

DAFTAR PUSTAKA

- Abdel-Malek, Z. A., Jordan, C., Ho, T., Upadhyay, P. R., Fleischer, A. and Hamzavi, I., 2020. The enigma and challenges of vitiligo pathophysiology and treatment. *Pigment Cell Melanoma.*, 33 (6), 778–787.
- Abdullahi, U., Mohammed, T. T. and Musa, B. O. P., 2021. Quality of Life Impairment amongst Persons Living with Vitiligo using Disease specific Vitiligo Quality of Life Index: A Nigerian Perspective. *Niger Postgrad Med J*, 28, 169–74.
- Adeboye, M. A. N., Eze, E., Abdulkarim, A. A. and Abdullahi, U., 2011. Amulets, Bands and Other Traditional Applications seen among Emergency and Neonatal Pediatric Admissions in a Tertiary Centre, Nigeria. *Oman Med J.*, 26 (5), 337–341.
- Aghaei, S., Sodaifi, M., Jafari, P., Mazharinia, N. and Finlay, A. Y., 2004. DLQI scores in vitiligo: Reliability and validity of the Persian version. *BMC Dermatol.*, 4, 8.
- Alghamdi, K. M., Kumar, A., Taïeb, A. and Ezzedine, K., 2012. Assessment methods for the evaluation of vitiligo. *J Eur Acad Dermatol Venereol.*, 26 (12), 1463–1471.
- Alhetheli, G. I., 2021. The Impact of Vitiligo on Patients' Psychological Status and Sexual Function: Cross-Sectional Questionnaire-Based Study. *The Open Dermatology Journal*, 15 (1), 23–30.
- Alikhan, A., Felsten, L. M., Daly, M. and Petronic-Rosic, V., 2011. Vitiligo: A comprehensive overview: Part I. Introduction, epidemiology, quality of life, diagnosis, differential diagnosis, associations, histopathology, etiology, and work-up. *J Am Acad Dermatol.*, 65 (3), 473–491.
- Allam, M. and Riad, H., 2013. Concise review of recent studies in vitiligo, prevalence and etiologic factors. *Qatar Med Journal*, 10 (2), 1–19.
- Arora, A. K. and Kumaran, M. S., 2017. Pathogenesis of vitiligo : An update. *Pigment Int.*, 4, 65–77.
- Asri, E. and Kampar, P., 2019. Hubungan vitiligo area scorinmg index (VASI) dengan dermatology life quality index (DLQI) pada pasien vitiligo di RSUP Dr. M. Djamil Padang Periode 2015-2016. *Jurnal Kesehatan Andalas*, 8 (3), 506–510.
- Bae, J., Lee, S., Kim, T., Yeom, S. and Shin, J., 2018. Factors affecting the quality of life in patients with vitiligo: A nationwide study. *Br J Dermatol*, 178 (1), 238–244.
- Bae, J. M., Kim, J. E., Lee, R., Ju, H. J., Han, J. H., Lee, J. H., Woo, Y. R., Lee, J. H., Bang, C. H., Park, C. J. and Ezzedine, K., 2020. Beyond the quality of life: a call for patients' own willingness to pay in chronic skin disease to assess psychosocial burden: a multicenter, cross-sectional prospective survey. *J Am Acad Dermatol.*, 85 (5), 1321–1324.
- Bassiouny, D., Hegazy, R., Esmat, S., Gawdat, H. I., Ahmed Ezzat, M., Tawfik, H. A., Hegazy, A. A. and Ibrahim, S., 2021. Cosmetic camouflage as an adjuvant to vitiligo therapies: Effect on quality of life. *J Cosmet Dermatol.*, 20 (1), 159–165.

