***Тепловидение в спортивной медицине***

1. Акимов Е., Сонькин В. Кожная температура и лактатный порог во время мышечной работы у спортсменов // Физиология человека. 2011 Т. 37, № 5. С. 120-128.
2. Акимов Е.Б., Козлов А.В., Сонькин В.Д., Якушкин А.В. Взаимосвязь термопортрета спины, груди и шеи с физическим состоянием человека // Материалы Всероссийской научно-практической интернет-конференции «Актуальные проблемы биохимии и биоэнергетики спорта XXI века»: Тезисы докладов. М., 2016. 366 с.
3. Андреев Р.С. Взаимосвязь характеристик ИК температурного портрета с метаболическими показателями спортсменов. Автореф. дис. ... канд. биол. наук. М., 2012. 20 с.
4. Васильева Р.М., Орлова Н.И., Колесов А.Д., Сонькин В.Д. Индивидуальные особенности реакции центральной гемодинамики и термовегетативной реактивности кожи у девочек-спортсменок 13-14 лет при стандартной физической нагрузке // Новые исследования. 2018. [№ 2 (55)](https://elibrary.ru/contents.asp?id=36448143&selid=36448153). С. 64-79.
5. Васильева Р.М., Сонькин В.Д., Орлова Н.И., Колесов А.Д. Реакция центральной гемодинамики и термовегетативная реактивность кожи у девочек-спортсменок 13-14 лет при стандартной физической нагрузке // [Современные проблемы подготовки спортивного резерва: перспективы и пути решения](https://elibrary.ru/item.asp?id=36700557). Сб. материалов I Всероссийской с международным участием научно-практической конференции. Волгоград, 6-7 декабря 2018 г. С. 190-196.
6. Васильева Р.М., Сонькин В.Д., Орлова Н.И., Колесов А.Д. Изменение центральной гемодинамики и термовегетативной реактивности кожи при стандартной физической нагрузке у девочек 13-14 и 14-15 лет, занимающихся спортивным плаваньем // Новые исследования. 2018. № 3-4 (56). С. 85-95.
7. Гуревич К.Г., Анищенко А.П., Ураков А.Л. и др. Способ инфракрасной оценки устойчивости пояснично-крестцового мышечного и суставного комплекса пациента к сгибательно-разгибательной нагрузке. Патент РФ RU 2604957. 2016.
8. Дехтярев Ю.П., Мироненко С.А., Дунаевский В.И. и др. Tермографическая диагностика заболеваний позвоночника у спортсменов // Лечеб. физкультура и спорт. медицина. 2013. № 8(116). С. 16-20.
9. Дехтярев Ю.П., Мироненко С.А., Нечипорук В.И., Венгер Е.Ф. и др. Применение дистанционной инфракрасной термографии в диагностике заболеваний и последствий травм у спортсменов // Электроника и связь. Тематический выпуск «Электроника и нанотехнологии». 2009. № 1. С. 220-223.
10. Дехтярев Ю.П., Мироненко С.А., Нечипорук В.И., Дунаевский В.И. Дистанционная инфракрасная термография в диагностике заболеваний и последствий травм у спортсменов // Журнал Российской ассоциации по спортивной медицине и реабилитации больных и инвалидов. 2009. №4. С.49-55.
11. Дехтярев Ю.П. и др. Инфракрасная дистанционная термография как вспомогательный метод в диагностике и лечении вертеброгенных болей у спортсменов // Электроника и связь. Тематический выпуск «Электроника и нанотехнологии». 2010. № 3. С. 122-125.
12. Котовский В.И., Мироненко С.А., Дунаевский В.И., Тимофеев В.И. Термографическая диагностика в оценке состояния опорно-двигательного аппарата спортсменов // Физические процессы и поля технических и биологических объектов. ХІІІ Международная научно-техническая конференция; Кременчук, Украина. 15 апреля 2014.
13. Миронов С.П., Крупаткин А.И., Бурмакова Г.М. Применение компьютерной термографии в диагностике заболеваний пояснично-крестцового отдела позвоночника у спортсменов и артистов балета // Вестник травматологии и ортопедии. 2002. № 3. С. 31-35.
14. Орлова Н.И., Васильева Р.М., Колесов А.Д. и др. Особенности температурной реакции кожи на перемежающееся действие холода и физической нагрузки у подростков спортсменов 13-16-летнего возраста // Январь 2020. DOI: [10.46742/2072-8840-2020-62-2-63-73](https://www.researchgate.net/deref/http%3A//dx.doi.org/10.46742/2072-8840-2020-62-2-63-73?_sg%5B0%5D=9O-AxSH3J2Uep8g0qvmN6Rx-Uy2j2MnMqNWd69ZyK4s-v6vN8EUAWL1wK-HAaqT1-5p6HBVo8WjiQsioIlliJk9AGw.PDoTL_nPJErmHbW0r1LioBO2bL8aHq9Qu1cPs0uu1uWcQEmXQizr-CLTK_qn6xcR06JaUOjzSigJpd2cSH53cg)
15. Сонькин В.Д., Акимов Е.Б., Андреев Р.С. и др. Динамическая инфракрасная термография как метод изучения теплового состояния человека при различных функциональных пробах // Физиология мышечной деятельности. 2011. [Электронный ресурс ИМБП]. 2011. URL: <http://phmag.imbp.ru/articles/Sonkin.pdf>
16. Шестопалов А.Е., Жолинский А.В., Пушкина Т.А. и др. Влияние нормализации микробиоты на физическую работоспособность и психофизиологическое состояние спортсменов высокой квалификации // Клиническое питание и метаболизм. 2022. Т. 3, № 2. С. 75–90. DOI: <https://doi.org/10.17816/clinutr106582>
17. Якушкин А.В., Сонькин В.Д. Влияние холодовых и умеренных физических нагрузок на термопортрет спортсменов // Материалы IV всероссийской с международным участием Конференции по управлению движением, приуроченной к 90-летнему юбилею кафедры физиологии ФГБОУ ВПО РГУФКСМиТ. Тезисы докладов. М., 2012. 182 с.
18. Akimov E.B., Andreev R.S., Arkov V.V. et al. Thermal portrait of sportsmen with different aerobic capacity // Acta Kinesiologiae Universitatis Tartuensis, 2009. 14, 7-16. doi:10.12697/akut.2009.14.01
19. Akimov E.B., Andreev R.S., Kalenov Y.N. et al. Human temperature portrait and its relations with aerobic working capacity and the level of blood lactate // Human Physiology, 2010, 36(4), 89-101. doi: 10.1134/S0362119710040109
20. Akimov E.B., Sonkin V.D. Skin temperature and lactate threshold during muscle work in athletes // Human Physiology, 2011. 37 (5): 621-628. DOI: 10.1134/S0362119711050033
21. Son'kin V.D., Akimov E.B., Andreev R.S. et al. Brown adipose tissue participates in lactate utilization during muscular work // In: icSPORTS 2014 – Proceedings of the 2nd International Congress on Sports Sciences Research and Technology Support: 97-102.
22. Son'kin V.D., Iakushkin A.V., Akimov E.B. et al. [The physiological analysis of cross adaptation to regular cold exposure and physical activities] // Fiziologiia cheloveka 2014; 40 (6): 98-113. [in Russian]
23. Yakushkin A.V., Akimov E.B., Andreev R.S. et al. Effect of training on treadmill performance aerobic capacity and body responses to acute cold exposure // Human Physiology 2014; 40 (4) 422-432.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Abate M., Di Carlo L., Di Donato L. et al. Comparison of cutaneous termic response to a standardized warm up in trained and untrained individuals // The Journal of Sports Medicine and Physical Fitness, 2013. 53 (2): 209-215. PMID:23584330
2. Adamczyk J.G., Boguszewski D., Siewierski M. Physical effort ability in counter movement jump depending on the kind of warm-up and surface temperature of the quadriceps // Baltic J Health Phys Act. 2012;4:164-171.
3. Adamczyk G.J., Boguszewski D., Siewierski M. Thermographic evaluation of lactate level in capillary blood during post-exercise recovery // Kinesiology 2014. 46. 2: 186-193.
4. Adamczyk J.G., Boguszewski D., Siewierski M., Bialoszewski D. Non-invasive evaluation of lactate level in capillary blood during post-exercise recovery // Thermology international 2014; 24 (2): 66 (abstract).
5. Adamczyk J.G., Boguszewski D., Siewierski M., Bialoszewski D. Relations between thermal portrait and aerobic capacity - evaluation of thermoregulation efficiency throughout thermovision // Proceedings of the 17th Congress of the Polish Association of Thermology, Zakopane, March15-17, 2013. Thermology international 2013, 23/2: 73. DOI: 10.13140/2.1.2429.3449
6. Adamczyk J.G., Krasowska I., Boguszewski D., Reaburn P. The use of thermal imaging to assess the effectiveness of ice massage and cold-water immersion as methods for supporting post-exercise recovery // Journal of Thermal Biology. 2016;60:20-25. TB1757. <http://dx.doi.org/10.1016/j.jtherbio.2016.05.006>
7. Adamczyk J.G., Olszewska M., Boguszewski D. et al. Is it possible to create a thermal model of warm-up? Monitoring of the training process in athletic decathlon // Infrared Physics & Technology. 2015, 25 (3): 126. (2016;76:555-559?). doi:<http://dx.doi.org/10.1016/j.infrared.2016.04.017>
8. Aidar F.J., Matos D.G., Souza R.F. et al. Comparison of the Local Temperature, Lactate and Glucose After Three Different Strength Training Methods // International Journal of Exercise Science. 2021;14(4):1408-1420.
9. Aylwin P., Havenith G., Cardinale M. et al. Thermoregulatory responses during road races in hot-humid conditions at the 2019 Athletics World Championships // Journal of Applied Physiology: Respiratory, Environmental and Exercise Physiology. April 2023. DOI: [10.1152/japplphysiol.00348.2022](http://dx.doi.org/10.1152/japplphysiol.00348.2022)
10. Alexander J., Rhodes D. Temporal Patterns of Knee Extensor Isokinetic Torque Strength in Male and Female Athletes Following Comparison of Anterior Thigh and Knee Cooling, Over a Rewarming Period // J. Sport Rehab. 2019 May 29:1-18.
11. Almeida Júnior H., De Andrade Bastos A., Martins F.J.A. Comparison of the thermal profile of judokas and Brazilian jiu-jitsu athletes // Journal of Physical Education and Sport (JPES), 2019, Vol. 19 (Supplement issue 1), Art 1, pp. 3-7. DOI: [10.7752/jpes.2019.s1001](http://dx.doi.org/10.7752/jpes.2019.s1001)
12. Al-Nakhli H.H., Petrofsky J.S., Laymon M.S., Berk L.S. The Use of Thermal Infra-Red Imaging to Detect Delayed Onset Muscle Soreness // Journal of Visualized Experiments, 2012. (59): e3551. doi:10.3791/3551
13. Amaro A.M., Paulino M.F., Neto M.A., Roseiro L. Hand-arm vibration assessment and changes in the thermal map of the skin in tennis athletes during the service // International Journal of Environmental Research and Public Health 2019; 16 (24), art. no. 5117. doi:10.3390/ijerph16245117
14. Ammer K. Thermal Evaluation of Tennis Elbow. In: Ammer K., Ring E.J.F., editors. The Thermal Image in Medicine and Biology. Uhlen Verlag Wien; Vienna, Austria: 1995. P. 214-219.
15. Ammer K. Does the TISEM-Checklist address the deficits in reporting thermographic studies? // XIV Congress of the European Association of Thermology 4th-7th July 2018. At: National Physical Laboratory, Teddington, UK / Thermology international 2018, 28(2) 71.
16. Application of Infrared Thermography in Sports Science. Jose Ignacio Priego Quesada (Editor). Valencia, Spain: Springer International Publishing AG, 2017. 327 p. DOI 10.1007/978-3-319-47410-6
17. Araújo V.A., Carvalho L.S., Morais N.A. et al. Thermographic analysis of lower limbs of young assets after an acute plyometric training session // Revista Brasileira de Prescriçăo e Fisiologia do Exercício, 2018, 72(12): 56-62.
18. Araújo V.A. et al. Análise termográfica dos membros inferiores de jovens ativos após uma sessão aguda de treinamento pliométrico // Revista Brasileira de Prescrição e Fisiologia do Exercício, São Paulo. Jan/Fev 2018. v.12. n.72. p.56-62. [in Portuguese]
19. Arfaoui A., Bertucci W., Letellier T., Polidori G. Thermoregulation during incremental exercise in masters cycling // J Sci Cycling, 2014. Vol. 3(1), 33-41.
20. Arfaoui A., Polidori G., Taiar R., Popa C. Infrared Thermography in Sports Activity. In R.V.Prakash (Ed.), Infrared Thermography (2012) (pp. 141-161). InTech. doi:10.5772/30268
21. Arnaiz-Lastras J. Monitoring the acute effects of recovery, training and competition on football player´s skin temperature with IRT. Doctoral Thesis. Departamento de Deportes de la Facultad de Ciencias de la Actividad Física y del Deporte (INEF). Universidad Politécnica de Madrid. Oct. 2017. 123 pp. [in Spanish]
22. Arnaiz-Lastras J., Fernández-Cuevas I., López-Díaz C. et al. Aplicación práctica de la termografía infrarroja en el fútbol professional // Revista de Preparación Física en el Fútbol. Sep 2014. N 13. P. 6-15. [in Spanish]
23. Arnaiz-Lastras J., Fernández-Cuevas I., Sillero-Quintana M. et al. Pilot study to determinate thermal asymmetries in judokas // 16th annual European Congress of Sport Sciences. Liverpool, UK, 6-9 July 2011.
24. Augusto F., Dias M., Marins J. et al. Comportamento Comportamento da temperatura da pele no exercício por meio da tomografia infravermelha: uma revisão integrative // Revista Brasileira de Ciência e Movimento. January 2021;29(3):1-27.
25. Aylwin P.E., Racinais S., Adami P-E. et al. Evaluating the Application of Infra-Red Thermography to the Measurement of Skin Temperature During Road-Race Competition // Thermology international 31/3(2021): 123-125.
26. Aylwin P.E., Racinais S., Bermon S. et al The use of infrared thermography for the dynamic measurement of skin temperature of moving athletes during competition; methodological issues // Physiol Meas. July 2021; 42, 084004. DOI: 10.1088/1361-6579/ac1872
27. Bach A.J., Stewart I.B., Disher A.E., Costello J.T., A comparison between conductive and infrared devices for measuring mean skin temperature at rest, during exercise in the heat, and recovery // PLoS One 2015a. 10, e0117907. doi:10.1371/journal.pone.0117907
28. Bach A.J.E., Stewart I.B., Minett G.M., Costello J.T. Does the technique employed for skin temperature assessment alter outcomes? A Systematic Review // Physiol Meas 2015b. 36 (9): 27-51.
29. Badža V., Jovančević V., Fratrić F. et al. Possibilities of thermovision application in sport and sport rehabilitation // Vojnosanitetski Pregled. Military-Medical and Pharmaceutical Review, 2012. 69 (10): 904-907. doi:10.2298/VSP1210904B PMID:23155613
30. Bagarone A. Correlation between clinical and telethermographic evaluation in overuse injuries treatment // Journal of Sports Medicine and Physical Fitness, 1987. 27(1), 64-69.
31. Balci G.A., Basaran T., Colakoglu M. Analysing visual pattern of skin temperature during submaximal and maximal exercises // Infrared Physics & Technology, 2016. 74: 57-62. doi:10.1016/j.infrared.2015.12.002
32. Bandeira F., de Moura M.A.M., de Souza M.A. et al. Pode a termografia auxiliar no diagnóstico de lesões musculares em atletas de futebol? (Can thermography aid in the diagnosis of muscle injuries in soccer athletes?) // Revista Brasileira de Medicina do Esporte August 2012. V. 18, N 4. P. 246-251. doi:10.1590/S1517-86922012000400006 [in Portuguese]
33. Bandeira F., Neves E.B., de Moura M.A.M., Nohama P. The thermography in support for diagnosis of muscle injury in sport // Revista Brasileira de Medicina do Esporte 2014; 20 (1): 59-64. doi:10.1590/S1517-86922014000100012 [A termografia no apoio ao diagnóstico de lesão muscular no esporte] [in Portuguese]
34. Bartuzi P., Roman-Liu D., Wisniewski T. The influence of fatigue on muscle temperature // Int. J. Occup. Saf. Ergon., vol. 18(2), pp. 233-243, 2012.
35. Becher C., Springer J., Feil S. et al. Intra-articular temperatures of the knee in sports - An in-vivo study of jog-d alpine skiing // BMC Musculoskeletal Disorders 2008, 9:46.
36. BenEliyahu D.J. Infrared thermography in the diagnosis and management of sports injuries: A clinical study and literature review // Chiropractic Sports Medicine., 1990. 4 (2): 46-53.
37. BenEliyahu D.J. Infrared Thermography and the Sports Injury Practice // Dynamic Chiropractic. March 27, 1992; 10 (07): 27-28 (7-17?).
38. Benito-de-Pedro M., Becerro-de-Bengoa-Vallejo R., Losa-Iglesias M.E. et al., Effectiveness between dry needling and ischemic compression in the triceps surae latent myofascial trigger points of triathletes on pressure pain threshold and thermography: a single blinded randomized clinical trial // Journal of Clinical Medicine, vol. 8, no. 10, p. 1632, 2019.
39. Bertmaring I., Babski-Reeves K., Nussbaum M.A. Infrared imaging of the anterior deltoid during overhead static exertions // Ergonomics 2008, 51:1606-1619. doi:10.1080/00140130802216933
40. Bertsch M., Maca Th. Visualization of Brass Players’ Warm up by Infrared Thermography // Brass Bulletin II 2001. 114: 9 p.
41. Bertucci W., Arfaoui A., Janson L., Polidori G. Relationship between the gross efficiency and muscular skin temperature of lower limb in cycling: a preliminary study // Computer Methods in Biomechanics and Biomedical Engineering, 2013. 16 (sup1.), 114-115. doi:10.1080/10255842.2013.815902
42. Binek M., Drzazga Z., Pokora I. Thermal mapping of ski-runners during endurance training (abstract) // Thermology international 2017; 27 (2): 76-77.
