***Тепловидение в комбустиологии***

1. Способ диагностики ожогов ША-ШВ степени. Авторы: Левин В.М., Кошечкин С.В., Абызова Н.Е. (Патент РФ №2085109, МКИ А 61 В 5/00). 1995.
2. Способ диагностики ожогов ША степени. Авторы: Прилучный М.А., Аминев А.В., Колесов С.Н., Аминев В.А. (Приор. справка 98119202 от 21.10.1998. Патент РФ № 2144308 от 20.01.2000, МПК А 61 В 5/00).
3. Способ диагностики глубины ожоговой раны (Кислицын П.В., Аминев В.А., Прилучный М.А., Колесов С.Н.). Приор. справка 2007122859 от 18.06.2007. Патент РФ № 2339300 от 27.11.2008.
4. Способ интраоперационного контроля радикальности иссечения ожоговых струпов при ранней некрэктомии (Атясова М.Л., Аминев В.А., Докукина Л.А., Кислицын П.В., Прилучный М.А., Колесов С.Н.). Приор. справка 2008124488 от 16.06.2008. Патент РФ № 2369320 от 10.10.2009.

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

1. Алейник Д.Я., Докукина Л.Н., Квицинская Н.А., Чарыкова И.Н., Рубцова Ю.П., Воловик М.Г. Применение свежезаготовленных аутологичных клеток в практике детской комбустиологии // Российский вестник детской хирургии, анестезиологии и реаниматологии. 2015. Т. 5, № 4. С. 18-25. <https://doi.org/10.17816/psaic208> URL: [https://rps-journal.ru/jour/article/view/208 IF 0.185](https://rps-journal.ru/jour/article/view/208%20IF%200.185)
2. Бушуев Ю.И. и др. Гистоморфологическое обоснование диагностических возможностей тепловидения для определения глубины ожога кожи // Сб. науч. работ Межрегион. науч.-практич. конф. Краснодар, 1993, С. 9-11.
3. Воловик М.Г., Докукина Л.Н., Перетягин П.В., Чарыкова И.Н. Комплекс неинвазивных методов диагностики в лечении ожогов у детей с применением клеточных технологий // Матер. Всерос. науч.-практ. конф. с междунар. участием «Термические поражения и их последствия». Ялта, 28-30 сент. 2016. С. 58-60.
4. Воловик М.Г., Докукина Л.Н., Перетягин П.В. Инфракрасное картирование и ЛДФ в прогнозе успешности трансплантации аутоклеток у детей с ожогами // V Съезд комбустиологов России и Междунар. конф. «Термические поражения и их последствия». М., 31 октября – 1 ноября 2017 г. М., 2017a. Сб. науч. трудов, С. 52-53.
5. Воловик М.Г., Докукина Л.Н., Перетягин П.В. Аппаратурный контроль при использовании свежезаготовленных аутологичных клеток в лечении дермальных ожогов у детей // Гены и клетки. Материалы III Нац. Конгр. по регенеративной Медицине. Москва, 15-18 ноября 2017 года. 2017b. Том XII, № 3. С. 65-66.
6. Воловик М. Г., Долгов И.М., Карамышев Ю.В. и др. Возможности медицинского тепловидения в обследовании и лечении пациентов с ожогами // Медицинский алфавит. 2023;(22):56-62. <https://doi.org/10.33667/2078-5631-2023-22-56-62>
7. Гогодзе Т.В. и др. Оценка термографических исследований в эффективности хирургического лечения глубоких ожоговых ран // Тепловидение в медицине Ч. 2. Л., 1981. С. 122-125.
8. Докукина Л.Н., Воловик М.Г., Прохорова Ю.Н., Сидорова Т.И. Аутоклетки в практике детской комбустиологии // Матер. V Межрегион. науч.-практ. конф. «Клеточные технологии – практическому здравоохранению». 26-27 октября 2016 г. Екатеринбург, 2016. С. 151-152.
9. Жабская В.И., Майсков Д.И., Залетов И.С. и др. Термографический способ мониторинга приживления лоскутов кожи при ожогах конечностей // Методы компьютерной диагностики в биологии и медицине - 2019. Сб. статей Всероссийской школы-семинара, посвященной 110-летию Саратовского государственного университета им. Н.Г.Чернышевского. Под ред. А.В. Скрипаля. 2019. С. 65-68.
10. Ковальов Г.О., Гордієнко Е.Ю., Фоменко Ю.В. и др. Динаміка заморожування та відігрівання м’яких тканин при короткочасовій дії на шкіру кріоаплікатора [Dynamics of Freezing and Warming of Soft Tissues with Short-Term Effect on Skin with Cryoapplicator] // Probl Cryobiol Cryomed 2020;30(4):359-368. https://doi.org/10.15407/cryo30.04.359 [in Ukrainian]
11. Колесов С.Н., Аминев В.А., Кошечкин С.В. и др. Ранняя диагностика глубины ожогового повреждения тепловизионным методом. Методические рекомендации. Нижний Новгород, ФГУ «ННИИТО Росздрава», 2006. 9 с.