- Belgaumkar, V. A., Chavan, R. B., Deshmukh, N. S. and Warke, N. V., 2020. Impact of Vitiligo on Quality of Life: A Cross-sectional Pilot Study from Western India. *J Skin and Stem Cell*, 7 (2).
- Bergqvist, C. and Ezzedine, K., 2020. Vitiligo: A Review. *Dermatology*, 236 (6), 571–592.
- Bhandarkar, S. S. and Kundu, R. V., 2012. Quality-of-Life Issues in Vitiligo. *Dermatologic Clinics*, 30 (2), 255–268.
- Bhor, U. and Pande, S., 2006. Scoring systems in dermatology. *Indian J Dermatol Venereol Leprol.*, 72 (4), 315–21.
- Boza, J., Giongo, N., Horn, R., Machado, P. and Cestari, T., 2015. Measurement of quality of life with a vitiligo-specific instrument (VITIQOL) in a sample living in southern Brazil. *J Am Acad Dermatol.*, 72 (5), AB220.
- Bulut, E., Şahin, B., Muğlalı, M. and Bekçioğlu, B., 2012. Comparison of the planimetry and point-counting methods for the assessment of the size of the mandible cysts on orthopantomograms. *Med Oral Patol Oral Cir Bucal.*, 17 (3), e442-6.
- Chaweeikulrat, P., Silpa-Archa, N., Apinuntham, C., Chaiyabutr, C. and Wongpraparut, C., 2021. Reliability, validity and feasibility of the vitiligo extent score (VES) and self-assessment vitiligo extent score (SA-VES) among vitiligo patients: A cross-cultural validation. *Clin Cosmet Investig Dermatol.*, 14, 949–957.
- Chen, C. Y., Wang, W. M., Chung, C. H., Tsao, C. H., Chien, W. C. and Hung, C. T., 2020. Increased risk of psychiatric disorders in adult patients with vitiligo: A nationwide, population-based cohort study in Taiwan. *J Dermatol.*, 47 (5), 470–475.
- Chen, D., Tuan, H. H., Zhou, E. Y., Liu, D. H. and Zhao, Y., 2019. Quality of life of adult vitiligo patients using camouflage: A survey in a Chinese vitiligo community. *PLoS ONE*, 14 (1), 1–11.
- Choi, S., Kim, D. Y., Whang, S. H., Lee, J. H., Hann, S. K. and Shin, Y. J., 2010. Quality of life and psychological adaptation of Korean adolescents with vitiligo. *J Eur Acad Dermatol Venereol. Acad Dermatol Venereol*, 24, 524–9.
- Coias, J., Hynan, L. S. and Pandya, A. G., 2018. Lack of correlation of the patient-derived Vitiligo Disease Activity Index with the clinician-derived Vitiligo Area Scoring Index. *J Am Acad Dermatol.*, 78 (5), 1015–1016.
- Collins, T. J., 2007. ImageJ for microscopy. *BioTechniques*, 43 (1 Suppl), 25–30.
- Cupertino, F., Niemeyer-Corbellini, J. P. and Ramos-e-Silva, M., 2017. Psychosomatic aspects of vitiligo. *Clin Dermatol.*, 35 (3), 292–297.
- Dharmasamitha, I. and Adiguna, M. S., 2019. Peran fototerapi pada vitiligo anak. *Media Dermato-Venereologica Indones.*, 46, 209–214.
- Dito and Ikrar, T., 2014. Vitiligo and Clinical. *CDK-220*, 41 (9), 666–675.
- Dolatshahi, M., Ghazi, P., Feizy, V. and Hemami, M., 2008. Life quality assessment among patients with vitiligo: Comparison of married and single patients in Iran. *Indian J Dermatol Venereol Leprol.*, 74 (6), 700.
- Ezzedine, K., Diallo, A., Léauté-Labrèze, C., Seneschal, J., Boniface, K., Cario-André, M., Prey, S., Ballanger, F., Boralevi, F., Jouary, T., Mossalayi, D. and Taieb, A., 2012. Pre- vs. post-pubertal onset of vitiligo: multivariate analysis

