DAFTAR PUSTAKA

Abarghoueinejad, M., Baxter-Jones, A. D. G., Gomes, T. N., Barreira, D., & Maia, J. (2021). Motor performance in male youth soccer players: A systematic review of longitudinal studies. *Sports, 9*(4), 53. https://doi.org/10.3390/sports9040053

Al Attar, W. S. A., Bizzini, M., Alzahrani, H., Alarifi, S., Ghulam, H., Alyami, M., Alzhrani, M., & Sanders, R. H. (2023). The FIFA 11+ Kids injury prevention program reduces injury rates among male children soccer players: A clustered randomized controlled trial. *Sports Health, 15*(3), 397–409. https://doi.org/10.1177/19417381221109224

Alizadeh, S., Daneshjoo, A., Zahiri, A., Hadjizadeh Anvar, S., Goudini, R., Hicks, J. P., Konrad, A., & Behm, D. G. (2023). Resistance training induces improvements in range of motion: A systematic review and meta-analysis. *Sports Medicine, 53*(3), 707–722. https://doi.org/10.1007/s40279-022-01804-x

Amann, M., Wan, H.-Y., Thurston, T. S., Georgescu, V. P., & Weavil, J. C. (2020). On the influence of group III/IV muscle afferent feedback on endurance exercise performance. *Exercise and Sport Sciences Reviews, 48*(4), 209–216. https://doi.org/10.1249/jes.0000000000000233

Anwar, M., Basuki, S., & Irianto, T. (2020). The effect of plyometric knee tuck jump and barrier hops training on explosive muscle explosion futsal player. In *Proceedings of the 1st South Borneo International Conference on Sport Science and Education (SBICSSE 2019)* (Vol. 407, pp. 98–100). Atlantis Press. https://doi.org/10.2991/assehr.k.200219.027

Arpansyah, A., Sukasno, S., & Syafutra, W. (2022). Perbandingan antara latihan *zig-zag run* dan *shuttle run* terhadap kemampuan *dribbling* pada kegiatan ekstrakurikuler sepakbola SMA Negeri 2 Lubuklinggau. *Gelanggang Olahraga: Jurnal Pendidikan Jasmani dan Olahraga (JPJO), 5*(2), 176–185. https://doi.org/10.31539/jpjo.v5i2.3611

Asadi, A., Ramírez-Campillo, R., Arazi, H., & Sáez de Villarreal, E. (2018). The effects of maturation on jumping ability and sprint adaptations to plyometric training in youth soccer players. *Journal of Sports Sciences, 36*(21), 2405–2411. https://doi.org/10.1080/02640414.2018.1459151

Ayán Pérez, C., Álvarez Pérez, S., González Baamonde, S., & Martínez de Quel, Ó. (2020). Influence of the box dimensions on the reliability and validity of the sit and reach in preschoolers. *Journal of Strength and Conditioning Research, 34*(9), 2683–2692. https://doi.org/10.1519/jsc.0000000000002886

Bahr, R., Clarsen, B., Derman, W., Dvorak, J., Emery, C. A., Finch, C. F., Hägglund, M., Junge, A., Kemp, S., Khan, K. M., Marshall, S. W., Meeuwisse, W., Mountjoy, M., Orchard, J. W., Pluim, B., Quarrie, K. L., Reider, B., Schwellnus, M., Soligard, T., Stokes, K. A., Timpka, T., Verhagen, E., Bindra, A., Budgett, R., Engebretsen,

L., Erdener, U., & Chamari, K. (2020). International Olympic Committee consensus statement: Methods for recording and reporting of epidemiological data on injury and illness in sport 2020 (including Strobe Extension for Sport Injury and Illness Surveillance [Strobe-Siis]). *British Journal of Sports Medicine, 54*(7), 372–389. https://doi.org/10.1136/bjsports-2019-101969

Barnerat, T. (2025a, October 15). *Learning to catch*. FIFA Training Centre.

Barnerat, T. (2025b, November 18). *Learning to dive low*. FIFA Training Centre.

Barnerat, T. (2026, February 10). *Learning to execute a 1v1 X-block*. FIFA Training Centre.

Bezodis, N. E., North, J. S., & Razavet, J. L. (2017). Alterations to the orientation of the ground reaction force vector affect sprint acceleration performance in team sports athletes. *Journal of Sports Sciences, 35*(18), 1817–1824. https://doi.org/10.1080/02640414.2016.1239024

Bradbery, E., Cairns, R., & Peek, K. (2024). The relationship between header type and head acceleration during heading in male youth football players. *Physical Therapy in Sport, 70*, 36–43. https://doi.org/10.1016/j.ptsp.2024.08.008

Broodryk, A., Skala, F., & Broodryk, R. (2025). Light-based reaction speed does not predict field-based reactive *agility* in soccer players. *Journal of Functional Morphology and Kinesiology, 10*(3), 239. https://doi.org/10.3390/jfmk10030239