12. Колесов С.Н., Левин В.М., Кошечкин С.В. и др. Достоверность тепловидения в оценке глубины ожогового поражения в ранние сроки с момента травмы // Нижегородский медицинский журнал, 1997;4:25-28.
13. Кошечкин С.В. Диагностические возможности тепловидения в комбустиологии. В кН.: Тепловидение в травматологии и ортопедии: сб. науч. работ / Горьк. НИИТО. Горький, 1988. С.68-76.
14. Кошечкин С.В. Диагностические возможности теплорадиовидения для определения глубины ожогов в ранние сроки. Автореф. дис. канд. мед. наук. Н.Новгород, 1992. 17 с.
15. Левин В.М. и др. Тепловизионная диагностика ожогов IIIА- IIIБ степени в сроки до трех суток с момента травмы // Всерос. конф. «Тепловизионная диагностика и практика ее применения в медицине – ТеМП-94». СПб., 1994. С. 14-15.
16. Мартусевич А.К., Краснова С.Ю., Галка А.Г. и др. [Ближнепольное резонансное СВЧ-зондирование как метод исследования глубинной структуры ожоговой раны в эксперименте // Современные технологии в медицине. 2018. Т. 10. № 3. С. 125-129.](https://elibrary.ru/item.asp?id=36297443)
17. Прилучный М.А., Колесов С.Н. Перспективные направления применения тепловидения в комбустиологии // Матер. VII Междунар. конф. «Прикладная оптика-2006». Санкт-Петербург, 2006. С. 38-40.
18. Ручин М.В., Мартусевич А.К. Оценка эффективности пластики лоскутом на питающей ножке при лечении глубоких ожогов // Медицина. 2016;4[(16):85-94.](https://elibrary.ru/contents.asp?id=34416957&selid=28287429)
19. Сатыбалдыев В.М. Диагностико-прогностические возможности термографии в оценке тяжести криотравмы верхних конечностей // Экология человека; 1998, № 3, С. 10-11.
20. Сатыбалдыев В.М. Ранняя диагностика и прогнозирование степени отморожения конечностей // Вестник хирургии им. И.И.Грекова. 2003. № 1. С.46-48.
21. Смирнов С.В., Панченков Н.Р., Сухарев В.И. Термография в диагностике глубины элкектроожога костей свода черепа // Вестник хирургии им И.И.Грекова, 1978;120:103-104 PMID: 653988
22. Bychikhin N.P., Satybaldyev V.M. Diagnostika i lechenie otmorozheniĭ [Diagnosis and treatment of frostbite] // Klin Khir. 1986;(3):22-24. [in Russian]. PMID: 3712988
23. Derzhavin V.M., Kuberger M.B., Generalov A.I., Kovalev V.I. [Thermography and its clinical use (literature survey)] // Vopr Okhr Materin Det 1975;20:54-577 [in Russian].
24. Kiumov V.I., Orlov G.A., Popov V.A. Pokazateli infrakrasnoĭ termografii pri otmorozhenii i khronicheskoĭ kholodovoĭ travme konechnosteĭ [Indicators of infrared thermography in frostbite and chronic cold-induced trauma of the limbs] // Klin Khir. 1974 Nov;(11):49-52. [in Russian]. PMID: 4444156
25. Murazian R.I., Smirnov S.V., Panchenkov N.R. O diagnostike i lechenii otmorozheniĭ konechnosteĭ [Diagnosis and treatment of frostbite of the extremities] // Vestn Khir Im I I Grek. 1978 Sep;121(9):74-78. [in Russian]. PMID: 706112
26. Orlov G.A. Mestnye reaktsii pri kholodovoi travme ruk (analiz infrakrasnogo izlucheniia [Local reactions in hand injuries due to cold (infrared radiation)] // Vestn Khir Im I I Grek. 1973 Mar;110(3):93-98. [in Russian]. PMID: 4713531
27. Orlov G.A. Diagnostika otmorozheniĭ i drugikh vidov porazheniia kholodom [Diagnosis of frostbite and other types of cold-induced lesions] // Klin Khir. 1976 Jan;(1):34-41. [in Russian]. PMID: 972450
28. Ryabkov M.G., Egorikhina M.N., Koloshein N.A. et al. Effectiveness and Safety of Transplantation of the Stromal Vascular Fraction of Autologous Adipose Tissue for Wound Healing in the Donor Site in Patients with Third-Degree Skin Burns: A Randomized Trial // Med J Islam Repub Iran. 2023 (21 Jun);37:70. https://doi.org/10.47176/mjiri.37.70
29. Satybaldyev V.M. Ranniaia diagnostika i prognozirovanie stepeni otmorozheniia konechnosteĭ [Early diagnosis and prognosis of severity in frostbite of the extremities] // Vestn Khir Im I I Grek. 2003;162(1):46-48. [in Russian]. PMID: 12708392
30. Smirnov S.V., Panchenkov N.R., Murazian R.I., Sukharev V.I. Infrakrasnaia termografiia pri termicheskikh porazheniiakh [Infrared thermography in thermic lesions] // Khirurgiia (Mosk). 1980 May;(5):103-104. [in Russian]. PMID: 7401537

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

