

DAFTAR PUSTAKA

- Abbas, J., Reif, N., & Hamoud, K. (2024). Is Hip Muscle Flexibility Associated with *Low Back Pain* Among First-Year Undergraduate Students? *Journal of Clinical Medicine*, 13(24). <https://doi.org/10.3390/jcm13247598>
- Ade Setiawan, M., Herniwanti, H., Mitra, M., Maharani, R., & Ikhtiyaruddin, I. (2022). The Relationship Of Characteristics And Work Attitude With *Low Back Pain* Complaints On Nurse Of Regional Public Hospital Petala Bumi Riau Province 2022. *Jurnal Olahraga Dan Kesehatan (ORKES)*, 1(2), 424–436. <https://doi.org/10.56466/orkes/vol1.iss2.35>
- Ahmad Sharoni, S. K., Nik Hassan, N. H., Abdul Halim, N., & Budury, S. (2023). Prevalence of obesity and health-promoting lifestyle among nurses in a tertiary hospital, malaysia. *Environment-Behaviour Proceedings Journal*, 8(24), 355–360. <https://doi.org/10.21834/ebpj.v8i24.4679>
- Almaghrabi, A., & Alsharif, F. (2021). Prevalence of *Low Back Pain* and associated risk factors among nurses at king abdulaziz university hospital. *International Journal of Environmental Research and Public Health*, 18(4), 1–11. <https://doi.org/10.3390/ijerph18041567>
- Alshahrani, A. (2020). Prevalence of *Low Back Pain* among Nursing Staff in Najran, Saudi Arabia: A Cross-Sectional Study. *Medical Sciences (Basel, Switzerland)*, 8(4). <https://doi.org/10.3390/medsci8040045>
- Amin, N. F., Garancang, S., & Abunawas, K. (2023). KONSEP UMUM POPULASI DAN SAMPEL DALAM PENELITIAN. *Jurnal Kajian Islam Kontemporer*, 14.
- Anggreni, D. (2022). *BUKU AJAR METODOLOGI PENELITIAN KESEHATAN*.
- Anisa, N., Sudiono, & Rosmaitaliza. (2024). *HUBUNGAN USIA, LAMA KERJA DAN POSTUR KERJA TERHADAP KEJADIAN LOW BACK PAIN PADA PERAWAT RAWAT INAP RSUD KARAWANG TAHUN 2024*.
- Anugrahwati, R., & Silitonga, J. M. (2024). Hubungan Posisi dan Masa Kerja dengan Keluhan *Low Back Pain* (LBP) Pada Perawat di Rumah Sakit Hermina Jatinegara. *Malahayati Nursing Journal*, 6(2), 817–830. <https://doi.org/10.33024/mnj.v6i2.13583>
- Aprilyanti, E., Xaveria Hargiani, F., Teja Kusuma, W., & Halimah, N. (2022). Pengaruh Metode Neuro Muscular Taping (NMT) Terhadap Perubahan Fleksibilitas Fleksi Punggung Bawah. In *Jurnal Keperawatan Muhammadiyah* (Vol. 7, Issue 1).

- Arias, O. E., Umukoro, P. E., Stoffel, S. D., Hopcia, K., Sorensen, G., & Dennerlein, J. T. (2017). Associations between trunk flexion and physical activity of patient care workers for a single shift: A pilot study. *Work*, 56(2), 247–255. <https://doi.org/10.3233/WOR-172481>
- Ariga, R. A., Aurelia, R., Anak Ampun, P. T. D., Hutabarat, C. P., & Panjaitan, F. B. (2024). Enhancing Nursing Excellence: Exploring the Relationship between Nurse Deployment and Performance. *International Journal of Environmental Research and Public Health*, 21(10). <https://doi.org/10.3390/ijerph21101309>
- Astuti, M. S. (2022). *ANALISIS PREVALENSI LOW BACK PAIN PADA PERAWAT DI DUNIA: LITERATURE REVIEW*.
- Ayane, D., Takele, A., Feleke, Z., Mesfin, T., Mohammed, S., & Dido, A. (2023). *Low Back Pain and Its Risk Factors Among Nurses Working in East Bale, Bale, and West Arsi Zone Government Hospitals, Oromia Region, South East Ethiopia, 2021 –Multicenter Cross-Sectional Study. Journal of Pain Research*, 16, 3005–3017. <https://doi.org/10.2147/JPR.S410803>
- Azeroual, O., Saake, G., & Abuosba, M. (2018). *Data Quality Measures and Data Cleansing for Research Information System*.
- Babamohamadi, H., Davari, H., Safari, A. A., Alaei, S., & Pordanjani, S. R. (2023). The association between workload and quality of work life of nurses taking care of patients with COVID-19. *BMC Nursing*, 22(1). <https://doi.org/10.1186/s12912-023-01395-6>
- Banga, D., Samuel, T., Yihune, M., Bekele, G., Molla, E., Borie, Y. A., Melese, A., Agena, A., & Yeheyis, T. (2024). Prevalence of *Low Back Pain* and associated factors among nurses working in public hospitals of Hawassa city, southern Ethiopia: A cross-sectional study. *Heliyon*, 10(9). <https://doi.org/10.1016/j.heliyon.2024.e30300>
- Bernard, B. P., Putz-Anderson, V., Susan Burt Libby L Cole, M. E., Fairfield-Estill Lawrence Fine, C. J., Katharyn Grant, D. A., Gjessing Lynn Jenkins Joseph Hurrell Jr, C. J., Nelson, N., Pfirman Robert Roberts Diana Stetson, D., Haring-Sweeney, M., & Tanaka, S. (1997). *Musculoskeletal Disorders and Workplace Factors A Critical Review of Epidemiologic Evidence for Work-Related Musculoskeletal Disorders of the Neck, Upper Extremity, and Low Back*. <http://www.cdc.gov/niosh>
- Bizzoca, D., Solarino, G., Pulcrano, A., Brunetti, G., Moretti, A. M., Moretti, L., Piazzolla, A., & Moretti, B. (2023). Gender-Related Issues in the Management of Low-Back Pain: A Current Concepts Review. In *Clinics and*