- indicates atopic diathesis association in pre-pubertal onset vitiligo. *Br J Dermatol.*, 167 (3), 490–5.
- Ezzedine, K., Eleftheriadou, V., Jones, H., Bibeau, K., Kuo, F. I., Sturm, D. and Pandya, A. G., 2021. Psychosocial Effects of Vitiligo: A Systematic Literature Review. *Am J Clin Dermatol.*, 22 (6), 757–774.
- Ezzedine, K., Eleftheriadou, V., Whitton, M. and van Geel, N., 2015. Vitiligo. *The Lancet*, 386 (9988), 74–84.
- Ezzedine, K., Grimes, P., Meurant, J., Seneschal, J., Leaute-Labreze, C. and Ballanger, F., 2015. Living with vitiligo: result from a national survey indicate difference between skin phototypes. *Br J Dermatol.*, 173 (2), 607–9.
- Ezzedine, K. and Harris, J. E., 2019. Vitiligo. In: Kang, S., Amagai, M., Bruckner, A. L., Enk, A. H., Margolis, D. J., M, M. A., and Orringer, J. S., eds. *Fitzpatrick's Dermatology*. New York: McGraw Hill, 1330–1350.
- Ezzedine, K., Lim, H. W., Suzuki, T., Katayama, I., Hamzavi, I., Lan, C. C. E., Goh, B. K., Anbar, T., de Castro, C. S., Lee, A. Y., Parsad, D., van Geel, N., Le Poole, I. C., Oiso, N., Benzekri, L., Spritz, R., Gauthier, Y., Hann, S. K., Picardo, M. and Taieb, A., 2012. Revised classification/nomenclature of vitiligo and related issues: the Vitiligo Global Issues Consensus Conference. *Pigment Cell Melanoma Res.*, 25 (3), E1-13.
- Falabella, R., Barona, M., Echeverri, I. and Alzate, A., 2003. Substance P may play a part during depigmentation in vitiligo. A pilot study. *J Eur Acad Dermatol Venereol.*, 17 (3), 355–6.
- Faria, A. R., Tarle, R. G., Dellatorre, G., Mira, M. T. and de Castro, C. C. S., 2014. Vitiligo-part 2-classification, histopathology and treatment. *An Bras Dermatol.*, 89 (5), 784–790.
- Fitria, Mulia, V. D. and Hafni, A., 2015. Analysis of Factors Affecting The Quality of Life in Vitiligo Patients at Dermato-Venereology Polyclinic dr. Zainoel Abidin General Hospital, Banda Aceh. *Proceedings of The 5th Annual International Conference Syiah Kuala University (AIC Unsyiah)*, 5 (2), 319–322.
- Florez-Pollack, S., Jia, G., Zapata, L., Rodgers, C., Hernandez, K., Hynan, L. S. and Pandya, A. G., 2017. Association of quality of life and location of lesions in patients with vitiligo. *JAMA Dermatol.*, 153 (3), 341–342.
- Gallagher, S. R., 2010. Digital image processing and analysis with imageJ. *Curr Protoc Essential Lab Tech.*, 9 (1), A.3C.1-A.3C.29.
- Gawkroder, D. J., Ormerod, A. D., Shaw, L., Mauri-Sole, I., Whitton, M. E., Watts, M. J., Anstey, A. V., Ingham, J. and Young, K., 2008. Guideline for the diagnosis and management of vitiligo. *Br J Dermatol.*, 159 (5), 1051–1076.
- van Geel, N., Lommerts, J., Bekkenk, M., Wolkerstorfer, A., Prinsen, C. A. C., Eleftheriadou, V., Taïeb, A., Picardo, M., Ezzedine, K. and Speeckaert, R., 2016. Development and Validation of the Vitiligo Extent Score (VES): an International Collaborative Initiative. *J Invest Dermatol.*, 136 (5), 978–984.
- van Geel, N., Passeron, T., Wolkerstorfer, A., Speeckaert, R. and Ezzedine, K., 2020. Reliability and validity of the Vitiligo Signs of Activity Score (VSAS). *Br J Dermatol.*, 183 (5), 883–890.
- van Geel, N., Speeckaert, R., Bekkenk, M., Wolkerstorfer, A., Prinsen, C.,