Castillo, D., Marqués-Jiménez, D., Bertollo, M., López-Flores, M., Bovolon, L., De Fano, A., & Pompa, D. (2025). A systematic review and meta-analysis of various injury prevention programs in youth soccer players. *BMC Sports Science, Medicine and Rehabilitation, 17*, 190. https://doi.org/10.1186/s13102-025-01246-8

Cerrah, A. O., Şimsek, D., Soylu, A. R., Nunome, H., & Ertan, H. (2024). Developmental differences of kinematic and muscular activation patterns in instep soccer kick. *Sports Biomechanics, 23*(1), 28–43. https://doi.org/10.1080/14763141.2020.1815827

Chen, L., Yan, R., Xie, L., Zhang, Z., Zhang, W., & Wang, H. (2024). Maturation-specific enhancements in lower extremity explosive strength following plyometric training in adolescent soccer players: A systematic review and meta-analysis. *Heliyon, 10*(12), e33063. https://doi.org/10.1016/j.heliyon.2024.e33063

Chen, Y., Tulhongjiang, M., Ling, T., Feng, X., Mi, J., & Liu, R. (2025). The optimal training intervention for improving the change of direction performance of adolescent team-sport athletes: A systematic review and network meta-analysis. *PeerJ, 13*, e18971. https://doi.org/10.7717/peerj.18971

Clemente, F. M., Afonso, J., Costa, J., Oliveira, R., Pino-Ortega, J., & Rico-González, M. (2021). Relationships between sleep, athletic and match performance, training load, and injuries: A systematic review of soccer players. *Healthcare, 9*(7), 808. https://doi.org/10.3390/healthcare9070808

Colbert, T. (2025, October 14). *Athleticism for young players: A foundation for physical development*. FIFA Training Centre.

Del Vecchio, A., Negro, F., Holobar, A., Casolo, A., Folland, J. P., Felici, F., & Farina, D. (2019). You are as fast as your motor neurons: Speed of recruitment and maximal discharge of motor neurons determine the maximal rate of force development in humans. *The Journal of Physiology, 597*(9), 2445–2456. https://doi.org/10.1113/jp277396

Diong, J., Carden, P. C., O'Sullivan, K., Sherrington, C., & Reed, D. S. (2022). Eccentric exercise improves joint flexibility in adults: A systematic review update and meta-analysis. *Musculoskeletal Science and Practice, 60*, 102556. https://doi.org/10.1016/j.msksp.2022.102556

Donti, O., Konrad, A., Panidi, I., Dinas, P. C., & Bogdanis, G. C. (2022). Is there a "window of opportunity" for flexibility development in youth? A systematic review with meta-analysis. *Sports Medicine - Open, 8*(1), 88. https://doi.org/10.1186/s40798-022-00476-1

Dos'Santos, T., McBurnie, A., Comfort, P., & Jones, P. A. (2019). The effects of six-weeks change of direction speed and technique modification training on cutting performance and movement quality in male youth soccer players. *Sports, 7*(9), Article 205. https://doi.org/10.3390/sports7090205

Dos'Santos, T., McBurnie, A., Thomas, C., Comfort, P., & Jones, P. A. (2020). Biomechanical determinants of the modified and traditional 505 change of direction speed test. *Journal of Strength and Conditioning Research, 34*(5), 1285–1296. https://doi.org/10.1519/jsc.0000000000003439

Dos'Santos, T., Thomas, C., & Jones, P. A. (2021). How early should you brake during a 180° turn? A kinetic comparison of the antepenultimate, penultimate, and final foot contacts during a 505 change of direction speed test. *Journal of Sports Sciences, 39*(4), 395–405. https://doi.org/10.1080/02640414.2020.1823130

Dos'Santos, T., Thomas, C., Comfort, P., & Jones, P. A. (2018). The effect of angle and velocity on change of direction biomechanics: An angle-velocity trade-off. *Sports Medicine, 48*(10), 2235–2253. https://doi.org/10.1007/s40279-018-0968-3

Dos'Santos, T., Thomas, C., Jones, P. A., & Comfort, P. (2017). Mechanical determinants of faster change of direction speed performance in male athletes. *Journal of Strength and Conditioning Research, 31*(3), 696–705. https://doi.org/10.1519/jsc.0000000000001535

Douglas, J., Pearson, S., Ross, A., & McGuigan, M. (2017a). Chronic adaptations to eccentric training: A systematic review. *Sports Medicine, 47*(5), 917–941. https://doi.org/10.1007/s40279-016-0628-4

Douglas, J., Pearson, S., Ross, A., & McGuigan, M. (2017b). Eccentric exercise: Physiological characteristics and acute responses. *Sports Medicine, 47*(4), 663–675. https://doi.org/10.1007/s40279-016-0624-8