- Practice* (Vol. 13, Issue 6, pp. 1360–1368). Multidisciplinary Digital Publishing Institute (MDPI). <https://doi.org/10.3390/clinpract13060122>
- Boocock, M., Naudé, Y., Saywell, N., & Mawston, G. (2024). Obesity as a risk factor for musculoskeletal injury during manual handling tasks: A systematic review and meta-analysis. In *Safety Science* (Vol. 176). Elsevier B.V. <https://doi.org/10.1016/j.ssci.2024.106548>
- Cahya S, A., Mardi Santoso, W., Husna, M., Munir, B., & Nandar Kurniawan, S. (2021). *LOW BACK PAIN. JPHV (Journal of Pain, Vertigo and Headache)*, 2(1), 13–17. <https://doi.org/10.21776/ub.jphv.2021.002.01.4>
- Cesilia, R., & Kokasih. (2024). Pengaruh Beban Kerja dan Kelelahan Kerja terhadap Kinerja Perawat. *Jurnal Sosial Dan Teknologi*, 4. <https://doi.org/https://doi.org/10.59188/jurnalsostech.v4i10.26775>
- Chen, Y. L., Lin, W. C., Liao, Y. H., Chen, Y., & Kang, P. Y. (2021). Changing the pattern of the back-muscle flexion–relaxation phenomenon through flexibility training in relatively inflexible young men. *PLoS ONE*, 16(11 November). <https://doi.org/10.1371/journal.pone.0259619>
- Chen, Z., & Wang, X. (2025). Effects of balance and hamstring training on nonspecific *Low Back Pain*: A randomized controlled trial. *Scientific Reports*, 15(1). <https://doi.org/10.1038/s41598-025-91076-y>
- Creswell, J. W. (2018). *Research Design Fifth Edition*.
- Dameria, Samosir, F. J., Pane, P. Y., Simangunsong, P. M. J., Manalu, P., Chandra Siahaan, P. B., & Tarigan, U. (2021). *Complaints of Nurses' Low Back Pain Assessed from Individual Characteristics and Workloads*. 188–195. <https://doi.org/10.5220/0010292501880195>
- D'Ettorre, G., Vullo, A., & Pellicani, V. (2019). Assessing and preventing *Low Back Pain* in nurses. Implications for practice management. *Acta Biomedica*, 90, 53–59. <https://doi.org/10.23750/abm.v90i6-S.8228>
- Dewita, A. K. (2023). *PENGARUH BACK EXERCISE TERHADAP KELUHAN LOW BACK PAIN (LBP) PADA PEKERJA AERA SORTING DI TPA TALANG GULO KOTA JAMBI*.
- Dimas Dimyati, A., Ikhlasih, M., & Ismarina. (2024). The Relationship Between Age, Gender, Workload, and Complaints of *Low Back Pain* (LBP) among Emergency Room Nurses. *Health and Technology Journal (HTechJ)*, 2(5), 492–497. <https://doi.org/10.53713/htechj.v2i5.251>
- Ditra Prilianda, R., Widya Herman, P., Herliza, M., & Mohammad Natsir Bukittinggi, U. (2024). Hubungan Beban Kerja dengan Kinerja Perawat

