

DAFTAR PUSTAKA

- A.Y, S. 2020, Static Sitting on Low Back Pain among Bus Drivers. *Austism Journal of Musculoskeletal Disorders*, 7(1), 1054. www.austinpublishinggroup.com
- Adamu, A. S., Ibrahim, A. A., Ahmad, R. Y., Akindele, M. O., Kaka, B., & Mukhtar, N. B. 2019, Cross-cultural Adaptation and Validation of the Hausa Version of the Oswestry Disability Index 2.1a for Patients with Low Back Pain. *Spine*, 44(18), E1092–E1102. <https://doi.org/10.1097/BRS.0000000000003068>
- Adha, M. Z., Bahri, S., Mardhotila, S. Y., & Artikel, I. 2020, Jurnal Mahasiswa dan Penelitian Kesehatan Analisis Posisi Kerja menggunakan Metode Ovako Working Analysis System (OWAS) dan Kebiasaan Olahraga Terhadap Keluhan Low Back Pain (LBP). *JUMANTIK (Jurnal Ilmiah Penelitian Kesehatan)*, 7(2), 26–31.
- Agency for Clinical Innovation. 2020, Pain and Physical Activity. *Government of New South Wales*, 2–4. <http://www.aci.health.nsw.gov.au/chronic-pain/painbytes/pain-and-physical-activity>
- Alcántara-Bumbiedro, S., Flórez-García, M. T., Echávarri-Pérez, C., & García-Pérez, F. 2006, Oswestry low back pain disability questionnaire. *Rehabilitacion*, 40(3), 150–158. [https://doi.org/10.1016/S0048-7120\(06\)74881-2](https://doi.org/10.1016/S0048-7120(06)74881-2)
- Alfiansyah, M. A., & Febriyanto, K. 2021, Hubungan Indeks Massa Tubuh dengan Keluhan Low back pain Pada Operator Alat Berat. *Borneo Student Research*, 3(1), 1–6.
- AlHamam, N. M., Buhalim, R. A., AlSaeed, M. N., AlFuraikh, B. F., & AlJughaiman, M. S. 2022, Low back pain and its correlations with poor sleep quality among health care providers. *Journal of Taibah University Medical Sciences*, 17(1), 28–37. <https://doi.org/10.1016/j.jtumed.2021.09.002>
- Alifah Sifai, I., Lestantyo, D., & Jayanti, S. 2018, Faktor-Faktor Yang Berhubungan Dengan Keluhan Low Back Pain Pada Sopir Ikas (Ikatan Angkutan Sekolah) Di Kabupaten Semarang. *Jurnal Kesehatan Masyarakat (e-Journal)*, 6(5), 555–562. <http://ejournal3.undip.ac.id/index.php/jkm>
- Almeida, M., Saragiotto, B., Richards, B., & Maher, C. G. 2018, Primary care management of non-specific low back pain: Key messages from recent clinical guidelines. *Medical Journal of Australia*, 208(6), 272–275. <https://doi.org/10.5694/mja17.01152>

- 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), 1–10. <https://doi.org/10.1038/s41598-019-44664-8>
- Amjad, F., Mohseni-Bandpei, M. A., Gilani, S. A., Ahmad, A., Waqas, M., & Hanif, A. 2021, Urdu version of Oswestry disability index; a reliability and validity study. *BMC Musculoskeletal Disorders*, 22(1), 1–11. <https://doi.org/10.1186/s12891-021-04173-0>
- Amrulloh, F. F., Jayanti, S., Wahyuni, I., & Widjasena, B. 2017, Faktor-faktor Yang Berhubungan Dengan Keluhan Nyeri Punggung Bawah Pada Supir Bus Antar Kota Antar Propinsi PO Nusantara Trayek Kudus-Jakarta. *Jurnal Kesehatan Masyarakat (JKM)*, 5(2), 113–120.
- Andini, F. 2015, Fauzia Andini| Risk Factors of Low Back Pain in. *Workers J MAJORITY* /, 4, 12.
- Anggraika, P. 2019, Hubungan Posisi Duduk dengan Kejadian Low Back Pain (LBP) pada Pegawai Stikes. *Jurnal 'Aisyiyah Medika*, 4(1), 1–10. <https://doi.org/10.36729/jam.v4i1.227>
- Aprilia, L., Solichin, S., & Puspitasari, S. T. 2021, Gambaran Keluhan Low Back Pain (LBP) pada Pekerja Menjahit dengan Pengukuran Visual Analog Scale (VAS). *Sport Science and Health*, 3(3), 117–124. <https://doi.org/10.17977/um062v3i32021p117-124>
- Ariyanah, N. S., & Ersila, W., 2022, The Correlation between Working Period and Long Sitting Driving with Low Back Pain Incidence on J & T Expeditionary Couriers in Pekalongan Hubungan Masa Bekerja Dan Lama Duduk Berkendara Dengan Kejadian Low Back Pain Pada. *Prosiding of The 16th University Research Colloquium*, 43, 1113–1119.
- Arwinno, L. D. 2018, Keluhan Nyeri Punggung Bawah pada Penjahit Garmen. *Higeia Journal Of Public Health Research And Development*, 2(3), 406–416.
- Astuti, I., Septriana, D., Romadhona, N., Achmad, S., & Kusmiati, M. 2019, Nyeri Punggung Bawah serta Kebiasaan Merokok , Indeks Massa Tubuh , Masa Kerja , dan Beban Kerja pada Pengumpul Sampah Low Back Pain and Smoking Habits , Body Mass Index , Working Period and Workload on Garbage Collectors. *Jurnal Integrasi Kesehatan & Sains*, 1(22), 74–78. <http://ejournal.unisba.ac.id/index.php/jiks>
- Atchison, J. W., & Vincent, H. K. 2012, Obesity and low back pain: relationships and treatment. *Pain Management*, 2(1), 79–86. <https://doi.org/10.2217/pmt.11.64>

