

## DAFTAR PUSTAKA

1. Alhaji MM, Lai A, Naing L, Tuah NA. Self-Reported Skin Disorders Among Health Care Workers. *Workplace Health and Safety* [Internet]. 2019 Jun 1 [cited 2021 Dec 9];67(6):294–301. Available from: <https://journals.sagepub.com/doi/10.1177/2165079918795958>
2. Deo PN, Deshmukh R. Pathophysiology of keratinization. *Journal of oral and maxillofacial pathology: JOMFP* [Internet]. 2018 Jan 1 [cited 2021 Dec 8];22(1):86–91. Available from: <https://pubmed.ncbi.nlm.nih.gov/29731562/>
3. Alluhayyan OB, Alshahri BK, Farhat A, Alsugair S, Siddiqui JJ, Alghabawy K, et al. Occupational-Related Contact Dermatitis: Prevalence and Risk Factors Among Healthcare Workers in the Al'Qassim Region, Saudi Arabia During the COVID-19 Pandemic. *Cureus*. 2020 Oct 16.
4. Bambi S, Giusti GD, Galazzi A, Mattiussi E, Comisso I, Manici M, et al. Pressure Injuries Due to Personal Protective Equipment in COVID-19 Critical Care Units. *American Journal of Critical Care* [Internet]. 2021 Jul 1 [cited 2021 Dec 8];30(4):287–93. Available from: <https://doi.org/10.4037/ajcc2021178>
5. Brienza D, Antokal S, Herbe L, Logan S, Maguire J, van Ranst J, et al. Friction-induced skin injuries-are they pressure ulcers? An updated NPUAP white paper. *Journal of wound, ostomy, and continence nursing: official publication of The Wound, Ostomy and Continence Nurses Society* [Internet]. 2015 Jan 13 [cited 2021 Dec 6];42(1):62–4. Available from: <https://pubmed.ncbi.nlm.nih.gov/25549310/>
6. Calderwood SK, Wang Y, Xie X, Khaleque MA, Chou SD, Murshid A, et al. Signal Transduction Pathways Leading to Heat Shock Transcription. *Signal transduction insights* [Internet]. 2010 Jan [cited 2021 Dec 6];2: STI.S3994. Available from: <https://pubmed.ncbi.nlm.nih.gov/21687820/>
7. Choi SY, Hong JY, Kim HJ, Lee GY, Cheong SH, Jung HJ, et al. Mask-induced dermatoses during the COVID-19 pandemic: a questionnaire-based study in 12 Korean hospitals. *Clinical and experimental dermatology* [Internet]. 2021 Dec 1 [cited 2021 Dec 6];46(8). Available from: <https://pubmed.ncbi.nlm.nih.gov/34081799/>
8. Christopher PM, Roren RS, Tania C, Jayadi NN, Cucunawangsih C. Adverse Skin Reactions to Personal Protective Equipment among Health-Care Workers during

