

## SPORTS NUTRITION RECOMMENDATIONS FOR ELITE FEMALE SOCCER PLAYERS

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elite female soccer players classify as having low EA (1,2,3)

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## **Sports Nutrition Recommendations**

## Carbohydrates

## DAILY CARBOHYDRATES 6 – 8 g/kg/d 4 g/kg/d 🔽 3 – 8 g/kg/d Range of daily carbohydrate intake Range of daily carbohydrate intake Off-season training during a single match week or prewith congested fixture periods (i.e., season training – depending on the matches every 3 – 4 days) intensity of training/match **PRE TRAINING/ MATCHES DURING TRAINING/ MATCHES POST TRAINING/ MATCHES 3 – 4 h before consume Replace carbohydrates** ~30 - 60 g/h immediately after exercise a carbohydrate-rich meal may aid soccer performance. with ~1 g/kg/h 1 – 3 a/ka Warm-up, breaks for half-time, extra time, and stoppages in play (e.g., injuries) are all opportunities to "top up" carbohydrate glycogen synthesis. And avoid low fibre foods (7.8) stores which may be needed in the later stages of a match Protein DAILY PROTEIN **POST TRAINING/ MATCHES** 🔗 0.25-0.3 g/kg or ~20g 1.6 g/kg/d with ideal distribution of at least ~0.4 g/kg per meal of protein as soon as possible post-match to Consume protein intake every 3 – 4 h to maximize total daily muscle NOTE: post-exercise protein intake will not ameliorate muscle soreness or improve recovery of muscle function in the short-term (i.e., between matches and training), but is important for longterm adaptation protein synthesis, which is important for adaptation and recovery Fat CONSISTENT DIETARY INTAKE OF FAT EQUATING TO APPROXIMATELY 20-30% OF TOTAL CALORIC INTAKE IS RECOMMENDED FOR REPLENISHING: delivering essential intramuscular absorbing fatproviding an soluble vitamins energy source triacylglycerol fatty acids stores for athletes Unless recommended for medical reasons, there is a lack of evidence to suggest female players should adhere to a low-fat (< 15 – 20%) or high-fat diet (> 35%). References 1. Dobrowolski, H., A. Karczemna, and D. Włodarek (2020). Nutrition for female soccer players-recommendations. Medicina 56:28-45. 2. Morehen, J.C., C. Rosimus, B.P. Cavanagh, C. Hambly, J.R. Speakman, K.J. Elliot-Sale, M.P. Hannon, and J.P. Morton (2022). Energy expenditure of female international standard soccer players. Med. Sci. Sports Exerc. 54:769-779. 3. Moss, S.L., R.K. Randell, D. Burgess, S. Ridley, C. ÓCairealláin, R. Allison, and I. Rollo (2021). Assessment of energy availability and associated risk factors in professional female soccer players. Eur. J. Sport Sci. 21:861-870. 4. Reed, J.L., M.J. De Souza, and N.I. Williams. (2013). Changes in energy availability across the season in Division I female soccer players. J. Sports Sci. 31:314-324. 5. Keay, N & Francis, G Br J Sports Med;2019:53:1310-1311 6. Collins, J., R.J. Maughan, M. Gleeson, J. Bilsborough, A. Jeukendrup, J.P. Morton, S.M. Phillips, L. Armstrong, L.M. Burke, G.L. Close, R. Duffield, E. Larson-Meyer, J. Louis, D. Medina, F. Meyer, I. Rollo, J. Sundgot-Borgen, B.T. Wall, B. Boullosa, G. Dupont, A. Lizarraga, P. Res, M. Bizzini, C. Castagna, C.M. Cowiw, M. D'Hooghe, H. Geyer, T. Meyer, N. Papadimitriou, M. Vouillamoz, and A. McCall (2021). UEFA expert groupnstatement on nutrition in elite football. current evidence to inform practical recommendations and quide future research. Br. J. Sports Med. 55:416.

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