- Awaluddin, Syafitri, N. M., Rahim, M. R., Thamrin, Y., Rachmat, M., Ansar, J., & Muhammad, L. 2019, Hubungan Beban Kerja dan Sikap Kerja dengan Keluhan Low Back Pain pada Pekerja Rumah Jahit Akhwat Makassar. *Jkmm*, 2(1), 25–32. <https://doi.org/10.30597/jkmm.v2i1.10704>
- Bachtiar, F. 2022, Hubungan Antara Aktivitas Fisik Dengan Nyeri Punggung Bawah Pada Pramugari Maskapai X Air. *Indonesian Journal of Health Development*, 4(2), 54–59. <https://doi.org/10.52021/ijhd.v4i2.104>
- Badan Pusat Statistik (BPS). 2023, *Booklet Survei Angkatan Kerja Nasional (SAKERNAS) Februari 2023*.
- Bailey, D. P., Broom, D. R., Christmas, B. C. R., Taylor, L., Flynn, E., & Hough, J. 2015, Breaking up prolonged sitting time with walking does not affect appetite or gut hormone concentrations but does induce an energy deficit and suppresses postprandial glycaemia in sedentary adults. *Applied Physiology, Nutrition and Metabolism*, 41(3), 324–331. <https://doi.org/10.1139/apnm-2015-0462>
- Balling, M., Holmberg, T., Petersen, C. B., Aadahl, M., Meyrowitsch, D. W., & Tolstrup, J. S. 2019, Total sitting time, leisure time physical activity and risk of hospitalization due to low back pain: The Danish Health Examination Survey cohort 2007–2008. *Scandinavian Journal of Public Health*, 47(1), 45–52. <https://doi.org/10.1177/1403494818758843>
- Bento, T. P. F., Genebra, C. V. dos S., Maciel, N. M., Cornelio, G. P., Simeão, S. F. A. P., & Vitta, A. de. 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/https://doi.org/10.1016/j.bjpt.2019.01.012>
- Bintang, A. K., Santosa, I., Goysal, Y., Akbar, M., & Aulina, S. 2021, Relationship between sleep quality and pain intensity in patients with chronic low back pain. *Medicina Clinica Practica*, 4. <https://doi.org/10.1016/j.mcpsp.2021.100208>
- Budiasa, I. K. 2021, *Beban Kerja dan Kinerja Sumber Daya Manusia* (N. K. Suryani (ed.); Pertama). CV Pena Persada.
- Burton, A. K., Balagué, F., Cardon, G., Eriksen, H. R., Henrotin, Y., Lahad, A., Leclerc, A., Müller, G., & Van Der Beek, A. J. 2006, Chapter 2: European guidelines for prevention in low back pain November 2004. *European Spine Journal*, 15(SUPPL. 2), 136–168. <https://doi.org/10.1007/s00586-006-1070-3>
- Campanini, M. Z., González, A. D., Andrade, S. M., Giroto, E., Cabrera, M. A. S., Guidoni, C. M., Araujo, P. C. A., & Mesas, A. E. 2022, Bidirectional associations between chronic low back pain and sleep quality: A cohort study with schoolteachers. *Physiology and Behavior*, 254(June). <https://doi.org/10.1016/j.physbeh.2022.113880>

- Chandra, A., & Rahmanto, S. 2023, Analisis Resiko Masa Kerja Terhadap Keluhan Low Back Pain Pada Kurir Ninja Xpress Lowokwaru, Kota Malang. *Advanced In Social Humanities Research*, 4(3), 123–135. <https://www.adshr.org/index.php/vo/article/view/17>
- Chen, S., Chen, M., Wu, X., Lin, S., Tao, C., Cao, H., Shao, Z., & Xiao, G. 2022, Global, regional and national burden of low back pain 1990–2019: A systematic analysis of the Global Burden of Disease study 2019. *Journal of Orthopaedic Translation*, 32(July 2021), 49–58. <https://doi.org/10.1016/j.jot.2021.07.005>
- Chiarotto, A., & Koes, B. W. 2022, Nonspecific Low Back Pain. *New England Journal of Medicine*, 386(18), 1732–1740. <https://doi.org/10.1056/nejmcp2032396>
- Citko, A., Górski, S., Marcinowicz, L., & Górska, A. 2018, Sedentary lifestyle and nonspecific low back pain in medical personnel in North-East Poland. *BioMed Research International*, 2018. <https://doi.org/10.1155/2018/1965807>
- Corputty, D. Y., Amat, A. L. S., & Kareri, D. G. R. 2021, Hubungan Lama Duduk Dan Stres Kerja Dengan Low Back Pain Pada Karyawan Bank Di Kota Atambua. *Cendana Medical Journal (CMJ)*, 9(1), 94–101. <https://doi.org/10.35508/cmj.v9i1.4941>
- D'Errico, A., Falkstedt, D., Almroth, M., Badarin, K., Hemmingsson, T., & Kjellberg, K. 2022, Long-term sick leave for back pain, exposure to physical workload and psychosocial factors at work, and risk of disability and early-age retirement among aged Swedish workers. *International Archives of Occupational and Environmental Health*, 95(7), 1521–1535. <https://doi.org/10.1007/s00420-022-01862-8>
- Damayanti, M. D. 2023, *Hubungan Karakteristik Individu dan Postur Kerja dengan Keluhan Low Back Pain Pada Kurir Ekspedisi Di PT Pos Indonesia Kota Semarang*. Universitas Diponegoro.
- Delitto, A., George, S., Van Dillen, L., Whitman, J., & Sowa, G. 2012, Low Back Pain: Clinical Practice Guidelines Linked to the International Classification of Functioning, Disability, and Health from the Orthopaedic Section of the American Physical Therapy Association Anthony. *J Orthop Sports Phys Ther*, 42(4). <https://doi.org/10.2519/jospt.2012.42.4.A1.Low>
- Dionne, C. E., Von Korff, M., Koepsell, T. D., Deyo, R. A., Barlow, W. E., & Checkoway, H. 2001, Formal education and back pain: A review. *Journal of Epidemiology and Community Health*, 55(7), 455–468. <https://doi.org/10.1136/jech.55.7.455>
- Djuartina, T., Yauwono, A., Irawan, R., & Steven, A. 2020, Hubungan Paparan Whole Body Vibration Dengan Low Back Pain Pada Pengemudi Ojek Online. *Journal Of*