1. Alkhwaji A., Vick B., Diller T. Estimating burn depth from thermal measurements // Biomed Sci Instrum 2012;48:12-19.
2. Anselmo V.J., Zawacki B.E. Infrared photography as a diagnostic tool for the burn ward // Proceeding Society of Photo-Optical Instrumentation Engineers. 1973; 8: P. 181.
3. Anselmo V.J., Zawacki B.E. Effect of evaporative surface cooling on thermographic assessment of burn depth // Radiology. 1977; 123 (2): 331-332. <https://doi.org/10.1148/123.2.331>
4. Asif A., Poyiatzis C., Raheman F.J., Rojoa D.M. The Use of Infrared Thermography (IRT) in Burns Depth Assessment: A Diagnostic Accuracy Meta-Analysis // Eur. Burn J. 2022, 3, 432-446. <https://doi.org/10.3390/ebj3030038>
5. Bajorek M., Kaczmarek M. Numerical heat transfer model in skin burn depth simulations // 9th International Conference on Quantitative InfraRed Thermography (QIRT-2008). July 2-5, 2008, Krakow – Poland. 2 pp.
6. Bante-Guerra J., Conde M., Quintana P. et al. Infrared Thermography in the Analysis of Burned Bones // Cultural Forum Guanajuato Leon, Guanajuato, Mexico; October 7-12, 2007.
7. Barnes R.B. Thermography and its Clinical Applications // Annals of the New York Academy of Sciences 1964; 121, 1: 34-48.
8. Berger A., Dahlberg B., Gebhard W., Seidl K. The experimental and clinical use of colour thermography in the evaluation of the extent and depth of burns // Chirurgia Plastica, vol. 3, P. 135-142, 1975.
9. Birch J., Branemark P.I., Nilsson K., Lundskog J. Vascular Reactions in an Experimental Burn Studied with Infrared Thermography and Microangiography // Scandinavian Journal of Plastic and Reconstructive Surgery and Hand Surgery. 1968, Vol. 2, No. 2, P. 97-103.
10. Boylan A. Measurement of infrared emissivity of bum wounds for remote sensing of wound temperatures. MSc thesis. University of Aberdeen, 1990.
11. Boylan A., Martin C.J., Gardner G.G. Infrared emissivity of burn wounds // Clin. Phys. Physiol. Meas. 1992. 13(2), 125-127.
12. Burke-Smith A., Collier J., Jones I. A comparison of non-invasive imaging modalities: Infrared thermography, spectrophotometric intracutaneous analysis and laser Doppler imaging for the assessment of adult burns // Burns 2015; 41 (8): 1695-1707. doi: 10.1016/j.burns.2015.06.023
13. Burmeister D.M., Cerna C., Becerra S.C. et al. Noninvasive Techniques for the Determination of Burn Severity in Real Time // J Burn Care Res. 2017 Jan/Feb;38(1):e180-e191. doi: 10.1097/BCR.0000000000000338
14. Buwalda G. Thermographic assessment of burns and frostbite // Bibl Radiol. 1969;5:178-181. PMID: 5762022
15. Carrière M.E., de Haas L.E.M., Pijpe A. et al. Validity of thermography for measuring burn wound healing potential // Wound Repair Regen. 2020 May;28(3):347-354. doi: 10.1111/wrr.12786
16. Cole R.P., Jones S. G., Shakespeare P. Thermographic assessment of hand burns // Burns, 1990, vol. 16, P. 60-63.
17. Cole R.P., Shakespeare P.G., Chissell H.G., Jones S.G. Thermographic assessment of burns using a nonpermeable membrane as wound covering // Burns. 1991; 17(2):117-122.
18. Derksen W.L., Murtha T.D., Monahan T.I. Thermal conductivity and diathermancy of human skin for sources of intense thermal radiation employed in flash burn studies // J Appl Physiol. (1957) 11:205-210. doi: 10.1152/jappl.1957.11.2.205
19. [Devgan L., Bhat S., Aylward S. et al. Modalities for the assessment of burn wound depth // J Burns Wounds 2006;5:e2.](https://doi.org/10.1111/j.1749-6632.1964.tb13688.x)
20. Dickey F.M., Holswade S.C., Yee M.L. Burn-depth estimation using thermal excitation and imaging // Proc. SPIE 3595, Biomedical Diagnostic, Guidance, and Surgical-Assist Systems, (9 July 1999); <https://doi.org/10.1117/12.351533>
21. Diner K.R., Capt W.M. Analysis of high temperature burns // Proceedings of The First Joint BMES/EMBS Conference Serving Humanity, Advancing Technology, Atlanta, 1999, P. 1279.