43. Binek M., Drzazga Z., Socha T., Pokora I. Do exist gender differences in skin temperature of lower limbs following exercise test in male and female cross‑country skiers? // Journal of Thermal Analysis and Calorimetry. September 2021. 11 pp. DOI: [10.1007/s10973-021-11055-z](http://dx.doi.org/10.1007/s10973-021-11055-z)
44. Bitchell L., Miles A., Griffiths H., Moor I.S. A pilot study using infrared thermography to prospectively identify muscle injuries during a football season // Conference: British Association of Sport and Exercise Medicine. Cardif School of Sport, Ysgol Chwaraeon Caerdydd, October 2017. Poster. 1 pp.
45. Bogomilsky S., Hofer O., Shalmon G., Scheinowitz M. Preliminary study of thermal density distribution and entropy analysis during cycling exercise stress test using infrared thermography // Scientific Reports. August 2022;12(1):14018. 8 pp. DOI: [10.1038/s41598-022-18233-5](http://dx.doi.org/10.1038/s41598-022-18233-5)
46. Boguszewski D., Adamczyk J.G., Slupik A. et al. Usage of thermovision in evaluation of the influence of sports massage on selected biomechanical and physiological parameters of lower limbs // Proceedings of the 17th Congress of the Polish Association of Thermology, Zakopane, March15-17, 2013. Thermology international 2013, 23/2: 73. DOI: 10.13140/2.1.2429.3449
47. Boguszewski D., Adamczyk J., Slupik A., Bialoszewski D. Using thermovision in evaluation the effect of isometric and classical massage on selected physiological and biomechanical parameters of lower limbs (extended abstract) // Thermology international 2015, 25 (3): 129.
48. Bonnett P., Hare D.B., Jones D.D. et al. Preliminary observations of the effects of sports massage on heat distribution of lower limb muscles during a graded exercise test // Thermology International, 2006. 16 (4): 143-149.
49. Brioschi M.L. Predictive Thermography for Sport Injuries – Brazilian Current Studies // Conference Paper (QIRT ASIA) January 2017. DOI: 10.21611/qirt.2017.006
50. Brioschi M. Lesões Musculares em Atletas e Termografia [Muscle Injuries in Athletes and Thermography]. In book: Protocolo de Termografia Médica da ABRATERM. November 2023. Chapter. 3 pp.
51. Buono M.J., Jechort A., Marques R. et al. Comparison of infrared versus contact thermometry for measuring skin temperature during exercise in the heat // Physiol. Meas. 2007 Aug. 28 (8): 855-859.
52. Busoni F., Romagnoli C., Bagnolesi P., Gemignani G. Imaging of enthesopathies of the ligamentum patellae in athletes. Echography and computerized telethermography // La Radiologia Medica, 1988. 76 (1-2): 44-47. PMID:3041478
53. Calvo-Lobo C., San-Antolín M., García-García D. et al. Intra- and inter-session reliability and repeatability of an infrared thermography device designed for materials to measure skin temperature of the triceps surae muscle tissue of athletes // Peer J. March 2023;11(1):e15011. DOI: [10.7717/peerj.15011](http://dx.doi.org/10.7717/peerj.15011)
54. Canfer R.J., Chaudry S., Miller S.C. Thermographic assessment of the immediate and short term-effects of blood flow restriction exercise on Achilles tendon skin temperature // Physical Therapy in Sport. January 2021. 49(13):171-177. DOI: [10.1016/j.ptsp.2021.01.009](http://dx.doi.org/10.1016/j.ptsp.2021.01.009)
55. Carmona P. Influencia de la información termográfica infrarroja en el protocolo de prevención de lesiones de un equipo de fútbol profesional español (thesis doctoral). Madrid, Spain: Universidad Politécnica de Madrid. Marzo, 2012. 322 pp. [in Spanish]
56. Carvalho A.R., Medeiros D.L., Souza F.T. et al. Variação de temperatura do músculo quadríceps femoral exposto a duas modalidades de crioterapia por meio de termografia // Rev Bras Med Esporte. 2012;18:109-111. [in Portuguese]
57. Castillo D.B., Bento V.A.A., Neves E.B. et al. Facial Thermal Behavior Pre, Post and 24 h Post-Crossfit® Training Workout: A Pilot Study. In book: XXVII Brazilian Congress on Biomedical Engineering, January 2022. Chapter. DOI: [10.1007/978-3-030-70601-2\_254](http://dx.doi.org/10.1007/978-3-030-70601-2_254)
58. Cholewka A., Kasprzyk T., Stanek A. et al. May thermal imaging be useful in cyclist endurance tests? // J Therm Anal Calorim 2016. 123: 1973-1979 (2016;12:1155-1162?). DOI 10.1007/s10973-015-4662-5
59. Cholewka A., Stanek A., Kasprzyk T. et al. Zastosowanie termowizii w badaniach wydolnosci sportowkow – badania pilotazowe // Pomiary Automatyka Kontrola (PAK) 2013. V. 59, nr. 9: 871-874. [in Polish]
60. Chudecka M., Lubkowska A. Evaluation of temperature changes in upper extremities of waterpolo players by thermovision // Inżynieria Biomedyczna. Acta Bio-Optica et Informatica Medica, 2010a. 16 (4): 334-338. [in Polish]
61. Chudecka M., Lubkowska A. Temperature changes of selected body’s surfaces of handball players in the course of training estimated by thermovision, and the study of the impact of physiological and morphological factors on the skin temperature // Journal of Thermal Biology, 2010b. 35(8): 379-385. doi:10.1016/j.jtherbio.2010.08.001189
62. Chudecka M., Lubkowska A. Evaluation of the body surface temperature changes in the basketball players’ after training [Termowizyjna ocena zmian temperatury powierzchni ciała koszykarzy po treningu] // Inżynieria Biomedyczna. Acta Bio-Optica et Informatica Medica, 2011. 17 (4): 271-275. [in Polish]
63. Chudecka M., Lubkowska A. The use of thermal imaging to evaluate body temperature changes of athletes during training and a study on the impact of physiological and morphological factors on skin temperature // Human Movement, 2012. 13 (1): 33-39. doi:10.2478/v10038-012-0002-9
64. Chudecka M., Lubkowska A., Leznicka K., Krupecki K. The Use of Thermal Imaging in the Evaluation of the Symmetry of Muscle Activity in Various Types of Exercises (Symmetrical and Asymmetrical) // Journal of Human Kinetics 2015; 49 (1): 141-147. [https://doi.org/10.1515/hukin-2015- 0116](https://doi.org/10.1515/hukin-2015-%200116)
65. Chudecka M., Szczepanowska E., Kempinska A. Changes of thermoemission of upper extremities in female handball players – the preliminary study // Medicina Sportiva, 2008. 12(3): 99-102. doi:10.2478/v10036-008-0019-5
66. Ciutacu O., Tanase A., Miclaus I. Digital infrared thermography in assessing soft tissues injuries on sport equines // Bulletin of the University of Agricultural Sciences and Veterinary Medicine, 2006. 63: 228-233.
67. Clark R.P., Mullan B.J., Pugh G.C. Proceedings: Colour thermography in running // The Journal of Physiology, 1974. 239 (2): 81P-82P. PMID:4415246
68. Clark R.P., Mullan B.J., Pugh L.G. Skin temperature during running: A study using infra-red colour thermography // The Journal of Physiology, 1977. 267 (1): 53-62. doi:10.1113/jphysiol.1977.sp011800 PMID:874861
69. Cochrane D.J., Stannard S.R., Firth E.C., Rittweger J. Comparing muscle temperature during static and dynamic squatting with and without whole-body vibration // Clin Physiol Funct Imaging. 2010;30:223-229.https://doi.org/10.1111/j.1475-097X.2010.00931
70. Cochrane D.J., Stannard S.R., Sargeant A.J., Rittweger J. The rate of muscle temperature increase during acute whole-body vibration exercise // European Journal of Applied Physiology, 2008, vol. 103, no. 4, pp. 441-448.
71. Čoh M., Širok B. Use of the thermovision method in sport training // Facta Universitatis. Physical Education and Sport., 2007. 5 (1): 85-94.
72. Colodron A.S., Moreira D.G., Sillero-Quintana M. Effect of anti-inflammatory cream on soccer players skin temperature (abstract) // Thermology international 2017; 27 (2:) 76.
73. Côrte A.C.R., Hernandez A.J. Termografia médica infravermelha aplicada à medicina do esporte // Rev Bras Med Esporte. 2016. Vol. 4. Num. 22. p. 315-319. DOI: 10.5772/28383 [in Portuguese] {DOI 10.1590/1517-869220162204160783}
74. Côrte A.C.R., Lopes G.H.R., Moraes M. et al. The importance of thermography for injury prevention and performance improvement in olympic swimmers: a series of case study // Int Phys Med Rehab J. 2018;3(2):137-141
75. Côrte A.C., Pedrinelli A., Marttos A. et al. Infrared thermography study as a complementary method of screening and prevention of muscle injuries: pilot study // BMJ Open Sport & Exercise Medicine 2019;5:e000431. 5 pp. doi:10.1136/ bmjsem-2018-000431
76. Corte J.D., de Souza R.A., Neves E.B. et al. Thermal responses of the thighs of university handball players after a resistance training session using leg extension exercises // Journal of Physical Education and Sport, October 2020;20(5):2829-2838. DOI: [10.7752/jpes.2020.s5384](https://www.researchgate.net/deref/http%3A//dx.doi.org/10.7752/jpes.2020.s5384?_sg%5B0%5D=ctZ0hvXZVqvnysc8Bf5v4v0kzuuitYfPO2QkO6H6iHznWxowG7EtcmY0Bk85PYnZfF_cHh8x7PKANdiUWjxqQ8sA5w.KeqlelyX813Oh5eZW_rRvXd99ltxkK7Mdsfuo2Mb75NpwW-RJuaCRbzFutUa9PV8QrjPqukaZZMgE_MbkJLCzA)
77. Costello J.T., Stewart I. B., Selfe J. et al. Use of thermal imaging in sports medicine research: a short report // Intern. Sportmed. Journal. 2013. 14 (2): 94-98.
78. Cramer M.N., Jay O. Explained variance in the thermoregulatory responses to exercise: the independent roles of biophysical and fitness/fatness-related factors // J. Appl. Physiol. 2015. V. 119. P. 982.
79. Cuddy J.S., Hailes W.S., Ruby B.C. A reduced core to skin temperature gradient, not a critical core temperature, affects aerobic capacity in the heat // J Therm Biol. 2014;43:7-12.
80. Danek J.W., Flosadóttir S. Effects of physical exercise in winter training conditions on the thermographic temperature distribution of the horse rider's skin // Acta of Bioengineering and Biomechanics 2018, 20 (3) 133-137.
81. da Rosa Vieira L., Zaro M.A., Cervien A. et al. Uso da Termografia como técnica auxiliar na recuperação de atletas // Paper presented at the X Congresso Brasileiro de Biomecânica. 2003. [in Portuguese]
82. da Silva A., Albuquerque M.R., Brito C.J. et al. Resposta térmica da pele ao exercício em remoergômetro de alta versus moderada intensidade em homens fisicamente ativos // RPCD 2018. 17 (S4.A): 125-137. DOI 10.5628/rpcd.17.S4A.125 [in Portuguese]
83. Da Silva W., Machado Á.S., Souza M.A. et al. Can exercise induced muscle damage be related to changes in skin temperature? // Physiological Measurement. 2018; 39 (10), 104007. 17 pp. doi:10.1088/1361-6579/aae6df
84. De Almeida Barros N., Aidar F.J., Matos D. et al. Evaluation of Muscle Damage, Body Temperature, Peak Torque, and Fatigue Index in Three Different Methods of Strength Gain // International Journal of Exercise Science, 2020; 13(3): 1352-1365.
85. de Andrade Fernandes A., dos Santos Amorim P.R.S., Brito C.J. et al. Measuring skin temperature before, during and after exercise: a comparison of thermocouples and infrared thermography // Physiol. Meas. 2014. V. 35, N 2. P. 189-203. doi:10.1088/0967-3334/35/2/189 PMID:24398429
86. de Andrade Fernandes A., dos Santos Amorim P.R.S., Brito C.J. et al. Regional skin temperature response to moderate aerobic exercise measured by infrared thermography // Asian Journal of Sports Medicine 2016; 7 (1), art no e29243 2016; 7(1): e29243. 8 p.
87. de Andrade Fernandes A., dos Santos Amorim P.R.S., Brito C.S. et al. Skin temperature behavior after a progressive exercise measured by infrared thermography // Journal of Physical Education and Sport ® (JPES), 2018. 18(3), Art 234, P. 1592-1600. DOI: 10.7752/jpes.2018.03234
88. de Andrade Fernandes A., dos Santos Amorim P.R.S., Primola-Gomes T.N. et al. Avaliação da temperatura da pele durante o exercício através da termografia infravermelha: uma revisão sistemática // Revista Andaluza de Medicina del Deporte, 2012, 5. [in Spanish]
89. de Andrade Fernandes A., Moreira D.G., Brito C.J. et al. Validity of inner canthus temperature recorded by infrared thermography as a non-invasive surrogate measure for core temperature at rest, during exercise and recovery // J Therm Biol 2016. 62: 50-55. doi:10.1016/j.ejmp.2012.09.003
90. de Andrade Fernandes A., Pimenta E.M., Moreira D.G. et al. Effect of a professional soccer match in skin temperature of the lower limbs: a case study // Journal of Exercise Rehabilitation 2017a; 13 (3): 330-334. <https://doi.org/10.12965/jer.1734934.467>
91. de Andrade Fernandes A., Pimenta E.M., Moreira D.G. et al. Application of Infrared Thermography in the Assessment of Muscle Damage in Elite Soccer Athletes // MOJ Orthopedics & Rheumatology 2017b. 8 (5): 00328. DOI: 10.15406/mojor.2017.08.00328
92. de Andrade Fernandes A., Pimenta E.M., Moreira D.G. et al. Skin temperature changes of under-20 soccer players after two consecutive matches // Sport Sciences for Health 2017. 13(3):635-643 DOI10.1007/s11332-017-0394-1
93. de Aquino Resende M., Aidar F.J., Resende R.B.V. et al. Effect of Different Types of Warm-up on Strength and Skin Temperature of Paralympic Powerlifting Athletes // Preprint. February 2021. DOI: [10.20944/preprints202102.0440.v1](https://www.researchgate.net/deref/http%3A//dx.doi.org/10.20944/preprints202102.0440.v1?_sg%5B0%5D=ktOFrre3UiDcLNns5acy7VqudC-NHxs4OBrzqDW1nm19HH44n-f2DcvPYcd5y3sNWXTJ8FaxahG0_7LiJPmN5Qc3eg.OILJKLLpZGkWtQdooO5TDncRR-386Cvk_ilLqNhgT9WxAYiNBQkOJNlqTJt8Rwm1YHX1h30oMy7ThzMMQLnaHQ)
94. de Aquino Resende M., Aidar F.J., Resende R.B.V. et al. Are Strength Indicators and Skin Temperature Affected by the Type of Warm-Up in Paralympic Powerlifting Athletes? // Healthcare 2021, 9, 923. https://doi.org/10.3390/ healthcare9080923
95. de Carvalho G., Girasol C.E., Goncalves L.G.C. et al. Correlation between skin temperature in the lower limbs and biochemical marker, performance data, and clinical recovery scales // PLoS ONE (2021) 16(3): e0248653. <https://doi.org/10.1371/journal.pone.0248653>
96. de Oliveira U.F., de Araújo L.C., de Andrade P.R. Skin temperature changes during muscular static stretching exercise // Journal of Exercise Rehabilitation 2018; 14(3): 451-459. DOI: <https://doi.org/10.12965/jer.1836056.028>
97. de Pedro M.B., de Bengoa Vallejo R.B., Iglesias M.L. et al. Effectiveness between Dry Needling and Ischemic Compression in the Triceps Surae Latent Myofascial Trigger Points of Triathletes on Pressure Pain Threshold and Thermography: A Single Blinded Randomized Clinical Trial // Journal of Clinical Medicine. October 2019;8(10). DOI: [10.3390/jcm8101632](http://dx.doi.org/10.3390/jcm8101632)
98. Debiec-Bak A., Pawik Ł., Skrzek A. Thermoregulation of football players after cryotherapy in thermography // Journal of Thermal Analysis and Calorimetry June 2016. 125 (1). 15 pp. DOI: 10.1007/s10973-016-5623-32016.
99. Debiec-Bak A., Skrzek A. Podbielska H.E. et al. Superficial temperature distribution patterns before and after physical activity in school children are indicative for personalized exercise coaching and disease prevention // EPMA Journal, The. November 2021. DOI: [10.1007/s13167-021-00262-1](http://dx.doi.org/10.1007/s13167-021-00262-1)
100. del Estal A., Brito C.-J., Galindo V.-E. et al. Thermal asymmetries in striking combat sports athletes measured by infrared thermography // Science and Sports 2017; 32 (2): e61-e67. 13 pp. <http://dx.doi.org/10.1016/j.scispo.2016.09.005>
101. Della Corte J., De Souza R.A., Neves E.B. et al. Thermal responses of the thighs of university handball players after a resistance training session using leg extension exercises // Journal of Physical Education and Sport (JPES), 2020, Vol. 20 (Supplement issue 5), Art. 384 pp. 2829-2838. DOI: 10.7752/jpes.2020.s5384
102. Della Corte J., Pereira W.L.M., Corrêa E.E.L. S. et al. Influence of power and maximal strength training on thermal reaction and vertical jump performance in Brazilian basketball players: a preliminary study // Biomedical Human Kinetics, 2020, 12, 91-100. DOI: 10.2478/bhk-2020-0012
103. Della Corte J., Pinheiro C.B., Lima B.L.P. et al. Thermographic analysis of the thigh of trained men submitted to the leg extension exercise // Journal of Physical Education and Sport. 2019;19(4):2458-2465. DOI: [10.7752/jpes.2019.04373](https://www.researchgate.net/deref/http%3A//dx.doi.org/10.7752/jpes.2019.04373?_sg%5B0%5D=huSdFL9OkN4iUJUXVOGBfw0y-GpJaBUzfUIXLL7uTJk0YAuQ63uIv3eGvF_70_yhET8jmcYU95AY94NnTaKYEURZZQ.3VMe9Q9YFTKqu3E64yBj4jBzRSDca621YlV6l0C4ZUIfPdk3z25R8-ZsKgNTGizsrNI7ibxBIm3hDPj7mI8usw)
104. Demachi K., Yoshida T., Kume M. et al. The influence of internal and skin temperatures on active cutaneous vasodilation under different levels of exercise and ambient temperatures in humans // Int. J. Biometeorol. 2013;57:589-596.