Falch, H. N., Rædergård, H. G., & van den Tillaar, R. (2020). Effect of approach distance and change of direction angles upon step and joint kinematics, peak muscle activation, and change of direction performance. *Frontiers in Sports and Active Living, 2*, Article 594567. https://doi.org/10.3389/fspor.2020.594567
Ferreira, A. B. de M., Ribeiro, B. L. L., Batista, E. dos S., Dantas, M. P., & Mortatti, A. L. (2023). The influence of different training load magnitudes on sleep pattern, perceived recovery, and stress tolerance in young soccer players. *Journal of Strength and Conditioning Research, 37*(2), 351–357. https://doi.org/10.1519/jsc.0000000000004235
FIFA Talent Coach Programme. (2024, January 30). *Passing circuit: Receiving between the lines*. FIFA Training Centre.
FIFA. (2022, February 4). *Train the talent*. FIFA Training Centre.
FIFA. (2023, September 18). *Jacqueline Dünker: Directing the ball with the first touch*. FIFA Training Centre.
FIFA. (2024, April 9). *Spiralling up: The long-term development process*. FIFA Training Centre.
FIFA. (2025, August 26). *Ages 12–15: Introduction to the progressive methodology*. FIFA Training Centre.
Fort-Vanmeerhaeghe, A., Benet, A., Mirada, S., Montalvo, A. M., & Myer, G. D. (2019). Sex and maturation differences in performance of functional jumping and landing deficits in youth athletes. *Journal of Sport Rehabilitation, 28*(6), 606–613. https://doi.org/10.1123/jsr.2017-0292
Fort-Vanmeerhaeghe, A., Montalvo, A. M., Lloyd, R. S., Read, P., & Myer, G. D. (2017). Intra- and inter-rater reliability of the modified tuck jump assessment. *Journal of Sports Science & Medicine, 16*(1), 117–124.
Frayne, D. H., Zettel, J. L., Beach, T. A. C., & Brown, S. H. M. (2021). The influence of countermovements on inter-segmental coordination and mechanical energy transfer during vertical jumping. *Journal of Motor Behavior, 53*(5), 545–557. https://doi.org/10.1080/00222895.2020.1810611
Friebe, D., Sieland, J., Both, H., Giesche, F., Haser, C., Hülsdünker, T., Pfab, F., Vogt, L., & Banzer, W. (2024). Validity of a motor-cognitive dual-task *agility* test in elite youth football players. *European Journal of Sport Science, 24*(8), 1056–1066. https://doi.org/10.1002/ejsc.12153
Fukaya, T., Sato, S., Yahata, K., Yoshida, R., Takeuchi, K., & Nakamura, M. (2022). Effects of stretching intensity on range of motion and muscle stiffness: A narrative review. *Journal of Bodywork and Movement Therapies, 32*, 68–76. https://doi.org/10.1016/j.jbmt.2022.04.011
Fuller, C. W., Ekstrand, J., Junge, A., Andersen, T. E., Bahr, R., Dvorak, J., Hägglund, M., McCrory, P., & Meeuwisse, W. H. (2006). Consensus statement on injury definitions and data collection procedures in studies of football (soccer)

injuries. *British Journal of Sports Medicine, 40*(3), 193–201. https://doi.org/10.1136/bjsm.2005.025270

Gibson, N., Brownstein, C., Ball, D., & Twist, C. (2017). Physiological, perceptual and performance responses associated with self-selected versus standardized recovery periods during a repeated sprint protocol in elite youth football players: A preliminary study. *Pediatric Exercise Science, 29*(2), 186–193. https://doi.org/10.1123/pes.2016-0130

Gioldasis, A., Theodorou, A., Bekris, E., Katis, A., & Smirniotou, A. (2022). Sprinting and dribbling differences in young soccer players: A kinematic approach. *Research in Sports Medicine, 30*(6), 603–615. https://doi.org/10.1080/15438627.2021.1929220

Grassi, A., Quaglia, A., Canata, G. L., & Zaffagnini, S. (2016). An update on the grading of muscle injuries: A narrative review from clinical to comprehensive systems. *Joints, 4*(1), 39–46. https://doi.org/10.11138/jts/2016.4.1.039

Hammami, M., Negra, Y., Aouadi, R., Shephard, R. J., & Chelly, M. S. (2016). Effects of an in-season plyometric training program on repeated change of direction and sprint performance in the junior soccer player. *Journal of Strength and Conditioning Research, 30*(12), 3312–3320. https://doi.org/10.1519/jsc.0000000000001470

Harper, D. J., McBurnie, A. J., Dos'Santos, T., Eriksrud, O., Evans, M., Cohen, D. D., Rhodes, D., Carling, C., & Kiely, J. (2022). Biomechanical and neuromuscular performance requirements of horizontal deceleration: A review with implications for random intermittent multi-directional sports. *Sports Medicine, 52*(10), 2321–2354. https://doi.org/10.1007/s40279-022-01693-0

Haugen, T. A., Breitschädel, F., & Seiler, S. (2020). Sprint mechanical properties in soccer players according to playing standard, position, age and sex. *Journal of Sports Sciences, 38*(9), 1070–1076. https://doi.org/10.1080/02640414.2020.1741955

