

DAFTAR PUSTAKA

- Abdollahi, T., Razi, S. P., Pahlevan, D., Yekaninejad, M. S., Amaniyan, S., Sieloff, C. L., & Vaismoradi, M. (2020). Effect of an ergonomics educational program on musculoskeletal disorders in nursing staff working in the operating room: A quasi-randomized controlled clinical trial. *International Journal of Environmental Research and Public Health*, 17(19), 1–12. <https://doi.org/10.3390/ijerph17197333>
- Abdu, S., Sili Beda, N., Nencyani, M. L., & Mentodo, R., 2022. “Analisis Faktor Determinan Risiko Low Back Pain (Lbp) Pada Mahasiswa.” *Jurnal Keperawatan Florence Nightingale* 5(1): 5–13.
- Afrilia, E. N., & Wispriyono, B., 2017. “Hubungan Kondisi Rumah Dan Kepadatan Lalat Di Sekitar Tempat Pembuangan Akhir Sampah.” *Jurnal Fakultas Kesehatan Masyarakat* 11(2): 99–104.
- Al Johani, W. A., & Pascua, G. P. (2019). Impacts of Manual Handling Training and Lifting Devices on Risks of Back Pain among Nurses: An Integrative Literature Review. *Nurse Media Journal of Nursing*, 9(2), 210–230. <https://doi.org/10.14710/nmjn.v9i2.26435>
- Alzahrani, H., Mackey, M., Stamatakis, E., Zadro, J. R., & Shirley, D. (2019). The association between physical activity and low back pain: a systematic review and meta-analysis of observational studies. *Scientific Reports*, 9(1). <https://doi.org/10.1038/s41598-019-44664-8>
- Amelot, A., Mathon, B., Haddad, R., Renault, M., Duguet, A., Steichen, O., 2019. “Low Back Pain among Medical Students: A Burden and an Impact to Consider!” *Spine* 44(19): 1390–95.
- Andersen, L. L., burdorf, A., Fallentin, N., Persson, R., Jakobse, M. D., Mortensen, O. S., Clausen, T., Holtermann, A., 2014. “Patient Transfers and Assistive Devices: Prospective Cohort Study on the Risk for Occupational Back Injury among Healthcare Workers.” *Scandinavian Journal of Work, Environment and Health* 40(1): 74–81
- Aprilianne, Cherrilyn, Gracia, G., & Nugraha, P., 2023. “Analisa Faktor Ergonomi Tenaga Kerja Konstruksi Untuk Pekerjaan Pembetonan Pada Proyek Apartemen di Daerah Jakarta Utara.” *Dimensi Pratama Teknik Sipil* 12(1): 17–24.
- Asuquo, G., E., Tighe, S. M., & Bradshaw, C., (2021). Interventions to reduce work-related musculoskeletal disorders among healthcare staff in nursing homes; An integrative literature review. In *International Journal of Nursing Studies Advances* (Vol. 3). Elsevier B.V. <https://doi.org/10.1016/j.ijnsa.2021.100033>
- Aszar, Daeq, F. D., Imandiri, A., Mustika, A., 2019. “Therapy for Low Back Pain with Acupuncture and Turmeric.” *Journal Of Vocational Health Studies* 2(2):74-79
- Bento, T. P. F., Genebra, C. V. dos S., Maciel, N. M., Cornelio, G. P., Simeão, S. F. A. P., & Vitta, A. (2020). Low back pain and some associated factors: is there any difference between genders? *Brazilian Journal of Physical Therapy*, 24(1), 79–87. <https://doi.org/10.1016/j.bjpt.2019.01.012>



Benynda, T., 2016. "Hubungan Cara Kerja Angkat Angkut Dengan Keluhan Low Back Pain Pada Porter Di Pasar Tanah Abang Blok A." *Jurnal Kesehatan Masyarakat* (Jakarta): Fakultas Kesehatan Masyarakat, Universitas Esa Ung.