105. Devereaux M.D., Parr G.R., Lachmann S.M. et al. The diagnosis of stress fractures in athletes // Journal of the American Medical Association (JAMA). 1984. 252 (4): 531-533. doi:10.1001/jama.1984.03350040061027
106. Devereaux M., Parr G., Lachmann S. et al. Thermographic diagnosis in athletes with patellofemoral arthralgia // Journal of Bone and Joint Surgery-(Br), 1986. 68 (1): 42-44.
107. Doménech-García V., Boudreau S.A., Giner-Nicolás R., Bellosta-López P. Skin temperature normalizes faster than pressure pain thresholds, pain intensity, and pain distribution during recovery from eccentric exercise // Journal of Thermal Biology, Volume 111, 2023, 103423. <https://doi.org/10.1016/j.jtherbio.2022.103423>
108. Domingues A.S., Barbosa F., Seixas A. et al. Infrared Thermography in Swimming: Thermal Characterization of Swimming Technique. In book: Research Anthology on Business Strategies, Health Factors, and Ethical Implications in Sports and eSports, January 2021. Chapter. DOI: [10.4018/978-1-7998-7707-3.ch044](https://www.researchgate.net/deref/http%3A//dx.doi.org/10.4018/978-1-7998-7707-3.ch044?_sg%5B0%5D=eX0ZMqeQwP0l_fVy3-je72IAT9JAAqYM9dFDv2uh3La_Ie0bCgRbpncpCPqJJMf4XiwQ5Ue1LOmGrSnlDM_uRxxTQw.gw6gU5fWxc2ZNkVRFP-vRlDg2vOPPtfOx4gJM3e_y_gw3sn5yROO9MBBusB2V17yJiE2PFTzGYnQQCWYvxnTXg)
109. Domingues A.S., Pereira E.M., Gabriel J., Vardasca R. Case Study in Thermal Monitoring of Physiotherapy Treatments to Ankle Sprains in Rugby Athletes // Pan Am J Med Thermol. August 2014. 1(1): 3-10. DOI: 10.18073/2358-4696/pajmt.v1n1p3-10
110. dos Santos H., de Araújo Silva Y., dos Santos B.H., de Almeida Ferreira J. Thermographic analysis of the anaerobic exercise post-recovery by cold water immersion (extended abstract) // Thermology International 2015, 25 (3): 142.
111. Drzazga Z., Binek M., Pokora I. Does repeated dry sauna bathing change thermoregulation process in elite cross‑country skiers? // Journal of Thermal Analysis and Calorimetry. May 2020. 8 pp. <https://doi.org/10.1007/s10973-020-09783-9>
112. Drzazga Z., Binek M., Pokora I., Sadowska-Krepa E. A preliminary study on infrared thermal imaging of cross-country skiers and swimmers subjected to endurance exercise // Journal of Thermal Analysis and Calorimetry. 2018. 10 pp. https://doi.org/10.1007/s10973-018-7311-y
113. Duc S., Arfaoui A., Polidori G., Bertucci W. Efficiency and thermography in cycling during a graded exercise test // J Exerc Sports Orthop. 2015, 2:1-8.
114. Escamilla-Galindo V., Brunsó G., Barceló i Lopez R. et al. Relationship Between Thermography Assessment and Hamstring Isometric Test in Amateur Soccer Players. In: Kakileti S.T. et al. (eds) Artificial Intelligence Over Infrared Images for Medical Applications (AIIIMA 2023). AIIIMA 2023. Lecture Notes in Computer Science, vol 14298. Springer, Cham, 2023. https://doi.org/10.1007/978-3-031-44511-8\_8
115. Escamilla-Galindo V.L., Estal-Martínez A., Adamczyk J.G. et al. Skin temperature response to unilateral training measured with infrared thermography // Journal of Exercise Rehabilitation. 2017;13(5):526-534.
116. Escamilla-Galindo V., del Estal Martínez A., Fernández-Cuevas I. Pain as a mediator of thermal response to plyometric training on ankle strain rehabilitation: case study // I International Congress on Application of Infrared Thermography in Sport Science. At: Valencia, Spain, November 2020. Poster. DOI: [10.13140/RG.2.2.23816.44800](https://www.researchgate.net/deref/http%3A//dx.doi.org/10.13140/RG.2.2.23816.44800?_sg%5B0%5D=D1ez9oEtRaSyC8kd6DI12caCgJ5o_7feA6Nglk-g-610ftpH5fLgb_DE41TRvmJAln-jYUbOU2PC0zhGeRoKGd7njw.hU_1ifsX-lL3yNkw_y9Uv6ebmFLZGtaYp6x7W7b4gOdeBvlpCpNHS1sM_yvwYD3B9Dl2POz0YYm5NB2Fwvm_0g)
117. Escamilla-Galindo V.E., Fernández Cuevas I., del Estal Martínez A. Description of the thermal pattern of 950 athletes using thermography to measure skin temperature // 27th Annual Congress of the European College of Sport Sciences ECSS. At: Sevilla, Spain, September 2022.
118. Faulkner S.H., Ferguson R.A., Gerrett N. et al. Reducing muscle temperature drop after warm-up improves sprint cycling performance // Medicine and Science in Sports and Exercise, 2013. 45 (2): 359-365. doi:10.1249/MSS.0b013e31826fba7f PMID:22935735
119. Fernandes A.A., Amorim P.R. dos S., Brito C.J. et al. Regional Skin Temperature Response to Moderate Aerobic Exercise Measured by Infrared Thermography. Asian Journal of Sports Medicine, 2016;7(1). https://doi.org/10.5812/asjsm.29243
120. Fernandes A.A., Amorim P.R. dos S., Brito C.J. et al. Measuring skin temperature before, during and after exercise: a comparison of thermocouples and infrared thermography // Physiol Meas (2014) 35(2): 189.
121. Fernandes A.A., Amorim P.R. dos S., Brito C.J. et al. Skin temperature behavior after a progressive exercise measured by infrared thermography // Journal of Physical Education and Sport (JPES), , 2018; 18(3), Art 234, pp. 1592-1600. DOI: 10.7752/jpes.2018.03234
122. Fernandes A.A., Moreira D.G., Brito C.J. et al. Validity of inner canthus temperature recorded by infrared thermography as a non-invasive surrogate measure for core temperature at rest, during exercise and recovery // Journal of Thermal Biology 62 (2016) 50-55. http://dx.doi.org/10.1016/j.jtherbio.2016.09.010
123. Fernandes A.A., Pimenta E.M., Moreira D.G. et al. Application of Infrared Thermography in the Assessment of Muscle Damage in Elite Soccer Athletes // MOJ Orthop Rheumatol (2017) 8(5):00328. DOI: [10.15406/mojor.2017.08.00328](https://doi.org/10.15406/mojor.2017.08.00328)
124. Fernandes A.A., Pimenta E.M., Moreira D.G. et al. Effect of a professional soccer match in skin temperature of the lower limbs: a case study // J Exerc Rehabil (2017) 13(3):330-334.
125. Fernandes A.A., Pimenta E.M., Moreira D.G. et al. Skin temperature changes of under-20 soccer players after two consecutive matches // Sport Sci Health. September 2017. 9 pp. DOI 10.1007/s11332-017-0394-1
126. Fernández-Cuevas I. Effect of endurance, speed and strength training on skin temperature measured by Infrared Thermography. Universidad Politécnica de Madrid. 2012. Retrieved from http://oa.upm.es/14896/2/ISMAEL\_FERNANDEZ\_CUEVAS.pdf
127. Fernández-Cuevas I. Aplicación de la termografía infrarroja para la prevención, seguimiento de lesiones y apoyo al diagnóstico en el deporte y la salud [Application of Infrared Thermography for injury prevention, injury monitoring and diagnosis support in sport and health sector] // 15º Congreso Internacional de Ciencias del Deporte y la Salud Pontevedra, 8-9 de noviembre 2019. 19 pp. [in Spain]
128. Fernández-Cuevas I., del Estal Martínez A. Thermal profile description of most common soccer injuries by Infrared Thermography: case studies // I International Congress on Application of Infrared Thermography in Sport Science. At: Valencia, Spain, November 2020. P. 29-30.
129. Fernández Cuevas I., Escamilla-Galindo V.E., del Estal Martínez A. Hamstring injuries in professional soccer players get colder. Infrared Thermography as an additional technology for return to play decisions // 27th Annual Congress of the European College of Sport Sciences ECSS. At: Sevilla, Spain, September 2022.
130. Fernández-Cuevas I., Gallardo Torres C., de Hoyo Lara M. et al. Correlation between external (GPS) and internal load (Infrared Thermography) in professional soccer players // I International Congress on Application of Infrared Thermography in Sport Science. At: Valencia, Spain, November 2020. P. 29.
131. Fernández-Cuevas I., Gómez Carmona P.M., Sillero Quintana M. et al. Economic costs estimation of soccer injuries in first and second spanish division professional teams // Paper presented at the 15th Annual Congress of the European College of Sport Sciences ECSS, Antalya, Turkey. 2010.
132. Fernández-Cuevas I., Gómez Ruano M., Kück M. et al. Strength training may entail a lower overload risk to knee and ankle. An infrared thermography study // 18th Annual Congress of the European College of Sport Sciences ECSS. Barcelona, Spain, June 2013. 2 pp.
133. Fernández-Cuevas I., Grams L., Marins J., Sillero-Quintana M. Skin temperature differences between aerobic and anaerobic training (extended abstract) // Thermology International 2015, 25 (3): 127.
134. Fernández-Cuevas I., Lastras J.A., Galindo V.E., Carmona P.G. Infrared Thermography for the Detection of Injury in Sports Medicine. In: Priego Quesada J.I., editor. Application of Infrared Thermography in Sports Science. Cham, Switzerland: Springer International Publishing; 2017. p. 81-109. (Biological and Medical Physics, Biomedical Engineering).
135. Fernández-Cuevas I., Sillero Quintana M., Garcia-Concepcion M.A. et al. Monitoring Skin Thermal Response to Training with Infrared Thermography // New Studies in Athletics, 2014. 29 (1): 57-71.
136. Fernández-Cuevas I., Sillero Quintana M., Gómez Carmona P.M. et al. Applications of Infrared Thermography as innovative technological solution in sports injuries // Paper presented at the Science Based Prevention, Berlin, Germany. 2011.
137. Fernández-Cuevas I., Torres G., Sillero Quintana M., Navandar A. Thermographic assessment of skin response to strength training in young participants //Journal of Thermal Analysis and Calorimetry. January 2023. DOI: [10.1007/s10973-023-11978-9](http://dx.doi.org/10.1007/s10973-023-11978-9)
138. Ferraz C., Moreira da Silva J., Mendes L. Assessment of stress recovery by thermography (extended abstract) //Thermology International 2015, 25 (3): 132.
139. Ferreira Júnior J., Mendonca L.C., Nunes L.A. et al. Exercise-associated thermographic changes in young and elderly subjects // Annals of Biomedical Engineering, 2008. 36 (8): 1420-1427. doi:10.1007/s10439-008-9512-1
140. Ferreira Júnior J., Chaves S.F.N., Pinheiro M.H.A. et al. Is skin temperature associated with muscle recovery status following a single bout of leg press? // Physiological Measurement. February 2021;42(3): 034002. DOI: [10.1088/1361-6579/abe9fe](https://www.researchgate.net/deref/http%3A//dx.doi.org/10.1088/1361-6579/abe9fe?_sg%5B0%5D=E8w9ASnw8fobHW9WhZ7Zs897Dau0DPkegBUCY2o9EDZNfbpQe92rHabm7PeOiagPBH8GFUlrYzmg8inB7ZO2cOCCsA.wHNQzOV0wBySIcXo15N7-uN1QEwNDlgc1K3H7iI6EVVtNir4yx3mGydJXbQp5R_fMaGMoFAMDYVaTiNa9vmbsw)
141. Ferreira Oliveira S.A., Marins J.C.B., da Sylva A.D et al. Measuring of skin temperature via infrared thermography after an upper body progressive aerobic exercise // Journal of Physical Education and Sport (JPES), 2018, 18(1), Art 24, pp. 184-192.
142. Figueiredo T., Dzyekanski B., Kunz J. et al. A importância do exame termográfico na avaliação do aparato locomotor em eqüinos atletas // Revista Científica Eletrônica de Medicina Veterinária. 2012; 18: 50-65. [in Portugal]
143. Fink N., Bogomilsky S., Raz A. et al. Thermographic Changes following Short-Term High-Intensity Anaerobic Exercise // Life 2023, 13, 2175. https://doi.org/10.3390/life13112175
144. Fisher G., Hoyt G.L., Lamberth J.G. et al. Determination of the typical digital infrared thermographic profile of the knee of distance runners // Med Sci Sports Exer. 2007;39:318.
145. Flouris A.D., Webb P., Kenny G.P. Noninvasive assessment of muscle temperature during rest, exercise, and postexercise recovery in different environments // J Appl Physiol. (2015) 118:1310-1320. doi: 10.1152/japplphysiol.00932.2014
146. Formenti D., Ludwig N., Gargano M. et al. Thermal imaging of excercise-assotiated temperature changes in trained and untrained female subjects // Annals of Biomedical Engineering. 2013 Apr. 41 (4): 863-871. doi:10.1007/s10439-012-0718-x
147. Formenti D., Ludwig N., Rossi A. et al. Skin temperature evaluation by infrared thermography: Comparison of two image analysis methods during the nonsteady state induced by physical exercise // Infrared Physics & Technology 2017. 81: 32-40. DOI10.1016/j.infrared.2016.12.009
148. Formenti D., Ludwig N., Trecroci A. et al. Dynamics of thermographic skin temperature response during squat exercise at two different speeds // Journal of Thermal Biology, 2016a. 59: 58-63. doi:10.1016/j.jtherbio.2016.04.013 PMID:27264889
149. Formenti D., Ludwig N., Trecroci A. et al. Has kinesio tape a thermal effect on sprint cycling performance? A thermographic study // QIRT January 2016. 4 pp. DOI: 10.21611/qirt.2016.035
150. Formenti D., Merla A. Infrared Thermography: A Possible Role in Psychophysiology of Sport? In: Application of Infrared Thermography in Sports Science; Springer: Cham, Switzerland, 2017; pp. 211-234.
151. Formenti D., Merla A., Priego Quesada J.I. The Use of Infrared Thermography in the Study of Sport and Exercise Physiology. In: J.I.Priego Quesada (ed.), Application of Infrared Thermography in Sports Science, Biological and Medical Physics, Biomedical Engineering. Springer International Publishing AG 2017. Chapter 5. P. 111-136DOI 10.1007/978-3-319-47410-6\_52017.
152. Fournet D., Havenith G. Assessment of Sport Garments Using Infrared Thermography. In: Application of Infrared Thermography in Sports Science; Priego Quesada J.I., Ed.; Springer: New York, NY, USA, December 2017. Chapter. pp. 159-183. 2017. DOI: [10.1007/978-3-319-47410-6\_7](http://dx.doi.org/10.1007/978-3-319-47410-6_7)
153. Fournet D., Redortier B., Havenith G. A method for whole-body human skin temperature mapping // Paper presented at the XII Congress EAT 2012. Porto, Portugal.
154. Fournet D., Ross L., Voelcker T. et al. Body mapping of thermoregulatory and perceptual responses of males and females running in the cold // Journal of Thermal Biology, 2013. 38 (6): 339-344. doi:10.1016/j.jtherbio.2013.04.005
155. Fröhlich M., Ludwig O., Kraus S., Felder H. Changes in Skin Surface Temperature during Muscular Endurance indicated Strain – An Explorative Study // International Journal of Kinesiology & Sports Science July 2014. 2 (3): 23-27. doi:10.7575/aiac.ijkss.v.2n.3p.23
156. Fröhlich M. Ludwig O., Zeller Ph., Felder H. 2015. Changes in Skin Surface Temperature after a 10-minute Warm-up on a Bike Ergometer // International Journal of Kinesiology & Sports Science July 2015. 3 (3): 13-17.
157. Gabrhel J. Termografické hodnotenie teplotných zmien pohybového aparátu u športovcov a nešportovcov. Kandidátska dizerta ná práca, Pieštany, 1998, 37-59. [in Slovak]
158. Gabrhel J., Čelko J., Tauchmannová H. Thermographic evaluation of exercise effects on spine extensors // TMVJoga, January 2012. 11 pp.
