

1. Patton-Lopez MM, Manore MM, Branscum A, Meng Y, Wong, SS. Changes in sport nutrition knowledge, attitudes/beliefs and behaviors following a two-year sport nutrition education and life-skills intervention among high school soccer players. *Nutrients* . 2018;10(11):1636. <https://doi.org/10.3390/nu10111636>
2. Werner EN, Guadagni AJ, Pivarnik JM. Assessment of nutrition knowledge in division I college athletes. *J Am Coll Health* . 2022;70(1):248-255. <https://doi.org/10.1080/07448481.2020.1740234>
3. Klein DJ, Eck KM, Walker AJ, Pellegrino JK, Freidenreich DJ. Assessment of sport nutrition knowledge, dietary practices, and sources of nutrition information in NCAA Division III Collegiate Athletes. *Nutrients* . 2021;13(9):2962. <https://doi.org/10.3390/nu13092962>
4. Smart LR, Bisogni CA. Personal food systems of male college hockey players. *Appetite* . 2001;37(1): 57-70.
5. Thomas, D., Erdman KA., Burke LM. Position of the Academy of Nutrition and Dietetics, Dietitians of Canada, and the American College of Sports Medicine: Nutrition and Athletic Performance. *J Acad Nutr Diet* . 2016;116(3):501-528. <https://pubmed.ncbi.nlm.nih.gov/26920240/>
6. Beaton GH, Milner J, Corey P, et al. Sources of variance in 24-hour dietary recall data: implications for nutrition study design and interpretation. *Am J Clin Nutr* . 1979;32(12):2546-2559.
7. Driskell JA, Wolinsky I. *Nutritional Assessment of Athletes* . Boca Raton, FL: CRC Press; 2002.
8. Lichtman SW, Pisarska K, Berman ER, et al. Discrepancy between self reported and actual caloric intake and exercise in obese subjects. *N Engl J Med* . 1992;327(27):1893-1898.
9. Mertz W, Tsui JC, Judd JT, et al. What are people really eating? The relation between energy intake derived from estimated diet records and intake determined to maintain body weight. *Am J Clin Nutr* . 1991;54(2):291-295.
10. Tarasuk V, Beaton GH. The nature and individuality of within-subject variation in energy intake. *Am J Clin Nutr* . 1991;54(3):464-470.
11. Van Staveren WA, Hautvašt JG, Katan MB, Van Montfort MA, Oosten Van Der Goes HG. Dietary fiber consumption in an adult Dutch population. *J Am Diet Assoc* . 1982;80(4):324-330.
12. Barr SI, Janelle KC, Prior JC. Energy intakes are higher during the luteal phase of ovulatory menstrual cycles. *Am J Clin Nutr* . 1995;61(1):39-43.
13. Rogan MM, Black KE. Dietary energy intake across the menstrual cycle: a narrative review. *Nutr Rev* . 2023;81(7):869-886. <https://doi.org/10.1093/nutrit/nuac094>
14. National Cancer Institute, Division of Cancer Control and Population Sciences. Diet History Questionnaire . Accessed February 26, 2019. Available at: <http://appliedresearch.cancer.gov/dhq2/>.
15. Subar AF. Developing dietary assessment tools. *J Am Diet Assoc* . 2004;104(5):769-770.
16. Clark KS. Sports nutrition counseling: documentation of performance. *Top Clin Nutr* . 1999;14(2):34-40.
17. Maughan RJ, Greenhaff PL, Leiper JB, Ball D, Lambert CP, Gleeson M. Diet composition and the performance of high-intensity exercise. *J Sports Sci* . 1997;15(3):265-275.
18. Bloch TD, Wheeler KB. Dietary examples: a practical approach to feeding athletes. *Clin Sports Med* . 1999;18(3):703-711.
19. Kleiner SM. Eating for peak performance. *Phys Sportsmed* . 1997;25(10):123-124.
20. Holli BB, Calabrese RJ. *Communication and Education Skills: The Dietitian's Guide* . 2nd ed. Philadelphia, PA: Lea & Febiger; 1991.
21. Prochaska JO, Norcross JC, DiClemente CC. *Changing for Good* . New York, NY: Avon Books; 1994.
22. Centers for Medicare and Medicaid Services. The Health Insurance Portability and Accountability Act of 1996 (HIPAA) . Baltimore, MD. Accessed September 29, 2019. Available at: <https://www.cms.gov/Regulations-and-Guidance/Administrative-Simplification/HIPAA-ACA/PrivacyandSecurityInformation.html> .

1. Fryar CD, Carroll MD, Afful J. Prevalence of overweight, obesity, and severe obesity among adults aged 20 and over: United States, 1960– 1962 through 2017–2018. NCHS Health E-Stats, Centers for Disease Control and Prevention . 2020. Updated February 8, 2021. Accessed January 5, 2023. www.cdc.gov/nchs/data/hestat/obesity-adult-17-18/obesity-adult.htm
2. National Institute of Diabetes and Digestive and Kidney Diseases. Overweight and obesity statistics: United States, 1960–1962 through 2017–2018. Accessed January 5, 2023. Available at: <https://www.niddk.nih.gov/health-information/health-statistics/overweight-obesity>.
3. Fryar CD, Carroll MD, Ogden CL. Prevalence of overweight, obesity, and severe obesity among children and adolescents aged 2–19 years: United States, 1963–1965 through 2015–2016. NCHS Health E-Stats, Centers for Disease Control and Prevention . Accessed April 22, 2021. Updated January 29, 2021. www.cdc.gov/nchs/data/hestat/obesitychild-17-18/overweight-obesity-child-H.pdf
4. Noel MB, Van Heest JI, Zanetas P, Rodgers CD. Body composition in Division I football players. *J Strength Condition Res* . 2003;17(2):228- 237.
5. Flegal KM, Graubard BI, Williamson DF, Gail MH. Excess deaths associated with underweight, overweight, and obesity. *JAMA* . 2005;293(15):1861-1867.
6. Prentice AM, Jebb SA. Beyond body mass index. *Obes Rev* . 2001;2(3):141-147.
7. National Heart Lung and Blood Institute, National Institutes of Health. Managing overweight and obesity in adults: systematic evidence review from the Obesity Expert Panel , 2013. Washington, DC: U.S. Department of Health and Human Services; 2013.
8. National Heart Lung and Blood Institute, National Institutes of Health. Clinical Guidelines on the Identification, Evaluation, and

- Treatment of Overweight and Obesity in Adults: Executive Summary. Expert Panel on the Identification, Evaluation, and Treatment of Overweight in Adults. *Am J Clin Nutr* . 1998;68(4):899-917.
9. Keys A, Fidanza F, Karvonen MJ, Kimora N, Taylor HL. Indices of relative weight and obesity. *J Chronic Dis* . 1972;25(6-7):329-343.
 10. Deurenberg P, Weststrate JA, Seidell JC. Body mass index as a measure of body fatness: age- and sex-specific prediction formulas. *Br J Nutr* . 1991;65(2): 105-114.
 11. Gallagher D, Visser M, Sepúlveda D, Pierson RN, Harris T, Heymsfield SB. How useful is body mass index for comparison of body fatness across age, sex, and ethnic groups? *Am J Epidemiol* . 1996;143(3):228- 239.
 12. Lohman TG. Basic concepts in body composition assessment. In: *Advances in Body Composition Assessment* . Champaign, IL: Human Kinetics; 1992:1-5.
 13. Ackland TR, Lohman TG, Sundgot-Borgen, J, et al. Current status of body composition assessment in sport: review and position statement on behalf of the AdHoc Research Working Group on body composition, health and performance, under the auspices of the I.O.C. Medical Commission. *Sports Med*. 2012;42(3): 227-249.
 14. Nash NL. Body fat measurement: weighing the pros and cons of electrical impedance. *Phys Sportsmed* . 1985;13(11):124-128.
 15. Kohrt WM. Preliminary evidence that DEXA provides an accurate assessment of body composition. *J Appl Physiol* . 1998;84(1):372-377.
 16. Van MD Loan. Is dual-energy X-ray absorptiometry ready for prime time in the clinical evaluation of body composition? *Am J Clin Nutr* . 1998;68(6):1155-1156.
 17. Saunders MJ, Blevins JE, Broeder CE. Effects of hydration changes on bioelectrical impedance in endurance trained individuals. *Med Sci Sports Exerc* . 1998;30(6):885-892.
 18. National Institutes of Health. Bioelectrical impedance analysis of body composition measurement. NIH Technol Assess State . 1996; December 12-14:1-35.
 19. Liguori, GaryPescatello LS, Arena R, Riebe D, Thompson PD, eds. *ACSM's Guidelines for Exercise Testing and Prescription* 11ion. 9th ed. Philadelphia, PA: Lippincott Williams & Wilkins; 202114.
 20. Withers RT, Craig NP, Bourdon PC, Norton KI. Relative body fat and anthropometric prediction of body density of male athletes. *Eur J Appl Physiol Occup Physiol* . 1987;56(2):191-200.
 21. McArdle WD, Katch FI, Katch VL. *Exercise Physiology: Energy, Nutrition, and Human Performance* . 8th ed. Philadelphia, PA: Lippincott Williams and Wilkins; 2014.
 22. Manore M, Meyer N, Thompson J. *Sports Nutrition for Health and Performance* . 2nd ed. Champaign, IL: Human Kinetics; 2009.
 23. Borchers JR, Clem KL, Habash DL, Nagaraja HN, Stokley LM, Best TM. Metabolic syndrome and insulin resistance in Division I collegiate football players. *Med Sci Sports Exerc* . 2009;41(12):2105-2110.
 24. *Nutrition and Athletic Performance*. *Med Sci Sports Exerc*. 2016;48(3):543–568. doi: 10.1249 /MSS.0000000000000852.
 25. Wildman REC, Miller BS, Wilborn C, Arent S, Capmbell B. *Sports and Fitness Nutrition* . 3rd ed. Dubuque, Iowa: Kendall Hunt; 2021.
 26. Frankfield D, Roth-Yousey L, Compher C. Comparison of predictive equations for resting metabolic rate in healthy nonobese and obese adults: a systematic review. *J Am Diet Assoc* . 2005;105(5):775-789.
 27. Wilmore J, Costill DL. *Physiology of Sport and Exercise* . 3rd ed. Champaign, IL: Human Kinetics; 2004.
 28. U.S. Department of Health and Human Services. *Physical activity guidelines for Americans*. Accessed April 2, 2019. Available at: https://health.gov /paguidelines/second-edition /pdf/Physical_Activity _Guidelines_2nd_edition.pdf.
 29. Alderman BL, Landers DM, Carlson J, Scott JR. Factors related to rapid weight loss practices among international-style wrestlers. *Med Sci Sports Exerc* . 2004;36(2):249-252.
 30. Zeman FJ. *Clinical Nutrition and Dietetics* . New York, NY: Macmillan; 1991.
 31. Choma CW, Sforzo GA, Keller BA. Impact of rapid weight loss on cognitive function in collegiate wrestlers. *Med Sci Sports Exerc* . 1998;30(5):746-749.
 32. Centers for Disease Control and Prevention (CDC). Hyperthermia and dehydration-related deaths associated with intentional rapid weight loss in three collegiate wrestlers—North Carolina, Wisconsin, and Michigan, November–December 1997. *JAMA* . 1998;279(11):824-825.
 33. Davis SE, Dwyer GB, Reed K, Bopp C, Stosic J, Shepanski M. Preliminary investigation: the impact of the NCAA Wrestling Weight Certification Program on weight cutting. *J Strength Cond Res* . 2002;16(2):305-307.
 34. Iowa High School Athletic Association Wrestling Rules Manual. Assessed August 10, 2023. Available at <https://www.iahsaa.org/ manuals/wrestling-regular-season/#rules information>
 35. Oppliger RA, Nelson Steen SA, Scott JR. Weight loss practices of college wrestlers. *Int J Sport Nutr Exerc Metab* . 2003;13(1):29-46.
 36. Dale KS, Landers DM. Weight control in wrestling: eating disorders or disordered eating? *Med Sci Sports Exerc* . 1999;31(10):1382-1389.
 37. Krane V, Waldron J, Michalenok J, Stiles-ShIPLEY J. Body image concerns in female exercisers and athletes: a feminist cultural studies perspective. *Women Sport Phys Activ J* . 2001;10(1):17-54.
 38. Monmsa EV, Malina RM. Correlates of eating disorders risk among female figure skaters: a profile of adolescent competitors. *Psych Sport Exerc* . 2004;5(4):447-460.
 39. Bartlewski PB. Effects of aerobic exercise on the social physique anxiety and body esteem of female college students. *Women Sport Phys Activ J* . 1996;5(2):49-62.
 40. Sundgot-Borgen J, Torstveit MK. Prevalence of eating disorders in elite athletes is higher than in the general population. *Clin J Sport Med* . 2004;14(1):25-32.
 41. American Psychiatric Association. *Diagnostic and Statistical Manual of Mental Disorders* . 5th ed. Washington, DC: American Psychiatric Association; 2013.
 42. Sundgot-Borgen J. Risk and trigger factors for the development of eating disorders in female elite athletes. *Med Sci Sports Exerc* . 1994;26(4):414-419.
 43. Choi PY, Pope Jr HG, Olivardia R. Muscle dysmorphia: a new syndrome in weightlifters. *Br J Sports Med* . 2002;36(5):375-377.
 44. Pope Jr HG, Gruber AJ, Choi P, Olivardia R, Phillips KA. Muscle dysmorphia. An unrecognized form of body dysmorphic disorder.