22. Driver J., Fielding A., Mullhi R. et al. Temperature management of adult burn patients in intensive care: findings from a retrospective cohort study in a tertiary centre in the United Kingdom // Anaesthesiol Intensive Ther. 2022;54(3):226-233. doi: 10.5114/ait.2022.119131
23. Dziewonski M. Planimetry of thermograms in diagnosis of burn wounds // Scientific Research of the Institute of Mathematics and Computer Science. [2009](https://yadda.icm.edu.pl/baztech/element/bwmeta1.element.baztech-year-1731-5417-prace_naukowe_instytutu_matematyki_i_informatyki_politechniki_czestochowskiej-2009). [8 (1](https://yadda.icm.edu.pl/baztech/element/bwmeta1.element.baztech-volume-1731-5417-prace_naukowe_instytutu_matematyki_i_informatyki_politechniki_czestochowskiej-2009-vol__8_nr_1)): 33-38. URL: <http://www.srimcs.im.pcz.pl/>
24. Englisz-Jurgielewicz B., Cholewka A., Ziółkowska K. et al. Obrazowanie termiczne w ocenie oparzeń (Thermal imaging in burns diagnostics) // Inżynier i Fizyk Medyczny, 2020;1(9):63-65. [in Polish]
25. Ferguson J.C., Martin C.J. A study of skin temperatures, sweat rate and heat loss for burned patients // Clin. Phys. Physiol. Meas. 1991 12 367-375.
26. Ganon S., Guedon A., Cassier S., Atlan M. Contribution of thermal imaging in determining the depth of pediatric acute burns // Burns 46 (5) (2020) 1091-1099.
27. Hackett M.E. The use of thermography in the assessment of depth of burn and blood supply of flaps, with preliminary reports on its use in Dupuytren's contracture and treatment of varicose ulcers // British Journal of Plastic Surgery 1974, vol. 27, P. 311-317. <http://dx.doi.org/10.1016/0007-1226(74)90028-9>
28. Hackett M.J. Colour thermography in the diagnosis of burn depth // Trans. 5th Int. Congr. Plast. & Reconstr. Surg., 1971. P. 813.
29. Hardwicke J., Thomson R., Bamford A., Moiemen N. A pilot evaluation study of high resolution digital thermal imaging in the assessment of burn depth // Burns. Feb 2013. 39 (1): 76-81. DOI: <http://dx.doi.org/10.1016/j.burns.2012.03.014>
30. Hargroder A.G., Davidson Sr. G.E., Luther D.G., Head J.F. Infrared imaging of burn wounds to determine burn depth // Proc. SPIE 3698, Infrared Technology and Applications XXV (26 July 1999). <https://doi.org/10.1117/12.354509>
31. Horta R., Nascimento R., Vilas-Boas J. et al. Thermographic analysis of facially burned patients // Burns 2016; 42 (1) 236-238.
32. Hryciuk M., Nowakowski A., Renkielska A. Multi-layer thermal model of healthy and burned skin // In: Hutten H., Krösel P., eds. Proceedings Part II, EMBEC´02. European Medical & Biological Engineering Conference. IFMBE, Graz, 2002. P.1614-1617.
33. Irwin J.W., Savara B.S. Thermography in the Measurement and Management of Combat Burn and Wound Healing // Defense Technical Information Center, 1973, 17 pp.
34. Janicki M., Kuzanski W., Kulesza Z., Napieralski A. Application of infrared thermography for the assessment of burn wounds depth // Thermology International, 2011, vol. 21, P. 99-101.
35. Janicki M., Tylman W., Kuzanski W., Napieralski A. Application of infrared thermography for early assessment of burn wound depth in children – a preliminary study // 2012 Quantitative InfraRed Thermography. http://dx.doi.org/10.21611/qirt.2012.237
36. Jaskille A.D., ShuP J.W., Jordan M.H., Jeng J.C. Critical review of burn depth assessment techniques: Part I. Historical review // J Burn Care Res Off Publ Am Burn Assoc. 2009 Dec; 30(6):937-947.