159. Gabrhel J., Tauchmannová H. Wärmebilder der Kniegelenke bei jugendlichen Sportlern // Thermologie Östereich 5, 1995, 3: 92-96. [in German]
160. Gabrhel J., Tauchmannová H. Termografické Nálezy Pri Rôznych Sportoch: Ich Význam V Prevencii Po.Kodení Mäkkých Struktúr (Thermographic Findings In Different Sports: Their Value In The Prevention Of Soft Tissue Injuries) // Rheumatologia 1997, 11(2), 97-102. [in Slovak] <http://www.sav.sk/journals/rheum/full/rh297e.pdf>
161. Gabrhel J., Tauchmannová H. Termografické nálezy pri rôznych športoch: Ich význam v prevencii poškodení mäkkých štruktúr // Rehabilitácia 30, 1997, 2, 119-123. [in Slovak]
162. Galan-Carracedo J., Guerra-Balic M., Suarez-Segade A. Differences of Skin Temperature during a Treadmill Test in High vs Moderately Fit Male Triathletes: 2756 Board #39 June 1 2 // Medicine & Science in Sports & Exercise, May 2018. 50:672. DOI: [10.1249/01.mss.0000538216.92367.d5](https://www.researchgate.net/deref/http%3A//dx.doi.org/10.1249/01.mss.0000538216.92367.d5?_sg%5B0%5D=h_7ZvgYCvbOEkoOgH4SEAZONRNcgc-h-qlQYvQ7jRnKcq-wM9oiSS6VK5gIxrDbZ5GcfJh-50_2LVzlJmWOH92xjBg.0AsN5SzkEPTUPP4QnQVi-7LAhXVo_ApP7lwDQ8_7bZ7ySl7lDItWUIOOL9L5YeW8bKzEIDqO7eQR5ZuSJoDv8g)
163. Galan-Carracedo J., Suarez-Segade A., Guerra-Balic M., Oviedo G.R. The Dynamic and Correlation of Skin Temperature and Cardiorespiratory Fitness in Male Endurance Runners // International Journal of Environmental Research and Public Health. Aug 2019. 16(16):2869. DOI: [10.3390/ijerph16162869](https://www.researchgate.net/deref/http%3A//dx.doi.org/10.3390/ijerph16162869?_sg%5B0%5D=XZxkPXf094ymZ_v3ObjTIUL-xgZrwiHzMhS7OL--a8TV0TIKQbcAjCArv--IQiFNN4OrIQC2-ESs7d48BUDX3ZX1Wg.WX7yU07AGf201AY0U1feUSGCWVoorDqiGUlGfLxshzNM2CeE3QB2_gn8EXHTrizQc5ufyPAkSRKf2F1JDoHguA)
164. Galan-Carracedo J., Suarez-Segade A., Oviedo G.R., Guerra-Balic M. Relationship between the Different Energy Substrates and Skin Temperature Response in Professional Soccer Players: 1629 Board #8 May 30 1:30 PM - 3:30 PM // Medicine & Science in Sports & Exercise. June 2019. 51(Supplement):444. DOI: [10.1249/01.mss.0000561830.35639.9c](https://www.researchgate.net/deref/http%3A//dx.doi.org/10.1249/01.mss.0000561830.35639.9c?_sg%5B0%5D=odc6xVbBqXSROLUNqqTQOZy9NpPLYfe7zP5XGkoFyKjBKXAx33M3RHv56U3PH7oejZKs5tnx39OpSrPbkWsha3_VdQ.FdmZ0jKBKbxgJdfFH9wYRpEqbn-mxDv4Q515iqIUjNew7oUIGYwmxUObu7nWXn95LF-pR5pEdTVZ4pzunXvhhw)
165. Galindo V.E., del Estal Martínez A., Fernández Cuevas I. Pain as a mediator of thermal response to plyometric training on ankle strain rehabilitation: case study // I International Congress on Application of Infrared Thermography in Sport Science. At: Valencia, Spain. November 2020. Poster. 1 pp. DOI: 10.13140/RG.2.2.23816.44800
166. Ganse B., Degens H. Skin Temperature in Master Long-Distance Runners—Results from a Field Study at the 2018 World Master Athletics Championships // Front. Sports Act. Living, 2020;2:31. 8 pp. doi: 10.3389/fspor.2020.00031
167. Garagiola U., Giani E. Use of telethermography in the management of sports injuries // Sports Medicine (Auckland, N.Z.), 1990. 10 (4): 267-272. doi:10.2165/00007256-199010040-00005 PMID:2247727
168. Garagiola U., Giani E. Use of telethermography in the management of sports injuries // Sports Med. 1990; 10(4):267-272.
169. Garagiola U., Giani E. Thermography: description, uses in sports medicine // Unpublished article by the Encyclopedia of Sports Medicine and Science 1991. Retrieved on January 12, 2012 from: www.sportsci.org/encyc/ forth.html
170. Garza D., Rolston B., Johnston T. et al. Heat-Loss Patterns in National Football League Players as Measured by Infrared Thermography // Paper presented at the InfraMation. 2008.
171. Giani E., Rochi L., Tavoni A. et al. Telethermographic evaluation of NSAIDs in the treatment of sports injuries // Medicine and Science in Sports and Exercise, 1989. 21 (1): 1-6. doi:10.1249/00005768-198902000-00001 PMID:2648105
172. Gil-Calvo M., Herrero-Marco J., de González-Peña R.J. et al. Acute effect of induced asymmetrical running technique on foot skin temperature // Journal of Thermal Biology, May 2020. DOI: [10.1016/j.jtherbio.2020.102613](https://www.researchgate.net/deref/http%3A//dx.doi.org/10.1016/j.jtherbio.2020.102613?_sg%5B0%5D=Dpi8cxFsCFM_bjcS8hdVuuLJgYg42TFCvLbtAp1eL2YFJ3JKLdVXHU1JarFdbybTB3xLO_diLkSB2tqbywWkdp0gKg.P30-Gd3d1NVUsjPkcunJGX2nJ98zEOalCjl18Mb9UZt3aW6WhLMJpe-OwDoepMo-4mNFL8D3S1QlI295esGfcA)
173. Gil-Calvo M., Jimenez-Perez I., Pérez-Soriano P., Priego Quesada J.I. Foot Temperature Assessment. In: Priego Quesada J.I., Application of Infrared Thermography in Sports Science; Springer, Cham, 2017. p. 235-63.
174. Gil-Calvo M., Priego Quesada J.I., Jimenez-Perez I. et al. Effects of prefabricated and custom-made foot orthoses on skin temperature of the foot soles after running // Physiological Measurement. April 2019; 40 (5), art. no. 054004. DOI: 10.1088/1361-6579/ab1c8c
175. Gil-Calvo M., Priego Quesada J.I., Lucas-Cuevas A.G. et al. Efectos de los soportes plantares sobre la termorregulación de las plantas de los pies durante la carrera // Biomechanica. January 2015;23:7-16. DOI: 10.5821/sibb.23.1.5147 [in Spain]
176. Gomes M.J., Brioschi M.L., Hanna J.M. et al. Correlação entre os métodos de imagem infravermelho e ultra-sonografia na identificação topográfica das lesões músculo-esqueléticas // RBUS Rev Bras Ultra-sonografia. 2005;9(4):21-26. [in Portuguese]
177. Gómez Carmona P.M. Influencia de la información termográfica infrarroja en el protocolo de prevención de lesiones de un equipo de fútbol profesional español / Thesis, Universidad Politécnica de Madrid Facultad De Ciencias De La Actividad Física Y Del Deporte - INEF. Marzo, 2012. Retrieved from <http://oa.upm.es/14694/2/PEDRO_MARIA_GOMEZ_CARMONA.pdf> [in Spanish]
178. Gómez-Carmona P.M., Fernández Cuevas I., Sillero Quintana M. et al. Infrared Thermography Protocol on Reducing the Incidence of Soccer Injuries // Journal of Sport Rehabilitation, March 2020; 29 (6). DOI: [10.1123/jsr.2019-0056](https://www.researchgate.net/deref/http%3A//dx.doi.org/10.1123/jsr.2019-0056?_sg%5B0%5D=wIs13EBU6QNNAHznMfb1mYkb_oEd5U5MnFfhNGfFkcb5O1ntMjTuFhfbQv3LyVcmcGal5dJxGwOeU5Lvp_cEobcYkA.OaN1bNfXc5Bv89QH--jM5itv7F8ajLVdkdPhC8i5q2axReB3AP0dGrm1p38_oGnYpLGNIWSF-veCDor_Cr4BSA)
179. Gómez-Carmona P.M., Noya Salces J. Prevención de lesiones en fútbol // Training Fútbol, (2008). (144), 36-46. [in Spanish]
180. Gómez-Carmona P.M., Sillero Quintana M. Termografía deportiva. I Curso básico de termografía como medio para la prevención y seguimiento de lesiones deportivas. Madrid: pemaSIP. Facultad de Ciencias de la Actividad Física y del Deporte - INEF. Universidad Politécnica de Madrid. 2009. [in Spanish]
181. Gómez-Carmona P.M., Sillero Quintana M., Noya J., Pastrano R. Infrared thermography as an injury prevention method in soccer // Archivos de Medicina del Deporte, 2008. 25(128), 6.
182. Gómez-Carmona P.M., Sillero Quintana M., Fernández Cuevas I. et al. Application of an injury prevention protocol based on infrared thermogrphy in professional soccer players during pre-season. Paper presented at the 24rd Thermological Symposium of the Austrian Society of Thermography “Quantitative Thermal Imaging in Medicine”, Vienna, Austria.192. 2011.
183. Goraj M. Applications of thermal imaging in energy cost rating during training, A. Chełkowski Institute of Physics, University of Silesia Katowice Poland, Master thesis; 2015.
184. Griggs K.E. Thermoregulatory responses of athletes with a spinal cord injury during rest and exercise. Doctoral Thesis. Loughborough University, November 2016. 215 pp.
185. Griggs K.E., Havenith G., Paulson T.A.W. et al. Effects of cooling before and during simulated match play on thermoregulatory responses of athletes with tetraplegia // J Sci Med Sport. 2017 Sep;20(9):819-824. doi: 10.1016/j.jsams.2017.03.010
186. Gruszka K., Jędrzejewski G., Sobiech K., Chwałczyńska A. Body surface temperature adaptations after ice-cold water immersion in regular winter swimmers // Biol Exercise. 2018;14(1):87-101.
187. Gutierrez-Vargas R., Ugalde-Ramirez J.A., Rojas-Valverde D. et al. La termografía infrarroja como herramienta efectiva para detectar áreas músculares dañadas después de correr una marathon [Infrared thermography as an effective tool to detect damaged muscle areas after running a marathon] // Revista Facultad de Medicina 2017, 65 (4): 601-607. DOI: [10.15446/revfacmed.v65n4.60638](https://www.researchgate.net/deref/http%3A//dx.doi.org/10.15446/revfacmed.v65n4.60638?_sg%5B0%5D=t0sM5pB0eKgH82wTyErb0unmAGCQojhpQ_5Df5osVckuzdYwrmZZ_HMm6PiMsSHEATfNRqanMnaajsO23dol_xvNIA.KrMOCNUXgR0uOkGpcEsIGPSqzhI7HV0CWPUQrzjJ5vf8O6YL-lKcTYuH0GlBHDePryrhrucoFefhCIKaOPq6Kg) [in Spanish]
188. Hadžic V., Širok B., Malneršic A. et al. Can infrared thermography be used to monitor fatigue during exercise. A case study // Journal of Sport and Health Science. 2019; 8 (1): 89-92. DOI: 10.1016/j.jshs.2015.08.002
189. Hani H.A.-N., Jerrold S.P., Michael S.L., Lee S.B. The use of thermal infra-red imaging to detect delayed onset muscle soreness // J Vis Exp 2012. 59, e3551.
190. Harris C.G. Identifying Muscle Fatigue and Hyperthermia in Sports Activities Using Thermal Imaging and Facial Recognition Software // Proceedings of the 10th Augmented Human International Conference 2019. Reims, France – March 11-12, 2019. Article No. 17. Doi: [10.1145/3311823.3311845](https://doi.org/10.1145/3311823.3311845)
191. Hebisz R., Hebisz P., Borkowski J. et al. Relationship Between the Skin Surface Temperature Changes During Sprint Interval Testing Protocol and the Aerobic Capacity in Well-Trained Cyclists // Physiol Res. 2019 Dec 30;68(6):981-989. doi: 10.33549/physiolres.934114
192. Hildebrandt C., Raschner C. Medical infrared thermography as a screening tool for knee injuries in professional junior alpine-ski-racers in Austria – Findings of a pilot study // Loland S. et al. (Eds.), 14th Annual Congress of ECSS, Book of Abstracts (pp. 265-266). Oslo, 2009.
193. Hildebrandt C., Raschner Ch., Ammer K. An overview of recent application of medical infrared thermography in sports medicine in Austria // Sensors (Basel). 2010; 10 (5): 4700-4715. doi:10.3390/s100504700 PMID:22399901
194. Hildebrandt C., Zeilberger K., Ring E.F.J., Raschner C. The application of medical Infrared Thermography in sports medicine. In Zaslav K.R. (Ed.), An International Perspective on Topics in Sports Medicine and Sports Injury. 2012. P. 257-264. (Ultrasound 10:2?). doi:10.5772/28383
195. Hillen B., López D.A., Marzano-Felisatti J.M. et al. Acute physiological responses to a pyramidal exercise protocol and the associations with skin temperature variation in different body areas // Journal of Thermal Biology, 2023, 103605. https://doi.org/10.1016/j.jtherbio.2023.103605
196. Hillen B., López D.A., Schomer E. et al. Towards Exercise Radiomics: Deep Neural Network-Based Automatic Analysis of Thermal Images Captured During Exercise // IEEE Journal of Biomedical and Health Informatics. June 2022;1-11. DOI: [10.1109/JBHI.2022.3186530](http://dx.doi.org/10.1109/JBHI.2022.3186530)
197. Hillen B., Pfirrman D., Naegele M., Simon P. Infrared Thermography in Exercise Physiology: The Dawning of Exercise Radiomics // Sports Med. 2020 Feb;50(2):263-282. doi: 10.1007/s40279-019-01210-w
198. Hirata K., Nagasaka T., Noda Y. Venous return from distal regions affects heat loss from the arms and legs during exercise-induced thermal loads // Eur J Appl Physiol Occup Physiol. 1989; 58(8):865-872.
199. Holý J., Sklenská A. Novotný J. Thermographic image of stress lesions of the locomotion apparatus in sportsmen (Thermographic image of stress lesions of the locomotion apparatus in sportsmen) // XIV Congress of the Hungarian radiologists. Budapest, 1988. Abstract, p. 182. [in Czech]
200. Hunold S., Mietzsch E., Werner J. Thermographic studies on patterns of skin temperature after exercise // European Journal of Applied Physiology and Occupational Physiology, 1992. 65 (6): 550-554. doi:10.1007/BF00602364 PMID:1483445
201. Iglesias-Gutierrez D. Respuesta térmica del jugador de fútbol ante cuatro formatos diferentes de entrenamiento interválico de alta intensidad. Trabajo Final de Master. Madrid: Facultad de Ciencias de la Actividad Física y del Deporte (INEF). Universidad Politécnica de Madrid. 2014. Retrieved from <https://drive.google.com/file/d/0B7FrjSgoogHVa1FseWtXWnE3b0k/edit?usp=sharing> [in Spanish]
202. James C.A., Richardson A.J., Watt P.W., Maxwell NS. Reliability and validity of skin temperature measurement by telemetry thermistors and a thermal camera during exercise in the heat // Journal of Thermal Biology 2014; 45: 141-149. doi:10.1016/j.jtherbio.2014.08.010
203. Jastrzebska A.D., Hebisz R., Hebisz P. Temporal Skin Temperature as an Indicator of Cardiorespiratory Fitness Assessed with Selected Methods // Biology 2022, 11, 948. https://doi.org/10.3390/ biology11070948
204. Jensen M.M., Poulsen M.K., Alldieck T. et al. Estimation of energy expenditure during treadmill exercise via thermal imaging // Med Sci Sports Exerc. (2016) doi:10.1249/MSS. 0000000000001013
205. Jimenez-Perez I., Gil-Calvo M., Priego Quesada J.I. et al. Effect of prefabricated thermoformable foot orthoses on plantar surface temperature after running: A gender comparison // Journal of Thermal Biology, May 2020, 91, 102612. DOI: [10.1016/j.jtherbio.2020.102612](https://www.researchgate.net/deref/http%3A//dx.doi.org/10.1016/j.jtherbio.2020.102612?_sg%5B0%5D=0WFTiNj-UsB723laaGlXEoZYsYFTd17tmgBDWLWx2vITrk-YMLyPnXDY1i3YdWjSLyGn-fDstqFiCj0Wv3GpJ91E9A.qrmx4eK1isJKXrr_eG_NwcpplxfIyk1Ka6dOUZ7XTDev-pIOxCj28AbVFywe5vonPnkMnvEZVuSPiloXqN78eg)
206. Jimenez-Perez I., Gil-Calvo M., Salvador-Palmer R. et al. Footwear outsole temperature may be more related to plantar pressure during a prolonged run than foot temperature // Physiological Measurement. June 2021. DOI: [10.1088/1361-6579/ac0fbe](http://dx.doi.org/10.1088/1361-6579/ac0fbe)
207. Jimenez-Perez I., Gil-Calvo M., Vardasca R. et al. Pre-exercise skin temperature evolution is not related with 100 m front crawl performance // Journal of Thermal Biology. April 2021. 98. DOI: [10.1016/j.jtherbio.2021.102926](http://dx.doi.org/10.1016/j.jtherbio.2021.102926)
208. Johnson J.M. Exercise in a hot environment: the skin circulation // Scandinavian Journal of Medicine & Science in Sports, 2010. 20 Suppl 3, 29-39.
209. Johnson J. M., Kellogg D. L. JR. Thermoregulatory and thermal control in the human cutaneous circulation // Frontiers in Bioscience (Scholar Edition), 2010. 2, 825-853.
210. Kang J., McGinley J.A., McFadyen G., Babski-Reeves K. Determining learning level and effective training times using thermography // Proceedings of the Army Science Conference, Orlando, FL, USA, 27-30 November 2006; Available online: [http://insite.cavs.msstate.edu/publications/docs/2006/07/205Student%20paper%20(ASC).pdf](http://insite.cavs.msstate.edu/publications/docs/2006/07/205Student%20paper%20%28ASC%29.pdf)
211. Kasprzyk T. The thermal imaging of sportsmen body surface. The influence of training cycle at organism metabolism, A. Chełkowski Institute of Physics, University of Silesia Katowice Poland, Master thesis; 2014.