- Rawat Inap di RSI Ibnu Sina Simpang Empat Tahun 2023. In *JPAMS : Journal of Public Administration and Management Studies* (Vol. 2). <https://journal.umnyarsi.ac.id/index.php/JPAMS>
- Fathoni, M. I. (2020). *PENGARUH BEBAN KERJA TERHADAP PRODUKTIVITAS KERJA KARYAWAN TENAGA NON KESEHATAN DI UNIT PELAKSANA TEKNIS RUMAH SAKIT PRATAMA KOTA YOGYAKARTA TAHUN 2020*.
- Fatih, M., Widyastuti, Y., & Mahmud. (2021). *ASSOCIATION OF GENDER WITH LOW BACK PAIN AMONG THE NURSES AT SARDJITO HOSPITAL, YOGYAKARTA*. <http://etd.repository.ugm.ac.id/>
- Filho, J. N. da S., Gurgel, J. L., Silva, E. B. da, & Porto, F. (2020). Acute and chronic effect of stretching exercise on posture and flexibility of nurses and licensed practical nurses. *Manual Therapy, Posturology & Rehabilitation Journal*, 1–6. <https://doi.org/10.17784/mtprehabjournal.2017.15.478>
- Fitriani, I., Erwin, & Deli, H. (2025). Hubungan Beban Kerja Perawat dengan Keluhan *Low Back Pain* pada Perawat. *Indonesian Research Journal on Education Web Jurnal Indonesian Research Journal on Education*, 5. <https://doi.org/https://doi.org/10.33650/jkp.v13i1.10600>
- Ghozali, I. (2018). *APLIKASI ANALISIS MULTIVARIATE Dengan Program IBM SPSS 25* (9th ed.).
- Gou, Y., Lei, H., Chen, X., & Wang, X. (2024). The effects of hamstring stretching exercises on pain intensity and function in *Low Back Pain* patients: A systematic review with meta-analysis of randomized controlled trials. In *SAGE Open Medicine* (Vol. 12). SAGE Publications Ltd. <https://doi.org/10.1177/20503121241252251>
- Grønmo, S. (2020). *Social Research Methods*.
- Hansen, S., Seng Hansen, dkk, & dan Praktik, T. (2023). *Etika Penelitian: Teori dan Praktik*.
- Hardani, Adriani, H., Ustiawaty, J., & Juliana Sukmana, D. (2020). *Buku Metode Penelitian Kualitatif & Kuantitatif*. <https://www.researchgate.net/publication/340021548>
- Havaei, F., & MacPhee, M. (2020). The impact of heavy nurse workload and patient/family complaints on workplace violence: An application of human factors framework. *Nursing Open*, 7(3), 731–741. <https://doi.org/10.1002/nop2.444>

- Heryana, A. (2020). *Buku Ajar Metodologi Penelitian pada Kesehatan Masyarakat*. <https://www.researchgate.net/publication/342144107>
- Huang, W. H., Tang, C. K., & Shih, Y. F. (2024). Effectiveness of gluteal control training in chronic *Low Back Pain* patients with functional leg length inequality. *Scientific Reports*, 14(1), 24432. <https://doi.org/10.1038/s41598-024-74348-x>
- Ijabadeniyi, O. A., & Fasae, J. K. (2023). Prevalence of *Low Back Pain* among nurses and the effects on job performance in tertiary health institutions in Ondo State, Nigeria. *International Journal of Africa Nursing Sciences*, 18. <https://doi.org/10.1016/j.ijans.2023.100560>
- Islam, F., Durahim, D., Awal, M., Fisioterapi, J., Kemenkes Makassar, P., & Keperawatan prodi Pare-Pare, J. (2024). ANALISIS FAKTOR RISIKO NYERI PUNGGUNG BAWAH PADA LANSIA DI KECAMATAN BIRINGKANAYA KOTA MAKASSAR Analysis Of Risk Factors For *Low Back Pain* In The Elderly In Biringkanaya District, Makassar City. *Media Fisioterapi Poltekkes Makassar*, 16(2), 19–25.
- Ito, T., Sugiura, H., Ito, Y., Narahara, S., Natsume, K., Takahashi, D., Noritake, K., Yamazaki, K., Sakai, Y., & Ochi, N. (2023). Relationship between low-back pain and flexibility in children: A cross-sectional study. *PLoS ONE*, 18(11 November). <https://doi.org/10.1371/journal.pone.0293408>
- Kasih, B. (2023). Hubungan usia, beban kerja, posisi tubuh, dan aktivitas fisik terhadap kejadian *Low Back Pain* pada perawat pelaksana di rs emc sentul. *Jurnal Pengabdian Ilmu Kesehatan*, 3(2), 152–159. <https://doi.org/10.55606/jpikes.v3i2.2229>
- Katuuk, M. E., Karundeng, M., Studi, P., Keperawatan, I., & Kedokteran, F. (2019). Hubungan Antara Aktivitas Fisik Dengan Myeri Punggung Bawah Pada Perawat Di Rumah Sakit Umum Daerah Luwuk Banggai. *E-Journal Keperawatan*, 7(1). <https://doi.org/https://doi.org/10.35790/jkp.v7i1.25208>
- Kazemi, S.-S., Tavafian, S.-S., Hidarnia, A., & Montazeri, A. (2019). *Konsekuensi dan faktor yang berhubungan dengan nyeri punggung akibat kerja dari sudut pandang perawat: Sebuah studi kualitatif*.
- Kippers, V., & Parker, A. W. (1987). Toe-touch test. A measure of its validity. *Physical Therapy*, 67(11), 1680–1684. <https://doi.org/10.1093/ptj/67.11.1680>
- Kisner, C., Colby, L. A., & Borstad, J. (2018). *Therapeutic Exercise: Foundation and Techniques*. https://books.google.co.id/books?hl=id&lr=&id=yZc6DwAAQBAJ&oi=fnd&pg=PR1&dq=Therapeutic+Exercise:+Foundations+and+Techniques&ots=Ngt0F3dHWb&sig=i_Mgn8xFPv_et6icLG3l5ykpoH0&redir_esc=y#v=onep

[age&q=Therapeutic%20Exercise%3A%20Foundations%20and%20Techniques&f=false](#)