- COVID-19 Pandemic: A Multicenter Cross-sectional Study in Indonesia. *International Journal of Dermatology and Venereology*. 2020 Dec 1;3(4):211–8.
9. Dai YX, Yeh FY, Chou YJ, Chang YT, Chen TJ, Li CP, et al. Cigarette smoking and risk of rosacea: a nationwide population-based cohort study. *Journal of the European Academy of Dermatology and Venereology* [Internet]. 2020 Nov 1 [cited 2021 Dec 6];34(11):2593–9. Available from: <https://onlinelibrary.wiley.com/doi/full/10.1111/jdv.16595>
  10. Sausan 16711159. Pengaruh Pemakaian Losion Ekstrak Daun Kelor (*Moringa oleifera*) terhadap Kelembapan Kulit. 2020 [cited 2021 Dec 9]; Available from: <https://dspace.uui.ac.id/handle/123456789/28660>
  11. Davey SL, Lee BJ, Robbins T, Randeva H, Thake CD. Heat stress and PPE during COVID-19: impact on healthcare workers' performance, safety and well-being in NHS settings. *The Journal of Hospital Infection* [Internet]. 2021 Feb 1 [cited 2021 Dec 6];108:185. Available from: [/pmc/articles/PMC7720696/](https://pubmed.ncbi.nlm.nih.gov/34720696/)
  12. Daye M, Cihan FG, Durduran Y. Evaluation of skin problems and dermatology life quality index in health care workers who use personal protection measures during COVID-19 pandemic. *Dermatologic Therapy* [Internet]. 2020 Nov 1 [cited 2021 Nov 29];33(6):e14346. Available from: <https://onlinelibrary.wiley.com/doi/full/10.1111/dth.14346>
  13. Derrickson B, Tortora G. *Tortora's Principles of anatomy & physiology*. 15th ed. Hoboken, New Jersey: John Wiley & Sons, Inc; 2017.
  14. Dzinamarira T, Mhango M, Dzobo M, Ngara B, Chitungo I, Makanda P, et al. Risk factors for COVID-19 among healthcare workers. A protocol for a systematic review and meta-analysis. *PLoS ONE*. 2021 May 1;16(5 May).
  15. Edsberg LE, Black JM, Goldberg M, McNichol L, Moore L, Sieggreen M. Revised National Pressure Ulcer Advisory Panel Pressure Injury Staging System. *Journal of Wound, Ostomy and Continence Nursing* [Internet]. 2016 Nov 28 [cited 2021 Dec 8];43(6):585–97. Available from: [https://journals.lww.com/jwocnonline/Fulltext/2016/11000/Revised\\_National\\_Pressure\\_Ulcer\\_Advisory\\_Panel.3.aspx](https://journals.lww.com/jwocnonline/Fulltext/2016/11000/Revised_National_Pressure_Ulcer_Advisory_Panel.3.aspx)

16. Farci F, Mahabal GD. Hyperkeratosis. Encyclopedia of Parasitology [Internet]. 2021 Sep 9 [cited 2021 Dec 8];1311–1311. Available from: <https://www.ncbi.nlm.nih.gov/books/NBK562206/>
17. Barrett K, Barman S, Yuan J, Brooks H. Ganong's Review of Medical Physiology. 26th ed. New York, N.Y.: McGraw-Hill Education LLC.; 2019.
18. Hajhosseini B, Longaker MT, Gurtner GC. Pressure Injury. Annals of surgery [Internet]. 2020 Apr 1 [cited 2021 Dec 6];271(4):671–9. Available from: <https://pubmed.ncbi.nlm.nih.gov/31460882/>
19. Hall J. Guyton and Hall textbook of medical physiology. 13th ed. Philadelphia, PA: Elsevier; 2015.
20. Hamm R. Text and atlas of wound diagnosis and treatment. 1st ed. Australia: McGraw-Hill Education; 2014.
21. He Z, Marrone G, Ou A, Liu H, Ma L, Huang Y, et al. Factors affecting health-related quality of life in patients with skin disease: Cross-sectional results from 8,789 patients with 16 skin diseases. Health and Quality of Life Outcomes [Internet]. 2020 Sep 4 [cited 2021 Dec 6];18(1):1–9. Available from: <https://hqlo.biomedcentral.com/articles/10.1186/s12955-020-01542-6>
22. Pereverzev A. On the definition of heat current for periodic systems and its implications for simulations of thermal conductivity in solids. 2022 Feb 10 [cited 2023 december 23]; Available from: <https://arxiv.org/abs/2202.05196v1>
23. Hu K, Fan J, Li X, Gou X, Li X, Zhou X. The adverse skin reactions of health care workers using personal protective equipment for COVID-19. Medicine. 2020 Jun 12;99(24):e20603.
24. Bedah Onkologi D. Dampak Pandemi COVID-19 pada Pelayanan Pasien Kanker di Rumah Sakit Tersier di Indonesia: Serial Kasus Putu Anda Tusta Adiputra. [cited 2023 Jan 24]; Available from: <https://ojs.unud.ac.id/index.php/jbn>
25. James W, Elston D, Treat J, Rosenbach M, Neuhaus I, Andrews G. Andrews' diseases of the skin. 13th ed. Edinburgh: Elsevier; 2020.
26. Jiang Q, Song S, Zhou J, Liu Y, Chen A, Bai Y, et al. The Prevalence, Characteristics, and Prevention Status of Skin Injury Caused by Personal Protective Equipment among Medical Staff in Fighting COVID-19: A Multicenter, Cross-Sectional Study. Advances in Wound Care. 2020 Jul 1;9(7):357–64.