212. Kasprzyk T., Cholewka A., Kucewicz M. et al. A quantitative thermal analysis of cyclists’ thermo-active base layers // Journal of Thermal Analysis and Calorimetry 2019, 136(4), 1689-1699. <https://doi.org/10.1007/s10973-018-7775-9>
213. Kasprzyk T., Stanek A., Sieroń K., Cholewka A. Application of thermal imaging in athlete’s thermoregulation mechanisms assessment after dynamic training // Thermology international 2019, 29(2) 82-83.
214. Kasprzyk T., Wójcik M., Sieroń-Stołtny K. et al. The applications of thermal imaging in energy cost rating during Aerobic Circuit Training // QIRT-2016, January 2016, 10.21611/qirt.2016.49. DOI: 10.21611/qirt.2016.049
215. Kasprzyk T., Wójcik M., Sieroń-Stołtny K. et al. Quantitative thermal evaluation of the influence of thermoactive baselayer tops on heat transfer between body and environment in sportsmen – pilot study (abstract) // Thermology international 2017; 27 (2): 75.
216. Kasprzyk-Kucewicz T., Stanek A., Kazior M. et al. Zastosowanie obrazowania termicznego w ocenie wydolności organizmu sportowców przy użyciu ergometru wioślarskiego [The applications of thermal imaging in sportsman' efficiency rating using a rowing ergometer] // Inżynier i Fizyk Medyczny 1/2020 vol. 9, P.66-68. [in Polish]
217. Kasprzyk-Kucewicz T., Stanek A., Sieroń-Stołtny K., Cholewka A. Thermal Imaging in Evaluation of the Physical Fitness Level. In book: Research Anthology on Business Strategies, Health Factors, and Ethical Implications in Sports and eSports, January 2021. Chapter. DOI: [10.4018/978-1-7998-7707-3.ch043](https://www.researchgate.net/deref/http%3A//dx.doi.org/10.4018/978-1-7998-7707-3.ch043?_sg%5B0%5D=iP3TqTr9FDpYqU2UtpdF7uJ17ufDl8pCYB49YgtGn5UJb0o7xHh-fqMMBP-uh2Js460Z3s7Y6oj8BNQXt5XVr3LwBw.H9Tif7p4GH0NQ5tnUEeHCsB23k4ioCIfWsPTXT5rjJiRc6P0kPVQpmFxVvEewkOfOQQKkFtBEoITWR2nM5Clag)
218. Kasprzyk-Kucewicz T., Szurko A., Stanek A. et al. Usefulness in Developing an Optimal Training Program and Distinguishing between Performance Levels of the Athlete’s Body by Using of Thermal Imaging // Int J Environ Res. Public Health 2020, 17, 5698. doi:10.3390/ijerph17165698
219. Kaźmierska B. Thermal imaging evaluation of temperature changes in the area of knee joints in volunteers subjected to selected energetic physical treatments. PUM Szczecin, doctoral thesis, 2019 [in Polish].
220. Keramidas M.E., Geladas N.D., Mekjavic I.B., Kounalakis S.N. Forearm-finger skin temperature gradient as an index of cutaneous perfusion during steady-state exercise // Clin Physiol Funct Imaging 2013, 33:400-404. doi:10.1111/cpf.12043
221. Keyl W., Lenhart P. Die Thermographie bei Sportverletzungen und Sportschäden des Bewegungsapparates // Fortschritte der Medizin, 1975. 23 (93): 124-126. PMID:1173237 [in German.]
222. Knyszynska A., Radecka A., Lubkowska A. Thermal imaging of exercise-associated skin temperature changes in swimmers subjected to 2-min intensive exercise on a VASA swim bench ergometer // Int. J. Environ. Res. Public Health 2021, 18, 6493. <https://doi.org/10.3390/ijerph18126493>
223. Kochanowicz A., Niespodzinski B., Mieszkowski J. et al. Changes in the Muscle Activity of Gymnasts During a Handstand on Various Apparatus // Journal of Strength and Conditioning Research. 2019. 33(6):1609-1618.
224. Kondo N., [Nakadome M](http://www.ncbi.nlm.nih.gov/pubmed?term=Nakadome%20M%5BAuthor%5D&cauthor=true&cauthor_uid=9140211)., [Zhang K](http://www.ncbi.nlm.nih.gov/pubmed?term=Zhang%20K%5BAuthor%5D&cauthor=true&cauthor_uid=9140211). et al. The effect of change in skin temperature due to evaporative cooling on sweating response during exercise // [Int J Biometeorol.](http://www.ncbi.nlm.nih.gov/pubmed/9140211) 1997 Apr; 40 (2): 99-102.
225. Korman P., Kusy K., Kantanista A. Temperature and creatine kinase changes during a 10-day taper period in sprinters // Physiological Measurement, November 2021;42(12). DOI: [10.1088/1361-6579/ac3d76](http://dx.doi.org/10.1088/1361-6579/ac3d76)
226. Korman P., Straburzyńska-Lupa A., Kusy K. et al. Changes in body surface temperature during speed endurance work-out in highly-trained male sprinters // Infrared Physics & Technology, 2016. 78: 209-213. doi:10.1016/j.infrared.2016.08.003
227. Korman P., Zielinsky J., Kusy K., Straburzyńska-Lupa A. Possible uses of infrared thermography in sport // TRENDS in Sport Sciences 2016; 2 (23): 57-62.
228. Kuniszyk-Józkowiak W., Jaszczuk J., Czaplicki A., Szyszka P. Variability of shoulder girdle temperature in the initial phase of the snatch in weightlifting // Acta Bioeng. Biomech. 2019, 21, 143-148.
229. Kwon Y.S., Robergs R.A., Kravitz L.R. et al. Palm Cooling Delays Fatigue during High-Intensity Bench Press Exercise // Medicine and Science in Sports and Exercise. 2010. 42(8):1557-1565. doi: 10.1249/MSS.0b013e3181d34a53
230. Lamberti G., Leccese F., Salvadori G., Fantozzi F. Effect of Exercise on Athletes Performing in Fencing Uniforms: Methodology and Preliminary Results of the Use of Infrared Thermography to Detect the Thermal Behaviour of Fencers // Appl. Sci. 2020, 10, 3296; 16 pp. doi:10.3390/app10093296
231. Lelik F., Kézy G. Contact thermography in sports medicine // Acta Thermographica, 1979, 4, 24-29.
232. Lelik F., Solymossy O., Kézy G. Skin-thermography with fluid crystals in orthopedics and sport-medicine (author’s transl) // Z Für Orthop Ihre Grenzgeb. 1977; 115:105-108. PMID: 842082 [in German]
233. Levels K., Koning J., Foster C., Daanen H. M. The effect of skin temperature on performance during a 7.5-km cycling time trial // European Journal of Applied Physiology, 2012. 112, 3387-3395.
234. Lino-Samaniego A., de la Rubia Riaza A., Sillero Quintana M. Acute effect of auxotonic and isometric contraction evaluated by infrared thermography in handball players // Journal of Thermal Biology. August 2022;109:103318. DOI: [10.1016/j.jtherbio.2022.103318](http://dx.doi.org/10.1016/j.jtherbio.2022.103318)
235. Lopez M.B., Del-Blanco C.R., Garcia N. Detecting Exercise-Induced Fatigue Using Thermal Imaging and Deep Learning // Proceedings of the 2017 Seventh International Conference on Image Processing Theory, Tools and Applications (IPTA), Montreal, QC, Canada, 28 November – 1 December 2017; Volume 2017, pp. 1-6.
236. Łosien T., Bandoła D., Rojczyk M. et al. Muscle work evaluation in Vojta method reflex crawl stimulation using skin surface temperature measurements – initial study report // Conference ITC, Gliwice, Poland, Jan 2017. Poster. 1 p. December 2017 DOI: 10.13140/RG.2.2.34233.26724
237. Ludwig N., Formenti D., Trecroci A. et al. Comparison of Image Analysis Methods in Skin Temperature Measurements during Physical Exercise // QIRT-2014. 5 pp. January 2014 DOI: 10.21611/qirt.2014.062
238. Ludwig N., Gargano M., Formenti D. et al. Breathing training characterization by thermal imaging – a case study // Acta of Bioengineering and Biomechanics, 2012; Vol. 14, No. 3, P. 41-47. DOI: 10.5277/abb120306
239. Ludwig N., Trecroci A., Gargano M. et al. Thermography for skin temperature evaluation during dynamic exercise: a case study on an incremental maximal test in elite male cyclists // Applied Optics 2016. 55:126-130. DOI10.1364/AO.55.00D126
240. Luong M.P. Assessment of Equipment Using Infrared Thermography in Sports. In: Application of Infrared Thermography in Sports Science; Priego Quesada, J.I., Ed.; Springer: New York, NY, USA, 2017; pp. 185–209.
241. Lynch P.R., Mottram R.F., Owen O., Smale B.F. Results of studies using two radiological methods in investigating the circulation of exercising human arms // J Physiol. 1971 Mar; 213(2):41P-42P.
242. Machado A., Priego Quesada J.I., Jimenez-Perez I. et al. Influence of infrared camera model and evaluator reproducibility in the assessment of skin temperature responses to physical exercise // Journal of Thermal Biology, March 2021, 98:102913. DOI: [10.1016/j.jtherbio.2021.102913](https://www.researchgate.net/deref/http%3A//dx.doi.org/10.1016/j.jtherbio.2021.102913?_sg%5B0%5D=pM04dL3UQuz0L3ErxpyJ9Kt2y9WK0gJ1Xa4swYIcCb9ovhdhULmLN9fGoBe7tRkF7UE1A0r5hJ0IUYRbbG7PjZPjXQ.iObiucqcrv_4it-lRkLj5q6n8xQakkYYYyaIl8OOXvMELPDx0rhZRDazpnOGSG-IPNHLitoLiddHJ_MInKycXw)
243. Machado A.S., da Silva W., Priego-Quesada J.I., Carpes F.P. Can infrared thermography serve as an alternative to assess cumulative fatigue in women? // Journal of Thermal Biology, 2023, 103612. <https://doi.org/10.1016/j.jtherbio.2023.103612>
244. Machado A., da Silva W., Souza M.A. et al. Can exercise induced muscle damage be related to changes in skin temperature? // Physiological Measurement; October 2018. 39(10). DOI: 10.1088/1361-6579/aae6df
245. Magalhães M.F., Dibai-Filho A.V., Guirro E.C.O. Evolution of Skin Temperature after the Application of Compressive Forces on Tendon, Muscle and Myofascial Trigger Point // PLoS ONE 2015. 10 (6): e0129034. doi:10.1371/journal.pone.0129034
246. Maior A.S., Leporace G., Tannure M., Marocolo M. Profile of infrared thermography in elite soccer players // Mot. Rev. Educ. Fis. 2017, 23, 2.
247. Majano C., García-Unanue J., Fernández Cuevas I. et al. Association between physical demands, skin temperature and wellbeing status in elite football players // Scientific Reports. August 2023;13(1):13780. DOI: [10.1038/s41598-023-40396-y](http://dx.doi.org/10.1038/s41598-023-40396-y)
248. Majano C., García-Unanue J., Hernandez-Martin A. et al. Relationship between Repeated Sprint Ability, Countermovement Jump and Thermography in Elite Football Players // Sensors 2023, 23, 631. 10 pp. https://doi.org/10.3390/s23020631
249. Marinho J.P.R., Cerqueira M.C., Reis H.H.T. et al. Caracterização térmica em atletas profissionais de voleibol [Thermal characterization in professional volleyball athletes] // December 2022. 8 pp. DOI: [10.6063/motricidade.27700](http://dx.doi.org/10.6063/motricidade.27700)
250. Marins J.C.B., Fernandes A.A., Moreira D.G. et al. Thermographic profile of soccer players' lower limbs // Revista Andaluza de Medicina del Deporte 2014; 7 (1): 1-6. doi:10.1016/S1888-7546(14)70053-X
251. Marins J.C.B., Fernandez-Cuevas I., Arnaiz-Lastras J. et al. Aplicaciones de la termografía infrarroja en el deporte. Una revision [Applications of Infrared Thermography in Sports. A Review] // Revista Internacional de Medicina y Ciencias de la Actividad Física y el deporte. 2015. Vol. 15. Num. 60. p. 805-824. [in Spanish]
252. Maryšková H. Thermography in sport medicine. Brno, Masaryk university, Fakulty of sport studies, 2007. Bacalary work, s. 39.
253. Marzano-Felisatti J.M., Martinez-Amaya A., Priego-Quesada J.I. Preliminary Analysis of Skin Temperature Asymmetries in Elite Young Tennis Players // Appl. Sci. 2023, 13, 628. https://doi.org/10.3390/ app13010628
254. Matteoli S., Fulceri S., Pasquini G., Corvi A. Thermography as a tool for evaluation and prevention of injuries in athlete // Gait & Posture, 2018. 66, S26. doi:10.1016/j.gaitpost.2018.07.140
255. Matthew S.G., Christopher M.B., Douglas J.C. et al. Validity and reliability of devices that assess body temperature during indoor exercise in the heat // J Athl Train 2009. 44:124-135.
256. McFarlin B.K., Venable A.S., Williams R.R., Jackson A.W. Comparison of techniques for the measurement of skin temperature during exercise in a hot, humid environment // Biol. Sport. 2015 (2014?); 32:11-14.
257. Mendonça Teixeira R., Dellagrana R.A., Priego Quesada J.I. et al. Muscular Strength Imbalances are not Associated with Skin Temperature Asymmetries in Soccer Players // Life 2020, 10, 102; 10 pp. doi:10.3390/life10070102
258. Menezes P., Rhea M., Herdy C., Simão R. Effects of strength training program and infrared thermography in soccer athletes injuries // Sports. 2018;6:148. doi: 10.3390/sports6040148
259. Merla A., Di Donato L., Romani G.L. Infrared functional imaging: analysis of skin temperature during exercise // 24th Annual Conference and the Annual Fall Meeting of the Biomedical Engineering Society EMBS/BMES Conference. 2002. doi:10.1109/IEMBS.2002.1106316194
260. Merla A., Iodice P., Tangherlini A. et al. Monitoring skin temperature in trained and untrained subjects throughout thermal video // Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society. IEEE Engineering in Medicine and Biology Society. Conference, 2005. 2 (1): 1684-1686. doi:10.1109/IEMBS.2005.1616767 PMID:17282536
261. Merla A., Mattei P.A., Di Donato L., Romani G.L. Thermal imaging of cutaneous temperature modifications in runners during graded exercise // Annals of Biomedical Engineering, 2009. 38 (1): 158-163. doi:10.1007/s10439-009-9809-8
262. Miyamoto T., Hara K., Nishimura H., Yano K. Thermographic evaluation in sports injury // Journal of the Japan Society of Infrared Science and Technology, 2004. 14 (1): 39-43.
263. Moreira D.G., Brito C., Almeida Ferreira J.J.J. et al. Lactate Concentration is Related to Skin Temperature Variation after a Specific Incremental Judo Test // The Journal of Strength and Conditioning Research; March 2019. DOI: 10.1519/JSC.0000000000003095
264. Moreira D.G., Costello J.T., Brito C.J. et al. Thermographic imaging in sports and exercise medicine: a Delphi study and consensus statement on the measurement of human skin temperature // Journal of Thermal Biology. July 2017. 69: 155-162. [CrossRef] [PubMed] <http://dx.doi.org/10.1016/j.jtherbio.2017.07.006>
265. Moreira D.G., Costello J., Brito C.J., Sillero-Quintana M. A checklist for measuring skin temperature with infrared thermography in sports and exercise medicine // Thermology International. 2017;27(4):136-138 (141-143?).
266. Moreira D.G., Sillero-Quintana M. The Delphi protocol applied to the consensus document "Thermographic imaging in sports and exercise medicine (TISEM)" (abstract) // Thermology international 2017; 27 (2): 75.
267. Moreira-Marconi E., Moura-Fernandes M.C., Lopes-Souza P. et al. Evaluation of the temperature of posterior lower limbs skin during the whole body vibration measured by infrared thermography: Cross-sectional study analysis using linear mixed effect model // PLoS ONE 2019. 14(3): e0212512. [https://doi.org/10.1371/journal. pone.0212512](https://doi.org/10.1371/journal.%20pone.0212512)
268. Morrison S.A., Gorjanc J., Eiken O., Mekjavic I.B. Finger and toe temperature responses to cold after freezing cold injury in elite alpinists // Wilderness Environ Med. 2015;26(3):295-304. doi:10.1016/j.wem.2014.12.026
269. Muñoz-Alcamí M., Gimeno-Raga M., Priego-Quesada J.I. et al. Application of dynamic thermography after a fatiguing strength exercise // Thermology international 31/3(2021): 119-120.