- der. *Psychosomatics* . 1997;38(6):548-557.
45. Pope Jr HG, Katz DL, Hudson JI. Anorexia nervosa and “reverse anorexia” among 108 male bodybuilders. *Compr Psychiatry* . 1993;34(6):406-409.
 46. Mosley PE. Bigorexia: bodybuilding and muscle dysmorphia. *Eur Eat Disord Rev* . 2009;17(3):191-198.
 47. Robert CA, Munroe-Chandler KJ, Gammage KL. The relationship between the drive for muscularity and muscle dysmorphia in male and female weight trainers. *J Strength Cond Res* . 2009;23(6):1656-1662.
 48. Bonci CM, Bonci LJ, Granger LR, et al. National Athletic Trainers’ Association Position Statement: preventing, detecting, and managing disordered eating in athletes. *J Athl Train* . 2008;43(1):80-108.
 49. Beals KA, Manore MM. The prevalence and consequences of subclinical eating disorders in female athletes. *Int J Sport Nutr Exer Metab* . 1994;4(2):175-195.
 50. Wiggins DL, Wiggins ME. The female athlete. *Clin Sport Med* . 1997;16(4):593-612.
 51. Affenito SG, Yeager KA, Rosman JR, Ludemann MA, Adams CH, Welch GW. Development and validation of a screening tool to identify eating disorders in female athletes. *J Am Diet Assoc* . 1998;98(9 suppl 1):A78.
 52. McNulty KY, Adams CH, Anderson JM, Affenito SG. Development and validation of a screening tool to identify eating disorders in female athletes. *J Am Diet Assoc* . 2001;101(8):886-892.
 53. Cobb KL, Bachrach LK, Greendale G, et al. Disordered eating, menstrual irregularity, and bone mineral density in female runners. *Med Sci Sports Exerc* . 2003;35(5):711-719.
 54. Loucks AB. Energy availability, not body fatness, regulates reproductive function in women. *Exerc Sport Sci Rev* . 2003;31(3):144-148.
 55. Trattner Sherman R, Thompson RA. Practical use of the International Olympic Committee Medical Commission position stand on the female athlete triad: a case example. *Int J Eat Dis* . 2006;39(3):193-201.
 56. Mountjoy M, Sundgot-Borgen J, Burke L, et al. The IOC consensus statement: beyond the female athlete triad—relative energy deficiency in sport (RED-S). *Br J Sports Med* . 2014;48(7):491-497.
 57. De Souza MJ, Williams NI, Nattiv A, et al. Misunderstanding the female athlete triad: refuting the IOC consensus statement on relative energy deficiency in sport (RED-S). *Br J Sports Med* . 2014;48(20):1461-1465.
 58. Mountjoy M, Sundgot-Borgen J, Burke L, et al. International Olympic Committee (IOC) Consensus Statement on Relative Energy Deficiency in Sport (RED-S): 2018 Update. *Int J Sports Nutr Ex Med* . 2018;28(4): 316-331.
 59. Valliant MW. The female athlete triad and relative energy deficiency in sport: knowledge of both can improve the health of female athletes. *Stren Cond J* . 2016;38(2):35-39.
 60. Stellingwerff T, Heikura IA, Meeusen R, et al. Overtraining syndrome (OTS) and relative energy deficiency in sport (RED-S): Shared pathways, symptoms and complexities. *Sports Med* . 2021;51(11):2251- 2280. doi:<https://doi.org/10.1007/s40279-021-01491-0>.
 61. Kreider RB. Dietary supplements and the promotion of muscle growth with resistance exercise. *Sports Med* . 1999;27:97-110.

منابع

1. Wolinsky I. *Nutrition in Exercise and Sport* . New York, NY: CRC; 1998.
2. Costill DL, Sherman WM, Fink WJ, Maresh C, Witten M, Miller JM. The role of dietary carbohydrate in muscle glycogen resynthesis after strenuous running. *Am J Clin Nutr* . 1981;34(9):1831-1836.
3. Thomas DT, Erdman KA, Burke LM. Position of the Academy of Nutrition and Dietetics, Dietitians of Canada, and the American College of Sports Medicine: nutrition and athletic performance. *J Acad Nutr Diet* . 2016;116(3):501-528.
4. Sherman WM, Doyle JA, Lamb DR, Strauss RH. Dietary carbohydrate, muscle glycogen, and exercise performance during 7 d of training. *Am J Clin Nutr* . 1993;57(1):27-31.
5. Sherman WM. Metabolism of sugars and physical performance. *Am J Clin Nutr* . 1995;62(1 suppl): 228S-24
6. Hawley JA, Leckey JJ. Carbohydrate dependence during prolonged, intense endurance exercise. *Sports Med* . 2015;45(suppl 1):S5-S12.
7. Ormsbee MJ, Bach CW, Baur DA. Pre-exercise nutrition: the role of macronutrients, modified starches and supplements on metabolism and endurance performance. *Nutrients* . 2014;6(5):1782-1808.
8. Nilsson LH, Hultman E. Liver glycogen in man—the effect of total starvation or a carbohydrate-poor diet followed by carbohydrate refeeding. *Scand J Clin Lab Invest* . 1973;32(4):325-330.
9. Chrystanthopoulos C, Williams C. Pre-exercise meal and endurance running capacity when carbohydrates are ingested during exercise. *Int J Sports Med* . 1997;18(7):543-548.
10. Chrystanthopoulos C, Williams C, Nowitz A, Kotsiopolou C, Vleck V. The effect of a high carbohydrate meal on endurance running capacity. *Int J Sport Nutr Exer Metab* . 2002;12(2):157-171.
11. Kerkick CM, Arent S, Schoenfeld BJ, et al. International society of sports nutrition position stand: nutrient timing. *J Int Soc Sports Nutr* . 2017;14(1):33.
12. Smith GJ, Rhodes EC, Langill RH. The effect of pre-exercise glucose ingestion on performance during prolonged swimming. *Int J Sport Nutr Exer Metab* . 2002;12(2):136-144.
13. Febbraio MA, Stewart KL. CHO feeding before prolonged exercise: effect of glycemic index on muscle glycogenolysis and exercise performance. *J Appl Physiol* . 1996;81(3):1115-1120.
14. Febbraio MA, Keenan J, Angus DJ, Campbell SE, Garnham AP. Pre-exercise carbohydrate ingestion, glucose kinetics and muscle glycogen use: effect of the glycemic index. *J Appl Physiol* . 2000;89:1845-1851.
15. Coyle EF. Carbohydrate supplementation during exercise. *J Nutr* . 1992;122(suppl 3):788-795.
16. Burkhardt S, Tan DX, Manchester LC, Hardelan R, Reiter RJ. Detection and quantification of the antioxidant melatonin in Montemorency and Balaton tart cherries (*Prunus cerasus*). *J Agric Food Chem* . 2001;49(10):4898-4902.
17. Howatson G, McHugh MP, Hill JA, et al. Influence of tart cherry juice on indices of recovery following marathon running. *Scand J Med Sci Sports* . 2010;20(6):843-852.
18. Connolly DA, McHugh MP, Padilla-Zakour OI. Efficacy of a tart cherry juice blend in preventing the symptoms of muscle dam-

- age. *Br J Sports Med* . 2006;40(8):679-683.
19. Pigeon WR, Carr M, Gorman C, Perlis ML. Effects of a tart cherry juice beverage on the sleep of older adults with insomnia: a pilot study. *J Med Food* . 2010;13(3):579-583.
 20. Bowtell JL, Summers DP, Dyer A, Fox P, Mileva KN. Montmorency cherry juice reduces muscle damage caused by intensive strength exercise. *Med Sci Sports Exerc* . 2011;43(8):1544-1551.
 21. Kato H, Suzuki K, Bannai M, Moore DR. Protein requirements are elevated in endurance athletes after exercise as determined by the indicator amino acid oxidation method. *PLoS One* . 2016;11(6):e0157406
 22. Churchward-Venne TA, Pinckaers PJ, Smeets JS, et al. Dose-response effects of dietary protein on muscle protein synthesis during recovery from endurance exercise in young men: a double-blind randomized trial. *Am J Clin Nutr* . 2020;112(2):303-317.
 23. Lemon PW. Is increased dietary protein necessary or beneficial for individuals with a physically active lifestyle? *Nutr Rev* . 1996;54(4 pt 2):169S-175S.
 24. Lemon PW. Effects of exercise on dietary protein requirements. *Int J Sport Nutr* . 1998;8(4):426-447.
 25. Rodriguez NR, DiMarco NM, Langley S, American Dietetic Association, Dietitians of Canada; American College of Sports Medicine: Nutrition and Athletic Performance. Position of the American Dietetic Association, Dietitians of Canada, and the American College of Sports Medicine: Nutrition and athletic performance [published correction appears in *J Am Diet Assoc* . 2013 Dec;113(12):1759]. *J Am Diet Assoc* . 2009;109(3):509-527.
 26. Kreider RB, Leutholz B. Nutritional considerations for preventing overtraining. In: Antonio J, Stout JR, eds. *Sport Supplements* . Philadelphia, PA: Lippincott Williams and Wilkins; 2001:199-208.
 27. Tarnopolsky M. Protein metabolism in strength and endurance activities. In: Lamb DR, Murray R, eds. *The Metabolic Basis of Performance in Exercise and Sport: Vol. 12, Perspectives in Exercise Science and Sports Medicine* . Carmel, IN: Cooper; 1999:125-157.
 28. Lemon PW, Mullin JP. Effect of initial muscle glycogen levels on protein catabolism during exercise. *J Appl Physiol Respir Environ Exerc Physiol* . 1980;48(4):624-629.
 29. Meeusen R, Watson P. Amino acids and the brain: do they play a role in “central fatigue”? *Int J Sport Nutr Exerc Metab* . 2007;17(suppl 1):S37- S46.
 30. Newsholme EA, Blomstrand E, Ekblom B. Physical and mental fatigue: metabolic mechanisms and importance of plasma amino acids. *Br Med Bull* . 1992;48(3):477-495.
 31. Wiles J, Woodward R, Bird SR. Effect of pre-exercise protein ingestion upon VO₂, R and perceived exertion during treadmill running. *Br J Sports Med* . 1991;25(1): 26-30.
 32. Graham TE, Turcotte LP, Kiens B, Richter EA. Training and muscle ammonia and amino acid metabolism in humans during prolonged exercise. *J Appl Physiol* . 1995;78(2):725-735.
 33. Lambert EV, Speechly DP, Dennis SC, Noakes TD. Enhanced endurance in trained cyclists during moderate intensity exercise following 2 weeks adaptation to a high fat diet. *Eur J Appl Physiol Occup Physiol* . 1994;69(4):287-293.
 34. Evans WJ, Fisher EC, Hoerr RA, Young VR. Protein metabolism and endurance exercise. *Phys Sports Med* . 1983;11(7):63-162.
 35. Tarnopolsky MA, Atkinson SA, MacDougall JD, Senior BB, Lemon PW, Schwarz H. Whole body leucine metabolism during and after resistance exercise in fed humans. *Med Sci Sports Exerc* . 1991;23(3): 326-333.
 36. Wagenmakers AJ, Coakley JH, Edwards RH. Metabolism of branched chain amino acids and ammonia during exercise: clues from McArdle’s disease. *Int J Sports Med* . 1990;11:101S-113S.
 37. McCleave EL, Ferguson-Stegall L, Ding Z, et al. A low carbohydrate– protein supplement improves endurance performance in female athletes. *J Strength Cond Res* . 2011;25(4):879-888.
 38. van Loon L, Saris W, Krujshoop M, Wagenmakers A. Maximizing post-exercise muscle glycogen synthesis: carbohydrate supplementation and the application of amino acid and protein hydrolysate mixtures. *Am J Clin Nutr* . 2000;72(1):106-111.
 39. Kontro H, Kozior M, Whelehan G, et al. Carbohydrate and protein coingestion postexercise does not improve next-day performance in trained cyclists. *Int J Sport Nutr Exerc Metab* . 2021;31(6):466-474.
 40. Ivy JL, Res PT, Sprague RC, Widzer MO. Effect of a carbohydrate-protein supplement on endurance performance during exercise of varying intensity. *Int J Sport Nutr Exerc Metab* . 2003;13(3):382-395.
 41. Davis JM, Bailey SP. Possible mechanisms of central nervous system fatigue during exercise. *Med Sci Sports Exerc* . 1997;29(1):45-57.
 42. Blomstrand E, Hassmén P, Ekblom B, Newsholme EA. Administration of branched-chain amino acids during sustained exercise— effects on performance and on plasma concentration of some amino acids. *Eur J Appl Physiol Occup Physiol* . 1991;63(2):83-88.
 43. van Hall G, Raaymakers JS, Saris WH, Wagenmakers AJ. Ingestion of branched-chain amino acids and tryptophan during sustained exercise in man: failure to affect performance. *J Physiol* . 1995;486(3):789-794.
 44. Blomstrand E, Andersson S, Hassmen P, Ekblom B, Newsholme E. Effect of branched-chained amino acid and carbohydrate supplementation on the exercise-induced change in plasma and muscle concentration of amino acids in human subjects. *Acta Physiol Scand* . 1995;153(2):87-96.
 45. Mittleman KD, Ricci MR, Bailey SP. Branched-chain amino acids prolong exercise during heat stress in men and women. *Med Sci Sports Exerc* . 1998;30(1):83-91.
 46. Pallota JA, Kennedy PJ. Response of plasma insulin and growth hormone to carbohydrate and protein feedings. *Metabolism* . 1968;17(10):901-908.
 47. Spiller GA, Jensen CD, Pattison TS, Chuck CS, Whittam JH, Scala J. Effect of protein dose on serum glucose and insulin response to sugars. *Am J Clin Nutr* . 1987;46(3):474-480.
 48. Zawadzki KM, Yaspelkis 3 rd BB, Ivy JL. Carbohydrate-protein complex increases the rate of muscle glycogen storage post exercise. *J Appl Physiol* . 1992;72(5):1854-1859.
 49. Karp JR, Johnston JD, Tecklenburg S, Mickleborough T, Fly A, Stager JM. The efficacy of chocolate milk as a recovery aid. *Med Sci Sports Exerc* . 2004;36 (5 suppl):126S, Abstract 0850.
 50. Iwayama K, Tanabe Y, Yajima K, Tanji F, Onishi T, Takahashi H. Preexercise high-fat meal following carbohydrate loading attenuates glycogen utilization during endurance exercise in male recreational runners [published online ahead of print, 2022 Sep 22]. *J Strength Cond Res* . 2022;37(3):661-668. 10.1519/JSC.0000000000004311.
 51. Shaw DM, Merien F, Braakhuis A, Maunder ED, Dulson DK. Effect of a ketogenic diet on submaximal exercise capacity and