Hernández-Davó, J. L., Sabido, R., Omar-García, M., & Boullosa, D. (2024). Why should athletes brake fast? Influence of eccentric velocity on concentric performance during countermovement jumps at different loads. *International Journal of Sports Physiology and Performance, 19*(4), 375–382. https://doi.org/10.1123/ijspp.2023-0273

Hirayama, K., Iwanuma, S., Ikeda, N., Yoshikawa, A., Ema, R., & Kawakami, Y. (2017). Plyometric training favors optimizing muscle-tendon behavior during depth jumping. *Frontiers in Physiology, 8*, 16. https://doi.org/10.3389/fphys.2017.00016

Hody, S., Croisier, J.-L., Bury, T., Rogister, B., & Leprince, P. (2019). Eccentric muscle contractions: Risks and benefits. *Frontiers in Physiology, 10*, 536. https://doi.org/10.3389/fphys.2019.00536

Horníková, H., Hadža, R., & Zemková, E. (2025). The contribution of perceptual-cognitive skills to reactive *agility* in early and middle adolescent soccer players. *Journal of Strength and Conditioning Research, 39*(3), e478–e484. https://doi.org/10.1519/jsc.0000000000004997

Hua, A., Bai, J., Fan, Y., & Wang, J. (2022). Comparison of distance and angular analysis for measurement of hamstring flexibility in preschoolers. *Children, 9*(1), 39. https://doi.org/10.3390/children9010039

Hyldahl, R. D., Chen, T. C., & Nosaka, K. (2017). Mechanisms and mediators of the skeletal muscle repeated bout effect. *Exercise and Sport Sciences Reviews, 45*(1), 24–33. https://doi.org/10.1249/jes.0000000000000095

Impellizzeri, F. M., Marcora, S. M., & Coutts, A. J. (2019). Internal and external training load: 15 years on. *International Journal of Sports Physiology and Performance, 14*(2), 270–273. https://doi.org/10.1123/ijspp.2018-0935

Ingram, L. A., Tomkinson, G. R., d'Unienville, N. M. A., Gower, B., Gleadhill, S., Boyle, T., & Bennett, H. (2025). Mechanisms underlying range of motion improvements following acute and chronic static stretching: A systematic review, meta-analysis and multivariate meta-regression. *Sports Medicine, 55*(6), 1449–1466. https://doi.org/10.1007/s40279-025-02204-7

Irfan, M., Yenes, R., Irawan, R., & Oktavianus, I. (2020). Kemampuan teknik dasar sepakbola. *Jurnal Patriot, 2*(3), 720–731. https://doi.org/10.24036/patriot.v2i3.664

Itoh, R., & Hirose, N. (2020). Relationship among biological maturation, physical characteristics, and motor abilities in youth elite soccer players. *Journal of Strength and Conditioning Research, 34*(2), 382–388. https://doi.org/10.1519/jsc.0000000000003346

Jones, S., Mullen, R., Clair, Z., Wrigley, R., Andersen, T. E., & Williams, M. (2021). Field based lower limb strength tests provide insight into sprint and change of direction ability in academy footballers. *Scandinavian Journal of Medicine & Science in Sports, 31*(12), 2178–2186. https://doi.org/10.1111/sms.14039

Kadlubowski, B., Keiner, M., Hartmann, H., Wirth, K., & Frick, U. (2019). The relationship between change of direction tests in elite youth soccer players. *Sports, 7*(5), 111. https://doi.org/10.3390/sports7050111

Kay, A. D., Baxter, B. A., Hill, M. W., & Blazevich, A. J. (2023). Effects of eccentric resistance training on lower-limb passive joint range of motion: A systematic review and meta-analysis. *Medicine & Science in Sports & Exercise, 55*(4), 710–721. https://doi.org/10.1249/mss.0000000000003085

Kellmann, M., Bertollo, M., Bosquet, L., Brink, M., Coutts, A. J., Duffield, R., Erlacher, D., Halson, S. L., Hecksteden, A., Heidari, J., Kallus, K. W., Meeusen, R., Mujika, I., Robazza, C., Skorski, S., Venter, R., & Beckmann, J. (2018). Recovery and performance in sport: Consensus statement. *International Journal of Sports*

Physiology and Performance, 13(2), 240–245. https://doi.org/10.1123/ijspp.2017-0759

Kember, L. S., Myer, G. D., Moore, I. S., & Lloyd, R. S. (2024). Effects of fatigue on lower limb biomechanics and kinetic stabilization during the tuck-jump assessment. *Journal of Athletic Training, 59*(7), 705–712. https://doi.org/10.4085/1062-6050-0252.23

King, M., Ball, D., Weston, M., McCunn, R., & Gibson, N. (2022). Initial fitness, maturity status, and total training explain small and inconsistent proportions of the variance in physical development of adolescent footballers across one season. *Research in Sports Medicine, 30*(3), 283–294. https://doi.org/10.1080/15438627.2021.1888106