- Koesmowidjojo, S. R. M. (2017). *Analisis Beban kerja*.
<https://library.bpk.go.id/koleksi/detil/jkpkbpkpp-p201714853>
- Koley, S., & Likhi, N. (2011). No relationship between *Low Back Pain* and hamstring flexibility. *Anthropologist*, 13(2), 117–120.
<https://doi.org/10.1080/09720073.2011.11891186>
- Kusmiati, T., & Paramita Narendrani, H. (2016). *POTT'S Disease*.
- Kuszewski, M., Saulicz, E., Gnat, R., Knapik, A., & Wandzel, P. (2006). Body Proportions and the Results of the Toe-Touch Test. In *Journal of Human Kinetics* (Vol. 16).
- Lawan, A., Aubertin, A., Mical, J., Hum, J., Graf, M. L., Marley, P., Bolton, Z., & Walton, D. M. (2024). Is educational attainment associated with the onset and outcomes of *Low Back Pain*? a systematic review and meta-analysis. *PLoS ONE*, 19(8 August). <https://doi.org/10.1371/journal.pone.0308625>
- Liu, Z., Yan, X., Xie, G., Lu, J., Wang, Z., Chen, C., Wu, J., & Qing, W. (2025). Latent profile analysis and influence factors study of nurses' job performance. *Frontiers in Psychology*, 16.
<https://doi.org/10.3389/fpsyg.2025.1474091>
- Lupo, R., Vitale, E., Conte, L., Bernetti, A., Ciccarese, F., Orgiu, M., Latina, S., Panzanaro, L., Lezzi, A., Puglia, A., De Nunzio, G., Cascio, D., Pasquinelli, G., & Rubbi, I. (2025). *Low Back Pain* in Italian Nurses: A Statistical Analysis of Disability and Work Productivity Impairment—An Observational Study. *Healthcare (Switzerland)*, 13(9).
<https://doi.org/10.3390/healthcare13091016>
- Magfira Rachman, S., Royani, I., Harun Muchsin, A., Erwin Rachman, M., & Dhedie Prasatia Sam, A. (2024). *KARAKTERISTIK LOW BACK PAIN PADA PERAWAT DI RUMAH SAKIT IBNU SINA MAKASSAR*. 5.
- Mahendra, I. M. B. (2022). *Hubungan Antara Usia dan Jenis Kelamin dengan Nyeri Pinggang pada Populasi Masyarakat Kota Malang dengan Kuisioner WHO-ILAR COPCORD*.
- Mambu, E. D. (2018). *Studi Tentang Faktor Penyebab Low Back Pain Myogenic di RS Maris Makassar*.
- Manojlović, D., Zorko, M., Spudić, D., & Šarabon, N. (2022). Strength, Flexibility and Postural Control of the Trunk and Lower Body in Participants

- with and without Patellofemoral Pain. *Applied Sciences (Switzerland)*, 12(7). <https://doi.org/10.3390/app12073238>
- Margaret Adefiola, O., & Mayosore Racheal, A. (2024). Relationship Between Body Mass Index and Occurrence of *Low Back Pain* Among Nurses in Ekiti State) ® (IJMNHS.COM). *Nursing & Health Sciences (IJMNHS) ® (Print) International Journal of Medicine*. <https://doi.org/10.5281/zenodo.14542265>
- Maryati, M., & Fauzi, A. (2024). Hubungan Beban Kerja dengan Kejadian *Low Back Pain* dan Burnout Pada Perawat di Ruang Operasi RSUD Kabupaten Bekasi. *Malahayati Nursing Journal*, 6(3), 1229–1240. <https://doi.org/10.33024/mnj.v6i3.11080>
- Masłoń, A., Kamińska, M., & Kvåle, A. (2024). WORKLOAD, GENERAL PERCEIVED STRESS, BODY FUNCTION, MUSCULOSKELETAL PAIN, AND THEIR MUTUAL RELATIONSHIPS IN NURSES – A PILOT STUDY. *International Journal of Occupational Medicine and Environmental Health*, 37(3), 257–270. <https://doi.org/10.13075/ijomeh.1896.02389>
- Mataheru, D., Ningsih Munte, L., Ulina Nahak, S., Olang, J., & Sampepadang, M. (2025). *BEBAN KERJA PERAWAT DENGAN KEJADIAN LOW BACK PAIN DI SATU RUMAH SAKIT SWASTA INDONESIA BAGIAN TIMUR*. <http://jurnal.globalhealthsciencegroup.com/index.php/JPPP>
- Mayorga-Vega, D., Viciano, J., Cocca, A., & Merino-Marban, R. (2014). Criterion-related validity of toe-touch test for estimating hamstring extensibility: A metaanalysis. *Journal of Human Sport and Exercise*, 9(1), 188–200. <https://doi.org/10.4100/jhse.2014.91.18>
- Medeni, V., Dogan, M. T., Medeni, I., Dikmen, A. U., & Ilhan, M. N. (2024). *Low Back Pain*, work overload, and associated factors among hospital caregivers. *Work*, 78(1), 167–179. <https://doi.org/10.3233/WOR-230524>
- Mekonnen, T. H. (2019). *Work-Related Factors Associated with Low Back Pain Among Nurse Professionals in East and West Wollega Zones, Western Ethiopia, 2017: A Cross-Sectional Study*. <https://doi.org/10.6084/m9.figshare.8242583>
- Mlambo, M., Silén, C., & McGrath, C. (2021). Lifelong learning and nurses' continuing professional development, a metasynthesis of the literature. *BMC Nursing*, 20(1). <https://doi.org/10.1186/s12912-021-00579-2>
- Muhammad D. Kurniawan, Cahyo Setiawan, & Laksmi Dewi Adzillina. (2024). Hubungan Fleksibilitas Otot Tungkai dengan Kasus *Low Back Pain* Ischialgia di Desa Adikarso Kebumen Jawa Tengah. *Jurnal Kesehatan Amanah*, 8(1), 305–311. <https://doi.org/10.57214/jka.v8i1.753>