270. Muñoz M., Priego Quesada J.I., Raga M.G. Effect of fatigue strength exercise on anterior thigh skin temperature rewarming after cold stress test // Journal of Thermal Biology. September 2021;101(4):103098. DOI: [10.1016/j.jtherbio.2021.103098](http://dx.doi.org/10.1016/j.jtherbio.2021.103098)
271. Nakamura M. サーモグラフィーによる肉離れの補助診断 [Auxiliary Diagnosis of Soreness by Thermography] //日本臨床スポーツ医学会誌 [Japanese journal of clinical sports medicine]. [in Japanese]
272. Nakayama T., Ohnuki Y., Kanosue K. Fall in skin temperature during exercise observed by thermography // Japanese Journal of Physiology, 1981. 31 (5): 757-762. doi:10.2170/jjphysiol.31.757 PMID:7328924
273. Naranjo Eraso C.P., Vásquez Suárez P.A. Diagnóstico termográfico preventivo para lesiones músculo esqueléticas más comunes en futbolistas. Universidad Politécnica Salesiana, Ecuador, 2019. [in Spain]
274. Neves E.B. Pode a termografia auxiliar no diagnóstico de lesões musculares em atletas de futebol? // (?) vol. 18, pp. 246-251, 2012. [in Portuguese]
275. Neves E.B. Thermal Imaging in Sports: Athlete's Thermal Passport // Motricidade 2019, vol. 15, n. 2-3, pp. 4-5. DOI: <https://doi.org/10.6063/motricidade.18398>
276. Neves E.B., Bandeira F., Ulbricht L. et al. 2015. Influence of Muscle Cross-sectional Area in Skin Temperature // BIOIMAGING 2015 – International Conference on Bioimaging January 2015. P. 64-68. DOI: 10.5220/0005181500640068
277. Neves E.B., da Cunha R.M., Rosa C. et al. Correlation between skin temperature and heart rate during exercise and recovery, and the influence of body position in these variables in untrained women // Infrared Physics & Technology, 2016. 75: 70-76. doi:10.1016/j.infrared.2015.12.018
278. Neves E.B., Martinez E.C., De Meneck F., Machado Reis V. Superficial thermal response to CrossFit® workout // Motriz. Revista de Educação Física. January 2020;26(4). DOI: [10.1590/s1980-65742020000400157](https://www.researchgate.net/deref/http%3A//dx.doi.org/10.1590/s1980-65742020000400157?_sg%5B0%5D=cb5atgythvlcYUNl9j-331c8XCyODEcuj3Ve2EjWIRXcv3aFjOd1ZetusRqpegs4tAw4aDgcDvJcoO13OEuvqDuRQg.Cfit01N82Gl-lQbyIsRcGWxNNexm_G7MKnzPr8CEu0hLWA0S44qNsGY_51AIkF-SzZ0J0nghyQE9pgAcQMw4Dw)
279. Neves E.B., Martins Cunha R., Rosa C. et al. Correlation between skin temperature and heart rate during exercise and recovery, and the influence of body position in these variables in untrained women // Infrared Physics & Technology, 2016. 75: 70-76. doi:10.1016/j.infrared.2015.12.018
280. Neves E.B., Matos F., da Cunha R.M., Reis V.M. Thermography to monitoring of Sports Training: an Overview // Pan American Journal of Medical Thermology 2015; 2 (1): 18-22. http://dx.doi.org/10.18073/2358-4696/pajmt.v2n1p18-22
281. Neves E.B., Moreira T.R., Lemos R. et al. Using skin temperature and muscle thickness to assess muscle response to strength training //Revista Brasileira de Medicina do Esporte 2015; 21 (5): 350-354. DOI: 10.1590/1517-869220152105151293
282. Neves E.B., Moreira T.R., Lemos R.J. et al. The influence of subcutaneous fat in the skin temperature variation rate during exercise // Research on Biomedical Engineering, November 27, 2015, 31 (4), 307-312. https://doi.org/10.1590/2446-4740.0805
283. Neves E.B., Reis V.M. Fundamentos da termografia para o acompanhamento do treinamento desportivo // Revista Uniandrade. 2014. Vol. 15. Num. 2. p. 79-86. [https://doi.org/10.18024/1519-5694/revuniandrade. v15n2p79-86](https://doi.org/10.18024/1519-5694/revuniandrade.%20v15n2p79-86) [in Portuguese]
284. Neves E.B., Salamunes A.C.C., De Meneck F. et al. Correlations Between Anthropometric Measurements and Skin Temperature, at Rest and After a CrossFit® Training Workout. In book: XXVII Brazilian Congress on Biomedical Engineering, January 2022. Chapter. DOI: [10.1007/978-3-030-70601-2\_233](http://dx.doi.org/10.1007/978-3-030-70601-2_233)
285. Neves E.B., Vilaca-Alves J., Antunes N. et al. Different responses of the skin temperature to physical exercise: Systematic review // Proc. of 37th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC), pp. 1307-1310, 2015. doi: 10.1109/EMBC.2015.7318608
286. Neves E.B., Vilaça-Alves J., Krueger E. Changes in Skin Temperature During Muscular Work: a Pilot Study // Pan Am J Med Thermol. 2014. 1(1): 11-15. DOI 10.18073/2358-4696/pajmt.v1n1p11-15
287. Neves E.B., Vilaça-Alves J., Moreira T.R. et al. The thermal response of biceps brachii to strength training //Gazzetta Medica Italiana Archivio per le Scienze Mediche 2016; 175 (10): 391-399.
288. Nevill M.E., Garrett A., Maxwell N. et al. Thermal strain of intermittent and continuous exercise at 10 and 35 Cinman //Sci. Meet. Physiol. Soc. Birmingham. 1994. № 483. Р. 124.
289. Nogueira P.H., Silva A., Oliveira S.A. et al. Impact of airflow on body cooling in exercise: an exploratory study // Archivos de Medicina del Deporte. August 2021;38(5):261-268. DOI: [10.18176/archmeddeporte.00050](http://dx.doi.org/10.18176/archmeddeporte.00050)
290. Novotný J. Infrared thermography in sport medicine // Studia Sportiva, 2009, 3, 1, s. 33-42.
291. Novotný J. Využití termografie pro sportovce (Use of thermography for athletes) // Studia sportiva, Brno: Fakulta sportovních studií MU, 2009, vol. 3, No 1, p. 33-42. [in Czech]
292. Novotný J., Holý J. Možnosti využití termovize v tělovýchovném lékařství (na příkladu u plavců). (Possibilities of utilization of thermovision in sports medicine (as examplified by swimmers).) // In Metodický dopis. Zdravotnická problematika plavání. Brno: ČÚV ČSTV, 1989. p. 30-42. [in Czech]
293. Novotný J., [Kodešová](https://is.muni.cz/person/160531?lang=en) S., Zacha D. et al. Thermographic evaluation of muscle activity after front crawl swimming in young men // Acta of Bioengineering and Biomechanics, Poland, 2017, vol. 19, No 4, p. 109 -116. doi:10.5277/ABB-00924-2017-03
294. Novotný J.A.N., Marysková V., Burian D., Nestroil P. Kožní teplota nad kvadricepsem po 10 minutové zátěži u mužů (Skin temperature over quadriceps after 10 minute loading in men) // Sport a kvalita života. Brno: Masarykova univerzita, 2006. p. 86-90. [in Czech]
295. Novotný J. jr., Novotný J. The temperature of the back muscles of people with sedentary jobs // Studia sportiva, Brno: Fakulta sportovních studií MU, 2010 (?).
296. Novotný J.A.N., Novotný J. Teplota sněhu při běhu na lyžích v obraze dynamické termografie (pilotní studie) (Snow temperature during cross-country skiing at dynamic thermography image (Pilot study)) // Studia sportiva, Brno: Fakulta sportovních studií MU, 20
297. 0, vol. 4, No 2, p. 25-32. [in Czech]
298. Novotný J.A.N., Novotný J., [Rybářová S.](https://is.muni.cz/person/160531?lang=en) Termografie v zátěžové fyziologii (Thermography in stress physiology) // Spolupráce v kinantropologii III. 2014. [in Czech]
299. Novotný J.A.N., Novotný J., [Rybářová S.](https://is.muni.cz/person/160531?lang=en) Termografie ve sportovní medicíně (Thermography in sports medicine) // Spolupráce v kinantropologii III. 2014. [in Czech]
300. Novotný J.A.N., Ondra[č](https://is.muni.cz/person/2292?lang=en)ek J., Novotný J. Změna teplot sněhu při běhu na lyžích v obraze sekvenční termografie (Snow temperature change during cross-country skiing at moving thermography images). Studia sportiva, Brno: Fakulta sportovních studií MU, 2010, vol. 4, No 2, p. 109-118. [in Czech]
301. Novotný J.A.N., [Rybářová S.](https://is.muni.cz/person/160531?lang=en), Zacha D. et al. The influence of breast-stroke swimming on the muscle activity of young men in thermographic imaging // Acta of Bioengineering and Biomechanics. 2015. Vol. 2. Num. 17. p. 121-129. doi:10.5277/ABB-00105-2014-03
302. Novotný J.A.N., [Rybářová S.](https://is.muni.cz/person/160531?lang=en), Bernaciková M. et al. Termografické srovnání svalové aktivity mladých mužů při plavání způsobem prsa a kraul [Thermographic comparison of muscular activity in young men swimminig breaststroke and crawl] // Spolupráce v kinantropologii III, 2014. CZ.1.07/2.4.00/17.0035, internal MU code [in Czech]
303. Novotný J.A.N., Zatloukal B., Uličný B. Vyšetření teplotních změn při poškození pohybového aparátu sportovců (Examination of temperature changes by injury kinetic apparatus of sportsmen.) // Telovýchovnolekárska problematika športovania. Bratislava: SÚV ČSZTV, 1989. p. 166-170. [in Czech]
304. Noya Salces J., Sillero Quintana M., Gómez Carmon, P M., Pastrano León R. Infrared Thermography as a Method for Monitoring and Preventing Injuries in Soccer // Paper presented at the 14th Annual Congress of the European College of Sport Sciences ECSS, Oslo, Norway. june 24th-27th 2009.
305. Oliveira J., Vardasca R., Pimenta M. et al. Use of infrared thermography for the diagnosis and grading of sprained ankle injuries // Infrared Physics & Technology, 2016. 76: 530-541. doi:10.1016/j.infrared.2016.04.014
306. Oliveira S.A.F., Marins J.C.B., da Silva A.G. et al. Measuring of skin temperature via infrared thermography after an upper body progressive aerobic exercise // Journal of Physical Education and Sport (JPES), 2018, 18(1), Art 24, pp. 184-192. DOI 10.7752/jpes.2018.01024
307. Ondra[č](https://is.muni.cz/person/2292?lang=en)ek J., Novotný J.A.N., Novotný J. Zjišťování průběhu změn teploty sněhu v běžecké stopě (Measuring of a snow temperature changes in cross-country ski track) // Studia sportiva, Brno: Fakulta sportovních studií MU, 2010, vol. 4, No 2, p. 43-48. [in Czech]
308. Paolillo F.R., Lins E.C., Corazza A.V. et al. Thermography applied during exercises with or without infrared light-emitting diode irradiation: individual and comparative analysis // Photomed Laser Surg. 2013, 31:349-355. doi:10.1089/pho.2013.3505
309. Pascoe D.D., Skelton M., Smith E.W. et al. Infrared thermography pattern of the back of human subjects during exercise: 921 // Medicine and Science in Sports and Exercise, 1992. 24 (5 Supplement): S154. doi:10.1249/00005768-199205001-00922
310. Pérez-Guarner A., Priego Quesada J.I., Oficial-Casado F. et al. Association between physiological stress and skin temperature response after a half marathon // Physiological Measurement; 2019; 40 (3), art. no. 034009. 30 pp. doi:10.1088/1361-6579/ab0fdc
311. Perpetuini D., Formenti D., Cardone D. et al. Regions of interest selection and thermal imaging data analysis in sports and exercise science: a narrative review // Physiological Measurement. June 2021. DOI: [10.1088/1361-6579/ac0fbd](http://dx.doi.org/10.1088/1361-6579/ac0fbd)
312. Perpetuini D., Formenti D., Cardone D. et al. Can Data-Driven Supervised Machine Learning Approaches Applied to Infrared Thermal Imaging Data Estimate Muscular Activity and Fatigue? // Sensors 2023, 23, 832. <https://doi.org/10.3390/s23020832>
313. Perpetuini D., Formenti D., Iodice P. et al. Central and Peripheral Thermal Signatures of Brain-Derived Fatigue during Unilateral Resistance Exercise: A Preliminary Study // Biology. February 2022;11(2):322. DOI: [10.3390/biology11020322](http://dx.doi.org/10.3390/biology11020322)
314. Pg A., Priego Quesada J.I., Oficial-Casado F. Association between physiological stress and skin temperature response after a half marathon // Physiological Measurement; March 2019. 40(3). DOI: 10.1088/1361-6579/ab0fdc
315. Pinheiro A.M., Tuono A.T., Vieira N.A. et al. Acute effect of speed test on the skin temperature of elite soccer players // Revista Brasileira de Medicina do Esporte. February 2021;[e](https://www.researchgate.net/journal/Revista-Brasileira-de-Medicina-do-Esporte-1517-8692) 27(1):55-59. DOI: [10.1590/1517-8692202127012020\_0060](http://dx.doi.org/10.1590/1517-8692202127012020_0060)
316. Pokora I., Drzazga Z., Wyderka P., Binek M. Determination of the Effects of a Series of Ten Whole-Body Cryostimulation Sessions on Physiological Responses to Exercise and Skin Temperature Behavior following Exercise in Elite Athletes // J. Clin. Med. 2023, 12, 6159. https://doi.org/10.3390/ jcm12196159
317. Priego Quesada J.I. THERMOBIKE: Applicability of infrared thermography in the assessment of the efficiency, performance, and posture of the cyclist. Doctoral Thesis. Universidad de Valencia, December 2017. 225 pp.
318. Priego Quesada J.I. (ed.). Application of Infrared Thermography in Sports Science, Biological and Medical Physics, Biomedical Engineering. Springer International Publishing AG 2017. DOI 10.1007/978-3-319-47410-6\_3
319. Priego-Quesada J.I. Special Issue: Thermal Imaging in Exercise and Sports Science // Conference: Journal: Physiological Measurement, December 2020. Presentation
320. Priego-Quesada J.I. Exercise Biomechanics and Physiology // Life 2021, 11, 159. 3 pp. https://doi.org/10.3390/life11020159
321. Priego Quesada J.I., Carpes F.P. Application of Infrared Thermography in the Assessment of Sport Equipment. In book: Materials in Sports Equipment. January 2019. DOI: 10.1016/B978-0-08-102582-6.00002-2
322. Priego Quesada J.I., Carpes F.P., Bini R.R. et al. Relationship between skin temperature and muscle activation during incremental cycle exercise // Journal of Thermal Biology, 2015. 48 (0): 28-35. doi: 10.1016/j.jtherbio.2014.12.005
323. Priego Quesada J.I., Carpes F.P., Palmer S.R. et al. Effect of saddle height on skin temperature measured in different days of cycling // Springer Plus 2016. 5:205-214. doi:10.1186/s40064-016-1843-z
324. Priego-Quesada J.I., Catalá-Vilaplana I., Bermejo-Ruiz J.L. et al. Thermorecovery project: effect of a 10km run on skin temperature and thermal parameters after a cold-stress test in the subsequent 24h // Thermology international 31/3(2021): 126-128.
325. Priego Quesada J.I., de la Fuente C.I., Kunzler M.R. et al. Relationship between Skin Temperature, Electrical Manifestations of Muscle Fatigue, and Exercise-Induced Delayed Onset Muscle Soreness for Dynamic Contractions: A Preliminary Study // International Journal of Environmental Research and Public Health, September 2020;17(18):6817. DOI: [10.3390/ijerph17186817](https://www.researchgate.net/deref/http%3A//dx.doi.org/10.3390/ijerph17186817?_sg%5B0%5D=rUEMactJQruHMcg5mla8sP4W2qvv688-dA7-WNbwmbDw8vttWUF-IiVihYN8yRWYuTeUK6cU5RdFhoHSt9XjO1EEYA.wa8FkB9eOblYYjKojPGhr7jtEad2kkxFXwtEm8MtIOg62z0q7wtGC5gMHZz8XLftDx6h0k45p5wjogy9A1jfeA)
326. Priego-Quesada J.I., Gandia-Soriano A., Pellicer-Chenoll M.T. et al. Reproducibility of Skin Temperature Response after Cold-Stress Test Using the Game Ready System: Preliminary Study // Int. J. Environ. Res. Public Health 2021, 18, 8295. 11 pp. https://doi.org/10.3390/ ijerph18168295
327. Priego Quesada J.I., Gil-Calvo M., Jimenez-Perez I. et al. Relationship between foot eversion and thermographic foot skin temperature after running // Applied Optics, 2017. 56(19), 5559. doi:10.1364/ao.56.005559
328. Priego Quesada J.I., Lucas-Cuevas A.G., Gil-Calvo M. et al. Effects of graduated compression stockings on skin temperature after running // Journal of Thermal Biology 2015; 52: 130-136. doi:10.1016/j.jtherbio.2015.06.005
329. Priego Quesada J.I., Lucas-Cuevas A.G., Palmer S.R. et al. Definition of the thermographic regions of interest in cycling by using a factor analysis // Infrared Phys Technol. 2016, 75:180-186. doi:10.1016/j.infrared.2016.01.014
330. Priego Quesada J.I., Machado A.S., Gil-Calvo M. et al. A methodology to assess the effect of sweat on infrared thermography data after running: preliminary study // Infrared Physics & Technology, May 2020. DOI: 10.1016/j.infrared.2020.103382
331. Priego Quesada J.I., Martinez Guillamon N.M., de Anda R. et al. Effect of perspiration on skin temperature measurements by Infrared thermography and contact thermometry during aerobic cycling // Infrared Physics & Technology 2015; 72: 68-76. DOI10.1016/j.infrared.2015.07.008
332. Priego Quesada J.I., Martínez N., Cibrián Ortiz de Anda R.M. et al. Regional differences in skin temperature between two intensities of cycling (extended abstract) //Thermology International 2015, 25 (3): 145-146.
333. Priego Quesada J.I., Martínez N., Salvador Palmer R. et al. Effects of the cycling workload on core and local skin temperatures // Experimental Thermal and Fluid Science, 2016. 77, 91-99. doi:10.1016/j.expthermflusci.2016.04.008
334. Priego Quesada J.I., Oficial-Casado F., Gandia-Soriano A., Carpes F.P. A preliminary investigation about the observation of regional skin temperatures following cumulative training loads in triathletes during training camp // Journal of Thermal Biology, July 2019, 84, 431-438. DOI: 10.1016/j.jtherbio.2019.07.035
335. Priego-Quesada J.I., Pérez-Guarner A., Gandia-Soriano A. et al. Effect of a Marathon on Skin Temperature Response After a Cold-Stress Test and Its Relationship with Perceptive, Performance, and Oxidative-Stress Biomarkers // Int J Sports Physiol Perform. 2020 May 29;15(10):1467-1475. doi: 10.1123/ijspp.2019-0963
336. Priego Quesada J.I., Sampaio L.T., Bini R.R. et al. Multi-factorial cycling performance of Cyclists and Non-Cyclists and their effect on skin temperature // Journal of Thermal Analysis and Calorimetry 2017. 127:1479-1289. DOI: 10.1007/s10973-016-5971-z
337. Priego Quesada J.I., Vilaplana I.C., Bermejo J.I. et al. Effect of 10 km run on lower limb skin temperature and thermal response after a cold-stress test over the following 24 h // Journal of Thermal Biology. March 2022;105:103225. DOI: [10.1016/j.jtherbio.2022.103225](http://dx.doi.org/10.1016/j.jtherbio.2022.103225)
338. Pušnik I., Čuk I. Thermal imaging of hands during simple gymnastics elements on the wooden bar with and without use of magnesium carbonate // Science of Gymnastics Journal, 2014. 6 (1): 67-72.