King-Dowling, S., Fortnum, K., Chirico, D., Le, T., Kwan, M. Y. W., Timmons, B. W., & Cairney, J. (2024). Reliability of field- and laboratory-based assessments of health-related fitness in preschool-aged children. *American Journal of Human Biology, 36*(2), e23987. https://doi.org/10.1002/ajhb.23987

Kipp, K., Krzyszkowski, J., & Heeneman, J. (2021). Hip moment and knee power eccentric utilisation ratios determine lower-extremity stretch-shortening cycle performance. *Sports Biomechanics, 20*(5), 532–542. https://doi.org/10.1080/14763141.2019.1579854

Kotsifaki, A., Korakakis, V., Graham-Smith, P., Sideris, V., & Whiteley, R. (2021). Vertical and horizontal hop performance: Contributions of the hip, knee, and ankle. *Sports Health, 13*(2), 128–135. https://doi.org/10.1177/1941738120976363

Kubo, K., Ikebukuro, T., & Yata, H. (2021). Effects of plyometric training on muscle–tendon mechanical properties and behavior of fascicles during jumping. *Physiological Reports, 9*(21), Article e15073. https://doi.org/10.14814/phy2.15073

Kumar, N. T. A., Oliver, J. L., Lloyd, R. S., Pedley, J. S., & Radnor, J. M. (2021). The influence of growth, maturation and resistance training on muscle-tendon and neuromuscular adaptations: A narrative review. *Sports, 9*(5), 59. https://doi.org/10.3390/sports9050059

Lin, G., Chen, J., Yan, R., Deng, B., Song, W., Guan, B., & Sun, J. (2025). Effects of maturation stage on physical fitness in youth male team sports players after plyometric training: A systematic review and meta-analysis. *Sports Medicine - Open, 11*(1), 97. https://doi.org/10.1186/s40798-025-00907-9

Lindblom, H., Hägglund, M., & Sonesson, S. (2021). Intra- and interrater reliability of subjective assessment of the drop vertical jump and tuck jump in youth athletes. *Physical Therapy in Sport, 47*, 156–164. https://doi.org/10.1016/j.ptsp.2020.11.031

Liu, R., Liu, J., Clarke, C. V., & An, R. (2020). Effect of eccentric overload training on change of direction speed performance: A systematic review and meta-analysis. *Journal of Sports Sciences, 38*(22), 2579–2587. https://doi.org/10.1080/02640414.2020.1794247

Lloyd, R. S., Dobbs, I. J., Wong, M. A., Moore, I. S., & Oliver, J. L. (2022). Effects of training frequency during a 6-month neuromuscular training intervention on movement competency, strength, and power in male youth. *Sports Health, 14*(1), 57–68. https://doi.org/10.1177/19417381211050005

Lloyd, R. S., Oliver, J. L., Myer, G. D., De Ste Croix, M. B., Wass, J., & Read, P. J. (2020). Comparison of drop jump and tuck jump knee joint kinematics in elite male youth soccer players: Implications for injury risk screening. *Journal of Sport Rehabilitation, 29*(6), 760–765. https://doi.org/10.1123/jsr.2019-0077

Loturco, I., Nakamura, F. Y., Kobal, R., Gil, S., Pivetti, B., Pereira, L. A., & Roschel, H. (2016). Traditional periodization versus optimum training load applied to soccer players: Effects on neuromuscular abilities. *International Journal of Sports Medicine, 37*(13), 1051–1059. https://doi.org/10.1055/s-0042-107249

Mackala, K., Vodičar, J., Žvan, M., Križaj, J., Stodolka, J., Rauter, S., Šimenko, J., & Čoh, M. (2020). Evaluation of the pre-planned and non-planed *agility* performance: Comparison between individual and team sports. *International Journal of Environmental Research and Public Health, 17*(3), 975. https://doi.org/10.3390/ijerph17030975

Makhlouf, I., Tayech, A., Mejri, M. A., Haddad, M., Behm, D. G., Granacher, U., & Chaouachi, A. (2022). Reliability and validity of a modified Illinois change-of-direction test with ball dribbling speed in young soccer players. *Biology of Sport, 39*(2), 295–306. https://doi.org/10.5114/biolsport.2022.104917

Mandorino, M., Figueiredo, A. J., Gjaka, M., & Tessitore, A. (2023). Injury incidence and risk factors in youth soccer players: A systematic literature review. Part II: Intrinsic and extrinsic risk factors. *Biology of Sport, 40*(1), 27–49. https://doi.org/10.5114/biolsport.2023.109962

Mangine, G. T., Hoffman, J. R., Wang, R., Gonzalez, A. M., Townsend, J. R., Wells, A. J., Jajtner, A. R., Beyer, K. S., Boone, C. H., Miramonti, A. A., LaMonica, M. B., Fukuda, D. H., Ratamess, N. A., & Stout, J. R. (2016). Resistance training intensity and volume affect changes in rate of force development in resistance-trained men. *European Journal of Applied Physiology, 116*(11–12), 2367–2374. https://doi.org/10.1007/s00421-016-3488-6

Matlák, J., Fridvalszki, M., Kóródi, V., Szamosszegi, G., Pólyán, E., Kovács, B., Kolozs, B., Langmár, G., & Rácz, L. (2024). Relationship between cognitive functions and *agility* performance in elite young male soccer players. *Journal of Strength and Conditioning Research, 38*(1), 116–122. https://doi.org/10.1519/jsc.0000000000004644

Mayorga-Vega, D., Merino-Marban, R., & Viciana, J. (2014). Criterion-related validity of sit-and-reach tests for estimating hamstring and lumbar extensibility: A meta-analysis. *Journal of Sports Science and Medicine, 13*(1), 1–14.