- efficiency in runners. *Med Sci Sports Exerc* . 2019;51(10):2135-2146.
52. Burke LM, Whitfield J, Heikura IA, et al. Adaptation to a low carbohydrate high fat diet is rapid but impairs endurance exercise metabolism and performance despite enhanced glycogen availability. *J Physiol*. 2021;599(3):771-790.
 53. Helge JW, Wulff B, Kiens B. Impact of a fat-rich diet on endurance in man: role of the dietary period. *Med Sci Sports Exerc* . 1998;30(3):456- 461.
 54. Helge JW, Richter EA, Kiens B. Interaction of training and diet on metabolism and endurance during exercise in man. *J Physiol* . 1996;492(1):293-306.
 55. Venkatraman JT, Pendergast D. Effects of the level of dietary fat intake and endurance exercise on plasma cytokines in runners. *Med Sci Sports Exerc* . 1998;30(8):1198-1204.
 56. Volek JS, Noakes T, Phinney SD. Rethinking fat as a fuel for endurance exercise. *Eur J Sport Sci* . 2015;15(1):13-20.
 57. Décombaz J, Arnaud M-J, Milon H, et al. Energy metabolism of medium-chain triglycerides versus carbohydrates during exercise. *Eur J Appl Physiol Occup Physiol* . 1983;52(1):9-14.
 58. Ivy JL, Coštilil DL, Fink WJ, Maglischo E. Contribution of medium and long-chain triglyceride intake to energy metabolism during prolonged exercise. *Int J Sports Med* . 1980;1(1):15-20.
 59. Van Zyl CG, Lambert EV, Hawley JA, Noakes TD, Dennis SC. Effects of medium-chain triglyceride ingestion on fuel metabolism and cycling performance. *J Appl Physiol* . 1996;80(6):2217-2225.
 60. Jeukendrup AE, Thielen JJ, Wagenmakers AJ, Brouns F, Saris WH. Effect of medium-chain triacylglycerol and carbohydrate ingestion during exercise on substrate utilization and subsequent cycling performance. *Am J Clin Nutr* . 1998;67(3):397-404.
 61. Williams MH. Vitamin supplementation and athletic performance. *Int J Vitam Nutr Res Suppl* . 1989;30:163-191. 62. Institute of Medicine. Dietary Reference Intakes for Vitamin C, Vitamin E, Selenium, and Carotenoids . Food and Nutrition Board. Washington, DC: National Academies Press; 2000.
 63. Martinez-Ferran M, Sanchis-Gomar F, Lavie CJ, Lippi G, Pareja Galeano H. Do antioxidant vitamins prevent exercise-induced muscle damage? A systematic review. *Antioxidants* . 2020;9(5):372.
 64. Telford RD, Sly GJ, Hahn AG, Cunningham RB, Bryant C, Smith JA. Footstrike is the major cause of hemolysis during running. *J Appl Physiol* . 2003;94(1):38-42.
 65. Shaskey DJ, Green GA. Sports haematology. *Sports Med* . 2000;29(1):27-38.
 66. McDermott BP, Anderson SA, Armstrong LE, et al. National Athletic Trainers' Association position statement: fluid replacement for the physically active. *J Athl Train*. 2017;52(9):877-895.
 67. Hoffman MD. Proper hydration during ultra-endurance activities. *Sports Med Arthrosc Rev* . 2019;27(1):8-14.
 68. Iuliano S, Naughton G, Collier G, Carlson J. Examination of the self-selected fluid intake practices by junior athletes during a simulated duathlon event. *Int J Sports Nutr Exer Metab* . 1998;8(1):10-23.
 69. Shirreffs SM, Armstrong LE, Chevront SN. Fluid and electrolyte needs for preparation and recovery from training and competition. *J Sports Sci* . 2004;22(1):57-63.

منابع

1. Benardot D, Schwarz M, Heller DW. Nutrient intake in young, highly competitive gymnasts. *J Am Diet Assoc* . 1989;89(3):401-403.
2. Villa M, Villa-Vicente JG, Seco-Calvo J, Mielgo-Ayuso J, Collado PS. Body composition, dietary intake and the risk of low energy availability in elite-level competitive rhythmic gymnasts. *Nutrients* . 2021;13(6):2083. <https://doi.org/10.3390/nu13062083>
3. Kirchner EM, Lewis RD, O'Connor PJ. Bone mineral density and dietary intake of female college gymnasts. *Med Sci Sports Exerc* . 1995;27(4):543-549.
4. Moffatt RJ. Dietary status of elite female high school gymnasts: inadequacy of vitamin and mineral intake. *J Am Diet Assoc* . 1984;84(11):1361-1363.
5. National Research Council. Recommended Dietary Allowances . Washington, DC: National Academy of Sciences; 1989.
6. Forbes GB. Body composition: influence of nutrition, disease, growth and aging. In: Shils ME, Olson JA, Shike M, eds. *Modern Nutrition in Health and Disease* . Philadelphia, PA: Lea and Febiger; 1994:781-801.
7. Kreider RB. Dietary supplements and the promotion of muscle growth with resistance exercise. *Sports Med* . 1999;27:97-110.
8. Tesch PA, Colliander EB, Kaiser P. Muscle metabolism during intense, heavy-resistance exercise. *Eur J Appl Physiol Occup Physiol* . 1986;55:362-366.
9. Pascoe DD, Coštilil DL, Fink WJ, Robergs RA, Zachwieja JJ. Glycogen resynthesis in skeletal muscle following resistance exercise. *Med Sci Sports Exerc* . 1993;25(3):349-354.
10. Robergs RA, Pearson DR, Coštilil DL, et al. Muscle glycogenolysis during differing intensities of weight-resistance exercise. *J Appl Physiol* . 1991;70(4): 1700-1706.
11. Balsom PD, Gaitanos GC, Söderlund K, Ekblom B. High-intensity exercise and muscle glycogen availability in humans. *Acta Physiol Scand* . 1999;165(4):337-345.
12. Casey A, Short AH, Curtis S, Greenhaff PL. The effect of glycogen availability on power output and the metabolic response to repeated bouts of maximal, isokinetic exercise in man. *Eur J Appl Physiol Occup Physiol* . 1996;72(3):249-255.
13. Maughan RJ, Greenhaff PL, Leiper JB, Ball D, Lambert CP, Gleeson M. Diet composition and the performance of high-intensity exercise. *J Sports Sci* . 1997;15(3):265-275.
14. Rockwell MS, Rankin JW, Dixon H. Effects of muscle glycogen on performance of repeated sprints and mechanisms of fatigue. *Int J Sports Nutr Exer Metab* . 2003;13(1):1-14.
15. Hirvonen J, Nummela A, Rusko H, Reuhonen S, Härkönen M. Fatigue and changes of ATP, creatine phosphate, and lactate during the 400-m sprint. *Can J Sports Sci* . 1992;17(2):141-144.
16. Kraemer WJ, Ratamess NA, Hymer WC, Nindl BC, Fragala MS. Growth hormone(s), testosterone, insulin-like growth factors, and cortisol: roles and integration for cellular development and growth with exercise. *Frontiers* . 2020;11. <https://www.frontier->