339. Pušnik I., Cuk I., Hadžic V. Influence of new Anatomic Ring Design on Palm Skin Temperature // Sci. Gymnast. J. 2017, 9, 61-70.
340. Ramos e Côrte A.C., Hernandez A.J. Termografía médica infravermelha aplicada à Medicina do Esporte // Revista Brasileira de Medicina do Esporte, 2016. 22 (4): 315-319. doi:10.1590/1517-869220162204160783 [in Portuguese]
341. Reis H.H.T., Brito C., Silva S. et al. Influencia de los parámetros antropométricos y la composición corporal en las imágenes termográficas // Revista Andaluza de Medicina del Deporte. October 2022;15(4):149-156. DOI: 10.33155/j.ramd.2022.10.002 [in Spain]
342. Requena-Bueno L., Gil-Calvo M., Priego Quesada J.I. et al. Analysis of foot skin temperature of a thermoformable prefabricated insole during running in women // Conference: Analysis of foot skin temperature of a thermoformable prefabricated insole during running in women, November 2019.
343. Requena-Bueno L., Jimenez-Perez I., Aparicio Aparicio I. et al. Analysis of foot skin temperature and thermal comfort perception of a thermoformable prefabricated insole during running // Conference: Analysis of foot skin temperature and thermal comfort perception of a thermoformable prefabricated insole during running, July 2019.
344. Requena-Bueno L., Jimenez-Perez I., Priego Quesada J.I. et al. Efectos de un soporte plantar prefabricado termoconformable sobre los impactos de aceleración y parámetros de percepción durante la carrera // Conference: Efectos de un soporte plantar prefabricado termoconformable sobre los impactos de aceleración y parámetros de percepción durante la carrera, November 2019. [in Spanish]
345. Requena-Bueno L., Jimenez-Perez I., Priego Quesada J.I. et al. Conference: Efectos de un soporte plantar prefabricado termoconformable sobre los impactos de aceleración y parámetros de percepción durante la carrera // Conference: Efectos de un soporte plantar prefabricado termoconformable sobre los impactos de aceleración y parámetros de percepción durante la carrera. November 2019. [in Spanish]
346. Requena-Bueno L., Priego Quesada J.I., Jimenez-Perez I. et al. Validation of ThermoHuman automatic thermographic software for assessing foot temperature before and after running // Journal of Thermal Biology. July 2020. DOI: [10.1016/j.jtherbio.2020.102639](https://www.researchgate.net/deref/http%3A//dx.doi.org/10.1016/j.jtherbio.2020.102639?_sg%5B0%5D=UIl4x8994whl_QAnh8VcSHdK-ewjPDH1m_Cv84a9Q1oQ8aPYByGyE1a_IZqAvuAPmk8O78tnmchCpVUIUMKyGylrtw.CqHfeZo5NGpJxBzv1Sb5f1uB81ovIUm_BkWg1DTYYOxT2CiPJALb4an_RSPYjLJrD1aL0188kHtZp0iujwvVcA)
347. Resende M. de A., Aidar F.J.A., Resende R.B.V. et al. Effect of Different Types of Warm-up on Strength and Skin Temperature of Paralympic Powerlifting Athletes // Preprint. February 2021. DOI: [10.20944/preprints202102.0440.v1](https://www.researchgate.net/deref/http%3A//dx.doi.org/10.20944/preprints202102.0440.v1?_sg%5B0%5D=uGJIOq4RsAQCRmg3uGDPYW4Me8hx2QnRy5iP2iA7rcpmPeDoRiq-XZe09gLcJWnbLkPlVpABCYPL0Xs7np9Z3JCoag.k9C3-9TZyJHZ3GP3G2ri6y-ymNnSHV4fpiKl3bfy6fi6TAK2GoLz_TPO26imc9RydmajK5FVcquh2NNAlL-AEg)
348. Resende M. de A., Resende R.B.V., Reis G.C. et al. The Influence of Warm-Up on Body Temperature and Strength Performance in Brazilian National-Level Paralympic Powerlifting Athletes // Medicina (Kaunas, Lithuania), 2020, 56, 538; 10 pp. doi:10.3390/medicina56100538
349. Ring E.F.J., Ammer K. Thermal Imaging in Sports Medicine // Sports & Medicine Today 1998; 1:108-109.
350. Ring E.F., Hawkes R., Elvins D.M., Jones M. Evaluation of the effects of plastic and metal-studded football boots on the plantar foot. In K. Ammer & E. F. Ring (Eds.), The thermal image in medicine and biology. Uhlen-Verlag: Wien, 1995. P. 220-224.
351. Rochcongar P., Schmitt M. Thermographic study of muscular lesions in sport (author’s transl) // Journal Belge de Medecine Physique et de Rehabilitation. Belgisch Tijdschrift voor Fysische Geneeskunde en Rehabilitatie, 1979. 2 (4): 335-342. PMID:549939
352. Rodríguez-Sanz D., Becerro-de-Bengoa-Vallejo R., Losa-Iglesias M.E. et al. 2018. Effects of Compressive Stockings and Standard Stockings in Skin Temperature and Pressure Pain Threshold in Runners with Functional Ankle Equinus Condition // J. Clin. Med. 2018, 7, 454-461. doi:10.3390/jcm7110454
353. Rodriguez-Sanz D., Losa-Iglesias M.E., Becerro-de-Bengoa-Vallejo R. et al. Thermography related to electromyography in runners with functional equinus condition after running // Physical Therapy in Sport 2019; 40: 193-196.
354. Rodríguez-Sanz D., Losa-Iglesias M.E., Lopez-Lopez D. et al. Infrared thermography applied to lower limb muscles in elite soccer players with functional ankle equines and non-equines condition // Peer J 2017. 25(5):e3388-11. DOI10.7717/peerj.3388
355. Rojas-Valverde D., Gutiérrez-Vargas R., Sánchez-Ureña B. et al. Relationship between Skin Temperature Variation and Muscle Damage Markers after a Marathon Performed in a Hot Environmental Condition // Life. 2021, 11, 725. 11 pp. https://doi.org/ 10.3390/life11080725
356. Rojas-Valverde D., Tomás-Carús P., Timón R. et al. Short-Term Skin Temperature Responses to Endurance Exercise: A Systematic Review of Methods and Future Challenges in the Use of Infrared Thermography // Life 2021, 11, 1286. https://doi.org/10.3390/ life11121286
357. Romão W., Mello D., Neves E.B. et al. Athletes' face temperature response during an endurance triathlon race // 15th Conference of the European Association of Thermology. August 2021 / Thermology international 31/3(2021): 121-122.
358. Romão W., Mello D., Neves E.B. et al. The use of infrared thermography in endurance athletes: a systematic review // Motricidade. June 2021;17(2):193-203. DOI: [10.6063/motricidade.21116](http://dx.doi.org/10.6063/motricidade.21116)
359. Rossas H., Rodrigues S., Seixas A. Skin temperature changes over the medial gastrocnemius and total work during exercise (extended abstract) //Thermology International 2015, 25 (3): 127.
360. Rudzińska A., Witkoś J., Nowotny J. The local and remote changes of skin temperature after certain physical treatment // Fizjoterapia. 2004;12(4):27-37.
361. [Rybářová S.](https://is.muni.cz/person/160531?lang=en), Novotný J. Skin temperature changes of muscle regions in training swimmers // Journal of Human Sport and Exercise, Universidad de Alicante, 2015, vol. 10, 1Proc, P. 192-197. ISSN 1988-5202. doi:10.14198/jhse.2015.10.Proc1.05
362. [Rybářová S.](https://is.muni.cz/person/160531?lang=en), Novotný J. Reaction of musculoskeltal structures to training load of swimmers in the thermographic image // Sport and Quality of Life 2013.
363. Rynkiewicz M., Korman P., Zurek P., Rynkiewicz T. Application of thermovisual body image analysis in the evaluation of paddling effects on a kayak ergometer // Medicina Dello Sport 2015; 68 (1): 31-42.
364. Sampaio L., Bezerra E., Paladino K. et al. Effect of training level and blood flow restric- tion on thermal parameters: Preliminary study // Infrared Physics & Technology 2016; 79; 25-31.
365. Sampaio L.T., Douglas K., dos Santos J.O.L. et al. Influência do treino com restrição de fluxo sanguíneo sobre parâmetros termográficos e volume de treinamento // Technical Report October 2014. V Simpósio em Neuromecânica Aplicada (V Symposium on Applied Neuromechanics). P. 124-130. [in Spanish]
366. Sampaio L.T., Jesus K., Medeiros A.I.A., Cavalcanti V. Body fat percentage and lower limbs temperature in recreational cyclists during an incremental test // R. Bras Ci e Mov. 2019; 27: 150-57. https://doi.org/10.31501/rbcm.v27i3.9922
367. Sampedro J., Piñonosa Cano S., Fernández-Cuevas I. Thermography as a new assessment tool in basketball. Pilot study carried out with a professional player in the ACB // Cuadernos de Psicología del Deporte 2012. 12: 51-56. doi:10.4321/S1578-84232012000300012 [in Spanish]
368. Sánchez-Jiménez J.L., Tejero-Pastor R., Calzadillas-Valles M.d.C., et al. Chronic and Acute Effects on Skin Temperature from a Sport Consisting of Repetitive Impacts from Hitting a Ball with the Hands // Sensors 2022, 22, 8572. 13 pp. https://doi.org/10.3390/ s22218572
369. Sánchez-Ureña B., Nakamura F.Y., Gutierrez-Vargas R. et al. Intermittent or continuous cold water immersion recovery protocols do not affect skin temperature // Journal of Physical Education and Sport. July 2021;21(3):2251-2257. DOI: [10.7752/jpes.2021.s3286](http://dx.doi.org/10.7752/jpes.2021.s3286)
370. Sanchis-Sanchis R., Priego Quesada J.I., Ribas-Garcia V. et al. Effects of asymmetrical exercise demands on the symmetry of skin temperature in archers // Physiological Measurement October 2020, 41(11). DOI: [10.1088/1361-6579/abc020](https://www.researchgate.net/deref/http%3A//dx.doi.org/10.1088/1361-6579/abc020?_sg%5B0%5D=PY3aQ19NphatSA7rZ8TlcqFYEwaJkGcGOWa8OBpjhYSO7RdN9-RwSakG2NJlOSugOQ6osEVHkO94Z1krlvUPBQreig.yJh07UrKLHQmkNPHWmKwoWQ0dKVxs1PYvt9ceFa7ED8-9HFLbKWSBw85Qng4xQyEqnvSpWaJfaP9A4BXEy7Tig)
371. Sands W.A., McNeal J.R., Stone M. Thermal imaging and gymnastics injuries: A means of screening and injury identification // Science of Gymnastics Journal 2011. 3 (2): 5-12.
372. Santa Cruz R.A.R., Araújo V.A., de Araújo Costa de Sousa P., Arruda J.R.L. Perfil termográfico de atletas de handebol após um jogo oficial // Revista Movimenta 2018; 11(1):12-19 [esp.]
373. Santos R.M.C., Souza E.S., Silva F.J. et al. Análise termográfica dos esforços no futsal. Coleção Pesquisa em Educação Física. Vol. 16. Num. 1. p. 15-22. 2017. [in Portuguese]
374. Sanz-López F., Martínez-Amat A., Hita-Contreras F. et al. Thermographic assessment of eccentric overload training within three days of a running session // J. Strength Cond Res. 2016; 30: 504-511.
375. Sawka M.N., Cheuvront S.N., Keneﬁck R.W. High skin temperature and hypohydration impair aerobic performance // Exp Physiol. 2012, 97:327-332. doi:10.1113/expphysiol.2011.061002
376. Schlader Z., Simmons S., Stannard S., Mündel T. Skin temperature as a thermal controller of exercise intensity // European Journal of Applied Physiology, 2011. 111, 1631-1639.
377. Schmitt M., Guillot Y. Thermography and muscle injuries in sports medicine. In: Ring E.F.J., Philips J. (eds.), Recent Advances in Medical Thermography, Plenum, London, 1984. pp. 439-445.
378. Seixas A. Stockings, running and thermal imaging // Thermology International February 2019; 29(1):5-6 (Review of the paper by Rodríguez-Sanz et al. "Effects of Compressive Stockings and Standard Stockings in Skin Temperature and Pressure Pain Threshold in Runners with Functional Ankle Equinus Condition" Journal of Clinical Medicine 2018; 7(11): 454).
379. Seixas A., Gonjo T., Vardasca R. et al. A preliminary study on the relationship between energy expenditure and skin temperature in swimming // 12th International Conference on Quantitative InfraRed Thermography, Bordeaux, France 2014. P. 90-97.
380. Seixas A., Mendes J., Vardasca R. et al. Immediate effects of whole-body vibration exercise on thermal symmetry of the lower legs and ankles // Revista HUPE, Rio de Janeiro, Dec 2018;17(1):26-33.
381. Serrano I. Effect of Endurance, Speed and Strength Training on Skin Temperature Measured by Infrared Thermography. Technical University of Madrid, 2012.
382. Shakhih M.F., Ridzuan N., Wahab A.A. et al. Non-obstructive monitoring of muscle fatigue for low intensity dynamic exercise with infrared thermography technique // Medical & Biological Engineering & Computing. June 2021. 59(7-8). DOI: [10.1007/s11517-021-02387-x](http://dx.doi.org/10.1007/s11517-021-02387-x)
383. Shida N., Furukawa Y., Nitta O. Skin Temperature Responses in a Hot Environment among Wheelchair Rugby and Basketball Players with Spinal Cord Injury // Int J Phys Med Rehabil 2018; 6: 478. DOI: 10.4172/2329-9096.1000478
384. Shilo R., Engel J., Farin I., Horochowski H. Thermography as a diagnostic aid in tennis elbow // Handchirurgie.1976; 8: 101-103.
385. Šibanc K., Cuk I., Pajek M., Pušnik I. Palm Temperature Differences after Static and Dynamic Load on High Bar // Sensors 2021, 21, 4497-4509. https://doi.org/10.3390/ s21134497
386. Sillero Quintana M., Adamczyk J.G., Karabas S. Thermal profile of elite masters athletes and the influence of athletic competition on their skin temperature // Thermology international 2019, 29(2) 82.
387. Šibanc K., Cuk I., Pajek M., Pušnik I. Handstand on Parallel Bars: Temperature Differences of Palms after Static and Dynamic Load // Kinesioigia Slovenica. July 2023;29(2):83-102. DOI:https://doi.org/10.52165/kinsi.29.2.83-102
388. Sillero Quintana M., Conde Pascual E., Gómez Carmona P.M. et al. Effect of yoga and swimming on body temperature of pregnant women // EAT2012 Book of Proceedings - Appendix 1 of Thermology international, July 2012;22(3):143-149.
389. Sillero Quintana M., Fernández Cuevas I., Gómez Carmona P.M., García de la Concepción M.A. Application of Thermography as Injury Prevention Method in Sports // Thermology international 2011, 21(4) 123.
390. Sillero Quintana M., Fernandez Jaen T., Fernandez-Cuevas I. et al. Infrared Thermography as a support tool for screening and early diagnosis of sport injuries (abstract) //Thermology International 2014; 24 (2): 66.
391. Sillero Quintana M., Fernandez Jaen T., Fernandez-Cuevas I. et al. Infrared Thermography as a Support Tool for Screening and Early Diagnosis in Emergencies // Journal of Medical Imaging and Health Informatics 2015. 5 (6): 1223-1228. doi:10.1166/jmihi.2015.1511
392. Sillero-Quintana M., García-Pastor T., Morganti G., de Mello D. Effect of exercise on the lower limbs skin temperature of elderly people // 2020 Quantitative InfraRed Thermography. January 2020. 3 pp. DOI: 10.21611/qirt.2020.101
393. Sillero Quintana M., Gómez Carmona P.M., Fernández Cuevas I. Infrared Thermography as a Means of Monitoring and Preventing Sports Injuries. In book: Innovative research in thermal imaging for biology and medicine. IGI Global, January 2017. Editors: Ricardo Vardasca, Joaquim Gabriel Mendes. Chapter: 8. DOI: [10.4018/978-1-5225-2072-6.ch008](http://dx.doi.org/10.4018/978-1-5225-2072-6.ch008)
394. Sillero Quintana M., Gómez Carmona P.M., Fernández Cuevas I. Infrared Thermography as a Means of Monitoring and Preventing Sports Injuries. In book: Research Anthology on Business Strategies, Health Factors, and Ethical Implications in Sports and eSports. January 2021. Chapter. DOI: [10.4018/978-1-7998-7707-3.ch046](https://www.researchgate.net/deref/http%3A//dx.doi.org/10.4018/978-1-7998-7707-3.ch046?_sg%5B0%5D=GLxPhGtI2BkK6jdK1tg7Vs_Sqdrpu-KLbWOM6GJmJ3Ro5f1jehCWuEaW8hm59wKMH-aVuhYpkgcFzZykeRJbgFkGKA.aRQzT-eD1s9Le_UKug4tFhwwMLye97t2C3o6SElUW8SpV1GN5H9fXMeKY9uGaQVwcNpFbSqgnZqvmf7XY0z_bA)
395. Sillero Quintana M., Gómez Carmona P.M., García de la Concepción M.Á. et al. Application of thermography as injury prevention method and monitoring of the injury recovery in Athletics // Paper presented at the World Congress on Science in Athletics, Barcelona, Spain. 2010.
396. Sillero Quintana M., Gómez Carmona P.M., Noya Salces J. et al. Comparation of infrared thermography with tensiomyography as injury prevention method in professional soccer players // Journal of Sports Sciences, 2009. S174.
