



DAFTAR PUSTAKA

- A.V. Rawlings and C.R. Harding. 2004, 'Moisturization and skin barrier function', *Dermatol Ther*, 17, pp. 43–48.
- Akdeniz, M. et al., 2018, 'TEWL reference values in healthy adults', *Br J Dermatol*, 179(5), pp. e204–e204. doi: 10.1111/bjd.17215.
- Alexander, H. et al., 2018, Research Techniques Made Simple: Transepidermal Water Loss Measurement as a Research Tool. *J Invest Dermatol*, 138(11), pp. 2295-2300.e1. doi: 10.1016/j.jid.2018.09.001.
- Angelova-Fischer, I., 2016, 'Irritants and Skin Barrier Function' *Curr Probl Dermatology (Switzerland)*, 49, pp. 80–89. doi: 10.1159/000441547.
- Armengot-Carbo, M., Hernández-Martín, Á. and Torrelo, A., 2015, 'Filagrina: papel en la barrera cutánea y en el desarrollo de patología', *Actas Dermosifiliogr*, 106(2), pp. 86–95. doi: 10.1016/j.ad.2013.10.019.
- Baroni, A. et al., 2012, 'Structure and function of the epidermis related to barrier properties', *Clin Dermatol*, 30(3), pp. 257–262. doi: 10.1016/j.clindermatol.2011.08.007.
- Berardesca, E., Farage, M. and Maibach, H., 2013, 'Sensitive skin: An overview', *Int J Cosmet Sci*, 35(1), pp. 2–8. doi: 10.1111/j.1468-2494.2012.00754.x.
- de Boer, F. L., van der Molen, H. F. and Kezic, S., 2023, 'Epidermal biomarkers of the skin barrier in atopic and contact dermatitis', *Contact Dermatitis*, 89(4), pp. 221–229. doi: 10.1111/cod.14391.
- Bosma, A. L. et al., 2023, 'Comparison of real-world treatment outcomes of systemic immunomodulating therapy in atopic dermatitis patients with dark and light skin types', *JAAD Int*, 10, pp. 14–24. doi: 10.1016/j.jdin.2022.09.006.
- Bouwstra, J. A. et al., 2023, 'The skin barrier: An extraordinary interface with an exceptional lipid organization', *Prog Lipid Res*, 92. doi: 10.1016/j.plipres.2023.101252.
- Brancaleon, L. et al., 2001, 'Attenuated total reflection-fourier transform infrared spectroscopy as a possible method to investigate biophysical parameters of stratum corneum in vivo', *J Invest Dermatol*, 116(3), pp. 380–386. doi: 10.1046/j.1523-1747.2001.01262.x.
- Brenaut, E. et al., 2020, 'Triggering factors in sensitive skin from the worldwide patients' point of view: a systematic literature review and meta-analysis', *J Eur Acad Dermatology Venereol*, 34(2), pp. 230–238. doi: 10.1111/jdv.15985.
- Brooks, S. G. et al., 2024, 'The Skin Acid Mantle: An Update on Skin pH', *J Invest Dermatol*, pp. 1–13. doi: 10.1016/j.jid.2024.07.009.
- Buhé, V. et al., 2016, 'Pathophysiological study of sensitive skin', *Acta Derm Venereol*, 96(3), pp. 314–318. doi: 10.2340/00015555-2235.
- Cho, H. J. et al., 2012, 'Quantitative study of stratum corneum ceramides contents in patients with sensitive skin', *J Dermatol*, 39(3), pp. 295–300. doi:



10.1111/j.1346-8138.2011.01406.x.