sin.org/articles/10.3389/fendo.2020.00033

17. Tipton KD, Rasmussen BB, Miller SL, et al. Timing of amino acid/carbohydrate ingestion alters anabolic response of muscle to resistance exercise. *Am J Physiol Endo Metab* . 2001;281(2):E197-E206.
18. Rogozkin VA. Weightlifting and power events. In: Maughan RJ, ed. *Nutrition in Sport* . Malden, MA: Blackwell Science; 2000:621-631.
19. Thomas DT, Erdman KA, Burke LM. Position statement of the Academy of Nutrition and Dietetics, Dietitians of Canada, and the American College of Sports Medicine: Nutrition and athletic performance. 2016;116(3), 501-528.
20. Institute of Medicine. *Dietary Reference Intakes for Energy, Carbohydrate, Fiber, Fat, Fatty Acids, Cholesterol, Protein and Amino Acids (Macronutrients)* . Food and Nutrition Board. Washington, DC: National Academies Press; 2002.
21. Cheatham ME, Boobis LH, Brooks S, Williams C. Human muscle metabolism during sprint running. *J Appl Physiol* . 1986;61(1):54-60.
22. Spriet LL, Lindinger ML, McKelvie RS, Heigenhauser GJ, Jones NL. Muscle glycogenolysis and H⁺ concentration during maximal intermittent cycling. *J Appl Physiol* . 1989;66(1):8-13.
23. Haff GG, Koch AJ, Potteiger JA, et al. Carbohydrate supplementation attenuates muscle glycogen loss during acute bouts of resistance exercise. *Int J Sports Nutr Exerc Metab* . 2000;10(3):326-339.
24. Lambert CP, Flynn MG, Boone JB, Michaud TJ, Rodriguez-Zayas J. Effects of carbohydrate feeding on multiple-bout resistance exercise. *J Strength Appl Cond Res* . 1991;5(4):192-197.
25. Conley MS, Stone MH. Carbohydrate ingestion/supplementation or resistance exercise and training. *Sports Med* . 1996;21(1):7-17.
26. Vincent KR, Clarkson PM, Freedson PS, DeCheke M. 1092 Effect of a pre-exercise liquid, high carbohydrate feeding on resistance exercise performance (abstract). *Med Sci Sports Exerc* . 1993;25(5):194S.
27. Rennie MJ, Tipton KD. Protein and amino acid metabolism during and after exercise and the effects of nutrition. *Annu Rev Nutr* . 2000;20:457- 483.
28. Suzuki K, Hayashida H. Effect of exercise intensity on cell-mediated immunity. *Sports* . 2021;9(1):8. <https://doi.org/10.3390/sports9010008>
29. Walsh NP, Gleeson M, Shephard RJ, et al. Position statement: Part One: Immune function and exercise. *Exerc Immunol Rev* . 2011;17:6-63.
30. Jin CH, Paik IY, Kwak YS, Jee YS, Kim JY. Exhaustive submaximal endurance and resistance exercises induce temporary immunosuppression via physical and oxidative stress. *J Exerc Rehab* . 2015;11(4):198-203.
31. Gleeson M, Williams C. Intense exercise training and immune function. *Nestlé Nutr Instr Workshop Ser*. 2013;76:39-50.
32. Chan MA, Koch AJ, Benedict SH, Potteiger JA. Influence of carbohydrate ingestion on cytokine responses following acute resistance exercise. *Int J Sports Nutr Exerc Metab* . 2003;13(4):454-465.
33. Nehlsen-Cannarella SL, Fagoaga OR, Nieman DC, et al. Carbohydrate and the cytokine response to 2.5 h of running. *J Appl Physiol* . 1997;82(5):1662-1667.
34. Nieman DC, Lila MA, Gillitt ND. Immunometabolism: a multi-omics approach to interpreting the influence of exercise and diet on the immune system. *Ann Rev Food Sci Technol* . 2019;10(1):341-363. <https://doi.org/10.1146/annurev-food-032818-121316>
35. Nieman DC, Nehlsen-Cannarella SL, Fagoaga OR, et al. Effects of mode and carbohydrate on the granulocyte and monocyte response to intensive, prolonged exercise. *J Appl Physiol* . 1998;84(4):1252-1259.
36. Butterfield GE, Calloway DH. Physical activity improves protein utilization in young men. *Br J Nutr* . 1984;51(2):171-184.
37. Jäger R, Kerksick CM, Campbell BI, et al. International Society of Sports Nutrition position stand: protein and exercise. *J Int Soc Sports Nutr* . 2017;14(1): 2-25. <https://doi.org/10.1186/s12970-017-0177-8>
38. Schoenfeld B, Fisher J, Grgic J, et al. Resistance training recommendations to maximize muscle hypertrophy in an athletic population: position stand of the IUSCA. *International Journal of Strength and Conditioning* . 2021;1(1):1-30. <https://doi.org/10.47206/ijsc.v1i1.81>
39. Maughan RJ. The athlete's diet: nutritional goals and dietary strategies. *Proc Nutr Soc* . 2002;61(1): 87-96.
40. Tipton KD, Wolfe RR. Exercise, protein metabolism, and muscle growth. *Int J Sport Nutr Exerc Metab* . 2001;11(1):109-132.
41. Rasmussen BB, Wolfe RR, Volpi E. Oral and intravenously administered amino acids produce similar effects on muscle protein synthesis in the elderly. *J Nutr Health Aging* . 2002;6(6):358-362.
42. Rasmussen BB, Phillips SM. Contractile and nutritional regulation of human muscle growth. *Exerc Sport Sci Rev* . 2003;31(3):127-131.
43. Valenzuela PL, Morales JS, Emanuele E, Pareja-Galeano H, Lucia A. Supplements with purported effects on muscle mass and strength. *Eur J Nutr* . 2019;58(8):2983-3008. <https://doi.org/10.1007/s00394-018-1882-z>
44. Rowbottom DG, Keast D, Morton AR. The emerging role of glutamine as an indicator of exercise stress and overtraining. *Sports Med* . 1996;21(2):80-97.
45. Newsholme P, Diniz VL, Dodd GT, Cruzat V. Glutamine metabolism and optimal immune and CNS function. *Proc Nutr Soc*. 2023;82(1):22-31. <https://doi.org/10.1017/S0029665122002749>
46. Rennie MJ, Tadros L, Khogali S, Ahmed A, Taylor PM. Glutamine transport and its metabolic effects. *J Nutr* . 1994;124(suppl 8):1530S1508S.
47. Rennie MJ. Glutamine metabolism and transport in skeletal muscle and heart and their clinical relevance. *J Nutr* . 1996;126(suppl 4):1142S1149S.
48. Ramezani Ahmadi A, Rayyani E, Bahreini M, Mansoori A. The effect of glutamine supplementation on athletic performance, body composition, and immune function: a systematic review and a meta-analysis of clinical trials. *Clin Nutr* . 2019;38(3):1076-1091. <https://doi.org/10.1016/j.clnu.2018.05.001>
49. Zaronoskyte G, Prokopidis K, Ioannidis T, Tipton KD, Witard OC. Evaluating the Leucine Trigger Hypothesis to explain the post-prandial regulation of muscle protein synthesis in young and older adults: a systematic review. *Front Nutr*. 2021;8. <https://www.frontiersin.org/articles/10.3389/fnut.2021.685165>
50. Suminski RR, Robertson RJ, Goss FL, et al. Acute effect of amino acid ingestion and resistance exercise on plasma growth hormone concentration in young men. *Int J Sports Nutr* . 1997;7(1):48-60.
51. Cade JR, Reese RH, Privette RM, Hommen NM, Rogers JL, Fregly MJ. Dietary intervention and training in swimmers. *Eur J Appl*

- Physiol Occup Physiol . 1991;63:210-215.
52. Carli G, Bonifazi M, Lodi L, Lupo C, Martelli G, Viti A. Changes in exercise-induced hormone response to branched chain amino acid administration. *Eur J Appl Physiol Occup Physiol* . 1992;64(3):272-277.
 53. Poortmans J. Use and usefulness of amino acids and related substances during physical exercise. In: Packer L, Benzi G, Siliprandi N, eds. *Biochemical Aspects of Physical Exercise* . Amsterdam: Elsevier; 1986:285-294.
 54. Wagenmakers AJM. Muscle amino acid metabolism at rest and during exercise: role in human physiology and metabolism. In: Holloszy JO, ed. *Exercise and Sport Science Reviews* . Baltimore, MD: Williams & Wilkins; 1998:287-314.
 55. Arent SM, Cintineo HP, McFadden BA, Chandler AJ, Arent MA. Nutrient timing: a garage door of opportunity? *Nutrients* . 2020;12(7):1948. <https://doi.org/10.3390/nu12071948>
 56. Schoenfeld BJ, Aragon AA. Is there a postworkout anabolic window of opportunity for nutrient consumption? clearing up controversies. *J Ortho Sports Phys Ther* . 2018;48(12):911-914. <https://doi.org/10.2519/jospt.2018.0615>
 57. Chandler RM, Byrne HK, Patterson JG, Ivy JL. Dietary supplements affect the anabolic hormones after weight-training exercise. *J Appl Physiol* . 1994;76(2): 839-845.
 58. Rasmussen BB, Tipton KD, Miller SL, Wolf SE, Wolfe RR. An oral essential amino acid-carbohydrate supplement enhances muscle protein anabolism after resistance exercise. *J Appl Physiol* . 2000;88(2): 386-392.
 59. Nielsen FH, Hunt CD, Mullen LM, Hunt JR. Effect of dietary boron on mineral, estrogen, and testosterone metabolism in postmenopausal women. *FASEB J* . 1987;1(5):394-397.
 60. Ferrando AA, Green NR. The effect of boron supplementation on lean body mass, plasma testosterone levels, and strength in male body builders. *Int J Sports Nutr Exerc Metab* . 1993;3(2):140-149.
 61. Institute of Medicine. *Dietary Reference Intakes for Vitamin A, Vitamin K, Arsenic, Boron, Chromium, Copper, Iodine, Iron, Manganese, Molybdenum, Nickel, Silicon, Vanadium, and Zinc* . Food and Nutrition Board. Washington, DC: National Academies Press; 2000.
 62. Zemel MB. Role of calcium and dairy products in energy partitioning and weight management. *Am J Clin Nutr* . 2004;79(suppl 5):907S-912S
 63. Zemel MB, Thompson W, Milstead A, Morris K, Campbell P. Calcium and dairy acceleration of weight and fat loss during energy restriction in obese adults. *Obes Res* . 2004;12(4):582-590.
 64. Willoughby D, Hewlings S, Kalman D. Body composition changes in weight loss: strategies and supplementation for maintaining lean body mass, a brief review. *Nutrients* . 2018;10(12):1876. <https://doi.org/10.3390/nu10121876>
 65. Haften DL, Rome EP, Franks BD, Hegsted M. Effects of chromium picolinate on beginning weight training students. *Int J Sports Nutr Exerc Metab* . 1992;2(4):343-350.
 66. Campbell WW, Joseph LJ, Anderson RA, Davey SL, Hinton J, Evans WJ. Effects of resistive training and chromium picolinate on body composition and skeletal muscle size in older women. *Int J Sports Nutr Exerc Metab* . 2002;12(2):125-135.
 67. Heffernan SM, Horner K, De Vito G, Conway GE. The role of mineral and trace element supplementation in exercise and athletic performance: a systematic review. *Nutrients* . 2019;11(3):696. <https://doi.org/10.3390/nu11030696>
 68. Hallmark MA, Reynolds TH, DeSouza CA, Dotson RA, Anderson RA, Rogers MA. Effects of chromium and resistive training on muscle strength and body composition. *Med Sci Sports Exerc* . 1996;28(1):139- 144.
 69. Trent LK, Thieding-Cancel D. Effects of chromium picolinate on body composition. *J Sports Med Phys Fitness* . 1995;35(4):273-280.
 70. Brigham DE, Beard JL, Krimmel RS, Kenney WL. Changes in iron status during competitive season in female collegiate swimmers. *Nutrition* . 1993;9(5):418-422.
 71. Maughan RJ, Burke LM, Dvorak J, et al. IOC consensus statement: dietary supplements and the high-performance athlete. *Int J Sport Nutr Exerc Metab* . 2018;28(2):104-125. <https://doi.org/10.1123/ijsnem.2018-0020>
 72. Peeling P, Binnie MJ, Goods PS., Sim M, Burke LM. Evidence-based supplements for the enhancement of athletic performance. *Int J Sport Nutr Exerc Metab* . 2018;28(2):178-187. <https://doi.org/10.1123/ijsnem.2017-0343>
 73. Steen SN, Brownell KD. Patterns of weight loss and regain in wrestlers: has the tradition changed? *Med Sci Sports Exerc* . 1990;22(6):762-768.
 74. National Collegiate Athletic Association. *NCAA Wrestling Rules and Interpretations* . Indianapolis, IN: National Collegiate Athletic Association; 2003: WR23-WR34.
 75. National Federation of State High School Associations. *Wrestling Weight Management Program*. Indianapolis, IN: National Federation of State High School Associations; 2001:25-34.
 76. Harcourt BA, Panagiotopoulos M, Sardelis S, Terzis G, Bogdanis GC. The effect of dehydration on vertical jump, muscle strength and sprint performance. *Proceedings* . 2019;25(1):10. <https://doi.org/10.3390/proceedings2019025010>
 77. Burge CM, Carey MF, Payne WR. Rowing performance, fluid balance, and metabolic function following dehydration and rehydration. *Med Sci Sports Exerc* . 1993;25(12):1358-1364.
 78. Oöpik V, Pääsuke M, Sikku T, et al. Effect of rapid weight loss on metabolism and isokinetic performance capacity. A case study of two well trained wrestlers. *J Sports Med Phys Fitness* . 1996;36(2):127-131.
 79. Wilmore JH. Weight category sports. In: Maughan RJ, ed. *Nutrition in Sport* . Malden, MA: Blackwell Science; 2000:637-645.
 80. Fogelholm M. Effects of bodyweight reduction on sports performance. *Sports Med* . 1994;18(4):249-267.
 81. Horswill CA. Physiology and nutrition for wrestling. In: Knotted HG, Lamb DR, Murray R, eds. *Physiology and Nutrition for Competitive Sport* . Carmel, IN: Cooper; 1994:131-174.
 82. Keller HL, Tully SE, Freedson PS. Weight loss in adolescent wrestlers. *Pediatr Exerc Sci* . 1994;6(3):211-224.
 83. Oppliger RA, Case HS, Horswill CA, Landry GL, Shelter AC. American College of Sports Medicine position stand. Weight loss in wrestlers. *Med Sci Sports Exerc* . 1996;28(10):135-138.

منابع

1. Rico-Sanz J, Frontera WR, Molé PA, MA Rivera, Rivera-Brown A, Meredith CN. Dietary and performance assessment of elite soccer players during a period of intense training. *Int J Sport Nutr Exerc Metab* . 1998;8(3):230-240.