27. Jobanputra RD, Hayes J, Royyuru S, Masen MA. A numerical analysis of skin–PPE interaction to prevent facial tissue injury. *Scientific Reports* 2021 11:1 [Internet]. 2021 Aug 10 [cited 2021 Dec 7];11(1):1–10. Available from: <https://www.nature.com/articles/s41598-021-95861-3>
28. Kumar B, Chatterjee S, Agrawal A, Bhardwaj R. Evaluating a transparent coating on a face shield for repelling airborne respiratory droplets. *Physics of Fluids* [Internet]. 2021 Nov 11 [cited 2021 Dec 8];33(11):111705. Available from: <https://aip.scitation.org/doi/abs/10.1063/5.0073724>
29. Lee J, Venugopal V, Latha PK, Alhadad SB, Leow CHW, de Goh NY, et al. Heat Stress and Thermal Perception amongst Healthcare Workers during the COVID-19 Pandemic in India and Singapore. *International journal of environmental research and public health* [Internet]. 2020 Nov 1 [cited 2021 Dec 6];17(21):1–12. Available from: <https://pubmed.ncbi.nlm.nih.gov/33153079/>
30. Lou L, Chen K, Fan J. Advanced materials for personal thermal and moisture management of health care workers wearing PPE. *Materials Science and Engineering: R: Reports*. 2021 Oct 1;146:100639.
31. Mahoney MF, Rozenboom BJ. Definition and Characteristics of Chronic Tissue Injury: A Unique Form of Skin Damage. *Journal of Wound, Ostomy and Continence Nursing* [Internet]. 2019 May 1 [cited 2021 Dec 8];46(3):187–91. Available from: [https://journals.lww.com/jwoconline/Fulltext/2019/05000/Definition\\_and\\_Characteristics\\_of\\_Chronic\\_Tissue.3.aspx](https://journals.lww.com/jwoconline/Fulltext/2019/05000/Definition_and_Characteristics_of_Chronic_Tissue.3.aspx)
32. Martinengo L, Olsson M, Bajpai R, Soljak M, Upton Z, Schmidtchen A, et al. Prevalence of chronic wounds in the general population: systematic review and meta-analysis of observational studies. *Annals of Epidemiology*. 2019 Jan 1;29:8–15.
33. Masen MA, Chung A, Dawczyk JU, Dunning Z, Edwards L, Guyott C, et al. Evaluating lubricant performance to reduce COVID-19 PPE-related skin injury. *PLOS ONE* [Internet]. 2020 Sep 1 [cited 2021 Nov 22];15(9):e0239363. Available from: <https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0239363>
34. Medical Gloves | FDA [Internet]. [cited 2021 Nov 12]. Available from: <https://www.fda.gov/medical-devices/personal-protective-equipment-infection-control/medical-gloves>