- Clarys, P. *et al.*, 2012, 'Hydration measurements of the stratum corneum: Comparison between the capacitance method (digital version of the Corneometer CM 825®) and the impedance method (Skicon-200EX®)', *Ski Res Technol*, 18(3), pp. 316–323. doi: 10.1111/j.1600-0846.2011.00573.x.
- Dąbrowska, A. K. *et al.*, 2018, 'The relationship between skin function, barrier properties, and body-dependent factors', *Ski Res Technol*, 24(2), pp. 165–174. doi: 10.1111/srt.12424.
- Darlenski, R. *et al.*, 2009, 'Non-invasive in vivo methods for investigation of the skin barrier physical properties', *Eur J Pharm Biopharm*, 72(2), pp. 295–303. doi: 10.1016/j.ejpb.2008.11.013.
- Diogo, L. and Papoila, A. L., 2010, 'Is it possible to characterize objectively sensitive skin?', *Ski Res Technol*, 16(1), pp. 30–37. doi: 10.1111/j.1600-0846.2009.00404.x.
- Do, L. H. D., Azizi, N. and Maibach, H., 2020, 'Sensitive Skin Syndrome: An Update', *Am J Clin Dermatol*, 21(3), pp. 401–409. doi: 10.1007/s40257-019-00499-7.
- Du, H. Y. *et al.*, 2016, 'The Expression and Regulation of Interleukin-33 in Human Epidermal Keratinocytes: A New Mediator of Atopic Dermatitis and Its Possible Signaling Pathway', *J Interf Cytokine Res*, pp. 552–562. doi: 10.1089/jir.2015.0159.
- Duarte, I. *et al.*, 2017 'Sensitive skin: Review of an ascending concept', *An Bras Dermatol*, 92(4), pp. 521–525. doi: 10.1590/abd1806-4841.201756111.
- Egawa, G. and Kabashima, K., 2018, 'Barrier dysfunction in the skin allergy', *Allergol Int*, 67(1), pp. 3–11. doi: 10.1016/j.alit.2017.10.002.
- Ehni-Pérez, A. *et al.*, 2016, 'Relationship between transient receptor potential vanilloid-1 expression and the intensity of sensitive skin symptoms', *J Cosmet Dermatol*, 15(3), pp. 231–237. doi: 10.1111/jocd.12204.
- Elkeeb, R. *et al.*, 2010, 'Correlation of transepidermal water loss with skin barrier properties in vitro: Comparison of three evaporimeters', *Ski Res Technol*, 16(1), pp. 9–15. doi: 10.1111/j.1600-0846.2009.00406.x.
- Falcone, D. *et al.*, 2017, 'Risk factors associated with sensitive skin and potential role of lifestyle habits: a cross-sectional study', *Clin Exp Dermatol*, 42(6), pp. 656–658. doi: 10.1111/ced.13133.
- Farage, M. A., 2009, 'How do perceptions of sensitive skin differ at different anatomical sites? An epidemiological study', *Clin Exp Dermatol*, 34(8), pp. 521–530. doi: 10.1111/j.1365-2230.2009.03487.x.
- Farage, M. A., 2019, 'The Prevalence of Sensitive Skin', *Front Med*, 6(May), pp. 1–13. doi: 10.3389/fmed.2019.00098.
- Fluhr, J. W. *et al.*, 2024, 'Epidermal barrier function in dry, flaky and sensitive skin: A narrative review', *J Eur Acad Dermatology Venereol*, 38(5), pp. 812–820. doi: 10.1111/jdv.19745.
- Georgieva, F., 2021, 'the Skin Barrier in Sensitive Skin Syndrome', *J IMAB* -