- Muslimin, D. (2023). *METODOLOGI PENELITIAN KUANTITATIF DAN KUALITATIF*.
- Nadila, A., Royhan, A., Zen, I., & Zulhamidah, Y. (2023). Hubungan Jenis Kelamin, Usia, Durasi Duduk dan Posisi duduk pada Pembelajaran Luring dengan Keluhan *Low Back Pain* (LBP) pada Guru SMP di Kabupaten Bogor. *Junior Medical Journal*, 2(4).
- Nagai, S., Ogata, Y., Yamamoto, T., Fedyk, M., & Bell, J. F. (2023). A Longitudinal Study of the Impact of Personal and Professional Resources on Nurses' Work Engagement: A Comparison of Early-Career and Mid-Later-Career Nurses. *Healthcare (Switzerland)*, 11(1). <https://doi.org/10.3390/healthcare11010076>
- Ningsih, K. W. (2017). KELUHAN *LOW BACK PAIN* PADA PERAWAT RAWAT INAP RSUD SELASIH PANGKALAN KERINCI. *Jurnal Ipteks Terapan*, 11(1), 75. <https://doi.org/10.22216/jit.2017.v11i1.1466>
- Novitri, S. (2023). *Asuhan Keperawatan Pada Ny. R Dengan Diagnosa Medis Low Back Pain*.
- Nugroho, A. P. (2022). *Metode Pengumpulan Data*. <https://www.researchgate.net/publication/364383690>
- Nurdiati, W., Utami, G. T., & Utami, S. (2015). Pengaruh Latihan Peregangan Terhadap Penurunan Intensitas Nyeri Pada Perawat Yang Menderita *Low Back Pain* (LBP). *Jurnal Online Mahasiswa Program Studi Ilmu Keperawatan Universitas Riau*, 2(1), 600–605. <https://www.neliti.com/publications/187040/pengaruh-latihan-peregangan-terhadap-penurunan-intensitas-nyeri-pada-perawat-yan>
- Nurjannah, B., Yuniar, N., & Tungga Dewi, S. (2022). RELATIONSHIP OF WORKLOAD, WORKING HOUR AND WORK ATTITUDE WITH *LOW BACK PAIN* COMPLAINTS ON COVID-19 NURSES AT BAHTERAMAS HOSPITAL IN 2021. *Jurnal Kesehatan Dan Keselamatan Kerja Universitas Halu Oleo*, 3(2). <https://doi.org/10.37887/jk3-uho>
- Nursalam. (2017). *METODOLOGI PENELITIAN ILMU KEPERAWATAN*. <http://www.penerbitsalemba.com>
- Ovayolu, O., Ovayolu, N., Genc, M., & Col-Araz, N. (2014). Frequency and severity of *Low Back Pain* in nurses working in intensive care units and influential factors. *Pakistan Journal of Medical Sciences*, 30(1), 70–76. <https://doi.org/10.12669/pjms.301.3455>
- Oyoh, Rohayani, L., Setiawati, & Yulianingsih. (2020). Hubungan Masa Kerja Dan Beban Kerja Dengan Keluhan Nyeri Punggung Bawah Pada Perawat Di

Ruang ICU/ICCU, NICU, dan PICU RS Dustira Cimahi Tahun 2020. *Prosiding Pertemuan Ilmiah Nasional Penelitian & Pengabdian Masyarakat II*, 2(1), 226631622–226631624.

Pangestuti, B., Agustini, D., & Citrawati, M. (2020). Pengaruh sikap kerja, beban kerja, imt, fleksibilitas lumbal thp keluhan lbp pd buruh di pasar induk. *Jurnal Profesi Medika : Jurnal Kedokteran Dan Kesehatan*.
<https://repository.upnvj.ac.id/11346/31/ARTIKEL%20KI.pdf.pdf>

Paramita, R., Rizal, N., & Sulistyan, R. (2021). *METODE PENELITIAN KUANTITATIF*.

PPNI. (2013). *STANDAR KOMPETENSI PERAWAT INDONESIA*.