- The Indonesian Medical Association*, 70(10), 222–227.
<https://doi.org/10.47830/jinma-vol.70.10-2020-301>
- Doda, D. V., Wariki, W. M. V., Wungouw, H. I. S., Engka, J. N. A., Pangemanan, D. H. C., Kawatu, P. A. T., Marunduh, S., Polii, H., Sapulete, I. M., & Kaseke, M. M. 2020, Work related low back pain, psychosocial, physical and individual risk factors among nurses in emergency care unit. *Enfermería Clínica*, 30, 31–35.
<https://doi.org/10.1016/J.ENFCLI.2020.06.009>
- Duthey, B. 2013, *Background Paper 6.24 Low Back Pain*.
- Dwilago, I. T., Anggraini, M. T., & Setiawan, M. R. 2022, Hubungan Gerakan Berulang dan Posisi Kerja dengan Keluhan Musculoskeletal Disorders pada Pekerja Fillet Ikan di Kota Tegal. *Jurnal Medica Arteriana*, 4(2), 90–97.
<https://jurnal.unimus.ac.id/index.php/MedArt>
- Egozi, L., Reiss-Hevlin, N., Dallahsheh, R., & Pardo, A. 2022, Couriers' safety and health risks before and during the COVID-19 pandemic. *International Archives of Occupational and Environmental Health*, 95(3), 589–598.
<https://doi.org/10.1007/s00420-021-01795-8>
- Ergonomic Plus. 2014, A Step-by-Step Guide Rapid Entire Body Assessment (REBA). *Ergonomics Plus Inc*, 11. <http://ergo-plus.com/wp-content/uploads/REBA-A-Step-by-Step-Guide.pdf>
- Ferdianti, F., Pitriyanti, L., & M.F, Y. 2022, Posisi Duduk dan Keluhan Nyeri Punggung Bawah Pada Kurir Pengantar Barang di Kota Tanjungpinang. *Jurnal Ilmu Dan Teknologi Kesehatan Terpadu (JITKT)*, 2(2), 104–112.
- Feriyanti, D., Purnawan, A., & ... 2022, Hubungan Umur, Lama Berkendara Dan Posisi Duduk Dengan Keluhan Nyeri Punggung Bawah Pada Pengendara Ojek Online Di Wilayah Kecamatan Pamulang. *Frame of Health Journal*, 1(2).
<http://openjournal.wdh.ac.id/index.php/fohj/article/view/395%0Ahttp://openjournal.wdh.ac.id/index.php/fohj/article/viewFile/395/307>
- Ferreira, M. L., De Luca, K., Haile, L. M., Steinmetz, J. D., Culbreth, G. T., Cross, M., Kopec, J. A., Ferreira, P. H., Blyth, F. M., Buchbinder, R., Hartvigsen, J., Wu, A. M., Safiri, S., Woolf, A. D., Collins, G. S., Ong, K. L., Vollset, S. E., Smith, A. E., Cruz, J. A., ... March, L. M. 2023, Global, regional, and national burden of low back pain, 1990–2020, its attributable risk factors, and projections to 2050: a systematic analysis of the Global Burden of Disease Study 2021. *The Lancet Rheumatology*, 5(6), e316–e329. [https://doi.org/10.1016/S2665-9913\(23\)00098-X](https://doi.org/10.1016/S2665-9913(23)00098-X)
- Ferrett, E. 2020, Musculoskeletal health. In *Health and Safety at Work Revision Guide* (pp. 99–112). <https://doi.org/10.4324/9781003039099-9>