McBurnie, A. J., Harper, D. J., Jones, P. A., & Dos'Santos, T. (2022). Deceleration training in team sports: Another potential 'vaccine' for sports-related injury? *Sports Medicine, 52*(1), 1–12. https://doi.org/10.1007/s40279-021-01583-x

McKinlay, B. J., Wallace, P., Dotan, R., Long, D., Tokuno, C., Gabriel, D. A., & Falk, B. (2018). Effects of plyometric and resistance training on muscle strength, explosiveness, and neuromuscular function in young adolescent soccer players. *Journal of Strength and Conditioning Research, 32*(11), 3039–3050. https://doi.org/10.1519/jsc.0000000000002428

Mersmann, F., Laube, G., Bohm, S., & Arampatzis, A. (2020). Muscle and tendon morphology in early-adolescent athletes and untrained peers. *Frontiers in Physiology, 11*, 1029. https://doi.org/10.3389/fphys.2020.01029

Michailidis, Y., Tabouris, A., & Metaxas, T. (2019). Effects of plyometric and directional training on physical fitness parameters in youth soccer players. *International Journal of Sports Physiology and Performance, 14*(3), 392–398. https://doi.org/10.1123/ijspp.2018-0545

Miguel, M., Oliveira, R., Loureiro, N., García-Rubio, J., & Ibáñez, S. J. (2021). Load measures in training/match monitoring in soccer: A systematic review. *International Journal of Environmental Research and Public Health, 18*(5), 2721. https://doi.org/10.3390/ijerph18052721

Morgan, O. J., Drust, B., Ade, J. D., & Robinson, M. A. (2022). Change of direction frequency off the ball: New perspectives in elite youth soccer. *Science and Medicine in Football, 6*(4), 473–482. https://doi.org/10.1080/24733938.2021.1986635

Mueller-Wohlfahrt, H.-W., Haensel, L., Mithoefer, K., Ekstrand, J., English, B., McNally, S., Orchard, J., van Dijk, C. N., Kerkhoffs, G. M., Schamasch, P., Blottner, D., Swaerd, L., Goedhart, E., & Ueblacker, P. (2013). Terminology and classification of muscle injuries in sport: The Munich consensus statement. *British Journal of Sports Medicine, 47*(6), 342–350. https://doi.org/10.1136/bjsports-2012-091448

Nakamura, H., Yamashita, D., Nishiumi, D., Nakaichi, N., & Hirose, N. (2025). Acute effect of technique modification training on 180° change of direction performance and kinematics in adolescent male soccer players. *Frontiers in Sports and Active Living, 7*, 1453859. https://doi.org/10.3389/fspor.2025.1453859

Nasution, M. A., & Muhammad. (2019). Pengaruh latihan *half squat jump* dan *knee tuck jump* dengan intensitas 45%–65% terhadap kemampuan *vertical jump* atlet putra bolavoli Patrialist. *Jurnal Prestasi Olahraga, 2*(4), 1–7.

Negra, Y., Chaabene, H., Amara, S., Jaric, S., Hammami, M., & Hachana, Y. (2017). Evaluation of the Illinois change of direction test in youth elite soccer players of different age. *Journal of Human Kinetics, 58*, 215–224. https://doi.org/10.1515/hukin-2017-0079

Negra, Y., Chaabene, H., Sammoud, S., Prieske, O., Moran, J., Ramírez-Campillo, R., Nejmaoui, A., & Granacher, U. (2020). The increased effectiveness of loaded versus unloaded plyometric jump training in improving muscle power, speed, change of direction, and kicking-distance performance in prepubertal male soccer players. *International Journal of Sports Physiology and Performance, 15*(2), 189–195. https://doi.org/10.1123/ijspp.2018-0866

Nobari, H., Alves, A. R., Haghighi, H., Clemente, F. M., Carlos-Vivas, J., Pérez-Gómez, J., & Ardigò, L. P. (2021). Association between training load and well-being measures in young soccer players during a season. *International Journal of Environmental Research and Public Health, 18*(9), 4451. https://doi.org/10.3390/ijerph18094451

Nuzzo, J. L. (2020). The case for retiring flexibility as a major component of physical fitness. *Sports Medicine, 50*(5), 853–870. https://doi.org/10.1007/s40279-019-01248-w