2. Rico-Sanz J. Body composition and nutritional assessments in soccer. *Int J Sport Nutr Exerc Metab* . 1998;8(2):113-123.
3. Wildman R, Miller B. *Sports and Fitness Nutrition* . Belmont, CA: Thompson Wadsworth; 2004.
4. Anzell AR, Potteiger JA, Kraemer WJ, Otieno S. Changes in height, body weight, and body composition in American football players from 1942 to 2011. *J Strength Cond Res* . 2013;27(2):277-284. doi:10.1519/JSC.0b013e31827f4c08
5. Secora CA, Latin RW, Berg KE, Noble JM. Comparison of physical and performance characteristics of NCAA Division I football players: 1987 and 2000. *J Strength Cond Res* . 2004;18(2):286-291.
6. Jenner SL, Buckley GL, Belski R, Devlin BL, Forsyth AK. Dietary intakes of professional and semi-professional team sport athletes do not meet sport nutrition recommendations—a systematic literature review. *Nutrients* . 2019;11(5):1160. doi:10.3390/nu11051160
7. Renard M, Kelly DT, Chéilleachair NN, Catháin CÓ. How does the dietary intake of female field-based team sport athletes compare to dietary recommendations for health and performance? A systematic literature review. *Nutrients* . 2021;13(4):1235. doi:10.3390/nu13041235
8. Rosenbloom C. *Sports Nutrition—A Guide for the Professional Working with Active People* . 3rd ed. Chicago, IL: American Dietetic Association; 2000.
9. Vigh-Larsen JF, Ørtenblad N, Spriet LL, Overgaard K, Mohr M. Muscle Glycogen Metabolism and High-Intensity Exercise Performance: A Narrative Review. *Sports Medicine* . 2021;51(9):1855-1874.
10. Baker LB, Rollo I, Stein KW, Jeukendrup AE. Acute effects of carbohydrate supplementation on intermittent sports performance. *Nutrients* . 2015;7(7):5733-5763. doi:10.3390/nu7075249
11. Vigh-Larsen JF, Mohr M. The physiology of ice hockey performance: an update. *Scand J Med Sci Sports* . 2022;00:1-14.. doi:10.1111/sms.14284
12. Michalczyk MM, Chycki J, Zajac A, Maszczyk A, Zydek G, Langfort J. Anaerobic performance after a low-carbohydrate diet (LCD) followed by 7 days of carbohydrate loading in male basketball players. *Nutrients* . 2019;11(4):778. doi:10.3390/nu11040778
13. Burke LM, Kiens B, Ivy JL. Carbohydrates and fat for training and recovery. *J Sports Sci* . 2004;22(1):15-30.
14. Stellingwerff T, Morton JP, Burke LM. A framework for periodized nutrition for athletics. *Int J Sport Nutr Exer Metabol* . 2019;29(2):141- 151. doi:10.1123/ijnsnem.2018-0305
15. Casillo M, Lozano-Casanova M, Sospedra I, Norte A, Gutiérrez-Hervás A, Martínez-Sanz JM. Energy and macronutrients intake in indoor sport team athletes: systematic review. *Nutrients* . 2022;14(22):4755. doi:10.3390/nu14224755
16. Rodriguez-Giustini P, Rollo I, Witard OC, Galloway SDR. Ingesting a 12% carbohydrate-electrolyte beverage before each half of a soccer match simulation facilitates retention of passing performance and improves high-intensity running capacity in academy players. *Int J Sport Nutr Exer Metab* . 2019;29(4):397-405. doi:10.1123/ijnsnem.2018-0214
17. Sun F-H, Cooper SB, Chak-Fung Tse F. Effects of different solutions consumed during exercise on cognitive function of male college soccer players. *J Exer Sci Fitness* . 2020;18(3):155-161. doi:10.1016/j.jesf.2020.06.003
18. Forbes SC, Candow DG, Smith-Ryan AE, et al. Supplements and nutritional interventions to augment high-intensity interval training physiological and performance adaptations—a narrative review. *Nutrients* . 2020;12(2):390. doi:10.3390/nu12020390
19. Davis JK, Oikawa SY, Halson S, et al. In-season nutrition strategies and recovery modalities to enhance recovery for basketball players: a narrative review. *Sports Med* . 2022;52(5):971-993. doi:10.1007/s40279- 021-01606-7
20. Heaton LE, Davis JK, Rawson ES, et al. Selected in-season nutritional strategies to enhance recovery for team sport athletes: a practical overview. *Sports Med* . 2017;47(11):2201-2218. doi:10.1007/s40279- 017-0759-2
21. Papadopoulou SK. Rehabilitation nutrition for injury recovery of athletes: the role of macronutrient intake. *Nutrients* . 2020;12(8):2449. doi:10.3390/nu12082449
22. Stokes T, Hector AJ, Morton RW, McGlory C, Phillips SM. Recent perspectives regarding the role of dietary protein for the promotion of muscle hypertrophy with resistance exercise training. *Nutrients* . 2018;10(2):180. doi:10.3390/nu10020180
23. Tipton KD, Wolfe RR. Protein and amino acids for athletes. *J Sports Sci* . 2004;22(1):65-79.
24. International Olympic Committee. IOC consensus statement on sports nutrition 2010. *J Sports Sci* . 2011;29(suppl 1):S3-S4.
25. Gacek M. Sense of self-efficacy and the content of energy and nutrients in the diet of elite Polish basketball players. *Rocz Panstw Zakl Hig* . 2022;73(2):183-189. doi:10.32394/rpzh.2022.0203
26. Sesbreno E, Dziedzic CE, Sygo J, et al. Elite male volleyball players are at risk of insufficient energy and carbohydrate intake. *Nutrients* . 2021;13(5):1435. doi:10.3390/nu13051435
27. Nepocatyč S, Balilionis G, O’Neal EK. Elon University, Department of Exercise Science, Elon, USA, , The University of North Alabama, Department of Health, Physical Education and Recreation, Florence, USA. Analysis of dietary intake and body composition of female athletes over a competitive season. *Monten J Sports Sci Med* . 2017;6(2):57-65. doi:10.26773/mjssm.2017.09.008
28. Fleming J, Sharman MJ, Avery NG, et al. Endurance capacity and highintensity exercise performance responses to a high fat diet. *Int J Sport Nutr Exer Metab* . 2003;13(4):466-478.
29. Burke LM, Kiens B, Ivy JL. Carbohydrates and fat for training and recovery. *J Sports Sci* . 2004;22(1):15-30.
30. van Loon LJ, Greenhaff PL, Constantin-Teodosiu D, Saris WH, Wagenmakers AJ. The effects of increasing exercise intensity on muscle fuel utilisation in humans. *J Physiol* . 2001;536(1):295-304.
31. van Loon LJ, Schrauwen-Hinderling VB, Koopman R, et al. Influence of prolonged endurance cycling and recovery diet on intramuscular triglyceride content in trained males. *Am J Physiol Endocrinol Metab* . 2003;285(4):E804-E811.
32. Hinton PS, Sanford TC, Davidson MM, Yakushko OF, Beck NC. Nutrient intakes and dietary behaviors of male and female collegiate athletes. *Int J Sport Nutr Exerc Metab* . 2004;14(4):389-405.
33. Beals KA. Eating behaviors, nutritional status, and menstrual function in elite female adolescent volleyball players. *J Am Diet Assoc* . 2002;102(9):1293-1296.
34. Peake JM. Vitamin C: effects of exercise and requirements with training. *Int J Sport Nutr Exer Metab* . 2003;13(2):125-151.
35. Schröder H, Navarro E, Tramullas A, Mora J, Galiano D. Nutrition antioxidant status and oxidative stress in professional basketball players: effects of a three compound antioxidative supplement. *Int J Sports Med* . 2000;21(2):146-150.
36. Sim M, Garvican-Lewis LA, Cox GR, et al. Iron considerations for the athlete: a narrative review. *Eur J Appl Physiol* . 2019;119(7):1463-1478. doi:10.1007/s00421-019-04157-y
37. McClung JP, Gaffney-Stromberg E, Lee JJ. Female athletes: a population at risk of vitamin and mineral deficiencies affecting

- health and performance. *J Trace Elem Med Biol* . 2014;28(4):388-392.
38. Dubnov G, Constantin NW. Prevalence of iron depletion and anemia in top-level basketball players. *Int J Sport Nutr Exerc Metab* . 2004;14(1):30-37.
 39. Thomas DT, Erdman KA, Burke LM. Position of the Academy of Nutrition and Dietetics, Dietitians of Canada, and the American College of Sports Medicine: Nutrition and Athletic Performance. *J Acad Nutr Diet* . 2016;116(3):501-528. doi:10.1016/j.jand.2015.12.006
 40. Papadopoulou SK, Papadopoulou SD, Gallos GK. Macro- and micro-nutrient intake of adolescent Greek female volleyball players. *Int J Sport Nutr Exerc Metab* . 2002;12(1):73-80.
 41. Clark M, Reed DB, Crouse SF, Armstrong RB. Pre- and post-season dietary intake, body composition, and performance indices of NCAA Division I female soccer players. *Int J Sport Nutr Exerc Metab* . 2003;13(3):303-319.
 42. Nicholas CW, Williams C, Lakomy HK, Phillips G, Nowitz A. Influence of ingesting a carbohydrate-electrolyte solution on endurance capacity during intermittent, high-intensity shuttle running. *J Sports Sci* . 1995;13(4):283-290.
 43. Hassapidou MN, Manstrantoni A. Dietary intakes of elite female athletes in Greece. *J Human Nutr Diet* . 2001;14(5):391-396.
 44. Vento KA, Wardenaar FC. Third-party testing nutritional supplement knowledge, attitudes, and use among an NCAA I collegiate student athlete population. *Front Sports Active Liv* . 2020;2. Accessed January 27, 2023.
 45. Hamilton KP, Ziegler J, Samavat H, et al. Nutritional supplement use and athletic characteristics among a sample of NCAA Division I and Division III student-athletes. *J Diet Suppl* . 2022;0(0):1-15. doi:10.1080/19390211.2022.2140740
 46. Barnes KA, Anderson ML, Stofan JR, et al. Normative data for sweating rate, sweat sodium concentration, and sweat sodium loss in athletes: an update and analysis by sport. *J Sports Sci* . 2019;37(20):2356-2366. doi:10.1080/02640414.2019.1633159
 47. Bigg JL, Gamble ASD, Vermeulen TF, et al. Sweat loss and hydration habits of female olympic, varsity and recreational ice hockey players. *Int J Sports Med* . 2019;40(6):416-422. doi:10.1055/a-0877-7028
 48. McDermott BP, Anderson SA, Armstrong LE, et al. National Athletic Trainers' Association position statement: fluid replacement for the physically active. *J Athl Train* . 2017;52(9):877-895. doi:10.4085/1062-6050-52.9.02
 49. Reilly T. Energetics of high-intensity exercise (soccer) with particular reference to fatigue. *J Sports Sci* . 1997;15(3):257-263.
 50. Oštjic SM, Mazic S. Effects of a carbohydrate-electrolyte drink on specific soccer tests and performance. *J Sports Sci Med* . 2002;1(2):47-53.
 51. Nicholas CW, Tsintzas K, Boobis L, Williams C. Carbohydrate-electrolyte ingestion during intermittent high-intensity running. *Med Sci Sports Exerc* . 1999;31(9):1280-1286.
 52. Welsh RS, Davis JM, Burke JR, Williams HG. Carbohydrates and physical/mental performance during intermittent exercise to fatigue. *Med Sci Sports Exerc* . 2002;34(4):723-731.
 53. Kovacs EM, Schmahl RM, Senden JM, Brouns F. Effect of high and low rates of fluid intake on post-exercise rehydration. *Int J Sport Nutr Exerc Metab* . 2002;12(1):14-23.
 54. McCubbin AJ, Allanson BA, Odgers JN, et al. Sports Dietitians Australia Position Statement: Nutrition for Exercise in Hot Environments. *Int J Sport Nutr Exerc Metab* . 2020;30(1):83-98. doi:10.1123/ijnsnem.2019-0300
 55. American College of Sports Medicine, Sawka MN, Burke LM, et al. American College of Sports Medicine position stand. Exercise and fluid replacement. *Med Sci Sports Exerc* . 2007;39(2):377-390. doi:10.1249/mss.0b013e31802ca597
 56. Dabinett JA, Reid K, James N. Educational strategies used in increasing fluid intake and enhancing hydration status in field hockey players preparing for competition in a hot and humid environment: a case study. *Int J Sport Nutr Exerc Metab* . 2001;11(3):334-348.
 57. Keep Food Safe! Food Safety Basics | Food Safety and Inspection Service. Accessed January 28, 2023. <http://www.fsis.usda.gov/foodsafety/safe-food-handling-and-preparation/food-safety-basics/stepskeep-food-safe>
 58. Halson SL, Burke LM, Pearce J. Nutrition for Travel: From Jet lag To Catering. *Int J Sport Nutr Exerc Metab* . 2019;29(2):228-235. doi:10.1123/ijnsnem.2018-0278