- Filla, F. R. 2022, Pemilihan Moda Transportasi Darat dalam Mendukung Efektivitas Pengiriman Barang. *Jurnal Bisnis, Logistik, Dan Supply Chain*, 2(2), 52–57. <https://doi.org/10.55122/blogchain.v2i2.526>
- Forde, C. 2005, Scoring the International Physical Activity Questionnaire (IPAQ) Exercise Prescription for the Prevention and Treatment of Disease. In *Trinity College Dublin* (pp. 2–4).
- G.L., B., & E.O, C. 1963, The Effects of Bronchitis, Smoking and Occupation on Ventilation. *The American Review of Respiratory Disease*. <https://doi.org/10.4324/9781003291107>
- Gatchel, R. J. 2017, Low Back Pain: Recent Advances and Perspectives. In R. Gatchel (Ed.), *Low Back Pain: Recent Advances and Perspectives* (1st Editio). MDPI AG. <https://doi.org/10.3390/books978-3-03842-656-1>
- GBD 2019 Diseases. 2020, Global burden of 369 diseases and injuries in 204 countries and territories, 1990–2019: a systematic analysis for the Global Burden of Disease Study 2019. *The Lancet*, 396(10258), 1204–1222. [https://doi.org/10.1016/S0140-6736\(20\)30925-9](https://doi.org/10.1016/S0140-6736(20)30925-9)
- Ge, L., Pereira, M. J., Yap, C. W., & Heng, B. H. 2022, Chronic low back pain and its impact on physical function, mental health, and health-related quality of life: a cross-sectional study in Singapore. *Scientific Reports*, 12(1), 1–10. <https://doi.org/10.1038/s41598-022-24703-7>
- Gedin, F., Alexanderson, K., Zethraeus, N., & Karampampa, K. 2020, Productivity losses among people with back pain and among population-based references: A register-based study in Sweden. *BMJ Open*, 10(8), 1–8. <https://doi.org/10.1136/bmjopen-2019-036638>
- Gordon, R., & Bloxham, S. 2016, A systematic review of the effects of exercise and physical activity on non-specific chronic low back pain. *Healthcare (Switzerland)*, 4(2). <https://doi.org/10.3390/healthcare4020022>
- Graveling, R. 2019, *Ergonomics and Musculoskeletal Disorders (MSDs) in the Workplace; A Forensic and Epidemiological Analysis*. Taylor & Francis Group.
- Green, B. N., Johnson, C. D., Snodgrass, J., Smith, M., & Dunn, A. S. 2016, Association Between Smoking and Back Pain in a Cross-Section of Adult Americans. *Cureus*, 8(9), 13–14. <https://doi.org/10.7759/cureus.806>
- Guesteva, V. C., Angraini, R. A., Maudi, L. P., Rahmadiani, P. Y., & Azzahra, N. 2021, Faktor-Faktor Penyebab Kejadian Low Back Pain pada Pekerja Kantoran: Systematic Review. *Jurnal Ilmiah Kesehatan Masyarakat: Media Komunikasi Komunitas Kesehatan Masyarakat*, 13(3), 151–159.

<https://doi.org/10.52022/jikm.v13i3.225>

- Hanifa, E., Koesmayadi, D., & Susanti, Y. 2020, Hubungan Beban Kerja Fisik dengan Kejadian Low Back Pain (LBP) pada Kuli Panggul Beras di Pasar Induk Gedebage Bandung The Relationship of Physical Workload with the Incidence of Low Back Pain (LBP) in Rice Hip Coolies at Pasar Induk Gedebage Bandung. *Jurnal Integrasi Kesehatan Dan Sains (JKS) Online*, 2(22), 122–125. <http://ejournal.unisba.ac.id/index.php/jiks>
- Hanifah, N. M., Alwi, M. K., & Patimah, S. 2021, Hubungan Status Gizi dan Aspek Ergonomi dengan Kejadian Low Back Pain pada Pekerja di PT Varia Usaha Beton. *Window of Public Health Journal*, 01(06), 672–683.
- Hansraj, K. K. 2014, Assessment of stressess in the cervical spine caused by posture and position of the head. *Surgical Technology International*. 25, 277 - 279.
- Hartvigsen, J., Hancock, M. J., Kongsted, A., Louw, Q., Ferreira, M. L., Genevay, S., Hoy, D., Karpainen, J., Pransky, G., Sieper, J., Smeets, R. J., Underwood, M., Buchbinder, R., Cherkin, D., Foster, N. E., Maher, C. G., van Tulder, M., Anema, J. R., Chou, R., ... Woolf, A. 2018, What low back pain is and why we need to pay attention. *The Lancet*, 391(10137), 2356–2367. [https://doi.org/10.1016/S0140-6736\(18\)30480-X](https://doi.org/10.1016/S0140-6736(18)30480-X)
- Haryanto, Y. P., Wardhani, K., & Sari, S. K. 2022, Hubungan Duduk Lama dan Ketidaksesuaian Kursi terhadap Nyeri Punggung Bawah Pada Penjahit. *Jurnal Kedokteran STM (Sains Dan Teknologi Medik)*, V(I), 17–21.
- Hayden, J. A., Ellis, J., Ogilvie, R., Malmivaara, A., & van Tulder, M. W. 2021, Exercise therapy for chronic low back pain. In *Cochrane Database of Systematic Reviews* (Issue 9). <https://doi.org/10.1002/14651858.CD009790.pub2>
- Hijah, N. F., Setyaningsih, Y., & Jayanti, S. 2021, Iklim Kerja, Postur Kerja, dan Masa Kerja Terhadap Kelelahan Kerja pada Pekerja Bengkel Las. *Jurnal Penelitian Dan Pengembangan Kesehatan Masyarakat Indonesia*, 2(1), 11–16. <https://doi.org/10.15294/jppkmi.v2i1.47282>
- Hutabarat, Y. 2017, *Dasar-Dasar Pengetahuan Ergonomi* (Tim MNC Publishing (ed.); Cetakan I, Vol. 21, Issue 1). Media Nusa Creative. [http://eprints.itn.ac.id/3450/1/Buku4_Buku_Dasar-Dasar Pengetahuan Ergonomi.pdf](http://eprints.itn.ac.id/3450/1/Buku4_Buku_Dasar-Dasar_Pengetahuan_Ergonomi.pdf)
- Iker, K., & Luckhaupt, S. 2019, *Low Back Pain among Workers: The Problem and What to Do About It | Blogs | CDC*. CDC. <https://blogs.cdc.gov/niosh-science-blog/2019/07/08/lbp/>
- Iridiastadi, H., & Yassierli. 2017, *Ergonomi Suatu Pengantar*. Cetakan keempat.