37. Jaspers M.E.H., Carrierre M.E., de Vries A.M. et. al. The FLIR ONE thermal imager for the assessment of burn wounds: Reliability and validity study // Burns, May 2017, 43(7):1516-1523. DOI: [10.1016/j.burns.2017.04.006](https://www.researchgate.net/deref/http%3A%2F%2Fdx.doi.org%2F10.1016%2Fj.burns.2017.04.006?_sg%5B0%5D=xbEFbjxXFdx7bpcXxyVQq22BUwECzaLhnU28Fz6N5iK0UtX8ZgU5tN7kFedutuk-nGMaIbVyIjGvQTtAcOud7mfjmQ.B0L_OQufJ3oADnxTpP0MnMRI1twJGZ5UzQkMAIL3KTRjFc208iLzhJBFLACYEh0YGGdPsw2_-Vo7xJ-XKkIGZw&_sg%5B1%5D=gxbLBGXBax52_cd76behCwV7NkksL-XP0y4ZzCvRvqyLaopF1aEXW8mNXVoewqlF2rmizbhteR0c.zkXDeTNCtdpb9kn_WPTcCoNPGH_i9TsqfAERW546bHNO1gPESbgtXGbvpIQEswqj7IeJzoPrX8zj4A5C2DiU7Q)
38. Jaspers M.E.H., Maltha I.M., Klaessens J.H.G.M. et al. Noninvasive measurement of burn wound depth applying infrared thermal imaging // SPIE BiOS, April 2016. (Conference Presentation). DOI: [10.1117/12.2213286](https://www.researchgate.net/deref/http%3A%2F%2Fdx.doi.org%2F10.1117%2F12.2213286?_sg%5B0%5D=kgvvzXcGMiY798JOhswVu_-ZtqvVplYocVi537bCygvAy8C19x691Qzfp_HsRJeNiFF-FAqTNZGftda6P5XqCvFh4w.TLu7UUO1D7JzNOT-Jmrx8JvX2pqcoVglmNX0mwKpqAdO-9lh7XFMrUYf53pYiob0ftYSpIox1i7HBor6HOFYSg&_sg%5B1%5D=7dzKEhbwJ0jKshakFtxZ7fyOvV15yHjDrO104YrBW-u0c_fwknAkL3o3vYqtzJ8M6kJ4WQKEatfD.hslkYGxoBRpkmb1RJ61CascHW2iqpIWqroe_bTVHzFcH3PUOdpmMyz-jYrpi0Hj6Lxz1PrH8B0nmjBVciXfLvQ)
39. Jaspers M.E.H., Maltha I., Klaessens J.H.G.M. et al. Insights into the use of thermography to assess burn wound healing potential: a reliable and valid technique when compared to laser Doppler imaging // J Biomed Opt. 2016 Sep 1; 21(9):96006. https://doi.org/10. 1117/1.JBO.21.9.096006
40. Jaspers M.E.H., van Haasterecht L., van Zuijlen P.P.M., Mokkink L.B. A systematic review on the quality of measurement techniques for the assessment of burn wound depth or healing potential // Burns, June 2018, 45(2). DOI: [10.1016/j.burns.2018.05.015](https://www.researchgate.net/deref/http%3A%2F%2Fdx.doi.org%2F10.1016%2Fj.burns.2018.05.015?_sg%5B0%5D=mLcumsebQUOqc_PIqmVlOLpNeYQI0sbuVeEDjPL-0NUCKyr-cQDsIMIHiUEIPO7vsW_r8a6p-BTIlWP3KPUyf3NcPQ.zTC3xTHGiNskn0-U7bozSeIxZcJ8O70zWMpKeCiokDajZoFFs8dDsP9jUnn-p5ob3WyQAc8lq95WgxUgvT81Jw&_sg%5B1%5D=CNOevNwXLxbAzHK1InmFYbjon6spmRmYwdS-Zc07D5g8ofVGtcr2OOxlMlpRqK6mJ_vjlaR_aa53.toF9iA7TJOjDs3yyXMKhNZZBE7Ul5-CKOMDuoSV87h6c09zRr2Iyg7HvnL2n3WQf-R42fuDTHc7tduCRTckGjw)
41. Jiang S.C., Ma N., Li H.J., Zhang X.X. Effects of thermal properties and geometrical dimensions on skin burn injuries // Burns 2002. 28, 713-717.
42. Jones B.F. A reappraisal of the use of infrared thermal image analysis in medicine // Med. Imag. IEEE Trans. 1998. 17(6), 1019-1027. DOI:[10.1109/42.746635](https://doi.org/10.1109/42.746635)
43. Kaczmarek M. TSR method for burns investigation approach // 14th Quantitanive InfraRed Thermography Conference (QIRT-2018). Berlin, Germany, June 24-29, 2018. Tu.2.B.2, 6 pp.
44. [Kaczmarek M., Nowakowski A., Renkielska A. Rating Burn Wounds by Dynamic Thermography // QIRT 2000, Reims, Francja](http://www-med.eti.pg.gda.pl/~mariusz/abstrakty.html#QIRTburns). Quant InfraRed Thermogr. 2000;5:376-381.