397. Sillero-Quintana M., Jones-Rando J., Refoyo I. et al. Effects of Resistance Training on Skin Temperature and Its Relationship with Central Nervous System (CNS) Activation // Healthcare 2022, 10, 2, 207. 14 pp. https://doi.org/ 10.3390/healthcare10020207
398. Sillero Quintana M., Lopez Diaz de Durana A., Moreira D.G. et al. Skin temperature response on junior athletes after high intense judo training (extended abstract) //Thermology International 2016, 26 (Supplement): S10.
399. Sillero Quintana M., Moreira D.G., Fernandez-Cuevas I. Evolution of sports thermography and new challenges for future // XIV Congress of the European Association of Thermology, 4th -7th July 2018. At: National Physical Laboratory, Teddington, United Kingdom / Thermology international 28/2 (2018). 1 p.
400. Silva A.G., Albuquerque M.R., Brito C.J. et al. Resposta térmica da pele ao exercício em remoergômetro de alta versus moderada intensidade em homens fisicamente ativos // Rev Port Ciênc Desporto. 2017; 17: 125-137. https://doi.org/10.5628/rpcd.17.s4a.125
401. Silva A.G., Albuquerque M.R., Brito C.J. et al. Effect of Whole-, Upper-, and Lower-Body High-Intensity Rowing Exercise on Skin Temperature Measured by Thermography // Research Quarterly for Exercise and Sport 2022. 12 pp. DOI: 10.1080/02701367.2021.1964696
402. Silva A.G., Albuquerque M.R., Rei[s](https://www.researchgate.net/profile/Hamilton-Henrique-Teixeira-Reis?_sg%5B0%5D=6VqASWNlN94bOjmjLwJ1KvGC85YT6BImcrsgR3FlC60h07ZqJBrlQjRgzUiiOF_f7XaiT9M.hvwdH9Lq9xI4JkXyWDmWE56W01DtNg3flsRVGkiJ3sGmu9U4zUw7XRRNVoaZmyw5kklKEC0FX3K-cjjHBPpCNA&_sg%5B1%5D=4w-z_oLGMyEhx9Y-udZprG_9RD24gVQP80zdPzUs74IxrvCjIn6ipLf0Fq6zXK7uo8br3mk.zBHIOOPSzEbuWgyE-9iEwbFRIoeUzN1wFlMDMrcu1sRQWX6mwwq_XqsshQR1iuqNUP_m1gBisSZEOHyadaH07Q) H.T. et al. Infrared thermography detects soccer-induced residual fatigue: a single-case study // Motricidade. December 2022;18(2):191-198. DOI: [10.6063/motricidade.27133](http://dx.doi.org/10.6063/motricidade.27133)
403. Silva W., Machado A., Lemos A.L. et al. Relationship between exercise-induced muscle soreness, pain thresholds, and SKIN temperature in men and women // Journal of Thermal Biology. July 2021;100(3):103051. DOI: [10.1016/j.jtherbio.2021.103051](http://dx.doi.org/10.1016/j.jtherbio.2021.103051)
404. Silva Y.A., Santos B.H., Andrade P.R. et al. Skin temperature changes after exercise and cold water immersion // Sport Sci Health 2017. 13 (1): 195-202.
405. Smith B.L., Bandler M.K., Goodman P.H. Dominant Forearm Hyperthermia: A Study of Fifteen Athletes // Thermology 1986; 2: 25-28.
406. Sobiech K.A., Gruszka K., Chwałczyńska A., Jędrzejewski G. Application of thermovision to body surface temperature analysis of regular winter swimmers // PAK. 2014;60(12):1112-1115.
407. Sommer B., Berschin G. Analysis of skin temperature changes by infrared thermography using an elastic thigh bandage during rest and physical exertion: a pilot study // Thermology international 2013, 23(1) 24-32.
408. Sporis G., Milovan B., Pantelic S. et al. Application of Infrared Thermography in Basketball // Conference: 8th International Scientific Conference on Kinesiology, Opatija (Croatia), May 2017. P. 123-127.
409. Straburzyńska-Lupa A., Korman P., Śliwicka E. et al. The use of thermal imaging for monitoring the training progress of professional male sweep rowers // Scientific Reports. October 2022;12(1). 16 pp. DOI: [10.1038/s41598-022-20848-7](http://dx.doi.org/10.1038/s41598-022-20848-7)
410. Stewart I.B., Moghadam P., Borg D.N. et al. Thermal Infrared Imaging Can Differentiate Skin Temperature Changes Associated with Intense Single Leg Exercise, but not with Delayed Onset of Muscle Soreness // Journal of Sports Science and Medicine (2020) 19, 469-477. [http://www.jssm.org](http://www.jssm.org/)
411. Stroppa G.M., Silva A.G., Moreira D.G. et al. Análise da temperatura da pele em joelhos de jogadoras de futebol professional // Rev Bras Futebol. 2017; 8: 36-42.
412. Svaic V., Jurak I. Differences in knee skin temperature between left and right leg after running on a treadmill measured by infrared thermography // 2020 Quantitative InfraRed Thermography. January 2020. 5 pp. DOI: 10.21611/qirt.2020.125
413. Szurko A., Kasprzyk-Kucewicz T., Cholewka A. et al. Thermovision as a Tool for Athletes to Verify the Symmetry of Work of Individual Muscle Segments // Int. J. Environ. Res. Public Health 2022, 19, 8490. 16 pp. https:// doi.org/10.3390/ijerph19148490
414. Taiar R., Ghieda M.Y., Elbrawy E.H. et al. Digital thermal analysis as a performance-level indicator to evaluate two volleyball skills for female students during and after menstrual cycle // Series on Biomechanics 2019; 33 (1): 30-40.
415. Tanda G. The use of infrared thermography to detect the skin temperature response to physical activity // Journal of Physics: Conference Series 2015, 655 (1): 012062. 9 pp. doi:10.1088/1742-6596/655/1/012062
416. Tanda G. The use of infrared thermography to detect the skin temperature response to physical activity // Proceedings of the 33rd UIT (Italian Union of Thermo-fluid dynamics) Heat Transfer Conference, L’Aquila, Italy, 22–24 June 2015.
417. Tanda G. The use of infrared thermography to detect the skin temperature response to physical activity // J Phys Conf Ser. 2015;655:12062. https://doi.org/10.1088/1742-6596/655/1/012062
418. Tanda G. Skin temperature measurements by infrared thermography during running exercise // Exp Therm Fluid Sci 2016. 71: 103-113. DOI: [10.1016/j.expthermflusci.2015.10.006](http://dx.doi.org/10.1016/j.expthermflusci.2015.10.006)
419. Tanda G. Total body skin temperature of runners during treadmill exercise // J. Ther. Anal. Calorim. 2018, 131, 1967-1977. [CrossRef]
420. Tauchmannova H., Gabrhel J., Cibak M. Thermographic findings in different sports: their value in the prevention of soft tissue injuries // Thermol Österr 1993. 3: 91-95.
421. Thomas D., Siahamis G., Marion M., Boyle C. Computerized infrared thermography and isotopic bone scanning in tennis elbow // Annals of the Rheumatic Diseases 1992. 51 (1): 103-107. doi:10.1136/ard.51.1.103 PMID:1540012
422. Torii M., Yamasaki M., Sasaki T. Skin surface temperatures during submaximal cycling observed by color thermography // Annals of Physiological Anthropology, 1987. 6 (1): 21-24. doi:10.2114/ahs1983.6.21 PMID:3675756
423. Torii M., Yamasaki M., Sasaki T., Nakayama H. Fall in skin temperature of exercising man // British Journal of Sports Medicine 1992. 26 (1): 29-32. doi:10.1136/bjsm.26.1.29 PMID:1600450
424. Trecroci A., Formenti D., Ludwig N. et al. Bilateral asymmetry of skin temperature is not related to bilateral asymmetry of crank torque during an incremental cycling exercise to exhaustion // Peer J 2018, 6:e4438-e4451; DOI 10.7717/peerj.4438
425. Tumilty S., Adhia D., Smoliga J.M., Gisselman A.S. Thermal profiles over the Achilles tendon in a cohort of non-injured collegiate athletes over the course of a cross country season // Physical therapy in sport: official journal of the Association of Chartered Physiotherapists in Sports Medicine; 2019;36:110-115. DOI: [10.1016/j.ptsp.2019.01.009](https://www.researchgate.net/deref/http%3A//dx.doi.org/10.1016/j.ptsp.2019.01.009?_sg%5B0%5D=jKZP_QW_v-2xXDJvOy3FwaR3YWyDbR2RuIp9Dmr51loh7AUcciFl6eUQzDpdsJji6YEyLkuN0iAri35SYPOIEM5guw.pqymlG13NnOGr1vFSknGUPjcJTagS5qaxLVThMu-vzPVl1_MbCgbRJ0ar4rBWRi7ZTYzR98hqqu-_dUuqHOYnw)
426. Uchôa P., Matos F., Neves E.B. et al. Evaluation of two different resistance training volumes on the skin surface temperature of the elbow flexors assessed by thermography // Infrared Physics & Technology 2018, 93, 178-183. 22 pp. doi: https://doi.org/10.1016/j.infrared.2018.07.038
427. Vardasca R., Dominques A.S., Gabriel J. Case study in thermal monitoring of physiotherapy treatments to ankle sprains in rugby athletes (extended abstract) // Thermology International 2015. 25 (2): 72.
428. Vardasca R., Magalhães C., Abreu P. et al. Bilateral comparison of forearm skin temperature during handgrip force exercise // Third Quantitative Infrared Thermography Asian Conference (QIRT-Asia 2019), At: Tokyo, Japan, July 2019.
429. Vardasca R., Seixas A., Gabriel J., Vilas-Boas J. Thermographic evaluation of swimming techniques (extended abstract) // Thermology International 2015. 25 (3): 125-126.
430. Vardasca R., Seixas A., Gabriel J., Vilas-Boas J. Infrared Thermography in Water Sports. In: Priego Quesada J.I., editor. Application of Infrared Thermography in Sports Science. Cham, Switzerland: Springer International Publishing; 2017. p. 137-157. (Biological and Medical Physics, Biomedical Engineering).
431. Veghte J.H., Adams W.C., Bernauer E.M. Temperature changes during exercise measured by thermography // Aviation, Space, and Environmental Medicine 1979. 50 (7): 708-713. PMID:486019
432. Viegas F., de Mello M.T., Rodrigues S.A. et al. The use of thermography and its control variables: a systematic review // Revista Brasileira de Medicina do Esporte. February 2020. 26(1):82-86. DOI: [10.1590/1517-869220202601217833](https://www.researchgate.net/deref/http%3A//dx.doi.org/10.1590/1517-869220202601217833?_sg%5B0%5D=u5tiYs16zhirnIC5aEajWHE_YZEW1_0PyDXls63sJdd0KMizcjNqdp7myQhRub656yzorO-NQcZ-GgWN25W8Z0yN8Q.PdrsakYrnlxIKqbNrpaWoPvVgS0XCwSldPgb2l_mRfw39KIp8GiN7Z0JNvFabpW9lNMHJJFp8cA9konvUF7ZIA)
433. Vieira L., Souza J., Zaro M. et al. O uso da termografia como método auxiliar no diagnóstico da síndrome de estresse tibial media // Rev Bras Med Esporte. 2003;9:439-446. [in Portuguese]
434. Vieira L., Zaro M., Cervieri A. et al. O uso da termografia como tecnica auxiliary na recuperacao de atletas // 2017 (?). Url (1): <http://www.lla.if.sc.usp.br/art/termoatletas.pdf> Url (2): <https://www.yumpu.com/pt/document/read/12959706/o-uso-da-termografia-como-tecnica-auxiliar-na-llaifscuspbr> [in Portuguese]
435. Vieira S.G., Sillero Quintana M., Gomes da Silva A. et al. Thermographic response resulting from strength training: A preliminary study // Apunts Sports Medicine, October 2020; 55(208):120-127. DOI: [10.1016/j.apunsm.2020.08.003](https://www.researchgate.net/deref/http%3A//dx.doi.org/10.1016/j.apunsm.2020.08.003?_sg%5B0%5D=HpV9ELV2d16TzaHIB1RczFZpKwhuYg8nfh_h-wPRmXTx1DdhkmdGj9jPHvKrjeAm97ExDlQRgRvsepilebWt-BU3yg.L17qpFaIzpwWm98XyYIOOrkcCfFPtZ8jPg2dEiqqjmhDEPkrUU8idwNACInggDctABeWpcJI8VqVJXRu08VkLQ)
436. Wade C.E., Veghte J.H. Thermographic evaluation of the relative heat loss by area in man after swimming // Aviation, Space, and Environmental Medicine 1977. 48 (1): 16-18. PMID:831705
437. Wang J.-G., Toh H.L. Visualizing skin temperature before, during and after exercise for dynamic area telethermometry // Paper presented at the Engineering in Medicine and Biology Society. 2001.
438. Weigert M., Nitzsche N., Kunert F. et al. Acute Exercise-Associated Skin Surface Temperature Changes after Resistance Training with Different Exercise Intensities // International Journal of Kinesiology and Sports Science, January 2018, 6(1):12-18. DOI: [10.7575/aiac.ijkss.v.6n.1p.12](https://www.researchgate.net/deref/http%3A//dx.doi.org/10.7575/aiac.ijkss.v.6n.1p.12?_sg%5B0%5D=wyRBOLTHFRFSuJfQbA41y7C6rjYCESxjCAeeuGfP8sTvp_YPACqo2rTOR7AICE_6Ruyy10YyAteBnmkAl_e0BcGXNw.rWr-fQpfRzvyAFUrfbHbk7ubJuUhR9fSsZyJ95eV4DNvBe-o4Xf7HiyNmlFDohm7N0Z5i5cEMBDC1M2DaUCYvg&_sg%5B1%5D=OtVYLhdF3LEIEdGtnzG-EaIHQNCJ9RHTQbxtMmh_aYGM4_kTlK8mFgYdFT5ljMO7V4L8jVP7cyDf.24BAOhLl1m-Dz5H-FZN7BCxsBTf0KecJybif7dwi-CakdO5vySeo4H8oSInaL_4q8FlFi8bpdLMiK3Poh4pmeg)
439. Weigert M., Nitzsche N., Kunert F. et al. The influence of body composition on exercise-associated skin temperature changes after resistance training // Journal of Thermal Biology 2018, 75, 112-119. https://doi.org/10.1016/j.jtherbio.2018.05.009
440. Yavuz M., Brem R.W., Davis B.L. et al. Temperature as a predictive tool for plantar triaxial loading // J. Biomech. 2014. 47, 3767-3770.
441. Zaïdi H., Fohanno S., Polidori G., Taiar R. The influence of swimming type on the skin-temperature maps of a competitive swimmer from infrared thermography // Acta Bioeng Biomech 2007; 9:47.
442. Zaïdi H., Taiar R., Fohanno S., Polidori G. The influence of swimming type on the skin temperature maps of a competitive swimmer from infrared thermography // Acta of Bioengineering and Biomechanics 2007. 9 (1): 47-51. PMID:17933104
443. Zontak A., Sideman S., Verbitsky O., Beyar R. Dynamic thermography: analysis of hand temperature during exercise // Ann Biomed Eng. 1998 Nov-Dec; 26(6): 988-993. doi:10.1114/1.33
444. Żuk M., Dębiec-B[ą](https://www.researchgate.net/profile/Agnieszka_Debiec-Bak?_sg%5B0%5D=7hhDC-0KBB-wfHPcNI2B25J7LIKZjzFlRj67LdEOiimX8MZGTdot1NyAuek_zekPqyAFzGs.kcC1-4CviTnSqjr6nTQpZk_4zPblo3TKeGVDR3vN3gOpiLWg0qEZV--Bl85XQBLMZ24ZJBEeuyYp9rTtEplkDw&_sg%5B1%5D=aqHYFoGn25lldsMyG1mCHsov4fxxgAAAL4vInXX4wndb685WqAbo4ZEzC_SYMes2D_raDUA.WHxjibeTmSoW2oAHPpkdKpk9G1NSHukXw4_p5Xt8sYyIdH0jaL2kMkSP_W9ku60o5mCkZy7EWQmTUojtz3vw4w)k A., Pawik L., Skrzek A. Wpływ masażu głębokiego na mięsień czworogłowy piłkarzy nożnych, w badaniach izokinetycznych i termowizyjnych (Influence of massage deep in quadriceps soccer players, in isokinetic testing and thermography) // Journal of Education, Health and Sport. July 2016;6(7):236-251. DOI: [10.5281/zenodo.57448](https://www.researchgate.net/deref/http%3A//dx.doi.org/10.5281/zenodo.57448?_sg%5B0%5D=Iu9xXj54pnhQAQhMe0gquhEfoI3SXgGK4C7Y88hQvp15OPQiXw9rD4_k1wrfaVqdqD4hXSoob0alolAGA_ABx_UR-A.9huOiJ_-1Edfk92udQ3W2a5cIlvvYVIC1fOrtX__ZAKrHn4ppTqpLQOXJ4ksCi0CyMLLWrSQ8UTVjRAV95hZAg) [in Polish]
445. Zuzda J.G, Kacpura J., Dziura J. et al. The Influence of Hip Conditioning Program with Rotational Movements on Thermal Response of Lower Limbs. In book: Biocybernetics and Biomedical Engineering – Current Trends and Challenges. January 2022. Chapter. P. 74-87. DOI: [10.1007/978-3-030-83704-4\_8](http://dx.doi.org/10.1007/978-3-030-83704-4_8)
446. Zuzda J.G., Latosiewicz R. Changing of Body Temperature during Archery Recreation –Pilot Examination // Econ Manag 2010;2:147-158.
447. Zuzda J.G., Sillero Quintana M., Dziura J. et al. Long term effect of Step Aerobics Training on skin temperature. A pilot study // Progress in Health Sciences. December 2020;10(2):65-73. DOI: [10.5604/01.3001.0014.6590](http://dx.doi.org/10.5604/01.3001.0014.6590)