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HUBUNGAN BEBAN KERJA FISIK DAN POSISI DUDUK TERHADAP KELUHAN LOW BACK PAIN PADA KURIR BERSEPEDA MOTOR PT SPY CIRACAS TAHUN 2023

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Bandung: PT Remaja Rosdakarya Offset.

- Jakobsen, M. D., Sundstrup, E., Brandt, M., Persson, R., & Andersen, L. L. 2018, Estimation of physical workload of the low-back based on exposure variation analysis during a full working day among male blue-collar workers. Cross-sectional workplace study. *Applied Ergonomics*, 70(February), 127–133. <https://doi.org/10.1016/j.apergo.2018.02.019>
- Janik, F., Caby, I., Olivier, N., Seichepine, A., Masquelier, B., Barbier, S., Thevenon, A., & Fabre, C. 2023, Physical Activity Care for Chronic Low Back Pain in Out-Patient Practice. *Annals of Clinical Case Reports*, 8(2402), 1–6.
- Jongprasitkul, N., Konchalard, K., & Sinthoppong, K. 2016, Prevalence of Low Back Pain and Associated Factors Among Motorcycle Taxi Drivers in Sriracha. *Chulalongkorn Medical Journal*, 60(1).
- Justitia, B., Aryanti, N., Miftahurrahmah, Tan, E. I. A., Suzan, R., & Mutiarahma. 2022, Hubungan Kejadian Low Back Pain dengan Indeks Massa Tubuh pada Pengendara Motor di Kota Jambi. *Jmj*, 10(1), 148–153. <https://online-journal.unja.ac.id/kedokteran/article/view/18376%0Ahttps://online-journal.unja.ac.id/kedokteran/article/download/18376/13393>
- Kasih, B. A. T. 2023, Hubungan Usia, Beban Kerja, Posisi Tubuh, Dan Aktivitas Fisik Terhadap Kejadian Low Back Pain Pada Perawat Pelaksana Di RS EMC Sentul Tahun 2023. *Jurnal Pengabdian Ilmu Kesehatan*, 3(2). <https://ejurnal.politeknikpratama.ac.id/index.php/JPIKes/article/view/2235>
- Katuuk, M. E., & Karundeng, M. 2019, Hubungan Antara Aktivitas Fisik Dengan Nyeri Punggung Bawah Pada Perawat Di Rumah Sakit Umum Daerah Luwuk Banggai. *Jurnal Keperawatan*, 7(1). <https://doi.org/10.35790/jkp.v7i1.25208>
- Kemendes RI. 2013, Laporan Nasional Riskesdas 2013. In *Lembaga Penerbit Badan Penelitian dan Pengembangan Kesehatan*. http://labdata.litbang.kemkes.go.id/images/download/laporan/RKD/2013/Laporan_riskesdas_2013_final.pdf
- Kemendes RI. 2018, Laporan Nasional Riskesdas 2018. In *Lembaga Penerbit Badan Penelitian dan Pengembangan Kesehatan*. http://labdata.litbang.kemkes.go.id/images/download/laporan/RKD/2018/Laporan_Nasional_RKD2018_FINAL.pdf
- Kementerian Kesehatan RI. 2021, FactSheet Obesitas Kit Informasi Obesitas.pdf. In *Epidemi Obesitas* (pp. 1–8).
- Keskin, Y., Ürkmez, B., Öztürk, F., Kepekçi, M., & Aydın, T. 2021, *Correlation Between Sitting Duration and Position and Lumbar Pain among Office Workers*. 61(1), 1–6.

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<https://doi.org/10.14744/hnhj.2019.04909>