45. Kaczmarek M., Nowakowski A., Renkielska A. et al. Investigation of skin burns basing on active thermography // Proceedings of 23rd Annual International Conference of the IEEE Engineering in Medicine and Biology Society, Istanbul, 2001, 4 str., 6 rys., 9 poz. bibl.
46. Kaiser M., Yafi A., Cinat M. et al. Noninvasive assessment of burn wound severity using optical technology: a review of current and future modalities // Burns J Int Soc Burn Inj. 2011 May; 37 (3):377-386.
47. Karwowski W. Clinical application of thermography as a noninvasive method of diagnosis and classification of burns. Current state and prospects of development // Conference organized by Polish Society for Burn Treatment - “Guidelines for the treatment of burns – current problems and perspectives” - Zakopane, Poland, 2016.
48. Larson R.H., Woodbeck G., Webster D.R. Thermographic assessment of burns and frostbite // Can. Med. Ass. J. 1961. 84, 1129.
49. Lawrence J.C., Bull J.P. Thermal conditions which cause skin burns // QIMechE, 1976. Vol. 5, No.3.
50. Lawson R.N., Gaston J.P. Temperature measurements of localized pathological processes // Ann NY Acad Sci 1964;121: 90-98. DOI: [10.1111/j.1749-6632.1964.tb13688.x](https://doi.org/10.1111/j.1749-6632.1964.tb13688.x)
51. Lawson R.N., Wlodek G.D., Webster D.R. Thermographic assessment of burns and frostbite // Can Med Assoc J. 1961 May 20;84(20):1129-1131. PMID: 13759724; PMCID: PMC1939622
52. Lee S-L., Lu Y-H. Modeling of bioheat equation for skin and a preliminary study on a noninvasive diagnostic method for skin burn wounds // Burns 2014; 40 (5) 930-939.
53. Liddington M.I., Shakespeare P.G. Timing of the thermographic assessment of burns // Burns 1996;22:26-28. doi: 10.1016/0305-4179(95)00076-3
54. Lin S., Fichera L., Fulton M.J., Webster III R.J. Don't get burned: thermal monitoring of vessel sealing using a miniature infrared camera // Proc. SPIE 10135, Medical Imaging 2017: Image-Guided Procedures, Robotic Interventions, and Modeling, 101350Y (3 March 2017). <https://doi.org/10.1117/12.2256031>
55. Martínez-Jiménez M.A., Ramirez-GarciaLuna J.L., Kolosovas-Machuca E.S. et al. Development and validation of an algorithm to predict the treatment modality of burn wounds using thermographic scans: Prospective cohort study // PLoS ONE; November 2018. 13(11): e0206477. 16 pp. DOI: 10.1371/journal.pone.0206477
56. Mason B.R., Graff A.J., Pegg S.P. Colour thermography in the diagnosis of the depth of burn injury // Burns Including Thermal Injury, 1981, vol. 7, P. 197-202. <http://dx.doi.org/10.1016/0305-4179(81)90065-6>
57. Medina-Preciado J.D., Kolosovas-Machuca E.S., Velez-Gomez E. et al., Noninvasive determination of burn depth in children by digital infrared thermal imaging // J. Biomed. Opt. 2013. 18(6), 061204. https://doi. org/10.1117/1.JBO.18.6.061204 PMID: 23111601
58. Mercer J.B., Løkebø J.E., de Weerd L. Thermography as an adjunct with other imaging modalities to evaluate the perfusion of freezing cold injuries // Proceedings of the 17th Congress of the Polish Association of Thermology, Zakopane, March15-17, 2013. Thermology international 2013, 23/2: 66. DOI: 10.13140/2.1.2429.3449
59. Miccio J., Parikh S., Marinaro X. et al. Forward-looking infrared imaging predicts ultimate burn depth in a porcine vertical injury progression model // Burns J Int Soc Burn Inj. 2016 Mar; 42(2):397-404.
60. Mifsud T., Modestini C., Mizzi A. et al. The Effects of Skin Temperature Changes on the Integrity of Skin Tissue: A Systematic Review // Advances in Skin & Wound Care 35(10):p 555-565, October 2022. DOI: 10.1097/01.ASW.0000833612.84272.da
61. Mladick R., Georgiade N., Thorne F. A clinical evaluation of the use of thermography in determining degree of burn injury // Plastic and Reconstructive Surgery. 1966; 38(6):512-518. doi: 10.1097/00006534-196638060-00003
62. Monstrey S., Hoeksema H., Verbelen J. et al. Assessment of burn depth and burn wound healing potential // Burns 2008;34:761-769.
63. Nergård S., Mercer J.B., de Weerd L. Perfusion dynamics in abdominal skin after free abdominal flap breast reconstruction using internal mammary vessels as recipient vessels. A clinical study using Dynamic Infrared Thermography // Thermology International 2018, 28(4)194-196.