Cohen, Jacob (1960). "A coefficient of agreement for nominal scales". *Educational and Psychological Measurement*. 20 (1): 37–46.

Dahlan, M. S. (2011). *Statistik untuk Kedokteran dan Kesehatan: Edisi 5 Seri Evidence- based Medicine 1*. Salemba Medika.

Pangestu, D., Shania, Jumaiyah, W., 2021. "Hubungan Posisi Ergonomi dengan Kejadian Low back Pain pada Perawat Rawat Inap Rumah Sakit Islam Cempaka Putih Jakarta". Program Studi Ilmu Keperawatan, and Fakultas Ilmu Keperawatan, Universitas Muhammadiyah Jakarta.

Fitri, N. A., 2021. "Upaya Peningkatan Kesehatan dan Kebugaran Jasmani melalui Olahraga di Fitness Center Health and Sport Center Fakultas Ilmu Keolahragaan Universitas Negeri Yogyakarta.". Universitas Negeri Yogyakarta

Gultom, Y. L. E. (2017). "Gambaran Sikap Kerja dan Keluhan Musculoskeletal Pada Pekerja di Pabrik Keripik UD. Kreasi Lutvi Desa Tuntungan II Kecamatan Pancur Bayu Medan. Universitas Sumatera Utara.

Haniati, F. R. 2018." *Hubungan Teknik Memindahkan Pasien Yang Dilakukan Oleh Perawat Ruang Operasi Terhadap Resiko Kejadian LBP pada Perawat Ruang Operasi RSUP DR Cipto Mangunkusumo Jakarta.*" Universitas Muhammadiyah Jakarta.
<https://www.semanticscholar.org/paper/Hubungan-Teknik-Memindahkan-Pasien-dengan-Risiko-di-Haniati-Rayasari/>

Hoe, V. C. W., Urquhart, D. M., Kelsall, H. L., Zamri, E. N., & Sim, M. R. (2018). Ergonomic interventions for preventing work-related musculoskeletal disorders of the upper limb and neck among office workers. In *Cochrane Database of Systematic Reviews* (10). John Wiley and Sons Ltd. <https://doi.org/10.1002/14651858.CD008570.pub3>

Ingraham, A., Wang, X., Havlena, J., Hanion, B., Saucke, M., Schumacher, J., Taylor, S. F., Greenberg, C., 2019." Factors Associated with the Interhospital Transfer of Emergency General Surgery Patients." *J Surg Res* 240: 191–200.

Ji, X., Hettiarachchige, R. O., Littman, A. L. E., & Piovesan, D., 2023. "Using Digital Human Modelling to Evaluate the Risk of Musculoskeletal Injury for Workers in the Healthcare Industry." *Sensors* 23(5).2781 <https://doi.org/10.3390/s23052781>

Kastelic, Kaja, Kozinc, Z., & Šarabon, N., 2018. "Sitting and Low Back Disorders: An Overview of the Most Commonly Suggested Harmful Mechanisms." *Collegium Antropologicum* 42(1): 73–79.

Kementerian Kesehatan Republik Indonesia. (2020). *PMK No. 3 tahun 2020 tentang Klasifikasi dan Perizinan Rumah Sakit*.
https://bandikdok.kemkes.go.id/assets/file/PMK_No_3_Th_2020_ttg_Klasifikasi_dan_Perizinan_Rumah_Sakit.pdf



Lumintang, P., 2015. "Perbedaan Tingkat Stres Kerja Perawat Instalasi Gawat Darurat dan Unit Rawat Inap di Rumah Sakit Pancaran kasih GMIM Manado." *Ejournal Keperawatan (e-Kep)* Volume 3. Nomor 1. <http://ejournal.unsrat.ac.id/index.php/jkp/article/viewFile/7446/6991>.

Mahmud, Rahardjo, S., Mahendra, R. i., Wicaksana, A. L., Hertanti, N. S., 2021. "The Prevalence and Risk Factors of Low Back Pain among the Nurses at Sardjito Hospital, Yogyakarta, Indonesia." *Anaesthesia, Pain and Intensive Care* 25(1): 21–28.