35. Medical Gowns | FDA [Internet]. [cited 2021 Nov 12]. Available from: <https://www.fda.gov/medical-devices/personal-protective-equipment-infection-control/medical-gowns#g1>
36. N95 Respirators, Surgical Masks, Face Masks, and Barrier Face Coverings | FDA [Internet]. [cited 2021 Nov 10]. Available from: <https://www.fda.gov/medical-devices/personal-protective-equipment-infection-control/n95-respirators-surgical-masks-face-masks-and-barrier-face-coverings>
37. Infeksi Emerging Kementerian Kesehatan RI [Internet]. [cited 2021 Dec 9]. Available from: <https://infeksiemerging.kemkes.go.id/document/Petunjuk-Teknis-APD-dalam-Menghadapi-Wabah-COVID-19-875/view>
38. PEDOMAN STANDAR PERLINDUNGAN DOKTER ERA COVID19 – IDI JAKARTA PUSAT [Internet]. [cited 2021 Dec 8]. Available from: <https://idi-jakpus.com/index.php/2020/09/30/pedoman-standar-perlindungan-dokter-era-covid19/>
39. Peta Sebaran COVID-19 | Covid19.go.id [Internet]. [cited 2021 Sep 4]. Available from: <https://covid19.go.id/peta-sebaran-covid19>
40. Prevention and Treatment of Pressure Ulcers: Clinical Practice Guideline (in print) (in print) Disclaimer. [cited 2021 Dec 6]; Available from: [www.nzwcs.org.nz](http://www.nzwcs.org.nz)
41. Rational use of personal protective equipment for coronavirus disease (COVID-19) and considerations during severe shortages [Internet]. [cited 2021 Dec 8]. Available from: [https://www.who.int/publications/i/item/rational-use-of-personal-protective-equipment-for-coronavirus-disease-\(covid-19\)-and-considerations-during-severe-shortages](https://www.who.int/publications/i/item/rational-use-of-personal-protective-equipment-for-coronavirus-disease-(covid-19)-and-considerations-during-severe-shortages)
42. Ravanelli N, Imbeault P, Jay O, Carson R, Ainslie P, Jay O. Steady-state sweating during exercise is determined by the evaporative requirement for heat balance independently of absolute core and skin temperatures. *The Journal of Physiology* [Internet]. 2020 Jul 1 [cited 2021 Dec 6];598(13):2607–19. Available from: <https://onlinelibrary.wiley.com/doi/full/10.1113/JP279447>
43. Rout DP, Nair A, Gupta A, Kumar P. Epidermolytic hyperkeratosis: clinical update. *Clinical, Cosmetic and Investigational Dermatology* [Internet]. 2019 [cited 2021 Dec 7];12:333. Available from: [/pmc/articles/PMC6512611/](https://pubmed.ncbi.nlm.nih.gov/3412611/)

44. Shereen MA, Khan S, Kazmi A, Bashir N, Siddique R. COVID-19 infection: Origin, transmission, and characteristics of human coronaviruses. Vol. 24, Journal of Advanced Research. Elsevier B.V.; 2020. p. 91–8.
45. Sherwood L. Human physiology. 9th ed. Boston, MA, USA: Cengage Learning.
46. Smart H, Opinion FB, Darwich I, Elnawasany MA, Kodange C. Preventing Facial Pressure Injury for Health Care Providers Adhering to COVID-19 Personal Protective Equipment Requirements. *Advances in Skin & Wound Care* [Internet]. 2020 Aug 1 [cited 2021 Dec 8];33(8):418–27. Available from: </pmc/articles/PMC7342803/>
47. Sobolewski A, Młynarczyk M, Konarska M, Bugajska J. The influence of air humidity on human heat stress in a hot environment. <https://doi.org/10.1080/1080354820191699728> [Internet]. 2020 [cited 2021 Nov 22];27(1):226–36. Available from: <https://www.tandfonline.com/doi/abs/10.1080/10803548.2019.1699728>
48. Standar APD untuk Penanganan COVID-19 di Indonesia [Revisi 3] per tanggal 11 Agustus 2020 - Protokol | Covid19.go.id [Internet]. [cited 2021 Dec 8]. Available from: <https://covid19.go.id/p/protokol/standar-APD-untuk-penanganan-covid-19-di-indonesia-revisi-2-tanggal-11-agustus-2020>
49. Surya PA, Mustikaningtyas MH, Thirafi SZT, Pramitha AD, Mahdy LT, Munthe GM, et al. Literature Review: Occupational Safety and Health Risk Factors of Healthcare Workers during COVID-19 Pandemic. *The Indonesian Journal Of Occupational Safety and Health*. 2021 Mar 17;10(1):144.
50. Timeline of WHO's response to COVID-19 [Internet]. [cited 2021 Dec 6]. Available from: <https://www.who.int/emergencies/diseases/novel-coronavirus-2019/interactive-timeline>
51. Weaver DT, McElvany BD, Gopalakrishnan V, Card KJ, Crozier D, Dhawan A, et al. UV decontamination of personal protective equipment with idle laboratory biosafety cabinets during the COVID-19 pandemic. *PLOS ONE* [Internet]. 2021 Jul 1 [cited 2021 Dec 6];16(7):e0241734. Available from: <https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0241734>
52. Webb P. The physiology of heat regulation. <https://doi.org/10.1152/ajpregu.1995.268.4.R838> [Internet]. 1995 [cited 2021 Dec 6];268(4