منابع

1. Rico-Sanz J, Frontera WR, Molé PA, MA Rivera, Rivera-Brown A, Meredith CN. Dietary and performance assessment of elite soccer players during a period of intense training. *Int J Sport Nutr Exerc Metab* . 1998;8(3):230-240.
2. Rico-Sanz J. Body composition and nutritional assessments in soccer. *Int J Sport Nutr Exerc Metab* . 1998;8(2):113-123.
3. Wildman R, Miller B. *Sports and Fitness Nutrition* . Belmont, CA: Thompson Wadsworth; 2004.
4. Anzell AR, Potteiger JA, Kraemer WJ, Otieno S. Changes in height, body weight, and body composition in American football players from 1942 to 2011. *J Strength Cond Res* . 2013;27(2):277-284. doi:10.1519/JSC.0b013e31827f4c08
5. Secora CA, Latin RW, Berg KE, Noble JM. Comparison of physical and performance characteristics of NCAA Division I football players: 1987 and 2000. *J Strength Cond Res* . 2004;18(2):286-291.
6. Jenner SL, Buckley GL, Belski R, Devlin BL, Forsyth AK. Dietary intakes of professional and semi-professional team sport athletes do not meet sport nutrition recommendations—a systematic literature review. *Nutrients* . 2019;11(5):1160. doi:10.3390/nu11051160
7. Renard M, Kelly DT, Chéilleachair NN, Catháin C. How does the dietary intake of female field-based team sport athletes compare to dietary recommendations for health and performance? A systematic literature review. *Nutrients* . 2021;13(4):1235. doi:10.3390/nu13041235
8. Rosenbloom C. *Sports Nutrition—A Guide for the Professional Working with Active People* . 3rd ed. Chicago, IL: American Dietetic Association; 2000.
9. Vigh-Larsen JF, Ørtenblad N, Spriet LL, Overgaard K, Mohr M. Muscle Glycogen Metabolism and High-Intensity Exercise Performance: A Narrative Review. *Sports Medicine* . 2021;51(9):1855-1874.
10. Baker LB, Rollo I, Stein KW, Jeukendrup AE. Acute effects of carbohydrate supplementation on intermittent sports performance. *Nutrients* . 2015;7(7):5733-5763. doi:10.3390/nu7075249

11. Vigh-Larsen JF, Mohr M. The physiology of ice hockey performance: an update. *Scand J Med Sci Sports* . 2022;00:1-14.. doi:10.1111/sms.14284
12. Michalczyk MM, Chycki J, Zajac A, Maszczyk A, Zydek G, Langfort J. Anaerobic performance after a low-carbohydrate diet (LCD) followed by 7 days of carbohydrate loading in male basketball players. *Nutrients* . 2019;11(4):778. doi:10.3390/nu11040778
13. Burke LM, Kiens B, Ivy JL. Carbohydrates and fat for training and recovery. *J Sports Sci* . 2004;22(1):15-30.
14. Stellingwerf T, Morton JP, Burke LM. A framework for periodized nutrition for athletics. *Int J Sport Nutr Exer Metabol* . 2019;29(2):141- 151. doi:10.1123/ijsnem.2018-0305
15. Caštillo M, Lozano-Casanova M, Sospedra I, Norte A, Gutiérrez-Hervás A, Martínez-Sanz JM. Energy and macronutrients intake in indoor sport team athletes: systematic review. *Nutrients* . 2022;14(22):4755. doi:10.3390/nu14224755
16. Rodriguez-Giustiniani P, Rollo I, Witard OC, Galloway SDR. Ingesting a 12% carbohydrate-electrolyte beverage before each half of a soccer match simulation facilitates retention of passing performance and improves high-intensity running capacity in academy players. *Int J Sport Nutr Exer Metab* . 2019;29(4):397-405. doi:10.1123/ijsnem.2018-0214
17. Sun F-H, Cooper SB, Chak-Fung Tse F. Effects of different solutions consumed during exercise on cognitive function of male college soccer players. *J Exer Sci Fitness* . 2020;18(3):155-161. doi:10.1016/j.jesf.2020.06.003
18. Forbes SC, Candow DG, Smith-Ryan AE, et al. Supplements and nutritional interventions to augment high-intensity interval training physiological and performance adaptations—a narrative review. *Nutrients* . 2020;12(2):390. doi:10.3390/nu12020390
19. Davis JK, Oikawa SY, Halson S, et al. In-season nutrition strategies and recovery modalities to enhance recovery for basketball players: a narrative review. *Sports Med* . 2022;52(5):971-993. doi:10.1007/s40279-021-01606-7
20. Heaton LE, Davis JK, Rawson ES, et al. Selected in-season nutritional strategies to enhance recovery for team sport athletes: a practical overview. *Sports Med* . 2017;47(11):2201-2218. doi:10.1007/s40279-017-0759-2
21. Papadopoulou SK. Rehabilitation nutrition for injury recovery of athletes: the role of macronutrient intake. *Nutrients* . 2020;12(8):2449. doi:10.3390/nu12082449
22. Stokes T, Hector AJ, Morton RW, McGlory C, Phillips SM. Recent perspectives regarding the role of dietary protein for the promotion of muscle hypertrophy with resistance exercise training. *Nutrients* . 2018;10(2):180. doi:10.3390/nu10020180
23. Tipton KD, Wolfe RR. Protein and amino acids for athletes. *J Sports Sci* . 2004;22(1):65-79.
24. International Olympic Committee. IOC consensus statement on sports nutrition 2010. *J Sports Sci* . 2011;29(suppl 1):S3-S4.
25. Gacek M. Sense of self-efficacy and the content of energy and nutrients in the diet of elite Polish basketball players. *Rocz Panstw Zakl Hig* . 2022;73(2):183-189. doi:10.32394/rpzh.2022.0203
26. Sesbreno E, Dziedzic CE, Sygo J, et al. Elite male volleyball players are at risk of insufficient energy and carbohydrate intake. *Nutrients* . 2021;13(5):1435. doi:10.3390/nu13051435
27. Nepocatyh S, Balilionis G, O'Neal EK. Elon University, Department of Exercise Science, Elon, USA, , The University of North Alabama, Department of Health, Physical Education and Recreation, Florence, USA. Analysis of dietary intake and body composition of female athletes over a competitive season. *Monten J Sports Sci Med* . 2017;6(2):57-65. doi:10.26773/mjssm.2017.09.008
28. Fleming J, Sharman MJ, Avery NG, et al. Endurance capacity and highintensity exercise performance responses to a high fat diet. *Int J Sport Nutr Exer Metab* . 2003;13(4):466-478.
29. Burke LM, Kiens B, Ivy JL. Carbohydrates and fat for training and recovery. *J Sports Sci* . 2004;22(1):15-30.
30. van Loon LJ, Greenhaff PL, Constantin-Teodosiu D, Saris WH, Wagenmakers AJ. The effects of increasing exercise intensity on muscle fuel utilisation in humans. *J Physiol* . 2001;536(1):295-304.
31. van Loon LJ, Schrauwen-Hinderling VB, Koopman R, et al. Influence of prolonged endurance cycling and recovery diet on intramuscular triglyceride content in trained males. *Am J Physiol Endocrinol Metab* . 2003;285(4):E804-E811.
32. Hinton PS, Sanford TC, Davidson MM, Yakushko OF, Beck NC. Nutrient intakes and dietary behaviors of male and female collegiate athletes. *Int J Sport Nutr Exer Metab* . 2004;14(4):389-405.
33. Beals KA. Eating behaviors, nutritional status, and menstrual function in elite female adolescent volleyball players. *J Am Diet Assoc* . 2002;102(9):1293-1296.
34. Peake JM. Vitamin C: effects of exercise and requirements with training. *Int J Sport Nutr Exer Metab* . 2003;13(2):125-151.
35. Schröder H, Navarro E, Tramullas A, Mora J, Galiano D. Nutrition antioxidant status and oxidative stress in professional basketball players: effects of a three compound antioxidative supplement. *Int J Sports Med* . 2000;21(2):146-150.
36. Sim M, Garvican-Lewis LA, Cox GR, et al. Iron considerations for the athlete: a narrative review. *Eur J Appl Physiol* . 2019;119(7):1463-1478. doi:10.1007/s00421-019-04157-y
37. McClung JP, Gaffney-Stromberg E, Lee JJ. Female athletes: a population at risk of vitamin and mineral deficiencies affecting health and performance. *J Trace Elem Med Biol* . 2014;28(4):388-392.
38. Dubnov G, Constantinini NW. Prevalence of iron depletion and anemia in top-level basketball players. *Int J Sport Nutr Exer Metab* . 2004;14(1):30-37.
39. Thomas DT, Erdman KA, Burke LM. Position of the Academy of Nutrition and Dietetics, Dietitians of Canada, and the American College of Sports Medicine: Nutrition and Athletic Performance. *J Acad Nutr Diet* . 2016;116(3):501-528. doi:10.1016/j.jand.2015.12.006
40. Papadopoulou SK, Papadopoulou SD, Gallos GK. Macro- and micro-nutrient intake of adolescent Greek female volleyball players. *Int J Sport Nutr Exer Metab* . 2002;12(1):73-80.
41. Clark M, Reed DB, Crouse SF, Armstrong RB. Pre- and post-season dietary intake, body composition, and performance indices of NCAA Division I female soccer players. *Int J Sport Nutr Exer Metab* . 2003;13(3):303-319.
42. Nicholas CW, Williams C, Lakomy HK, Phillips G, Nowitz A. Influence of ingesting a carbohydrate-electrolyte solution on endurance capacity during intermittent, high-intensity shuttle running. *J Sports Sci* . 1995;13(4):283-290.
43. Hassapidou MN, Manstrantoni A. Dietary intakes of elite female athletes in Greece. *J Human Nutr Diet* . 2001;14(5):391-396.
44. Vento KA, Wardenaar FC. Third-party testing nutritional supplement knowledge, attitudes, and use among an NCAA I collegiate student athlete population. *Front Sports Active Liv* . 2020;2. Accessed January 27, 2023.
45. Hamilton KP, Ziegler J, Samavat H, et al. Nutritional supplement use and athletic characteristics among a sample of NCAA Division I and Division III student-athletes. *J Diet Suppl* . 2022;0(0):1-15. doi:10.1080/19390211.2022.2140740
46. Barnes KA, Anderson ML, Stofan JR, et al. Normative data for sweating rate, sweat sodium concentration, and sweat sodium loss

- in athletes: an update and analysis by sport. *J Sports Sci* . 2019;37(20):2356-2366. doi:10.1080/02640414.2019.1633159
47. Bigg JL, Gamble ASD, Vermeulen TF, et al. Sweat loss and hydration habits of female olympic, varsity and recreational ice hockey players. *Int J Sports Med* . 2019;40(6):416-422. doi:10.1055/a-0877-7028
 48. McDermott BP, Anderson SA, Armstrong LE, et al. National Athletic Trainers' Association position statement: fluid replacement for the physically active. *J Athl Train* . 2017;52(9):877-895. doi:10.4085/1062-6050-52.9.02
 49. Reilly T. Energetics of high-intensity exercise (soccer) with particular reference to fatigue. *J Sports Sci* . 1997;15(3):257-263.
 50. Ostošic SM, Mazic S. Effects of a carbohydrate-electrolyte drink on specific soccer tests and performance. *J Sports Sci Med* . 2002;1(2):47-53.
 51. Nicholas CW, Tsintzas K, Boobis L, Williams C. Carbohydrate-electrolyte ingestion during intermittent high-intensity running. *Med Sci Sports Exerc* . 1999;31(9):1280-1286.
 52. Welsh RS, Davis JM, Burke JR, Williams HG. Carbohydrates and physical/mental performance during intermittent exercise to fatigue. *Med Sci Sports Exerc* . 2002;34(4):723-731.
 53. Kovacs EM, Schmahl RM, Senden JM, Brouns F. Effect of high and low rates of fluid intake on post-exercise rehydration. *Int J Sport Nutr Exerc Metab* . 2002;12(1):14-23.
 54. McCubbin AJ, Allanson BA, Odgers JN, et al. Sports Dietitians Australia Position Statement: Nutrition for Exercise in Hot Environments. *Int J Sport Nutr Exer Metab* . 2020;30(1):83-98. doi:10.1123/ijnsnem.2019-0300
 55. American College of Sports Medicine, Sawka MN, Burke LM, et al. American College of Sports Medicine position stand. Exercise and fluid replacement. *Med Sci Sports Exerc* . 2007;39(2):377-390. doi:10.1249/mss.0b013e31802ca597
 56. Dabinett JA, Reid K, James N. Educational strategies used in increasing fluid intake and enhancing hydration status in field hockey players preparing for competition in a hot and humid environment: a case study. *Int J Sport Nutr Exerc Metab* . 2001;11(3):334-348.
 57. Keep Food Safe! Food Safety Basics | Food Safety and Inspection Service. Accessed January 28, 2023. <http://www.fsis.usda.gov/foodsafety/safe-food-handling-and-preparation/food-safety-basics/stepskeep-food-safe>
 58. Halson SL, Burke LM, Pearce J. Nutrition for Travel: From Jet lag To Catering. *Int J Sport Nutr Exerc Metab* . 2019;29(2):228-235. doi:10.1123/ijnsnem.2018-0278.