- Eleftheriadou, V., Ezzedine, K., Taieb, A., Passeron, T., Picardo, M., Harris, J., Pandya, A. and Hamzavi, I., 2022. *vitiligo calculator*. Corneel Heymanslaan.
- van Geel, N., Vandendriessche, D., Vandersichel, E., De Schepper, S., Grine, L., Mertens, L., Vandaele, V., Spoelders, F., Bekkenk, M., Wolkerstorfer, A., Prinsen, C. A. and Speeckaert, R., 2019. Reference method for digital surface measurement of target lesions in vitiligo: a comparative analysis. *Br J Dermatol*, 180 (5), 1198–1205.
- van Geel, N., Wolkerstorfer, A., Lommerts, J. E., Ezzedine, K., Eleftheriadou, V., Hamzavi, I., Harris, J., Picardo, M., Taieb, A., Prinsen, C. A. C., Bekkenk, M. and Speeckaert, R., 2018. Validation study of the Vitiligo Extent Score-plus. *J Am Acad Dermatol.*, 78 (5), 1013–1015.
- Georgieva, F., 2017. Psychoneuroimmunology and Impact of Stress. *Scripta Scientifica Medica*, 49 (2), 9–16.
- Ghafourian, E., Ghafourian, S., Sadeghifard, N., Mohebi, R., Shokoohin, Y., Nezamoleslami, S. and Hamat, R. ., 2014. Vitiligo : Symptoms, pathogenesis, and treatment. *Int J Immunopathol Pharmacol.*, 27, 485–489.
- Giantoro, J., Waskito, F. and Radiono, S., 2022. Uji Validitas dan Realibilitas Vitiligo Quality of Life Index (VitiQoL) Versi Bahasa Indonesia pada Pasien Vitiligo di Yogyakarta. *BIKKK.*, 34 (1), 52–58.
- Grimes, P. E. and Miller, M. M., 2018. Vitiligo: Patient stories, self-esteem, and the psychological burden of disease. *Int J Womens Dermatol.*, 4 (1), 32–37.
- Gupta, V., Sreenivas, V., Mehta, M., Khaitan, B. and Ramam, M., 2014. Measurement properties of the Vitiligo Impact Scale-22 (VIS-22), a vitiligo-specific quality-of-life instrument. *Br J Dermatol.*, 171 (5), 1084–90.
- Hamzavi, I., Jain, H., McLean, D., Shapiro, J., Zheng, H. and Lui, H., 2004. Parametric modeling of narrowband UV-B phototherapy for vitiligo using a novel quantitative tool: the Vitiligo Area Scoring Index. *Arch Dermatol.*, 140 (6), 677–83.
- Hann, S. . and Lee, H. J., 1996. Segmental vitiligo: clinical findings in 208 patients. *J Am Acad Dermatol.*, 35 (5 Pt 1), 671–4.
- Hedayat, K., Karbakhsh, M., Ghiasi, M., Goodarzi, A., Fakour, Y., Akbari, Z., Ghayoumi, A. and Ghandi, N., 2016. Quality of life in patients with vitiligo: A cross-sectional study based on Vitiligo Quality of Life index (VitiQoL). *Health Qual Life Outcomes.*, 14 (1), 1–9.
- Honeyman, J. F., 2016. Psychoneuroimmunology and the skin. *Acta Derm Venereol.*, 96 (217), 38–46.
- Ingordo, V., Cazzaniga, S., Medri, M., Raone, B., Digiuseppe, M. D., Musumeci, M. L., Romano, I., Fai, D., Pellegrino, M., Pezzarossa, E., Lernia, V. Di, Peccerillo, F., Battarra, V. C., Sirna, R., Patrizi, A. and Naldi, L., 2014. To what extent is quality of life impaired in vitiligo? A multicenter study on Italian patients using the dermatology life quality index. *Dermatology*, 229 (3), 240–247.
- Jha, A. K., Sonthalia, S., Lallas, A. and Chaudhary, R. K. P., 2018. Dermoscopy in vitiligo: Diagnosis and beyond. *Int. J. Dermatol.*, 57, 50–54.
- Jin, Y., Andersen, G., Yorgov, D., Ferrara, T. M., Ben, S., Brownson, K. M.,

- Holland, P. J., Birlea, S. A., Siebert, J., Hartmann, A., Lienert, A., van Geel, N., Lambert, J., Luiten, R. M., Wolkerstorfer, A., van der Veen, J. P. W., Bennett, D. C., Taïeb, A., Ezzedine, K., Kemp, E. H., Gawkrödger, D. J., Weetman, A. P., Köks, S., Prans, E., Kingo, K., Karelson, M., Wallace, M. R., McCormack, W. T., Overbeck, A., Korobko, I., Böhm, M., Lim, H. W., Hamzavi, I., Zhou, L. and Mi, Q., 2016. Genome-wide association studies of autoimmune vitiligo identify 23 new risk loci and highlight key pathways and regulatory variants. *Nat Genet.*, 48 (11), 1418–1424.
- Jusuf, N. K., Putra, I. B. and Utami, D. R., 2018. Quality of Life in Vitiligo Patients at H. Adam Malik General Hospital Medan, Indonesia. *Sumatera Medical Journal*, 1 (1), 41–48.
- Karelson, M., Silm, H. and Kingo, K., 2013. Quality of life and emotional state in vitiligo in an Estonian sample: comparison with psoriasis and healthy controls. *Acta Derm Venereol.*, 93, 446–450.
- Kawakami, T. and Hashimoto, T., 2011. Disease severity indexes and treatment evaluation criteria in vitiligo. *Dermatol Res Pract.*, 2011, 4–7.
- Kim, D. Y., Lee, J., Oh, S. H., Hann, S.-K. and Shin, Y. J., 2013. Impact of genital involvement on the sexual lives of vitiligo patients. *J Dermatol.*, 40 (12), 1065–7.
- Kiprono, S., Chaula, B., Makwaya, C., Naafs, B. and Masenga, J., 2013. Quality of life of patients with vitiligo attending the Regional Dermatology Training Center in Northern Tanzania. *International Journal of Dermatology*, 52 (2), 191–194.
- Komen, L., da Graça, V., Wolkerstorfer, A., de Rie, M. A., Terwee, C. B. and van der Veen, J. P. W., 2015. Vitiligo Area Scoring Index and Vitiligo European Task Force assessment: Reliable and responsive instruments to measure the degree of depigmentation in vitiligo. *Br J Dermatol.*, 172 (2), 437–443.
- Kostopoulou, P., Jouary, T., Quintard, B., Ezzedine, K., Marques, S., Boutchnei, S. and Taïeb, A., 2009. Objective vs. subjective factors in the psychological impact of vitiligo: the experience from a French referral centre. *Br J Dermatol.*, 161 (1), 128–33.
- Kruger, C., Smythe, J. W., Spencer, J. D., Hasse, S., Panske, A., Chiuchiarelli, G. and Schallreuter, K. U., 2011. Significant immediate and long-term improvement in quality of life and disease coping in patients with vitiligo after group climatotherapy at the Dead Sea. *Acta Derm Venereol.*, 91 (2), 152–9.
- Kussainova, A., Kassym, L., Akhmetova, A., Glushkova, N., Sabirov, U., Adilgozhina, S., Tuleutayeva, R. and Semenova, Y., 2020. Vitiligo and anxiety: A systematic review and meta-analysis. *PLoS ONE*, 15 (11), e0241445.
- Lang, K. S., Caroli, C. C., Muhm, A., Wernet, D., Moris, A., Schitteck, B., Knauss-Scherwitz, E., Stevanovic, S., Rammensee, H. G. and Garbe, C., 2001. HLA-A2 restricted, melanocyte-specific CD8(+) T lymphocytes detected in vitiligo patients are related to disease activity and are predominantly directed against MelanA/MART1. *J Invest Dermatol.*, 116 (6), 891–7.
- Lee, H., Lee, M. H., Lee, D. Y., Kang, H. Y., Kim, K. H., Choi, G. S., Shin, J., Lee, H. J., Kim, D. H., Kim, T. H., Lee, A. Y., Lee, S. C., Lee, S., Kim, K. W.,