- Kurniati, H., Flora, R., & Sitorus, R. J. 2019, Analisis Pengaruh Whole Body Vibration (Wbv) Terhadap Keluhan Low Back Pain (Lbp) Pada Operator Alat Berat Di Pt. X. *JUMANTIK (Jurnal Ilmiah Penelitian Kesehatan)*, 4(1), 29. <https://doi.org/10.30829/jumantik.v4i1.3121>
- Lehto, M., & Landry, S. J. 2013, Introduction to Human Factors and Ergonomics for Engineers. In G. Salvendy (Ed.), *Taylor & Francis Group* (2nd Editio). CRC Press LLC. <https://doi.org/10.1201/b12385-6>
- Lestari, I., Russeng, S., & Thamrin, Y. 2023, Hubungan Beban Kerja Perawat dengan Keluhan Low Back Pain. *E-Journal Keperawatan*, 4(2), 118–125.
- Lunde, L. K., Koch, M., Hanvold, T. N., Wærsted, M., & Veiersted, K. B. 2015, Low back pain and physical activity - A 6.5 year follow-up among young adults in their transition from school to working life Plant-abiotic interactions. *BMC Public Health*, 15(1). <https://doi.org/10.1186/s12889-015-2446-2>
- Malińska, M., Bugajska, J., & Bartuzi, P. 2021, Occupational and non-occupational risk factors for neck and lower back pain among computer workers: a cross-sectional study. *International Journal of Occupational Safety and Ergonomics*, 27(4), 1108–1115. <https://doi.org/10.1080/10803548.2021.1899650>
- Martimo, K. 2010, Musculoskeletal disorders , disability and work. In V. Mertenan (Ed.), *Finnish institute of occupational health* (Vol. 89). Juvenes Print.
- Micheletti, J. K., Bláfoss, R., Sundstrup, E., Bay, H., Pastre, C. M., & Andersen, L. L. 2019, Association between lifestyle and musculoskeletal pain: Cross-sectional study among 10,000 adults from the general working population. *BMC Musculoskeletal Disorders*, 20(1), 1–8. <https://doi.org/10.1186/s12891-019-3002-5>
- Milenia, N. 2022, Pengaruh Posisi Duduk Terhadap Keluhan Low Back Pain Pada Mahasiswa Universitas Yarsi Angkatan 2018. *Jurnal Ilmiah Mahasiswa Kedokteran Indonesia (JIMKI)*, 10(1), 11–21. <https://bapin-ismki-e-journal.id/jimki/article/view/510>
- Mukoka, G., Olivier, B., & Ravat, S. 2019, Level of knowledge, attitudes and beliefs towards patients with chronic low back pain among final year school of therapeutic sciences students at the university of the Witwatersrand – A cross-sectional study. *South African Journal of Physiotherapy*, 75(1), 1–6. <https://doi.org/10.4102/sajp.v75i1.683>
- Mulfianda, R., Desreza, N., & Maulidya, R. 2021, Faktor-faktor yang Berhubung dengan Kejadian Nyeri Punggung Bawah (NPB) pada Karyawan di Kantor PLN Wilayah Aceh. *Journal of Healthcare Technology and Medicine*, 7(1), 253–262.

<http://jurnal.uui.ac.id/index.php/JHTM/article/view/1415>

- Nabi, M. H., Hawlader, M. D. H., Naz, F., Siddiquea, S. R., Hasan, M., Hossian, M., & Dalal, K. 2023, Low back pain among professional bus drivers: a cross-sectional study from Bangladesh. *BMC Public Health*, 23(1), 1–9. <https://doi.org/10.1186/s12889-023-16018-7>
- National Council for Osteopathic Research. 1980, *Oswestry Disability Index (ODI)*. 413–420.
- Nieminen, L. K., Pyysalo, L. M., & Kankaanpää, M. J. 2021, Prognostic factors for pain chronicity in low back pain: a systematic review. *PAIN Reports*, 6(1), e919. <https://doi.org/10.1097/pr9.0000000000000919>
- O'Hagan, E. T., Cashin, A. G., Hübscher, M., Alsaadi, S. M., Gustin, S., & McAuley, J. H. 2023, Does poor sleep quality lead to increased low back pain the following day? *Scandinavian Journal of Pain*, 23(2), 333–340. https://doi.org/10.1515/sjpain-2022-0064/downloadasset/suppl/j_sjpain-2022-0064_suppl_002.pdf
- Park, J. H., Moon, J. H., Kim, H. J., Kong, M. H., & Oh, Y. H. 2020, Sedentary Lifestyle: Overview of Updated Evidence of Potential Health Risks. *Korean Journal of Family Medicine*, 41(6), 365–373. <https://doi.org/10.4082/KJFM.20.0165>
- Petersen, J., Kirkeskov, L., Hansen, B. B., Begtrup, L. M., Flachs, E. M., Boesen, M., Hansen, P., Bliddal, H., & Kryger, A. I. 2019, Physical demand at work and sick leave due to low back pain: A cross-sectional study. *BMJ Open*, 9(5), 1–7. <https://doi.org/10.1136/bmjopen-2018-026917>
- Pramana, I. G. B. T., & Adiatmika, I. P. G. 2020, *Hubungan posisi dan lama duduk dalam menggunakan laptop terhadap keluhan low back pain pada mahasiswa fakultas kedokteran universitas udayana 1*. 9(8), 3–7.
- Pratama, S., Asnifatima, A., & Ginanjar, R. 2019, Faktor- Faktor Yang Berhubungan Terhadap Postur Kerja Bus Pusaka Di Terminal Baranangsiang Kota Bogor Tahun 2018. *Jurnal Mahasiswa Kesehatan Masyarakat*, 2(4). <http://ejournal.uika-bogor.ac.id/index.php/PROMOTOR/article/viewFile/2245/1422>
- Pheasant, S. 2003, *Bodyspace: Anthropometry, Ergonomics and the Design of Work*. In *Taylor & Francis Group* (Second edi). Taylor & Francis. <https://doi.org/10.1038/sc.1989.63>
- Pratiwi, L. D., Saputra, I. K., & Manangkot, M. V. 2020, Hubungan Beban Kerja Fisik Dengan Keluhan Muskuloskeletal Pada Perawat Di Ruang Lely 1 Dan 2 Rsud Buleleng. *Coping: Community of Publishing in Nursing*, 8(4), 440. <https://doi.org/10.24843/coping.2020.v08.i04.p13>