64. Newman P., Pollock M., Reid W.H. James W.B. A practical technique for the thermographic estimation of burn depth: A preliminary report // Burns, September 1981, Vol. 7, Iss. 1, P. 59-63. <http://dx.doi.org/10.1016/0305-4179(81)90090-5>
65. Nicolas-Rodriguez E., Garcia-Martinez A., Molino-Pagan D. et al. Thermography as a Non-Ionizing Quantitative Tool for Diagnosing Burning Mouth Syndrome: Case-Control Study // Int. J. Environ. Res. Public Health 2022, 19, 8903. <https://doi.org/10.3390/ijerph19158903>
66. Nischwitz S.P., Luze H., Kamolz L.P. Thermal imaging via FLIR One – a promising tool in clinical burn care and research // Burns. 2020;46:988-989.
67. Norheim A.J., Borud E., Sagen T. et al. Use of dynamic thermography in diagnosing frostbite and non-freezing cold injuries in the Norwegian armed forces (extended abstract) // Thermology International 2015, 25(1) 27.
68. Norheim A.J., Mercer J., de Weerd L. et al. [Thermography in cold injuries in the military] [Termografi ved frostskader i Forsvaret] Tidsskrift for den Norske lægeforening: tidsskrift for praktisk medicin ny række 2014; 134 (17), p. 1645. [in Norwegian]
69. Norheim A.J., Mercer J., Musial F., de Weerd L. A new treatment for frostbite sequelae; Botulinum toxin // International Journal of Circumpolar Health, 2017;76: 1273677. 5 pp. <http://dx.doi.org/10.1080/22423982.2016.127367>
70. Nowakowski A. Quantitative active dynamic thermal IR-imaging and thermal tomography in medical diagnostics. In: Diakides NA, Bronzino JD, editors. Medical infrared imaging. Boca Raton, FL: CRC Taylor & Francis; 2008: p. 7-1–7-29.
71. Nowakowski A., Kaczmarek M. Active dynamic thermography – problems of implementation in medical diagnostics // QIRT J. 2011; 8(1): 89-106.
72. Otsuka K. et al. Imaging of skin thermal properties with estimation of ambient radiation temperature // IEEE EMBS Mag. 2002. 21(6), 49-55.
73. Ponticorvo A., Rowland R., Baldado M. et al. Evaluating clinical observation versus Spatial Frequency Domain Imaging (SFDI), Laser Speckle Imaging (LSI) and thermal imaging for the assessment of burn depth // Burns, October 2018, 45(2).DOI: [10.1016/j.burns.2018.09.026](https://www.researchgate.net/deref/http%3A%2F%2Fdx.doi.org%2F10.1016%2Fj.burns.2018.09.026?_sg%5B0%5D=i6qO03E2I7Rnwm-tght6Lh8ARU0FskJrN86OgMeoXOF_fCP0nYwtUdLFsiIkjURBwNG4Atlpm_95ff-KjlsdN06p4A.4MxFlRxMxNw_4fQ_ILlfv7kzzcKLSAkqXUgl8n6dS3yNBn1SKHwwVucVMb-MWxxycZiMenKz8u85TN2q9gT7Kg&_sg%5B1%5D=BkEnARutR3tzARc3s9bOl23D39DLzXH33TewKPaEn1Q-xdleEXJMsAULrLQVL3u3beKwjB5_vnlb.zOjKoEpg8U8j8vRlYT6SI1kEnEQZbdTCHVbSstM7wnssXzJaTyuXhhxsfrT7w45ByACDUBoO11NTFyF4il_7dg)
74. Prindeze N.I., Fathi P., Mino M.J. et al. Examination of the Early Diagnostic Applicability of Active Dynamic Thermography for Burn Wound Depth Assessment and Concept Analysis // Journal of Burn Care & Research 2015; 36(6): 626-635. doi: 10.1097/BCR.0000000000000187
75. Prindeze N.J., Hoffman H.A., Ardanuy J.G. et al. Active dynamic thermography is a sensitive method for distinguishing burn wound conversion // Journal of Burn Care and Research 2016; 37 (6) e559-e568. doi: 10.1097/BCR.0000000000000296
76. Pushkar N.S., Sandorminsky B.P. Cold treatment of burns // Burns, November 1982, Volume 9, Issue 2, P. 101-110.
77. Renkielska A., Kaczmarek M., Karmoliński A. et al. Thermal imaging of skin burns (abstract) // Thermol Int 2003, 13: 79-80.