- Hann, S. K., Park, C. J. and Oh, S. H., 2015. Prevalence of vitiligo and associated comorbidities in Korea. *Yonsei Med J.*, 56 (3), 719–725.
- Lei, T.-C., Xu, A.-E., Gao, T.-W., He, L., Gu, H., Li, M., Li, T.-N., Li, C.-Y., Lin, T., Mu, K.-H., Tu, C.-X., Wen, H., Wu, J.-Y., Zhang, J.-L., Zhen, Z.-Z. and The Vitiligo Expert Group of the Dermatovenereology Professional Committee, C. S. of I. C. and W. M., 2021. Consensus on the Diagnosis and Treatment of Vitiligo in China (2021 Revision). *International Journal of Dermatology and Venereology.*, 4 (1), 10–15.
- Lewis, V. and Finlay, A., 2004. 10 Years experience of the Dermatology Life Quality Index (DLQI). *J Investig Dermatology Symp Proc.*, 9 (2), 169–80.
- Lilly, E., Lu, P. D., Borovicka, J. H., Victorson, D., Kwasny, M. J., West, D. P. and Kundu, R. V., 2013. Development and validation of a vitiligo-specific quality-of-life instrument (VitiQoL). *J Am Acad Dermatol.*, 69 (1), e11–e18.
- Linthorst Homan, M. W., Spuls, P. I., de Korte, J., Bos, J. D., Sprangers, M. A. and van der Veen, J. P. W., 2009. The burden of vitiligo: Patient characteristics associated with quality of life. *J Am Acad Dermatol.*, 61 (3), 411–420.
- Lotti, T., Zanardelli, M. and D’Erme, A. M., 2014. Vitiligo: What’s new in the psycho-neuro-endocrine-immune connection and related treatments. *Wiener Medizinische Wochenschrift*, 164 (13–14), 278–285.
- Madiyono, B., Moeslichan, S., Sastroasmoro, S., Budiman, I. and Purwanto, S. H., 2014. Perkiraan besar sampel. In: Sastroasmoro, S. and Ismael, S., eds. *Dasar-dasar Metodologi Penelitian Klinis*. Jakarta: Sagung Seto, 352–387.
- Manga, P., Elbuluk, N. and Orlow, S. ., 2016. Recent advances in understanding vitiligo. *F1000 Res.*, 6, 1–9.
- Mashayekhi, V., Javidi, Z., Kiafar, B. and Al., E., 2010. Quality of life in patients with vitiligo: a descriptive study on 83 patients attending a PUVA therapy unit in Imam Reza Hospital, Mashad. *Indian J Dermatol Venereol Leprol.*, 76 (5), 592.
- Matin, R., 2011. Vitiligo in adults and children. *BMJ Clin Evid.*, 28, 1717.
- Mattoo, S., Handa, S., Kaur, I. and Al., E., 2002. Psychiatric morbidity in vitiligo: Prevalence and correlates in India. *J Eur Acad Dermatol Venereol.*, 16, 573–8.
- Miller, A., 2010. Depression and immunity: A role for T cells? *Brain Behav Immun.*, 24, 1–8.
- Mishra, N., Rastogi, M. K., Gahalaut, P. and Agrawal, S., 2014. Dermatology specific quality of life in vitiligo patients and its relation with various variables: A hospital based crosssectional study. *J Clin Diagn Res.*, 8 (6), YC01-3.
- Mitrevska, N. T., Eleftheriadou, V. and Guarneri, F., 2012. Quality of life in vitiligo patients. *Dermatologic Therapy*, 25 (SUPPL.1), 28–31.
- Mogawer, R. M., Mostafa, W. Z. and Elmasry, M. F., 2020. Comparative analysis of the body surface area calculation method used in vitiligo extent score vs the hand unit method used in vitiligo area severity index. *J Cosmet Dermatol.*, 19 (10), 2679–2683.
- Mohammed, G., Gomaa, A. and Al-Dhubaibi, M. S., 2015. Highlights in pathogenesis of vitiligo. *World J Clin Cases*, 3 (3), 221–231.

