J Sports Sci* 22:946–965; discussion 965–946.
- Waterman, J. 1983. *Surviving Denali: A Study of Accidents on Mount McKinley*. A.A.C., New York.
- Waugh, R. J. 1977. Penile frostbite: an unforeseen hazard of jogging [letter]. *N Engl J Med* 296:178.

- Weathers, B. 2000. *Left for Dead: My Journey Home from Everest*. Villard, New York.
- Webster, E. 2000. *Snow in the Kingdom*. Mountain Imagery, Eldorado Springs, CO.
- Weil, J. V. 2004. Sleep at high altitude. *High Alt Med Biol* 5:180–189.
- West, J. B. 1983. Climbing Mt. Everest without oxygen: an analysis of maximal exercise during extreme hypoxia. *Respir Physiol* 52:265–279.
- West, J. B. 1999. Barometric pressures on Mt. Everest: new data and physiological significance. *J Appl Physiol* 86:1062–1066.
- West, J. B. 2002. Unexplained severe fatigue and lassitude at high altitude. *High Alt Med Biol* 3:237–241.
- West, J. B. 2003. Acclimatization to high altitude: truths and misconceptions. *High Alt Med Biol* 4:401–402.
- West, J. B. 2004. The physiologic basis of high-altitude diseases. *Ann Intern Med* 141:789–800.
- West, J. B. 2006. Human responses to extreme altitudes. *Integr Comp Biol* 46:25–34.
- West, J. B., S. Lahiri, K. H. Maret, et al. 1983. Barometric pressures at extreme altitudes on Mt. Everest: physiological significance. *J Appl Physiol* 54:1188–1194.
- Westerterp, K. R., and B. Kayser. 2006. Body mass regulation at altitude. *Eur J Gastroenterol Hepatol* 18:1–3.
- Westerterp-Plantenga, M. S., K. R. Westerterp, M. Rubbens, et al. 1999. Appetite at "high altitude" [Operation Everest III (Comex-'97)]: a simulated ascent of Mount Everest. *J Appl Physiol* 87:391–399.
- Wickwire, J., and D. Bullitt. 1988. *Addicted to Danger*. Pocket Books, New York.
- Wilcox, J. 1981. *White Winds*. Hwong Publishing, Los Alamitos, CA.
- Wilkerson, J., ed. 2001. *Medicine for Mountaineering and Other Wilderness Activities*. 5th ed. The Mountaineers, Seattle.
- Willson, J. D., M. L. Ireland, and I. Davis. 2006. Core strength and lower extremity alignment during single leg squats. *Med Sci Sports Exerc* 38:945–952.
- Windsor, J. S., P. Richards, and G. Rodway. 2006. Painful fissures and diabetes mellitus at altitude. *Wilderness Environ Med* 17:205–206.
- Winslow, R. M., M. Samaja, and J. B. West. 1984. Red cell function at extreme altitude on Mount Everest. *J Appl Physiol* 56:109–116.

- Wiseman, C., L. Freer, and E. Hung. 2006. Physical and medical characteristics of successful and unsuccessful summiteers of Mount Everest in 2003. *Wilderness Environ Med* 17:103–108.
- Withey, W. R., J. S. Milledge, E. S. Williams, et al. 1983. Fluid and electrolyte homeostasis during prolonged exercise at altitude. *J Appl Physiol* 55:409–412.
- Wolf, L. 1998. A woman's perspective on Mt. Kilimanjaro. *Wilderness Environ Med* 9:124.
- Wolff, C. B. 2000. Cerebral blood flow and oxygen delivery at high altitude. *High Alt Med Biol* 1:33–38.
- Worme, J. D., J. A. Lickteig, R. D. Reynolds, et al. 1991. Consumption of a dehydrated ration for 31 days at moderate altitudes: energy intakes and physical performance. *J Am Diet Assoc* 91:1543–1549.
- Wyss-Dunant, E. 1953. Acclimatisation. *In* M. Kurz, ed. *The Mountain World* (pp. 110–117). Swiss Foundation for Alpine Research/Harper and Brothers, New York.
- Yaron, M., S. Niermeyer, K. N. Lindgren, et al. 2002. Evaluation of diagnostic criteria and incidence of acute mountain sickness in preverbal children. *Wilderness Environ Med* 13:21–26.
- Yaron, M., S. Niermeyer, K. N. Lindgren, et al. 2003. Physiologic response to moderate altitude exposure among infants and young children. *High Alt Med Biol* 4:53–59.
- Yoneda, I., and Y. Watanabe. 1997. Comparisons of altitude tolerance and hypoxia symptoms between nonsmokers and habitual smokers. *Aviat Space Environ Med* 68:807–811.
- Young, A., M. Sawka, and K. Pandolf. 1996. The physiology of cold exposure. *In* B. M. Marriott and S. J. Carlson, eds. *Nutritional Needs in Cold and in High-Altitude Environments* (pp. 127–147). National Academy Press, Washington, D.C.
- Young, A. J., J. W. Castellani, C. O'Brien, et al. 1998. Exertional fatigue, sleep loss, and negative energy balance increase susceptibility to hypothermia. *J Appl Physiol* 85:1210–1217.
- Zaccaria, M., A. Ermolao, P. Bonvicini, et al. 2004. Decreased serum leptin levels during prolonged high altitude exposure. *Eur J Appl Physiol* 92:249–253.
- Zhao, L., N. A. Mason, N. W. Morrell, et al. 2001. Sildenafil inhibits hypoxia-induced pulmonary hypertension. *Circulation* 104:424–428.
- Zilberstein, B., A. G. Quintanilha, M. A. Santos, et al. 2007. Digestive tract microbiota in healthy volunteers. *Clinics* 62:47–54.
- Zoll, J., E. Ponsot, S. Dufour, et al. 2006. Exercise training in normobaric hypoxia in endurance runners. III. Muscular adjustments of selected gene transcripts. *J Appl Physiol* 100:1258–1266.



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