Pradipta, P. A., Naufal, A. F., Fikriyah, I. N., & Ulfah, N. (2021). Hubungan Antara Fleksibilitas Otot Hamstring dengan Nyeri Punggung Bawah pada Wanita Usia 18 sampai 22 Tahun. *FISIO MU: Physiotherapy Evidences*, 3(1), 61–66. <https://doi.org/10.23917/fisiomu.v3i1.10076>

Pradita, A. (2022). Korelasi Fleksibilitas Otot Lumbal Dengan Keluhan Nyeri Punggung Bawah. *Kieraha Medical Journal*, 4, 268–5912.
<https://ejournal.unkhair.ac.id/index.php/kmj/article/view/5523/3598>

Primasoni, N. (2022). Hubungan antara Indeks Massa Tubuh (IMT) dengan fleksibilitas otot hamstring atlet sepak bola junior Daerah Istimewa Yogyakarta. *JORPRES (Jurnal Olahraga Prestasi)*, 18(2), 66–72.

Priyadarshi, A., Gautam, A., & Gautam, A. (2020). Odds Ratio. In *Encyclopedia of Animal Cognition and Behavior* (pp. 1–4). Springer International Publishing. https://doi.org/10.1007/978-3-319-47829-6_185-1

Purnomo, S. S., Sumarni, T., & Kurniawan, W. E. (2024). GAMBARAN KUALITAS KEHIDUPAN KERJA PERAWAT DI RUANG RAWAT INAP RSUD AJIBARANG. *Jurnal Ilmu Kesehatan*. <https://journal-mandiracendikia.com/jikmc>

Purwadi, H., Kesuma, E. G., & Sanjaya, D. G. (2022). *EXPLORASI PENGALAMAN, PERAN DAN FUNGSI PERAWAT DALAM PELAKSANAAN END-OF-LIFE CARE PADA PASIEN COVID-19 DI RS RUJUKAN PROVINSI NTB: STUDI KUALITATIF*.
<http://jurnal.globalhealthsciencegroup.com/index.php/JPPP>

Puspita Handayani, T., & Febriyanto, K. (2022). *Hubungan Durasi Kerja dengan Keluhan Low Back Pain pada Operator Alat Berat* (Vol. 3, Issue 2).

Puspitasari, S. I., Madyaningrum, E., & Aulawi, K. (2025). *Faktor Risiko Kejadian Nyeri Punggung Bawah pada Perawat di Ruang Operasi RSUP Dr.*

Sardjito.

https://etd.repository.ugm.ac.id/penelitian/detail/250250?utm_source=chatgpt.com

Rahmawati, A. (2021). Risk Factor Of *Low Back Pain*. *Jurnal Medika Hutama*, 03. <https://jurnalmedikahutama.com/index.php/JMH/article/view/323>

Rasyidah, A., Dayani, H., & Maulani. (2019). Masa Kerja, Sikap Kerja Dan Jenis Kelamin Dengan Keluhan Nyeri *Low Back Pain*. *REAL in Nursing Journal (RNJ)*, 2.

Romadhani Yudhaningrum, H., Pradita, A., Hadi Endaryanto, A., Xaveria Hargiani, F., Sarjana Fisioterapi, P., Teknologi Sains dan Kesehatan, F., & Soepraoen Kesdam V, I. R. (2023). Hubungan Fleksibilitas Otot Hamstring Dengan Nyeri Punggung Bawah Pada Pasien Poli Fisioterapi Di Rumah Sakit Petrokimia Gresik. *Jurnal Keperawatan Muhammadiyah*, 8(1), 2023. <https://doi.org/https://doi.org/10.30651/jkm.v8i1.16116>

Sadali, U. Bin, Kamal, K. K. B. N., Park, J., Chew, H. S. J., & Devi, M. K. (2023). The global prevalence of overweight and obesity among nurses: A systematic review and meta-analyses. In *Journal of Clinical Nursing* (Vol. 32, Issues 23–24, pp. 7934–7955). John Wiley and Sons Inc. <https://doi.org/10.1111/jocn.16861>

Sahara, R., Pristya, T. Y., & Pembangunan Nasional Veteran Jakarta, U. (2020). Faktor Risiko yang Berhubungan dengan Kejadian *Low Back Pain* (LBP) pada Pekerja: Literature Review. *Jurnal Ilmiah Kesehatan*, 19. <https://doi.org/10.33221/jikes.v19io3.585>

Sanhaji, C. (2023). Hubungan Beban Kerja Terhadap kejadian *Low Back Pain* Pada Perawat Di Rumah Sakit Haji Jakarta. *Jurnal Ilmiah Keperawatan*. <https://doi.org/https://doi.org/10.33023/jikep.v9i3.1606>

Saragih, I. S., Simbolon, M. P., & Amelia, R. N. (2025). Relationship between Body Mass Index (BMI) and Disability Level of *Low Back Pain* (LBP) Patients. *Holistic Nursing and Health Science*, 8(1), 23–31. <https://doi.org/10.14710/hnhs.8.1.2025.23-31>

Sardianti Dt, S., Azkia Paramitha, I., & Sabrina, M. E. (2024). Analisa Fleksibilitas Hamstring dan Faktor Resiko terhadap Pemendekan Otot Hamstring pada Remaja Dewasa di Wilayah Ambokembang. *Majalah Ilmiah Fisioterapi Indonesia*, 12(1), 57–63. <https://doi.org/10.24843/mifi.id.108480>

Sartika, D., Rusherina, R., & Anggela, S. (2024). Prevention Of Perceived Ergonomic Hazards by Nurses In Intensive Care and Emergency Room. In *JONAH (Journal of Nursing and Homecare)* (Vol. 3, Issue 2). Online.