- Rachmat, N., Utomo, P. C., Sambada, E. R., & Andyarini, E. N. 2019, Hubungan Lama Duduk dan Sikap Duduk terhadap Keluhan Nyeri Punggung Bawah pada Penjahit Rumahan Di Kecamatan Tasikmadu. *Journal of Health Science and Prevention*, 3(2), 79–85. <https://doi.org/10.29080/jhsp.v3i2.204>
- Radauceanu, A., Grzebyk, M., Boini, S., Dziurla, M., Atain-Kouadio, J. J., & Aublet-Couvelier, A. 2023, Low Back Pain and Upper-Extremity Musculoskeletal Disorders in French Postal Workers Driving Light-Duty Vehicles for Mail and Parcel Delivery. *International Journal of Environmental Research and Public Health*, 20(3). <https://doi.org/10.3390/ijerph20032509>
- Rahmawati, A. 2021, Risk Factor of Low Back Pain. *Jurnal Medika Hutama*, 3(1), 402–406.
- Ramdhani, A.N., Kariasa, I. M., Yona, S., Dahlia, D. 2015, Hubungan Tingkat Pengetahuan *Low Back Pain* dengan Keluhan LBP pada Perawat Pelaksana di Ruang Rawat Inap RSUP Fatmawati. Skripsi UI.
- Road & Garage. 2022, February 1. *Does Riding A Motorcycle Burn Calories? - Road & Garage*. Roadandgarage.Com. <https://roadandgarage.com/does-riding-motorcycle-burn-calories/>
- Satrio, M. A., Juhanna, I. V., Winaya, I. M. N., & Wibawa, A. 2020, Hubungan Sikap Kerja dan Durasi Berkendara terhadap Kejadian Low Back Pain Non Spesific pada Pengemudi Ojek Online di Kota Denpasar. *Majalah Ilmiah Fisioterapi Indonesia*, 8(2), 22. <https://doi.org/10.24843/mifi.2020.v08.i02.p05>
- Serranheira, F., Sousa-Uva, M., Heranz, F., Kovacs, F., & Sousa-Uva, A. 2020, Low Back Pain (LBP), work and absenteeism. *Work (Reading, Mass.)*, 65(2), 463–469. <https://doi.org/10.3233/WOR-203073>
- Siagian, B., Roestam, A. W., Soemarko, D. S., Hirawan, S., Widyahening, I. S., & Wibowo, S. 2022, Chronic Lower Back Pain and Its Relationship with Vibration Exposure and Sitting Duration; A Cross-Sectional Study Among Commercial Motorcycle Driver. *The Indonesian Journal of Community and Occupational Medicine*, 1(3), 154–161. <https://doi.org/10.53773/ijcom.v1i3.30.154-61>
- Sianturi, M., Sinaga, M., & Kalsum. 2015, Faktor-Faktor Yang Berhubungan Dengan Keluhan Low Back Pain (Nyeri Punggung Bawah) Pada Supir Angkot Rakyat Medan Ceria 103 Di Kota Medan Tahun 2015. *University of North Sumatra.*, 2015, 2–8.
- Silva, L., Costa, N., Rosa, C. S., Paulo, I. I., da Silva, N. M., Giracca, C., Simões, S. da S., Aquini, A. D. N., Merino, G., & Merino, E. A. D. 2022, Ergonomic Assessment of Postal Workers' Pain Symptoms and Musculoskeletal Risks Related To Parcel Processing Activity for Delivery. *EXCLI Journal*, 21, 744–756.

<https://doi.org/10.17179/excli2022-4857>

- Sinaga, T. A., & Makkiyyah, F. A. 2021, Faktor Yang Mempengaruhi Nyeri Punggung Bawah Pada Usia Dewasa Madya di Jakarta dan Sekitarnya Tahun 2020. *UPN Vet Jkt, Sensorik Ii*, 44–52. <https://conference.upnvj.ac.id/index.php/sensorik/article/view/993>
- Soares, L. F., Ribeiro, L. O. P., Seixas, M. T. T., Augusto, V. G., de Aquino, C. F., Pernambuco, A. P., & E Fernandes Lima, V. V. de A. 2023, Low Back Pain and Joint Position Changes in Cyclists: a Cross-Sectional Study. *Revista Brasileira de Medicina Do Esporte*, 29, 3–7. https://doi.org/10.1590/1517-8692202329022021_0413i
- Sribastav, S. Sen, Long, J., He, P., He, W., Ye, F., Li, Z., Wang, J., Liu, H., Wang, H., & Zheng, Z. 2018, Risk factors associated with pain severity in patients with non-specific low back pain in Southern China. *Asian Spine Journal*, 12(23), 533–543. <https://doi.org/10.4184/asj.2018.12.3.533>
- Srinivasan, R., Reza, A., & Krishna Kumar, A. K. V. 2023, Prevalence of musculoskeletal disorders in delivery personnel. *International Journal Of Community Medicine And Public Health*, 10(5), 1861–1866. <https://doi.org/10.18203/2394-6040.ijcmph20231287>
- Suksmerri, Triana, N., Seno, B. A., & Darwel. 2022, Faktor-faktor yang Berhubungan dengan Keluhan Low Back Pain pada Pengendara Ojek Online GOJEK di Kawasan Nanggalo. *Jurnal Kesling Mandiri*, 1(1), 18–27.
- Sumigar, C. K., Kawatu, P. A. ., & Warouw, F. 2022, Hubungan antara umur dan masa kerja dengan keluhan muskuloskeletal pada petani di desa tambelang minahasa selatan. *Jurnal KESMAS*, 11(2), 22–30.
- Susanti, L., Zadry, H., & Yuliandra, B. 2015, Pengantar Ergonomi Industri. In *Andalas University Press*.
- Syuhada, A. D., Suwondo, A., & Setyaningsih, Y. 2018, Faktor Risiko Low Back Pain pada Pekerja Pemetik Teh di Perkebunan Teh Ciater Kabupaten Subang. *Jurnal Promosi Kesehatan Indonesia*, 13(1), 91. <https://doi.org/10.14710/jpki.13.1.91-100>
- Tarwaka, & Bakri, S. H. A. 2004, *Ergonomi untuk Keselamatan, Kesehatan Kerja dan Produktivitas*. <http://shadibakri.uniba.ac.id/wp-content/uploads/2016/03/Buku-Ergonomi.pdf>
- Tarwaka. 2019, *Ergonomi Industri Dasar-dasar Pengetahuan Ergonomi dan Aplikasi di Tempat Kerja*. Cet. 2. Surakarta: Harapan Press.
- Titze, C., Fett, D., Trompeter, K., Platen, P., Gajsar, H., & Hasenbring, M. I. 2021,