- 37-4). Available from:  
<https://journals.physiology.org/doi/abs/10.1152/ajpregu.1995.268.4.R838>
53. Aharonov E, Scholz CH. A Physics-Based Rock Friction Constitutive Law: Steady State Friction. *J Geophys Res Solid Earth*. 2018 Feb 1;123(2):1591–614.
54. Burkert VD, Elouadrhiri L, Girod FX. The pressure distribution inside the proton. *Nature* 2018 557:7705 [Internet]. 2018 May 16 [cited 2023 Jan 31];557(7705):396–9. Available from: <https://www.nature.com/articles/s41586-018-0060-z>
55. Parlin AF, Stratton SM, Culley TM, Guerra PA. A laboratory-based study examining the properties of silk fabric to evaluate its potential as a protective barrier for personal protective equipment and as a functional material for face coverings during the COVID-19 pandemic. *PLOS ONE* [Internet]. 2020 Sep 1 [cited 2021 Dec 6];15(9): e0239531. Available from:
56. WHO Coronavirus (COVID-19) Dashboard | WHO Coronavirus (COVID-19) Dashboard With Vaccination Data [Internet]. [cited 2021 Sep 15]. Available from: <https://covid19.who.int/>
57. WHO guidelines on physical activity and sedentary behaviour [Internet]. [cited 2021 Dec 3]. Available from: <https://www.who.int/publications/i/item/9789240015128>
58. Why You Need to Take Your Medications as Prescribed or Instructed | FDA [Internet]. [cited 2021 Dec 3]. Available from: <https://www.fda.gov/drugs/special-features/why-you-need-to-take-your-medications-prescribed-or-instructed>
59. Wibowo PDB, Og S, Kesehatan P, Tri PD, Widyastoeti H, Rujukan K. TIM PENYUSUN. Petunjuk teknis APD
60. World Health Organization. Coronavirus disease 2019 (COVID-19):Situation report–1. Available from: [https://www.who.int/docs/default-source/searo/indonesia/covid19/who-indonesia-situation-report-1.pdf?sfvrsn=6be5b359\\_0](https://www.who.int/docs/default-source/searo/indonesia/covid19/who-indonesia-situation-report-1.pdf?sfvrsn=6be5b359_0)
61. Yin G, Wang Z, Wang Z, Wang X. Topical application of quercetin improves wound healing in pressure ulcer lesions. *Experimental Dermatology* [Internet]. 2018 Jul 1 [cited 2021 Dec 8];27(7):779–86. Available from: <https://onlinelibrary.wiley.com/doi/full/10.1111/exd.13679>
62. Zhang L. Keratins in Skin Epidermal Development and Diseases. *Keratin* [Internet]. 2018 Nov 5 [cited 2021 Dec 7]; Available from: <https://www.intechopen.com/chapters/62159>  
Zhou NY, Yang L, Dong LY, Li Y, An XJ, Yang J, et al. Prevention and Treatment of Skin Damage Caused by Personal Protective Equipment: Experience of the First-Linee

Clinicians Treating SARS-CoV-2 Infection. *International Journal of Dermatology and Venereology*. 2020 Jun 1;3(2):70–5.