78. Renkielska A., Kaczmarek M., Nowakowski A. et al. Active dynamic infrared thermal imaging in burn depth evaluation // J. Burn Care Res. 2014 Sep-Oct. 35 (5): e294-303. DOI: [10.1097/BCR.0000000000000059](https://doi.org/10.1097/BCR.0000000000000059)
79. Renkielska A., Nowakowski A., Kaczmarek M. et al. Static thermography revisited – an adjunct method for determining the depth of the burn injury // Burns 2005;31(6):768-775. [[PubMed](https://www.ncbi.nlm.nih.gov/pubmed/15990239)]
80. Renkielska A., Nowakowski A., Kaczmarek M., Ruminski J. Burn depths evaluation based on active dynamic IR thermal imaging – A preliminary study // Burns. 2006; 32(7):867-875. [[PubMed](https://www.ncbi.nlm.nih.gov/pubmed/16997482)]
81. Renkielska A. et al. Thermal parametric imaging in the evaluation of skin burn depth // IEEE Trans. Biomed. Eng. 54(2), 303-312 (2007)
82. Renshaw A., Childs C. The significance of peripheral skin temperature measurement during the acute phase of burn injury. An illustrative case report // Burns 2000. 26 (8) 750-753.
83. Romero-Méndez R. et al. Analytical solution of the Pennes equation for burn-depth determination from infrared thermographs // Math. Med. Biol. 2010. 27(1), 21-38.
84. Rumiński J., Kaczmarek M., Renkielska A., Nowakowski A. Thermal parametric imaging in the evaluation of skin burn depth // IEEE Trans Biomed Eng 2007;54:303-312.
85. Schulz T., Marotz J., Seider S. et al. Burn depth assessment using hyperspectral imaging in a prospective single center study // Burns. 2022;48(5):1112-1119, <https://doi.org/10.1016/j.burns.2021.09.010>
86. Shakespeare P.G. Looking at burn wounds: the A.B.Wallace memorial lecture // Burns 18(4), 287-295 (1992).
87. Simmons J.D., Kahn S.A., Vickers A.L. et al. Early Assessment of Burn Depth with Far Infrared Time-Lapse Thermography // J Am Coll Surg. 2018 Apr; 226(4):687-693. DOI: [10.1016/j.jamcollsurg.2017.12.051](https://www.researchgate.net/deref/http%3A%2F%2Fdx.doi.org%2F10.1016%2Fj.jamcollsurg.2017.12.051?_sg%5B0%5D=EL1XpgJAaPfxxB1H9mYsXk4JJIvEHHkNTCP4nMyxMqUpE0ddoQzT5h6KgcjlaeSPZuJKBA1MaxZDMSQpXvsDonUYJQ.3tV8a9NG_xIMDWIA23PQZ0-Xjxic-xyHYbazi2iESzOvSUqMXKoEEXD2Domcg8dzi1c5ILmzukuHY9LbRHg7Ew&_sg%5B1%5D=MZUPJp995LwtUIvsINWqAVPDCM__WGKYzet79f3mqGNs-2l5zc4DnTsDeT5_zR2SNFyrMfynq62o.kJ_I0kmbElVXMIbiT2j_zijVXZo5FBfL6NTxojN_j2yXa9C_AsJVfHZ1B_AIK7P3A-94vCuxU8oSw7rre2lTBA) PMID: 29409904
88. Singer A.J., Relan P., Beto L. et al. Infrared thermal imaging has the potential to reduce unnecessary surgery and delays to necessary surgery in burn patients // Journal of Burn Care and Research 2016; 37 (6) 350-355.
89. Sowa A., Kepny A., Sakiel S. et al. [Use of thermography in the determination of burn depth] // Wiad Lek 1979;32:537-540. [in Polish]
90. Struzyna J., Sowa A. [Thermographic determination of the laser-knife necrectomy on burned areas of the body] // Pol Tyg Lek 1980;35:153-155. [in Polish]
91. Viglianti B.L., Dewhirst M.W., Abraham J.P. et al. Rationalization of thermal injury quantification methods: application to skin burns // Burns, 2014. 40(5), 896-902.
92. Wearn C., Lee K.C., Hardwicke J. et al. Prospective comparative evaluation study of Laser Doppler Imaging and thermal imaging in the assessment of burn depth // Burns. 2018;44:124-133. doi: 10.1016/j.burns.2017.08.004
93. Wyllie F.J., Sutherland A.B. Measurement of surface temperature as an aid to the diagnosis of burn depth // Burns, 1991 Apr;17(2):123-127.
94. Xue E.Y., Chandler L.K., Viviano S.L., Keith J.D. Use of FLIR ONE Smartphone Thermography in Burn Wound Assessment // Ann Plast Surg. 2018 Apr;80(4 Suppl 4):S236-S238. doi: 10.1097/SAP.0000000000001363
95. Zhu W.-P., Xin X.-R. Study on the Distribution Pattern of Skin Temperature in Normal Chinese and Detection of the Depth of Early Burn Wound by Infrared Thermography // Annals of the New York Academy of Sciences, 1999, 888: 300-313. <https://doi.org/10.1111/j.1749-6632.1999.tb07964.x>