Nuzzo, J. L. (2026). Sex differences in sit-and-reach flexibility in children and adolescents: A meta-analysis. *Journal of Bodywork and Movement Therapies, 47*, 608–619. https://doi.org/10.1016/j.jbmt.2026.05.012

Orlandi, D., Corazza, A., Arcidiacono, A., Messina, C., Serafini, G., Sconfienza, L. M., & Silvestri, E. (2016). Ultrasound-guided procedures to treat sport-related muscle injuries. *The British Journal of Radiology, 89*(1057), 20150484. https://doi.org/10.1259/bjr.20150484

Paton, B. M., Court, N., Giakoumis, M., Head, P., Kayani, B., Kelly, S., Kerkhoffs, G. M. M. J., Moore, J., Moriarty, P., Murphy, S., Plastow, R., Pollock, N., Read, P., Stirling, B., Tulloch, L., van Dyk, N., Wilson, M. G., Wood, D., & Haddad, F. (2023). London International Consensus and Delphi study on hamstring injuries part 1: Classification. *British Journal of Sports Medicine, 57*(5), 254–265. https://doi.org/10.1136/bjsports-2021-105371

Paul, D. J., Gabbett, T. J., & Nassis, G. P. (2016). *Agility* in team sports: Testing, training and factors affecting performance. *Sports Medicine, 46*(3), 421–442. https://doi.org/10.1007/s40279-015-0428-2

Peek, K., Ford, K. R., Myer, G. D., Hewett, T. E., & Pappas, E. (2022). Effect of sex and maturation on knee extensor and flexor strength in adolescent athletes. *The American Journal of Sports Medicine, 50*(12), 3280–3285. https://doi.org/10.1177/03635465221118081

Pérez-Castilla, A., Weakley, J., García-Pinillos, F., Rojas, F. J., & García-Ramos, A. (2021). Influence of countermovement depth on the countermovement jump-derived reactive strength index modified. *European Journal of Sport Science, 21*(12), 1606–1616. https://doi.org/10.1080/17461391.2020.1845815

Pojskic, H., Åslin, E., Krolo, A., Jukic, I., Uljevic, O., Spasic, M., & Sekulic, D. (2018). Importance of reactive *agility* and change of direction speed in

differentiating performance levels in junior soccer players: Reliability and validity of newly developed soccer-specific tests. *Frontiers in Physiology, 9*, Article 506. https://doi.org/10.3389/fphys.2018.00506

Ramírez-Campillo, R., Alvarez, C., García-Pinillos, F., Gentil, P., Moran, J., Pereira, L. A., & Loturco, I. (2019). Effects of plyometric training on physical performance of young male soccer players: Potential effects of different drop jump heights. *Pediatric Exercise Science, 31*(3), 306–313. https://doi.org/10.1123/pes.2018-0207

Ramírez-Campillo, R., Sanchez-Sanchez, J., Gonzalo-Skok, O., Rodríguez-Fernandez, A., Carretero, M., & Nakamura, F. Y. (2018). Specific changes in young soccer player's fitness after traditional bilateral vs. unilateral combined strength and plyometric training. *Frontiers in Physiology, 9*, 265. https://doi.org/10.3389/fphys.2018.00265

Robles-Palazón, F. J., López-Valenciano, A., De Ste Croix, M., Oliver, J. L., García-Gómez, A., Sainz de Baranda, P., & Ayala, F. (2022). Epidemiology of injuries in male and female youth football players: A systematic review and meta-analysis. *Journal of Sport and Health Science, 11*(6), 681–695. https://doi.org/10.1016/j.jshs.2021.10.002

Robles-Palazón, F. J., Ruiz-Pérez, I., Oliver, J. L., Ayala, F., & Sainz de Baranda, P. (2021). Reliability, validity, and maturation-related differences of frontal and sagittal plane landing kinematic measures during drop jump and tuck jump screening tests in male youth soccer players. *Physical Therapy in Sport, 50*, 206–216. https://doi.org/10.1016/j.ptsp.2021.05.009

Salter, J., De Ste Croix, M. B. A., Hughes, J. D., Weston, M., & Towlson, C. (2021). Monitoring practices of training load and biological maturity in UK soccer academies. *International Journal of Sports Physiology and Performance, 16*(3), 395–406. https://doi.org/10.1123/ijspp.2019-0624

Sanchez-Sanchez, J., Ramirez-Campillo, R., Petisco, C., Gonzalo-Skok, O., Rodriguez-Fernandez, A., Miñano, J., & Nakamura, F. Y. (2019). Effects of repeated sprints with changes of direction on youth soccer player's performance: Impact of initial fitness level. *Journal of Strength and Conditioning Research, 33*(10), 2753–2759. https://doi.org/10.1519/jsc.0000000000002232

The International Football Association Board. (2026). *Laws of the Game 2026/27*. The International Football Association Board.