Mandasari, Tri, C., Fathi, M., Akbar, M. S., & Fadhilah, I. Q., 2023. "Pemberdayaan Kader Kesehatan Melalui Program Pembinaan Fisik Lansia Untuk Meningkatkan Kemampuan Fungsional Tulang Belakang." *Jurnal Pengabdian Teknologi Informasi dan Kesehatan (DIANKES)* 1(1): 21–24.

Mayrika, Y. S., & Kurniawan, B., 2019. "Beberapa Faktor Yang Berpengaruh Terhadap Keluhan Nyeri Punggung Bawah Pada Penjual Jamu Gendong di Semarang." *Jurnal Promosi Kesehatan Indonesia* 4(1): 61–67.

Maysyaroh, A. 2016." *Hubungan patient handling dengan kejadian musculoskeletal disorders pada perawat RSU PKU Muhammadiyah Delanggu*". Universitas Muhammadiyah Surakarta.

Nurhafizhoh, F. H., 2019. "Perbedaan Keluhan Low Back Pain Pada Perawat Rawat Inap, Rawat Jalan, Dan IGD Di Rumah Sakit Islam Jakarta Cempaka Putih." ISSN 2502-3632 (Online) ISSN 2356-0304 (Paper) *Jurnal Online Internasional & Nasional* Vol. 7 No.1, Januari – Juni 2019 Universitas 17 Agustus 1945 Jakarta. http://lib.unnes.ac.id/35681/1/6411415121_Optimized.pdf.

Nursalam, 2018. "Metodologi Penelitian Ilmu Keperawatan: Pendekatan Praktis." Jakarta: Salemba.

Prabasari, N. A., 2021. "Application of the Role and Function of Nurses in Nursing Care for Elderly with Hypertension in the Community (Phenomenology Study)." *Jurnal Keperawatan Malang* 6(2): 115–26.

Pramudita, P., Tita, D. K., Agung, T. W., 2023. "Hubungan Sikap Kerja yang Ergonomi dengan Gangguan Muskuloskeletal pada Tenaga Kesehatan Gigi di Klinik Gigi Indonesia." *Jurnal Of Health and Medical* 3(2) 2774-5244

Prasetya, G. R. A., Sari, R. K., and Djanah, D., 2023. "Hubungan Antara Durasi Duduk Dengan Kejadian Nyeri Punggung Bawah." *Jurnal Keperawatan* 16(2): 519–26.

Purnomo, A., Endaryanto, A. H., Priasmoro, D. P., Abdullah, A., 2022. "Hubungan Posisi Perawat Dalam Melakukan Pasien Handling Transfer bed Terhadap Keluhan Nyeri Punggung Bawah Perawat Di Rumah Sakit Reksa Waluya Mojokerto." *Jurnal Keperawatan Muhammadiyah* 7(2).

Putri, R. N., Wahyuni, E., & Haryanto, A. (2021). Sikap kerja tidak ergonomis dan kejadian low back pain pada perawat. *Journal of Occupational Health*, 18(1), 56-63.

Rosa, S., Martins, D., Martins, M., Guimaraes, B., Cabral, L., Horta, L., 2021. "Body Mass Index and Musculoskeletal Pain: A Cross-Sectional Study." *Cureus* 13(2): 8–12.



Refresitaningrum, Edwindi, & Paskarini, P., 2019. "Analisa Sikap Kerja Dokter Gigi Yang Berhubungan Dengan Keluhan Nyeri Pinggang Di Rumah Sakit Surabaya." *Journal of Public Health Research and Community Health Development* 1(2): 109-119.