منابع

1. Rico-Sanz J, Frontera WR, Molé PA, MA Rivera, Rivera-Brown A, Meredith CN. Dietary and performance assessment of elite soccer players during a period of intense training. *Int J Sport Nutr Exerc Metab* . 1998;8(3):230-240.
2. Rico-Sanz J. Body composition and nutritional assessments in soccer. *Int J Sport Nutr Exerc Metab* . 1998;8(2):113-123.
3. Wildman R, Miller B. *Sports and Fitness Nutrition* . Belmont, CA: Thompson Wadsworth; 2004.
4. Anzell AR, Potteiger JA, Kraemer WJ, Otieno S. Changes in height, body weight, and body composition in American football players from 1942 to 2011. *J Strength Cond Res* . 2013;27(2):277-284. doi:10.1519/JSC.0b013e31827f4c08
5. Secora CA, Latin RW, Berg KE, Noble JM. Comparison of physical and performance characteristics of NCAA Division I football players: 1987 and 2000. *J Strength Cond Res* . 2004;18(2):286-291.
6. Jenner SL, Buckley GL, Belski R, Devlin BL, Forsyth AK. Dietary intakes of professional and semi-professional team sport athletes do not meet sport nutrition recommendations—a systematic literature review. *Nutrients* . 2019;11(5):1160. doi:10.3390/nu11051160
7. Renard M, Kelly DT, Chéilleachair NN, Catháin C. How does the dietary intake of female field-based team sport athletes compare to dietary recommendations for health and performance? A systematic literature review. *Nutrients* . 2021;13(4):1235. doi:10.3390/nu13041235
8. Rosenbloom C. *Sports Nutrition—A Guide for the Professional Working with Active People* . 3rd ed. Chicago, IL: American Dietetic Association; 2000.
9. Vigh-Larsen JF, Ørtenblad N, Spriet LL, Overgaard K, Mohr M. Muscle Glycogen Metabolism and High-Intensity Exercise Performance: A Narrative Review. *Sports Medicine* . 2021;51(9):1855-1874.
10. Baker LB, Rollo I, Stein KW, Jeukendrup AE. Acute effects of carbohydrate supplementation on intermittent sports performance. *Nutrients* . 2015;7(7):5733-5763. doi:10.3390/nu7075249
11. Vigh-Larsen JF, Mohr M. The physiology of ice hockey performance: an update. *Scand J Med Sci Sports* . 2022;00:1-14. doi:10.1111/sms.14284
12. Michalczyk MM, Chycki J, Zajac A, Maszczyk A, Zydek G, Langfort J. Anaerobic performance after a low-carbohydrate diet (LCD) followed by 7 days of carbohydrate loading in male basketball players. *Nutrients* . 2019;11(4):778. doi:10.3390/nu11040778
13. Burke LM, Kiens B, Ivy JL. Carbohydrates and fat for training and recovery. *J Sports Sci* . 2004;22(1):15-30.
14. Stellingwerff T, Morton JP, Burke LM. A framework for periodized nutrition for athletics. *Int J Sport Nutr Exer Metabol* . 2019;29(2):141-151. doi:10.1123/ijnsnem.2018-0305
15. Cañtallo M, Lozano-Casanova M, Sospedra I, Norte A, Gutiérrez-Hervás A, Martínez-Sanz JM. Energy and macronutrients intake in indoor sport team athletes: systematic review. *Nutrients* . 2022;14(22):4755. doi:10.3390/nu14224755
16. Rodríguez-Giustini P, Rollo I, Witard OC, Galloway SDR. Ingesting a 12% carbohydrate-electrolyte beverage before each half of a soccer match simulation facilitates retention of passing performance and improves high-intensity running capacity in academy players. *Int J Sport Nutr Exer Metab* . 2019;29(4):397-405. doi:10.1123/ijnsnem.2018-0214
17. Sun F-H, Cooper SB, Chak-Fung Tse F. Effects of different solutions consumed during exercise on cognitive function of male college soccer players. *J Exer Sci Fitness* . 2020;18(3):155-161. doi:10.1016/j.jesf.2020.06.003
18. Forbes SC, Candow DG, Smith-Ryan AE, et al. Supplements and nutritional interventions to augment high-intensity interval training physiological and performance adaptations—a narrative review. *Nutrients* . 2020;12(2):390. doi:10.3390/nu12020390
19. Davis JK, Oikawa SY, Halson S, et al. In-season nutrition strategies and recovery modalities to enhance recovery for basketball players: a narrative review. *Sports Med* . 2022;52(5):971-993. doi:10.1007/s40279-021-01606-7
20. Heaton LE, Davis JK, Rawson ES, et al. Selected in-season nutritional strategies to enhance recovery for team sport athletes: a

- practical overview. *Sports Med* . 2017;47(11):2201-2218. doi:10.1007/s40279-017-0759-2
21. Papadopoulou SK. Rehabilitation nutrition for injury recovery of athletes: the role of macronutrient intake. *Nutrients* . 2020;12(8):2449. doi:10.3390/nu12082449
 22. Stokes T, Hector AJ, Morton RW, McGlory C, Phillips SM. Recent perspectives regarding the role of dietary protein for the promotion of muscle hypertrophy with resistance exercise training. *Nutrients* . 2018;10(2):180. doi:10.3390/nu10020180
 23. Tipton KD, Wolfe RR. Protein and amino acids for athletes. *J Sports Sci* . 2004;22(1):65-79.
 24. International Olympic Committee. IOC consensus statement on sports nutrition 2010. *J Sports Sci* . 2011;29(suppl 1):S3-S4.
 25. Gacek M. Sense of self-efficacy and the content of energy and nutrients in the diet of elite Polish basketball players. *Rocz Panstw Zakl Hig* . 2022;73(2):183-189. doi:10.32394/rpzh.2022.0203
 26. Sesbreno E, Dziedzic CE, Sygo J, et al. Elite male volleyball players are at risk of insufficient energy and carbohydrate intake. *Nutrients* . 2021;13(5):1435. doi:10.3390/nu13051435
 27. Nepocatyh S, Balilionis G, O'Neal EK. Elon University, Department of Exercise Science, Elon, USA, , The University of North Alabama, Department of Health, Physical Education and Recreation, Florence, USA. Analysis of dietary intake and body composition of female athletes over a competitive season. *Monten J Sports Sci Med* . 2017;6(2):57-65. doi:10.26773/mjssm.2017.09.008
 28. Fleming J, Sharman MJ, Avery NG, et al. Endurance capacity and highintensity exercise performance responses to a high fat diet. *Int J Sport Nutr Exerc Metab* . 2003;13(4):466-478.
 29. Burke LM, Kiens B, Ivy JL. Carbohydrates and fat for training and recovery. *J Sports Sci* . 2004;22(1):15-30.
 30. van Loon LJ, Greenhaff PL, Constantin-Teodosiu D, Saris WH, Wagenmakers AJ. The effects of increasing exercise intensity on muscle fuel utilisation in humans. *J Physiol* . 2001;536(1):295-304.
 31. van Loon LJ, Schrauwen-Hinderling VB, Koopman R, et al. Influence of prolonged endurance cycling and recovery diet on intramuscular triglyceride content in trained males. *Am J Physiol Endocrinol Metab* . 2003;285(4):E804-E811.
 32. Hinton PS, Sanford TC, Davidson MM, Yakushko OF, Beck NC. Nutrient intakes and dietary behaviors of male and female collegiate athletes. *Int J Sport Nutr Exerc Metab* . 2004;14(4):389-405.
 33. Beals KA. Eating behaviors, nutritional status, and menstrual function in elite female adolescent volleyball players. *J Am Diet Assoc* . 2002;102(9):1293-1296.
 34. Peake JM. Vitamin C: effects of exercise and requirements with training. *Int J Sport Nutr Exerc Metab* . 2003;13(2):125-151.
 35. Schröder H, Navarro E, Tramullas A, Mora J, Galiano D. Nutrition antioxidant status and oxidative stress in professional basketball players: effects of a three compound antioxidative supplement. *Int J Sports Med* . 2000;21(2):146-150.
 36. Sim M, Garvican-Lewis LA, Cox GR, et al. Iron considerations for the athlete: a narrative review. *Eur J Appl Physiol* . 2019;119(7):1463-1478. doi:10.1007/s00421-019-04157-y
 37. McClung JP, Gaffney-Stromberg E, Lee JJ. Female athletes: a population at risk of vitamin and mineral deficiencies affecting health and performance. *J Trace Elem Med Biol* . 2014;28(4):388-392.
 38. Dubnov G, Constantinini NW. Prevalence of iron depletion and anemia in top-level basketball players. *Int J Sport Nutr Exerc Metab* . 2004;14(1):30-37.
 39. Thomas DT, Erdman KA, Burke LM. Position of the Academy of Nutrition and Dietetics, Dietitians of Canada, and the American College of Sports Medicine: Nutrition and Athletic Performance. *J Acad Nutr Diet* . 2016;116(3):501-528. doi:10.1016/j.jand.2015.12.006
 40. Papadopoulou SK, Papadopoulou SD, Gallos GK. Macro- and micro-nutrient intake of adolescent Greek female volleyball players. *Int J Sport Nutr Exerc Metab* . 2002;12(1):73-80.
 41. Clark M, Reed DB, Crouse SF, Armstrong RB. Pre- and post-season dietary intake, body composition, and performance indices of NCAA Division I female soccer players. *Int J Sport Nutr Exerc Metab* . 2003;13(3):303-319.
 42. Nicholas CW, Williams C, Lakomy HK, Phillips G, Nowitz A. Influence of ingesting a carbohydrate-electrolyte solution on endurance capacity during intermittent, high-intensity shuttle running. *J Sports Sci* . 1995;13(4):283-290.
 43. Hassapidou MN, Manstrantoni A. Dietary intakes of elite female athletes in Greece. *J Human Nutr Diet* . 2001;14(5):391-396.
 44. Vento KA, Wardenaar FC. Third-party testing nutritional supplement knowledge, attitudes, and use among an NCAA I collegiate student athlete population. *Front Sports Active Liv* . 2020;2. Accessed January 27, 2023.
 45. Hamilton KP, Ziegler J, Samavat H, et al. Nutritional supplement use and athletic characteristics among a sample of NCAA Division I and Division III student-athletes. *J Diet Suppl* . 2022;0(0):1-15. doi:10.1080/19390211.2022.2140740
 46. Barnes KA, Anderson ML, Stofan JR, et al. Normative data for sweating rate, sweat sodium concentration, and sweat sodium loss in athletes: an update and analysis by sport. *J Sports Sci* . 2019;37(20):2356-2366. doi:10.1080/02640414.2019.1633159
 47. Bigg JL, Gamble ASD, Vermeulen TF, et al. Sweat loss and hydration habits of female olympic, varsity and recreational ice hockey players. *Int J Sports Med* . 2019;40(6):416-422. doi:10.1055/a-0877-7028
 48. McDermott BP, Anderson SA, Armstrong LE, et al. National Athletic Trainers' Association position statement: fluid replacement for the physically active. *J Athl Train* . 2017;52(9):877-895. doi:10.4085/1062-6050-52.9.02
 49. Reilly T. Energetics of high-intensity exercise (soccer) with particular reference to fatigue. *J Sports Sci* . 1997;15(3):257-263.
 50. Oštojić SM, Mazic S. Effects of a carbohydrate-electrolyte drink on specific soccer tests and performance. *J Sports Sci Med* . 2002;1(2):47-53.
 51. Nicholas CW, Tsintzas K, Boobis L, Williams C. Carbohydrate-electrolyte ingestion during intermittent high-intensity running. *Med Sci Sports Exerc* . 1999;31(9):1280-1286.
 52. Welsh RS, Davis JM, Burke JR, Williams HG. Carbohydrates and physical/mental performance during intermittent exercise to fatigue. *Med Sci Sports Exerc* . 2002;34(4):723-731.
 53. Kovacs EM, Schmahl RM, Senden JM, Brouns F. Effect of high and low rates of fluid intake on post-exercise rehydration. *Int J Sport Nutr Exerc Metab* . 2002;12(1):14-23.
 54. McCubbin AJ, Allanson BA, Odgers JN, et al. Sports Dietitians Australia Position Statement: Nutrition for Exercise in Hot Environments. *Int J Sport Nutr Exerc Metab* . 2020;30(1):83-98. doi:10.1123/ijnsnem.2019-0300
 55. American College of Sports Medicine, Sawka MN, Burke LM, et al. American College of Sports Medicine position stand. Exercise and fluid replacement. *Med Sci Sports Exerc* . 2007;39(2):377-390. doi:10.1249/mss.0b013e31802ca597
 56. Dabinett JA, Reid K, James N. Educational strategies used in increasing fluid intake and enhancing hydration status in field hockey players preparing for competition in a hot and humid environment: a case study. *Int J Sport Nutr Exerc Metab* . 2001;11(3):334-

57. Keep Food Safe! Food Safety Basics | Food Safety and Inspection Service. Accessed January 28, 2023. <http://www.fsis.usda.gov/foodsafety/safe-food-handling-and-preparation/food-safety-basics/stepskeep-food-safe>
58. Halson SL, Burke LM, Pearce J. Nutrition for Travel: From Jet lag To Catering. *Int J Sport Nutr Exerc Metab* . 2019;29(2):228-235. doi:10.1123/ijsnem.2018-0278.