- Setiawan, V. B., Dwi, R., Fakultas, W., & Masyarakat, K. (2016). BEBAN KERJA SUBYEKTIF DAN OBYEKTIF TENAGA FARMASI RAWAT JALAN DI RUMAH SAKIT SUBJECTIVE AND OBJECTIVE WORKLOAD PHARMACEUTICAL WORKER OUTPATIENT IN THE HOSPITAL. In *Jurnal Administrasi Kesehatan Indonesia* (Vol. 4).
- Shieh, S. H., Sung, F. C., Su, C. H., Tsai, Y., & Hsieh, V. C. R. (2016). Increased *Low Back Pain* risk in nurses with high workload for patient care: A questionnaire survey. *Taiwanese Journal of Obstetrics and Gynecology*, 55(4), 525–529. <https://doi.org/10.1016/j.tjog.2016.06.013>
- Silvia, J. (2016). *Anatomia e Fisiologia*.
- Slouma, M., Kharrat, L., Tezegdenti, A., Metoui, L., Ghazouani, E., Dhahri, R., Gharsallah, I., & Louzir, B. (2023). Pro-inflammatory cytokines in patients with *Low Back Pain*: A comparative study. *Reumatologia Clinica*, 19(5), 244–248. <https://doi.org/10.1016/j.reuma.2022.07.002>
- Stockemer, D. (2019). *Quantitative Methods for the Social Sciences A Practical Introduction with Examples in SPSS and Stata*.
- Sub, M., Koteng, J., Ratu, J. M., Noorce, :, & Berek, C. (2019). MEDIA KESEHATAN MASYARAKAT. In *Media Kesehatan Masyarakat* (Vol. 1, Issue 1). <https://ejurnal.undana.ac.id/MKM/>
- Sudiono, S., Gowi, A., Indrawati, E., Rosmaitaliza, R., & Anisa, N. (2025). Hubungan usia, lama kerja, dan postur kerja terhadap kejadian *Low Back Pain* pada perawat rawat inap. *Holistik Jurnal Kesehatan*, 19(2), 342–348. <https://doi.org/10.33024/hjk.v19i2.851>
- Sugathot, A. I., Agni, A. S., Agni, M., Cristian Abeh, A., & Simatupang, S. F. (2022). Hubungan Faktor Risiko Usia, Gender, Jumlah Kunjungan, Pekerjaan dengan Nyeri Punggung Bawah Neuropati di Poli Fisioterapi Puskesmas Kalasan dalam Rentang Tahun 2020-2021. *Prosiding Seminar Nasional Universitas Respati Yogyakarta*, 4(1), 2020–2021. <https://repository.respati.ac.id/dokumen/2df8aaa6b029242a88811f4bbde04fab.pdf>
- Sugiyono. (2023). *METODE PENELITIAN KUANTITATIF, KUALITATIF, DAN R&D*. www.cvalfabeta.com
- Sulistyaningtyas, N. (2022). *UPAYA PENGENDALIAN SECARA ERGONOMI PADA KELUHAN LOW BACK PAIN PADA PERAWAT DI RUMAH SAKIT ERGONOMIC CONTROL EFFORT ON LOW BACK PAIN COMPLAINTS ON NURSES IN HOSPITAL* Nunik Sulistyaningtyas. 2(1), 19–26.

- Sun, W., Zhang, H., Tang, L., He, Y., & Tian, S. (2021). The factors of non-specific chronic *Low Back Pain* in nurses: A meta-analysis. *Journal of Back and Musculoskeletal Rehabilitation*, 34(3), 343–353. <https://doi.org/10.3233/BMR-200161>
- Suranta Ginting, D., Indriani, R., Ayu Andera, N., Sendra, E., Sartiya Rini, D., Setiyorini, E., Juwariah, T., Kusumaningrum, V., & Sulupadang, P. (2022). *Anatomi Fisiologi Tubuh Manusia*. www.globaleksekitifteknologi.co.id
- Suriya, M., & Zuriati. (2019). *BUKU AJAR KMB SISTEM MUSKULOSKELETAL*. <https://123dok.com/document/ydke77eq-asuhan-keperawatan-medikal-gangguan-sistem-muskuloskeletal-aplikasi-penerbit.html>
- Sutanto, D., Ho, R. S. T., Poon, E. T. C., Yang, Y., & Wong, S. H. S. (2022). Effects of Different Trunk Training Methods for Chronic *Low Back Pain*: A Meta-Analysis. *International Journal of Environmental Research and Public Health*, 19(5). <https://doi.org/10.3390/ijerph19052863>
- Syalsabila, S., Silitonga, B., & Utami, T. N. (2021). Hubungan Usia Dan lama kerja Dengan Keluhan Nyeri Punggung Bawah Pada Nelayan Di Kelurahan Belawan II. *Jurnal Kesehatan Masyarakat*, 5(2), 926–930. <https://doi.org/https://doi.org/10.31004/prepotif.v5i2.2194>
- The Guardian. (2024). *Women live more years in ill-health than men, finds gender health gap study*. https://www.theguardian.com/society/2024/may/01/women-live-more-years-ill-health-than-men-gender-health-gap-study?CMP=share_btn_url
- Thufeil Addausy, M., & Fitri, N. (2024). Faktor-faktor Yang Berhubungan Dengan Motivasi Perawat Jenjang Vokasi Melanjutkan Pendidikan Ke Jenjang Sarjana. *Jurnal Penelitian Perawat Profesional*, 6. <https://doi.org/https://doi.org/10.37287/jppp.v6i1.2037>
- Triyono, H., & Linggardini, K. (2020). Factors affecting *Low Back Pain* occurrence in nurses of Purwokerto Islamic Hospital. *Proceedings Series on Health & Medical Sciences*, 1, 42–47. <https://doi.org/10.30595/pshms.v1i.31>
- Turan, N., & Ançel, G. (2020). Examination of the psychological changes in nurses due to workload in an intensive care unit: a mixed method study. *Contemporary Nurse*, 56(2), 171–184. <https://doi.org/10.1080/10376178.2020.1782762>
- Turner, A. N., & Jeffreys, I. (2010). The stretch-shortening cycle: Proposed mechanisms and methods for enhancement. *Strength and Conditioning Journal*, 32(4), 87–99. <https://doi.org/10.1519/SSC.0b013e3181e928f9>