- Morales-Sánchez, M. A., Vargas-Salinas, M., Peralta-Pedrero, M. L., Olguín-García, M. G. and Jurado-Santa Cruz, F., 2017. Impact of Vitiligo on Quality of Life. *Actas Dermosifiliogr.*, 108 (7), 637–642.
- Müller, N. and Schwarz, M., 2008. A psychoneuroimmunological perspective to Emil Kraepelins dichotomy: schizophrenia and major depression as inflammatory CNS disorders. *Eur Arch Psychiatry Clin Neurosci.*, 258 (2), 97–106.
- Narahari, S. R., Prasanna, K. S., Aggithaya, M. G., Bose, K. S. and Praseeda, T. R., 2016. Dermatology life quality index does not reflect quality of life status of Indian vitiligo patients. *Indian J Dermatol.*, 61, 99–100.
- Nicolaidou, E., Antoniou, C., Miniati, A., Lagogianni, E., Matekovits, A., Stratigos, A. and Katsambas, A., 2012. Childhood and later-onset vitiligo have diverse epidemiologic and clinical characteristics. *J Am Acad Dermatol.*, 66 (6), 954–8.
- Ongenaes, K., Dierckxsens, L., Brochez, L., van Geel, N. and Naeyaert, J. M., 2005. Quality of life and stigmatization profile in a cohort of vitiligo patients and effect of the use of camouflage. *Dermatology*, 210 (4), 279–285.
- Ongenaes, K., van Geel, N., de Schepper, S. and Naeyaert, J. M., 2005. Effect of vitiligo on self-reported health-related quality of life. *Br J Dermatol.*, 152 (6), 1165–72.
- Oyedeji, G. A., 1985. Socioeconomic and cultural background of hospitalised children in Ilesha. *Niger J Paediatr.*, 12 (4), 111–7.
- Pahwa, P., Mehta, M., Khaitan, B. K., Sharma, V. K. and Ramam, M., 2013. The psychosocial impact of vitiligo in Indian patients. *Indian J Dermatol Venereol Leprol.*, 79 (5), 679–685.
- Papadopoulos, F., Spinelli, M., Valente, S., Foroni, L., Orrico, C., Alviano, F. and Pasquinelli, G., 2007. Common tasks in microscopic and ultrastructural image analysis using ImageJ. *Ultrastruct Pathol.*, 31 (6), 401–7.
- Parsad, D., Dogra, S. and Kanwar, A. J., 2003. Quality of life in patients with vitiligo. *Health and Quality of Life Outcomes*, 1, 8–10.
- Parsad, D. and Sahni, K., 2013. Stability in vitiligo: Is there a perfect way to predict it? *J Cutan Aesthet Surg.*, 6 (2), 75.
- Patel, K. R., Singam, V., Rastogi, S., Lee, H. H., Silverberg, N. B. and Silverberg, J. I., 2019. Association of vitiligo with hospitalization for mental health disorders in US adults. *J Eur Acad Dermatol Venereol.*, 33 (1), 191–197.
- Patvekar, M., Deo, K., Verma, S., Kothari, P. and Gupta, A., 2017. Quality of life in vitiligo: Relationship to clinical severity and demographic data. *Pigment International*, 4 (2), 104.
- Peralta-Pedrero, M. A., Morales-Sánchez, M. A., Cruz, F. in J.-S., De la Torre-García, M. E., Olguín-García, M. G. and Cruz-Peralta, E. S., 2019. Systematic Review of Clinimetric Instruments to determine the severity of Non-segmental Vitiligo. *Australas J Dermatol.*, 60 (3), e178–e185.
- Radtke, M. A., Schäfer, I., Gajur, A., Langenbruch, A. and Augustin, M., 2009. Willingness-to-pay and quality of life in patients with vitiligo. *Br J Dermatol.*, 161 (1), 134–139.
- Rahman, R. and Hasija, Y., 2018. Exploring vitiligo susceptibility and