منابع

1. Barnes DE. Action Plan for Diabetes . Champaign, IL: Human Kinetics; 2004.
2. Anderson J, Geil PB. Nutritional management of diabetes mellitus. In: Shils ME, Olson JA, Shike M, eds. *Modern Nutrition in Health and Disease* . Philadelphia, PA: Lippincott, Williams & Wilkins; 1999:1259-1286.
3. ElSayed NA, Aleppo G, Aroda VR, et al. Addendum. 2. Classification and diagnosis of diabetes: standards of care in diabetes—2023 . *Diabet Care* . 2023;46(Suppl1): S19-S40. doi:10.2337/dc23-S002
4. Colberg SR, Sigal RJ, Yardley JE, et al. Physical activity/exercise and diabetes: a position statement of the American Diabetes Association. *Diabetes Care* . 2016;39(11):2065-2079. doi:10.2337/dc16-1728
5. Riddell MC, Scott SN, Fournier PA, et al. The competitive athlete with type 1 diabetes. *Diabetologia* . 2020;63(8):1475-1490. doi:10.1007/s00125-020-05183-8
6. Savikj M, Zierath JR. Train like an athlete: applying exercise interventions to manage type 2 diabetes. *Diabetologia* . 2020;63(8):1491-1499. doi:10.1007/s00125-020-05166-9
7. Cannata F, Vadalà G, Ambrosio L, Papalia R, Napoli N. Nutritional therapy for athletes with diabetes. *J Funct Morphol Kinesiol* . 2020;5(4):83. doi:10.3390/jfkm5040083
8. American Diabetes Association. Nutrition therapy recommendations for the management of adults with diabetes. *Diabet Care* . 2014;36(11):3821-3842.
9. Wowdzia JB, Mchugh T-L, Thornton J, Sivak A, Mottola MF, Davenport MH. Elite athletes and pregnancy outcomes: a systematic review and meta-analysis. *Med Sci Sports Exerc* . 2021;53(3):534-542. doi:10.1249/MSS.0000000000002510
10. Ho A, Flynn AC, Pasupathy D. Nutrition in pregnancy. *Ob Gynaecol Reprod Med* . 2016;26(9):259-264. doi:10.1016/j.ogrm.2016.06.005
11. Silva MRG, Doñate BR, Carballo KNC. Nutritional requirements for the pregnant exerciser and athlete. In: Santos-Rocha R, ed. *Exercise and Sporting Activity During Pregnancy: Evidence-Based Guidelines* . Springer International Publishing; 2019:327-345. doi:10.1007/978-3-319-91032-1_11
12. Institute of Medicine. *Weight gain during pregnancy: reexamining the guidelines* . Washington, DC: National Academies Press; 2009.
13. Elango R, Ball RO. Protein and amino acid requirements during pregnancy. *Adv Nutr* . 2016;7(4):839S-844S. doi:10.3945/an.115.011817
14. Artal R. Exercise and pregnancy. *Clin Sports Med* . 1992;11(2):363-377.
15. Clapp JF 3rd, Wesley M, Sleamaker RH. Thermoregulatory and metabolic responses prior to and during pregnancy. *Med Sci Sports Exerc* . 1987;19(2):124-130.
16. Trumbo P, Schlicker S, Yates AA, Poos M. Dietary reference intakes for energy, carbohydrate, fiber, fat, fatty acids, cholesterol, protein and amino acids. *J Am Diet Assoc* . 2002;102(11):1621-1630.
17. Institute of Medicine. *Dietary Reference Intakes for Thiamin, Riboflavin, Niacin, Vitamin B6, Folate, Vitamin B12, Pantothenic Acid, Biotin, and Choline* . Food and Nutrition Board. Washington, DC: National Academies Press; 1998.
18. Rumbold A, Ota E, Nagata C, Shahrook S, Crowther CA. Vitamin C supplementation in pregnancy. *Coch Data Syst Rev* . 2015;(9). doi:10.1002/14651858.cd004072.pub3
19. Mousa A, Naqash A, Lim S. Macronutrient and micronutrient intake during pregnancy: an overview of recent evidence. *Nutrients* . 2019;11(2):443. doi:10.3390/nu11020443
20. Fanni D, Gerosa C, Nurchi VM, et al. The role of magnesium in pregnancy and in fetal programming of adult diseases. *Biol Trace Elem Res* . 2021;199(10):3647-3657. doi:10.1007/s12011-020-02513-0
21. Institute of Medicine. *Dietary Reference Intakes for Vitamin A, Vitamin K, Arsenic, Boron, Chromium, Copper, Iodine, Iron, Manganese, Molybdenum, Nickel, Silicon, Vanadium and Zinc* . Food and Nutrition Board. Washington, DC: National Academies Press; 2001.
22. Wiggins DL, Wiggins ME. The female athlete. *Clin Sports Med* . 1997;16(4):593-612.
23. Centers for Disease Control and Prevention, National Center for Health Statistics. *CDC Growth Charts: United States. 2001*. Available at: www.cdc.gov/nchs/about/major/nhanes/growthcharts/background.htm Accessed March 13, 2005.
24. Berning JR, Steen SN. *Nutrition for Sport and Exercise* . 2nd ed. Gaithersburg, MD: Aspen Publishers; 1998.
25. Insel P, Turner RE, Ross D. *Nutrition, 2002 Update* . Sudbury, MA: Jones and Bartlett Publishers; 2002. .
26. Insel P, Ross D, McMahon K, Bernstein M. *Nutrition* . 6th ed. Burlington, MA: Jones and Bartlett Learning; 2016.
27. Theintz GE, Howald H, Weiss U, Sizonenko PC. Evidence for a reduction of growth potential in adolescent female gymnasts. *J Pediatr* . 1993;122(2): 306-313.
28. Lindholm C, Hagenfeldt K, Ringertz BM. Pubertal development in elite juvenile gymnasts: effects of physical training. *Acta Obstet Gynecol Scand* . 1994;73(3): 269-273.
29. Rogol AD, Clark PA, Roemmich JN. Growth and pubertal development in children and adolescents: effects of diet and physical activity. *Am J Clin Nutr* . 2000;72(2):521S-528S.
30. Desbrow B. Youth athlete development and nutrition. *Sports Med* . 2021;51(1):3-12. doi:10.1007/s40279-021-01534-6
31. Bar-Or O. Children's responses to exercise in hot climates: implications for performance and health. *Gatorade Sports Sci Exchange* . 1994;7(2):1-5.

32. Petrie HJ, Stover EA, Horswill CA. Nutritional concerns for the child and adolescent competitor. *Nutrition* . 2004;20(7-8):620-631.
33. Institute of Medicine. Dietary Reference Intakes for Calcium and Vitamin D . Food and Nutrition Board. Washington, DC: National Academies Press; 2011.
34. Constantini NW, Eliakim A, Zigel L, Yaaron M, Falk B. Iron status of highly active adolescents: evidence of depleted iron stores in gymnasts. *Int J Sports Nutr Exerc Metab* . 2000;10(1):62-70.
35. Mastroleo NR, Barnett NP, Bowers KM. Association between sex, race/ethnicity, season, day of week, and alcohol use and related risks in college student athletes and nonathletes. *J Am Coll Health* . 2019;67(5): 422-432. doi:10.1080/07448481.2018.1484367
36. Hinton PS, Sanford TC, Davidson MM, Yakushko OF, Beck NC. Nutrient intakes and dietary behaviors of male and female collegiate athletes. *Int J Sport Nutr Exerc Metab* . 2004;14(4):389-405.
37. Nelson TF, Wechsler H. Alcohol and college athletes. *Med Sci Sports Exerc* . 2001;33(1):43-47.
38. Green GA, Uryasz FD, Petr TA, Bray CD. NCAA study of substance use and abuse habits of college student athletes. *Clin J Sport Med* . 2001;11(1):51-56.
39. Wilson GS, Pritchard ME, Schaffer J. Athletic status and drinking behavior in college students: the influence of gender and coping styles. *J Am Coll Health* . 2004;52(6):269-273.
40. Hetherington MM, Cameron F, Wallis DJ, Pirie LM. Stimulation of appetite by alcohol. *Physiol Behav* . 2001;74(3):283-289.
41. Desbrow B, Burd NA, Tarnopolsky M, Moore DR, Elliott-Sale KJ. Nutrition for special populations: young, female, and masters athletes. *Int J Sport Nutr Exerc Metab* . 2019;29(2):220-227. doi:10.1123/ijsnem .2018-0269
42. American Dietetic Association. Position of the American Dietetic Association: nutrition, aging and the continuum of care. *J Am Diet Assoc* . 2000;100(5): 580-595.
43. McGandy RB, Barrows CH, Spanias A, Meredith A, Stone JL, Norris AH. Nutrient intake and energy expenditure in men of different ages. *J Gerontol* . 1966;21:581-587.
44. Bauer J, Biolo G, Cederholm T, et al. Evidence-based recommendations for optimal dietary protein intake in older people: a position paper from the PROT-AGE study group. *J Am Med Dir Assoc*. 2013;14(8):542-559.
45. Moore DR. Protein requirements for master athletes: just older versions of their younger selves. *Sports Med* . 2021;51(1):13-30. doi:10.1007/s40279-021-01510-0
46. Institute of Medicine. Dietary Reference Intakes for Calcium, Phosphorus, Magnesium, Vitamin D, and Fluoride . Food and Nutrition Board. Washington, DC: National Academies Press; 1997.
47. Melina V, Craig W, Levin S. Position of the Academy of Nutrition and Dietetics: Vegetarian Diets. *Journal of the Academy of Nutrition and Dietetics* . 2016;116(12): 1970-1980. doi:10.1016/j.jand.2016.09.025
48. Haub MD, Wells AM, Tarnopolsky MA, Campbell WW. Effect of protein source on resistive-training-induced changes in body composition and muscle size in older men. *Am J Clin Nutr* . 2002;76(3):511-517.
49. Hunt J. Bioavailability of iron, zinc and other trace minerals from vegetarian diets. *Am J Clin Nutr* . 2003;78(3):633S-639S.
50. American Dietetic Association. Position of the American Dietetic Association: vegetarian diets. *J Am Diet Assoc* . 1997;97(11):1317-1321.
51. Calkins BM, Whittaker DJ, Rider AA, Turjman N. Diet, nutrition intake, and metabolism in populations at high and low risk for colon cancer. *Am J Clin Nutr* . 1984;40(suppl):887-895.
52. Craig WJ. Iron status of vegetarians. *Am J Clin Nutr* . 1994;59(suppl 5):1233S-1237S.
53. Jonnalagadda SS, Rosenbloom CA, Skinner R. Dietary practices, attitudes, and physiological status of collegiate freshman football players. *J Strength Cond Res* . 2001;15(4):507-513.
54. American College of Sports Medicine position stand. Exercise and fluid replacement. *Med Sci Sports Exerc* . 2007;39(2):377-390.
55. National Research Council, Food and Nutrition Board. Diet and Health: Implications for Reducing Chronic Disease Risk . Washington, DC: National Academies Press; 1989.
56. Weaver CM, Proulx WR, Heaney. Choices for achieving adequate dietary calcium with a vegetarian diet. *Am J Clin Nutr* . 1999;70(3 suppl):543S-548S.
57. Herrmann W, Schorr H, Obied R, Geisel J. Vitamin B-12 status, particularly holotranscobalamin II and methylmalonic acid concentrations and hyperhomocysteinemia in vegetarians. *Am J Clin Nutr* . 2003;78(1):131-136.