- Annual Proceeding (Scientific Papers)*, 27(4), pp. 4120–4124. doi: 10.5272/jimab.2021274.4120.
- Goleva, E., Berdyshev, E. and Leung, D. Y. M., 2019, ‘Epithelial barrier repair and prevention of allergy’, *J Clin Invest*, 129(4), pp. 1463–1474. doi: 10.1172/JCI124608.
- Heinrich, U. *et al.*, 2003 ‘Multicentre comparison of skin hydration in terms of physical-, physiological- and product-dependent parameters by the capacitive method (Corneometer CM 825)’, *Int J Cosmet Sci*, 25(1–2), pp. 45–53. doi: 10.1046/j.1467-2494.2003.00172.x.
- Honari, G., Andersen, R. M. and Maibach, H., 2017, ‘Sensitive skin syndrome’ second edition, *Sensitive Skin Syndrome, Second Edition*. doi: 10.1201/9781315121048.
- Huet, F. *et al.*, 2018, ‘Sensitive skin can be small fibre neuropathy: results from a case-control quantitative sensory testing study’, *Br J Dermatol*, 179(5), pp. 1157–1162. doi: 10.1111/bjd.17082.
- Inamadar, A. C. and Palit, A., 2013, ‘Sensitive skin: An overview’, *Indian J Dermatol Venereol Leprol*, 79(1), pp. 9–16. doi: 10.4103/0378-6323.104664.
- Jansen van Rensburg, S., Franken, A. and Du Plessis, J. L., 2019, ‘Measurement of transepidermal water loss, stratum corneum hydration and skin surface pH in occupational settings: A review’, *Ski Res Technol*, 25(5), pp. 595–605. doi: 10.1111/srt.12711.
- Kim, E. J. *et al.*, 2015, ‘Adiponectin Deficiency Contributes to Sensitivity in Human Skin’, *J Invest Dermatol*, 135(9), pp. 2331–2334. doi: 10.1038/jid.2015.150.
- Kim, Y. R. *et al.*, 2018, ‘Sensitive skin in Korean population: An epidemiological approach’, *Ski Res Technol*, 24(2), pp. 229–234. doi: 10.1111/srt.12418.
- Kleesz, P., Darlenski, R. and Fluhr, J. W., 2011, ‘Full-body skin mapping for six biophysical parameters: Baseline values at 16 anatomical sites in 125 human subjects’, *Skin Pharmacol Physiol*, 25(1), pp. 25–33. doi: 10.1159/000330721.
- Koseki, K. *et al.*, 2020, ‘Assessment of skin barrier function using skin images with topological data analysis’, *npj Syst Biol Appl*, 6(1). doi: 10.1038/s41540-020-00160-8.
- Lambers, H. *et al.*, 2006, ‘Natural skin surface pH is on average below 5, which is beneficial for its resident flora’, *Int J Cosmet Sci*, 28(5), pp. 359–370. doi: 10.1111/j.1467-2494.2006.00344.x.
- Lee, E. *et al.*, 2006, ‘Comparison and Correlation Between Stinging Responses With Lactic Acid Stinging Test and Bioengineering Parameters’, *Dermatitis*, 17(2), p. 101. doi: 10.1097/01206501-200606000-00029.
- Legeas, C. *et al.*, 2021, ‘Proposal for cut-off scores for sensitive skin on sensitive scale-10 in a group of adult women’, *Acta Derm Venereol*, 101(1), pp. 1–6. doi: 10.2340/00015555-3741.
- Luebberding, S., Krueger, N. and Kerscher, M., 2013, ‘Age-related changes in skin



- barrier function - Quantitative evaluation of 150 female subjects', *Int J Cosmet Sci*, 35(2), pp. 183–190. doi: 10.1111/ics.12024.
- Misery, L. *et al.*, 2011, 'Sensitive skin in the American population: Prevalence, clinical data, and role of the dermatologist', *Int J Dermatol*, 50(8), pp. 961–967. doi: 10.1111/j.1365-4632.2011.04884.x.
- Misery, L. *et al.*, 2014, 'A new ten-item questionnaire for assessing sensitive skin: The sensitive scale-10', *Acta Derm Venereol*, 94(6), pp. 635–639. doi: 10.2340/00015555-1870.
- Misery, L. *et al.*, 2017, 'Definition of sensitive skin: An expert position paper from the special interest group on sensitive skin of the international forum for the study of itch', *Acta Derm Venereol*, 97(1), pp. 4–6. doi: 10.2340/00015555-2397.
- Misery, L. *et al.*, 2018, 'Development and validation of a new tool to assess the Burden of Sensitive Skin (BoSS)', *J Eur Acad Dermatology Venereol*, 32(12), pp. 2217–2223. doi: 10.1111/jdv.15186.
- Misery, L. *et al.*, 2020, 'Pathophysiology and management of sensitive skin: position paper from the special interest group on sensitive skin of the International Forum for the Study of Itch (IFSI)', *J Eur Acad Dermatology Venereol*, 34(2), pp. 222–229. doi: 10.1111/jdv.16000.
- Misery, L., Loser, K. and Ständer, S., 2016, 'Sensitive skin', *J Eur Acad Dermatology Venereol*, 30, pp. 2–8. doi: 10.1111/jdv.13532.
- Pan, Y. *et al.*, 2021, 'Questionnaire and lactic acid sting test play different role on the assessment of sensitive skin: A cross-sectional study', *Clin Cosmet Investig Dermatol*, 14, pp. 1215–1225. doi: 10.2147/CCID.S325166.
- Parke, M. A. *et al.*, 2021, 'Diet and Skin Barrier: The Role of Dietary Interventions on Skin Barrier Function', *Dermatol Pract Concept*, 11(1), p. e2021132. doi: 10.5826/dpc.1101a132.
- Pinto, P. *et al.*, 2011, 'Is there any barrier impairment in sensitive skin?: A quantitative analysis of sensitive skin by mathematical modeling of transepidermal water loss desorption curves', *Ski Res Technol*, 17(2), pp. 181–185. doi: 10.1111/j.1600-0846.2010.00478.x.
- Du Plessis, J. *et al.*, 2013, 'International guidelines for the in vivo assessment of skin properties in non-clinical settings: Part 2. transepidermal water loss and skin hydration', *Ski Res Technol*, 19(3), pp. 265–278. doi: 10.1111/srt.12037.
- Polena, H. *et al.*, 2021, 'Burden of Sensitive Skin (BoSS) Questionnaire and Current Perception Threshold: Use as Diagnostic Tools for Sensitive Skin Syndrome', *Acta Derm Venereol*, 101(11), pp. 1–6. doi: 10.2340/ACTADV.V101.365.
- Primavera, G. and Berardesca, E., 2005, 'Sensitive skin: Mechanisms and diagnosis', *Int J Cosmet Sci*, 27(1), pp. 1–10. doi: 10.1111/j.1467-2494.2004.00243.x.
- Rajkumar, J. *et al.*, 2023, 'The Skin Barrier and Moisturization: Function, Disruption, and Mechanisms of Repair', *Skin Pharmacol Physiol*, 36(4), pp. 174–185. doi: 10.1159/000534136.