- Umboh, B., Rattu, J. A. M., & Adam, H. (2017). *HUBUNGAN ANTARA KARAKTERISTIK INDIVIDU DENGAN KELUHAN NYERI PUNGGUNG BAWAH PADA PERAWAT DI RUANGAN RAWAT INAP RSU GMIM PANCARAN KASIH MANADO*.
- Väisänen, V., Ruotsalainen, S., Hietapakka, L., Sulander, J., & Sinervo, T. (2024). The role of workday characteristics on perceived stress and time pressure among nurses in Finnish long-term care – a cross-sectional study. *BMC Health Services Research*, 24(1). <https://doi.org/10.1186/s12913-024-11294-4>
- van Ee, E., & Blokland, J. (2019). Bad blood or my blood: A qualitative study into the dimensions of interventions for mothers with children born of sexual violence. *International Journal of Environmental Research and Public Health*, 16(23). <https://doi.org/10.3390/ijerph16234810>
- Wahyuliyanti, I., Naziyah, N., & Rifiana, A. J. (2023). Faktor-Faktor yang Berhubungan dengan Nyeri Tulang Belakang pada Perawat di Rumah Sakit Universitas Kristen Indonesia Jakarta Timur. *Malahayati Nursing Journal*, 5(9), 2979–2993. <https://doi.org/10.33024/mnj.v5i9.9189>
- Walliman, Nicholas. (2022). *Research methods : the basics*. Routledge.
- Wáng, Y. X. J., Wáng, J. Q., & Káplár, Z. (2016). Increased *Low Back Pain* prevalence in females than in males after menopause age: Evidences based on synthetic literature review. In *Quantitative Imaging in Medicine and Surgery* (Vol. 6, Issue 2, pp. 199–206). AME Publishing Company. <https://doi.org/10.21037/qims.2016.04.06>
- Wardhana, A. (2023). *METODE PENELITIAN*. <https://www.researchgate.net/publication/382060657>
- WHO. (2022). *Nurse*. <https://www.who.int/>
- World Health Organization. (2020). *Low Back Pain*. <https://www.who.int/news-room/fact-sheets/detail/low-back-pain>
- Wulandari, M., Setyawan, D., Zubaidi, A., Kesehatan, K., Kesehatan, P., Jurusan, S., & Prostetik, O. (2017). Faktor Risiko *Low Back Pain* Pada Mahasiswa Jurusan Ortotik Prostetik Politeknik Kesehatan Surakarta. *Jurnal Keterampilan Fisik*, 2, 8. <https://doi.org/https://doi.org/10.37341/jkf.v2i1.65>
- Yacob, D. M. L., Kolibu, F. K., & Punuh, M. I. (2018). HUBUNGAN ANTARA MASA KERJA DAN BEBAN KERJA DENGAN KELUHAN *LOW BACK PAIN* PADA PERAWAT DI RUANGAN RAWAT INAP RS BHAYANGKARA TINGKAT III MANADO. In *Jurnal KESMAS* (Vol. 7, Issue 4).

Yumesri, Risnita, Sudur, & Asrulla. (2024). *ETIKA DALAM PENELITIAN ILMIAH*.

Zaitoon, R. A., Said, N. B., Snober, R. H., Hussein, R. F., Abdoon, A. H., Shehadeh, A. M. A., Battat, M. M., & Sakleh, I. R. (2024a). *Low Back Pain prevalence and associated factors among nurses: cross sectional study from Palestine. BMC Public Health*, 24(1). <https://doi.org/10.1186/s12889-024-20481-1>

Zung, W. W. K. (1983). A self-rating pain and distress scale. *Psychosomatics: Journal of Consultation and Liaison Psychiatry*, 24, 887–894.
[https://doi.org/https://psycnet.apa.org/doi/10.1016/S0033-3182\(83\)73140-3](https://doi.org/https://psycnet.apa.org/doi/10.1016/S0033-3182(83)73140-3)