Rochmad, D., Mediani, H. S., & Nur aeni, A., (2019). "Factors Affecting Low Back Pain among ICU Nurses". *Nursing Jurnal Padjadjaran*. Universitas Padjadjaran. <https://doi.org/10.24198/jkp>

Saputra, A., 2020. "Sikap Kerja, Masa Kerja, dan Usia terhadap Keluhan Low Back Pain pada Pengrajin Batik." *Higeia Journal of Public Health Research and Development* 1(3):625-633

Setiorini, A., 2020. "OWAS (Ovako Work Analysis System)." *JK Unila* | 4(2): 197-205

Silaban, S., & Hidayah, N. Y., 2024. "Hubungan Usia Dan Durasi Kerja Terhadap Keluhan Low Back Pain Pada Karyawan Pt. Jakarta Ind.ustrial Estate Pulogadung Correlation Between Ages and Work Duration with Low Back Pain Injury on Employee of Pt Jakarta Industrial Estate." 9(1): 32–39

Sinaga, T. A., & Makkiyyah, F. A. (2021). Faktor Yang Mempengaruhi Nyeri Punggung Bawah Pada Usia Dewasa Madya di Jakarta dan Sekitarnya Tahun 2020. In *Seminar Nasional Riset Kedokteran*. 44-52

Sun, W., Yin, L., Zhang, T., Zhang, H., Zhang, R., & Cai, W. (2023). Prevalence of Work-Related Musculoskeletal Disorders among Nurses: A Meta-Analysis. *Iranian Journal of Public Health* (Vol. 52, Issue 3). 463-475 <https://creativecommons.org/licenses/by-nc/4.0/>

Taulaniemi, A., Kankaanpää, M., Tokola, K., Parkkari, J., & Suni, J. H. (2019). Neuromuscular exercise reduces low back pain intensity and improves physical functioning in nursing duties among female healthcare workers; Secondary analysis of a randomised controlled trial. *BMC Musculoskeletal Disorders*, 20(1). 1-15 <https://doi.org/10.1186/s12891-019-2678-x>

Uehara, M., Ikegami, S., Horiuchi, H., Takahashi, J., & Kato, H. (2021). Prevalence and related factors of low back pain in the general elderly population: A japanese cross-sectional study randomly sampled from a basic resident registry. *Journal of Clinical Medicine*, 10(18). <https://doi.org/10.3390/jcm10184213>

Wang, K., Zeng, X., Li, J., Guo, Y., & Wang, Z. (2024). The prevalence and risk factors of work-related musculoskeletal disorders among nurses in China: A systematic review and meta-analysis. *International Journal of Nursing Studies*, 157. 104826 <https://doi.org/10.1016/j.ijnurstu.2024.104826>

Widodo, S. (2020). Physical Fitness and Its Relationship to Low Back Pain in Healthcare Workers. *Indonesian Journal of Occupational Health*, 12(1), 45-53.

Yokota, J., Fukutani, N., Nin, K., Yamanaka, H., Yasuda, M., Tashiro, Y., Matsushita, T., Suzuki, Y., Yokota, I., Teramukai, S., & Aoyama, T. (2019). Association of low back pain with presenteeism in hospital nursing staff. *Journal of Occupational Health*, 61(3), 219–226. <https://doi.org/10.1002/1348-9585.12030>



Hubungan sikap kerja saat transfer bed dengan nyeri punggung bawah (NPB) perawat di instalasi rawat

inap (IRNA) I Rsup Dr Sardjito Yogyakarta

Ari Wahyuningsih, Arifin Triyanto, S. Kep., Ns., M. Kep., Sp. Kep.MB

Universitas Gadjah Mada, 2025 | Diunduh dari <http://etd.repository.ugm.ac.id/>

UNIVERSITAS
GADJAH MADA

Zakerian, S. A., Afzalinejhad, M., Mahmodi, M., & Sheibani, N. (2021). Determining the Efficiency of Ergonomic Belt During Patient Handling and its Effect on Reducing Musculoskeletal Disorders in Nurses. *SAGE Open Nursing*, 7. 1-9 <https://doi.org/10.1177/23779608211057939>