- Renert-Yuval, Y. *et al.*, 2021, 'Biomarkers in atopic dermatitis—a review on behalf of the International Eczema Council', *J Allergy Clin Immunol*, 147(4), pp. 1174–1190.e1. doi: 10.1016/j.jaci.2021.01.013.
- Richters, R. *et al.*, 2015, 'What is sensitive skin? A systematic literature review of objective measurements', *Skin Pharmacol Physiol*, 28(2), pp. 75–83. doi: 10.1159/000363149.
- Richters, R. J. H. *et al.*, 2017, Sensitive Skin: Assessment of the Skin Barrier Using Confocal Raman Microspectroscopy', *Skin Pharmacol Physiol*, 30(1), pp. 1–12. doi: 10.1159/000452152.
- Rogiers, V., 2001, 'EEMCO guidance for the assessment of transepidermal water loss in cosmetic sciences', *Skin Pharmacol Physiol*, 14(2), pp. 117–128. doi: 10.1159/000056341.
- Schmid-Wendtner, M. H. and Korting, H. C., 2006, 'The pH of the skin surface and its impact on the barrier function', *Skin Pharmacol Physiol*, 19(6), pp. 296–302. doi: 10.1159/000094670.
- Shah, M. G. and Maibach, H. I., 2001, 'Estrogen and skin: An overview', *Am J Clin Dermatol*, 2(3), pp. 143–150. doi: 10.2165/00128071-200102030-00003.
- Van Smeden, J. and Bouwstra, J. A., 2016, 'Stratum Corneum Lipids: Their Role for the Skin Barrier Function in Healthy Subjects and Atopic Dermatitis Patients', *Curr Probl Dermatology (Switzerland)*, 49, pp. 8–26. doi: 10.1159/000441540.
- Ständer, S. *et al.*, 2009, 'Putative neuronal mechanisms of sensitive skin', *Exp Dermatol*, 18(5), pp. 417–423. doi: 10.1111/j.1600-0625.2009.00861.x.
- Sukma, P. M. G. *et al.*, 2022, 'Sensitive Skin: a New Entity Perspective', *Berk Kedokt*, 18(1), p. 101. doi: 10.20527/jbk.v18i1.12850.
- Talagas, M. and Misery, L., 2019, 'Role of Keratinocytes in Sensitive Skin', *Front Med*, 6(May), pp. 1–7. doi: 10.3389/fmed.2019.00108.
- Verdier-Sévrain, S. and Bonté, F., 2007, 'Skin hydration: A review on its molecular mechanisms', *J Cosmet Dermatol*, 6(2), pp. 75–82. doi: 10.1111/j.1473-2165.2007.00300.x.
- Wu, Y., Wangari-Olivero, J. and Zhen, Y., 2021, 'Compromised Skin Barrier and Sensitive Skin in Diverse Populations', *Journal of Drugs in Dermatology*, pp. 17–22. doi: 10.36849/JDD.589C.
- Yatagai, T. *et al.*, 2018, 'Sensitive skin is highly frequent in extrinsic atopic dermatitis and correlates with disease severity markers but not necessarily with skin barrier impairment', *J Dermatol Sci*, 89(1), pp. 33–39. doi: 10.1016/j.jdermsci.2017.10.011.
- Zhang, Y. *et al.*, 2021, 'An herbal cream reduces erythema of sensitive skin', *J Cosmet Dermatol*, 20(3), pp. 792–797. doi: 10.1111/jocd.13610.