63. Intan Kurniawati D. Pengaruh Penyuluhan Kesehatan Dengan Media Audio Visual Terhadap Perilaku Merokok Pada Remaja Di SMPN 1 - Umpo Repository [Internet]. [cited 2022 December 28]. Available from: <http://eprints.umpo.ac.id/8376/>
64. Hayran Y, Yalçın B. Smoking habits amongst patients with psoriasis and the effect of smoking on clinical and treatment-associated characteristics: A cross-sectional study. *International journal of clinical practice* [Internet]. 2021 Feb 1 [cited 2022 Dec 30];75(2). Available from: <https://pubmed.ncbi.nlm.nih.gov/33090605/>
65. Goodman GD, Kaufman J, Day D, Weiss R, Kawata AK, Garcia JK, et al. Impact of Smoking and Alcohol Use on Facial Aging in Women: Results of a Large Multinational, Multiracial, Cross-sectional Survey. *The Journal of Clinical and Aesthetic Dermatology* [Internet]. 2019 [cited 2022 Jan 3];12(8):28. Available from: </pmc/articles/PMC6715121/>
66. Nordic Occupational Skin Questionnaire - NOSQ-2002 [Internet]. [cited 2022 Jan 3]. Available from: <https://nfa.dk/da/Vaerktoejer/Sporgeskemaer/NOSQ-2002/NOSQ2002-UK>
67. Shamout Y, Adishes A. The Nordic Occupational Skin Questionnaire. *Occupational Medicine* [Internet]. 2016 Jan 1 [cited 2022 Jan 4];66(1):82–82. Available from: <https://academic.oup.com/occmed/article/66/1/82/2750589>
68. Gómez De Carvallo M, Calvo B, Benach J, Pujol R, Giménez-Arnau AM. Assessment of the Mathias criteria for establishing occupational causation of contact dermatitis. *Actas Dermosifiliogr*. 2012;103(5):411–21.
69. TARIGAN HP. HUBUNGAN PENGGUNAAN APD DENGAN KELAINAN KULIT PADA TENAGA KESEHATAN DI RUMAH SAKIT UMUM DAERAH DR. RM. DJOELHAM DI KOTA BINJAI. 2021 Dec 13 [cited 2022 Nov 14]; Available from: <http://repository.uhn.ac.id/handle/123456789/5758>
70. Alhaji MM, Lai A, Naing L, Tuah NA. Self-Reported Skin Disorders Among Health Care Workers. *Workplace Health Saf* [Internet]. 2019 Jun 1 [cited 2021 Dec 9];67(6):294–301. Available from: <https://journals.sagepub.com/doi/10.1177/2165079918795958>
71. Lin YC, Chen YC, Hwang BF, Chen CP. Acute dermal effects of solar UV irradiation and efficacy of sunscreen use. <https://doi.org/10.1080/2639594020222128883> [Internet]. 2022 [cited 2022 Nov 27];34(1):456–68. Available from: <https://www.tandfonline.com/doi/abs/10.1080/26395940.2022.2128883>
72. Gasparino RC, Helena M, Lima M, Railka A, Oliveira-Kumakura S, Abreu Da Silva V, et al.

Prophylactic dressings in the prevention of pressure ulcer related to the use of personal protective equipment by health professionals facing the COVID-19 pandemic: A randomized clinical trial. 2020 [cited 2022 Nov 16]; Available from: <https://onlinelibrary.wiley.com/doi/10.1111/wrr.12877>

73. Abiakam N, Worsley P, Jayabal H, Mitchell K, Jones M, Fletcher J, et al. Personal protective equipment related skin reactions in healthcare professionals during COVID-19. *Int Wound J*. 2021 Jun 1;18(3):312–22.
74. Pengaruh lama penggunaan masker di masa pandemi COVID-19 dengan kejadian Akne pada Mahasiswa FK UMSU Angkatan 2018 [Internet]. [cited 2022 Nov 28]. Available from: <http://repository.umsu.ac.id/handle/123456789/17525>
75. Tomazelli LC, de Assis Ramos MM, Sauce R, Cândido TM, Sarruf FD, de Oliveira Pinto CAS, et al. SPF enhancement provided by rutin in a multifunctional sunscreen. *Int J Pharm*. 2018 Dec 1;552(1–2):401–6.
76. Lephart ED. A review of the role of estrogen in dermal aging and facial attractiveness in women. *J Cosmet Dermatol* [Internet]. 2018 Jun 1 [cited 2022 Nov 30];17(3):282–8. Available from: <https://onlinelibrary.wiley.com/doi/full/10.1111/jocd.12508>