Torre, M. F., Martinez-Ferran, M., Vallecillo, N., Jiménez, S. L., Romero-Morales, C., & Pareja-Galeano, H. (2021). Supplementation with vitamins C and E and exercise-induced delayed-onset muscle soreness: A systematic review. *Antioxidants, 10*(2), 279. https://doi.org/10.3390/antiox10020279

Towlson, C., Salter, J., Ade, J. D., Enright, K., Harper, L. D., Page, R. M., & Malone, J. J. (2021). Maturity-associated considerations for training load, injury

risk, and physical performance in youth soccer: One size does not fit all. *Journal of Sport and Health Science, 10*(4), 403–412. https://doi.org/10.1016/j.jshs.2020.09.003

Valle, X., Alentorn-Geli, E., Tol, J. L., Hamilton, B., Garrett, W. E., Jr., Pruna, R., Til, L., Gutierrez, J. A., Alomar, X., Balius, R., Malliaropoulos, N., Monllau, J. C., Whiteley, R., Witvrouw, E., Samuelsson, K., & Rodas, G. (2017). Muscle injuries in sports: A new evidence-informed and expert consensus-based classification with clinical application. *Sports Medicine, 47*(7), 1241–1253. https://doi.org/10.1007/s40279-016-0647-1

Verstappen, S., van Rijn, R. M., Cost, R., & Stubbe, J. H. (2021). The association between training load and injury risk in elite youth soccer players: A systematic review and best evidence synthesis. *Sports Medicine - Open, 7*(1), 6. https://doi.org/10.1186/s40798-020-00296-1

Vetter, S., Schleichardt, A., Köhler, H.-P., & Witt, M. (2022). The effects of eccentric strength training on flexibility and strength in healthy samples and laboratory settings: A systematic review. *Frontiers in Physiology, 13*, 873370. https://doi.org/10.3389/fphys.2022.873370

Vieira, L. H. P., Barbieri, F. A., Kellis, E., Oliveira, L., Aquino, R., Cunha, S., Bedo, B., Manechini, J., & Santiago, P. R. P. (2021). Organisation of instep kicking in young U11 to U20 soccer players. *Science and Medicine in Football, 5*(2), 111–120. https://doi.org/10.1080/24733938.2020.1807043

Vigh-Larsen, J. F., Dalgas, U., & Andersen, T. B. (2018). Position-specific acceleration and deceleration profiles in elite youth and senior soccer players. *Journal of Strength and Conditioning Research, 32*(4), 1114–1122. https://doi.org/10.1519/jsc.0000000000001918

Wahlquist, V. E., & Kaminski, T. W. (2021). Analysis of head impact biomechanics in youth female soccer players following the Get aHEAD Safely in Soccer™ heading intervention. *Sensors, 21*(11), 3859. https://doi.org/10.3390/s21113859

Weavil, J. C., & Amann, M. (2019). Neuromuscular fatigue during whole body exercise. *Current Opinion in Physiology, 10*, 128–136. https://doi.org/10.1016/j.cophys.2019.05.008

Wells, K. F., & Dillon, E. K. (1952). The sit and reach: A test of back and leg flexibility. *Research Quarterly. American Association for Health, Physical Education and Recreation, 23*(1), 115–118. https://doi.org/10.1080/10671188.1952.10761965

Wiig, H., Andersen, T. E., Luteberget, L. S., & Spencer, M. (2020). Individual response to external training load in elite football players. *International Journal of Sports Physiology and Performance, 15*(5), 696–704. https://doi.org/10.1123/ijspp.2019-0453

Wik, E. H. (2022). Growth, maturation and injuries in high-level youth football (soccer): A mini review. *Frontiers in Sports and Active Living, 4*, 975900. https://doi.org/10.3389/fspor.2022.975900

Williams, K. J., Chapman, D. W., Phillips, E. J., & Ball, N. (2018). Load-power relationship during a countermovement jump: A joint level analysis. *Journal of Strength and Conditioning Research, 32*(4), 955–961. https://doi.org/10.1519/jsc.0000000000002432

Williams, M. D., Ramirez-Campillo, R., Chaabene, H., & Moran, J. (2021). Neuromuscular training and motor control in youth athletes: A meta-analysis. *Perceptual and Motor Skills, 128*(5), 1975–1997. https://doi.org/10.1177/00315125211029006

Zhang, Q., Dellal, A., Chamari, K., Igonin, P.-H., Martin, C., & Hautier, C. (2022). The influence of short sprint performance, acceleration, and deceleration mechanical properties on change of direction ability in soccer players: A cross-sectional study. *Frontiers in Physiology, 13*, Article 1027811. https://doi.org/10.3389/fphys.2022.1027811

Zheng, T., Kong, R., Liang, X., Huang, Z., Luo, X., Zhang, X., & Xiao, Y. (2025). Effects of plyometric training on jump, sprint, and change of direction performance in adolescent soccer player: A systematic review with meta-analysis. *PLOS ONE, 20*(4), e0319548. https://doi.org/10.1371/journal.pone.0319548