- management: a brief review. *Biomedial Dermatology*, 2 (20), 1–13.
- Ramam, M. and Krishna, S. G., 2012. Measuring the severity of vitiligo. *Indian J Dermatol Venereol Leprol.*, 78 (1), 5–7.
- Rao, N. N., Thombre, R. A. and Ahmad, A., 2022. Correlation of Dermatology Life Quality Index and Vitiligo Extent Tensity Index: A Cross-sectional Study. *JCDR.*, 16 (12), WC04–WC07.
- Rashighi, M. and Harris, J. E., 2018. Vitiligo pathogenesis and emerging treatments. *Dermatol Clin.*, 35 (2), 257–265.
- Rayinda, T., Putra, P. B., Radiono, S. and Wirohadidjojo, Y. W., 2019. Peran Sinar Matahari terhadap Derajat Keparahannya dan Progresivitas Penyakit Vitiligo. *BIKK.*, 31 (3), 216–221.
- Richmond, J. M., Bangari, D. S., Essien, .K.I., Currimbhoy, S. D., Groom, J. R., Pandya, A. G., Youd, M. E., Luster, A. D. and Harris, J. E., 2017. Keratinocyte-derived chemokines orchestrate T cell positioning in the epidermis during vitiligo and may serve as biomarkers of disease. *J Invest Dermatol.*, 137 (2), 350–358.
- Rodrigues, M., Ezzedine, K., Hamzavi, I., Pandya, A. G. and Harris, J. E., 2017. New discoveries in the pathogenesis and classification of vitiligo. *J Am Acad Dermatol.*, 77 (1), 1–13.
- Salim, Y. F. and Lestari, S., 2018. Terapi bedah pada vitiligo. *Maj. Kedokt. Andalas*, 41, 88–93.
- Salzes, C., Abadie, S., Seneschal, J., Whitton, M., Meurant, J. M., Jouary, T., Ballanger, F., Boralevi, F., Taieb, A., Taieb, C. and Ezzedine, K., 2016. The Vitiligo Impact Patient scale (VIPs): Development and validation of a vitiligo burden assessment tool. *J Invest Dermatol.*, 136 (1), 52–8.
- Sampogna, F., Raskovic, D., Guerra, L., Pedicelli, C., Tabolli, S., Leoni, L., Alessandrini, L. and Abeni, D., 2008. Identification of categories at risk for high quality of life impairment in patients with vitiligo. *Br J Dermatol.ish Journal of Dermatology*, 159 (2), 351–359.
- Sarhan, D., Mohammed, G. F., Gomaa, A. H. and Eyada, M. M., 2016. Female genital self-image, sexual dysfunction, and quality of life in patients with vitiligo with and without genital affection. *J Sex Marital Ther.*, 42 (3), 267–76.
- Sarkar, S. K., Sen, K. G. and Mostofa, M. K., 2017. Vitiligo Management - An Update. *Faridpur Med Coll J.*, 12, 34–39.
- Sawant, N. S., Vanjari, N. A. and Khopkar, U., 2019. Gender Differences in Depression, Coping, Stigma, and Quality of Life in Patients of Vitiligo. *Dermatol Res Pract.*, 2019.
- Schallreuter, K. U., Bahadoran, P., Picardo, M., Slominski, A., Ellassiuty, Y. E., Kemp, E. H., Giachino, J., Liu, C. B., Luiten, R. M., Lambe, T., Le Poole, I. C., Dammak, I., Onay, H., Zmijewski, M. A., Dell’Anna, M. L., Zeegers, M. P., Cornall, R. J., Paus, R., Ortonne, J. P. and Westerhof, W., 2008. Vitiligo pathogenesis: autoimmune disease, genetic defect, excessive reactive oxygen species, calcium imbalance, or what else? *Exp Dermatol.*, 17 (2), 139–40.
- Schmidt, C., 2020. Temperian therapeutics: developing a gene-based treatment for vitiligo. *Nature*.

- Sehgal, V. N. and Srivasta, G., 2007. Vitiligo: compendium of clinico-epidemiological features. *Indian J Dermatol Venereol Leprol.*, 73 (3), 149–56.
- Seneschal, J. and Boniface, K., 2016. A Score with a VESTed interest in vitiligo. *J Invest Dermatol.*, 136 (5), 902–904.
- Sheth, V. M. ., Rithe, R., Pandya, A. G. and Chandrakasan, A., 2015. A pilot study to determine vitiligo target size using a computer-based image analysis program. *J Am Acad Dermatol.*, 73 (2), 342–5.
- Silpa-Archa, N., Pruksaeakanan, C., Angkoolpakdeekul, N., Chaiyabutr, C., Kulthanan, K., Ratta-Apha, W. and Wongpraparut, C., 2020. Relationship between depression and quality of life among vitiligo patients: A self-assessment questionnaire-based study. *Clin Cosmet Investig Dermatol.*, 13, 511–520.
- Silverberg, J. I. and Silverberg, N. B., 2013. Association between vitiligo extent and distribution and quality-of-life impairment. *JAMA Dermatology*, 149 (2), 159–164.
- Silverberg, N. B., 2015. The Epidemiology of Vitiligo. *Current Dermatology Reports*, 4, 36–43.
- Spritz, R. A. and Andersen, G. H., 2017. Genetics of Vitiligo. *Dermatol Clin.*, 35 (2), 245–55.
- Taïeb, A. and Picardo, M., 2007. The definition and assessment of vitiligo: A consensus report of the Vitiligo European Task Force. *Pigment Cell Res.*, 20 (1), 27–35.
- The WHOQOL Group, 1998. WHO Quality of Life Scale (WHOQOL). *Psychological Medicine*, 28 (3), 551–558.
- Triwahyuni, A. and Prasetio, C. E., 2021. Gangguan Psikologis dan Kesejahteraan Psikologis pada Mahasiswa Baru. *Psikologika*, 26 (1), 35–56.
- Urpe, M., Buggiani, G. and Lotti, T., 2005. Stress and psychoneuroimmunologic factors in dermatology. *Dermatol Clin.*, 23 (4), 609–617.
- Vrijman, C., Hosseinpour, D., Bakker, J. . G., Wolkerstorfer, A., Bos, J. D., van der Veen, J. P. W. and Luiten, R. M., 2013. Provoking factors, including chemicals, in Dutch patients with vitiligo. *Br J Dermatol.*, 168 (5), 1003–11.
- Wang, G., D., Q., Yang, H. and Liu, W., 2018. The prevalence and odds of depression in patients with vitiligo: a meta-analysis. *J Eur Acad Dermatol Venereol.*, 32 (8), 1343–1351.
- Wang, Y., Li, S. and Li, C., 2021. Clinical Features, Immunopathogenesis, and Therapeutic Strategies in Vitiligo. *Clin Rev Allergy Immunol.*, 61 (3), 299–323.
- Waskita, T. W., 2018. Hubungan antara Riwayat Pemakaian Tabir Surya dengan Derajat Keparahannya Melasma.
- Whitton, M. E., Ashcroft, D. M., Barrett, C. W. and Gonzalez, U., 2006. Intervention for vitiligo (Review). *Cochrane Database of Systematic Reviews*, 4 (1), 234–241.
- Whitton, M., Pinart, M., Batchelor, J., Leonardi-Bee, J., González, U., Jiyad, Z., Eleftheriadou, V. and Ezzedine, K., 2015. Interventions for vitiligo (Review). *Cochrane Database Syst Rev.*, 24 (2), CD003263.
- WHO, 1994. *A user's guide to The Self-Report Questionnaire (SRQ)*. Geneva,

World Health Organization.

Wong, S. and Baba, R., 2012. Quality of life among Malaysian patients with vitiligo. *Int J Dermatol.*, 51, 158–161.

Zar, A. R., Malik, A., Mahmood, A., Naseer, Q. A. and Yumei, L., 2019. Pathogenesis and the emerging therapy of vitiligo. *Arch Clin Biomed Res.*, 3, 361–373.

Zhang, Y., Cai, Y., Shi, M., Jiang, S., Cui, S., Wu, Y., Gao, X. H. and Chen, H. D., 2016. The prevalence of vitiligo: A meta-analysis. *PLoS ONE*, 11 (9), 1–17.

Zubair, R. and Hamzavi, I. H., 2020. Phototherapy for Vitiligo. *Dermatol Clin.*, 38 (1), 55–62.