- Psychosocial subgroups in high-performance athletes with low back pain: Eustress-endurance is most frequent, distress-endurance most problematic! *Scandinavian Journal of Pain*, 21(1), 59–69. <https://doi.org/10.1515/sjpain-2020-0053>
- Urits, I., Burshtein, A., Sharma, M., Testa, L., Gold, P. A., Orhurhu, V., Viswanath, O., Jones, M. R., Sidransky, M. A., Spektor, B., & Kaye, A. D. 2019, Low Back Pain, a Comprehensive Review: Pathophysiology, Diagnosis, and Treatment. *Current Pain and Headache Reports*, 23(3). <https://doi.org/10.1007/S11916-019-0757-1>
- Vlaeyen, J. W., Mahe, C., Wiech, K., Zundert, J., Meloto, C., Diatchenko, L., Battie, M., Goossens, M., Koes, B., & Linton, S. 2018, Low back pain. *Best Practice and Research: Clinical Rheumatology*, 4(1). <https://doi.org/10.1016/j.berh.2013.11.001>
- Wahab, A. 2019, Faktor-Faktor Yang Berhubungan Dengan Keluhan Nyeri Punggung Bawah (Low Back Pain) Pada Nelayan Di Desa Batu Karas Kecamatan Cijulang Pangandaran. *Biomedika*, 11(1), 35. <https://doi.org/10.23917/biomedika.v11i1.7599>
- Wahyuddin, Hanun, A., & Ivanali, K. 2016, Abstrak Adaptasi Lintas Budaya Modifikasi Kuesioner Disabilitas Untuk Nyeri Punggung Bawah (Modified Oswestry Low Back Pain Disability Questionnaire / Odi) Versi Indonesia. *Fisioterapi*. https://digilib.esaunggul.ac.id/public/UEU-Research-7825-WAHYUDDIN_Sst.Ft_M.Sc.pdf
- Wati, A. P., Purnama, D. A., Rahmawati, M. B., & Budisulistyo, T. 2021, Faktor Risiko Kejadian Nyeri Punggung Bawah Pada Sopir Ojek Online Mobil. *Neurona*, 38(3), 231–237.
- WHO. 1999, Low Back Pain Initiative. In G. Ehrlich & N. . Khaltaev (Eds.), *The World Health Organization*. WHO.
- Widada, A., Pratomo, D., & Gustina, M. 2020, Hubungan Posisi Duduk, Lama Waktu Mengemudi, Dan Masa Kerja Dengan Keluhan Nyeri Punggung Bawah Pada Sopir Angkutan Kota Bengkulu. *Mitra Raflesia (Journal of Health Science)*, 12(1). <https://doi.org/10.51712/mitraraflesia.v12i1.25>
- Wijianto, & Tuti, R. W. 2022, Pengaruh Posisi Duduk dan Lama Kerja Terhadap Nyeri Punggung Bawah Pada Pengemudi Ojek Online (GO-JEK) The Effect Of Sitting Position and Long Work On Lower Back Pain in Online Ojek Drivers (GO-JEK). *Jurnal Fisioterapi Dan Rehabilitasi*, 6(1), 48–54.
- Williams, J. S., Ng, N., Peltzer, K., Yawson, A., Biritwum, R., Maximova, T., Wu, F., Arokiasamy, P., Kowal, P., & Chatterji, S. 2015, Risk factors and disability associated with low back pain in older adults in low- and middle-income countries. Results from the WHO study on global AGEing and adult health (SAGE). *PLoS ONE*, 10(6), 1–21. <https://doi.org/10.1371/journal.pone.0127880>

- Workneh, B. S., & Mekonen, E. G. 2021, Prevalence and associated factors of low back pain among bank workers in gondar city, northwest ethiopia. *Orthopedic Research and Reviews*, 13, 25–33. <https://doi.org/10.2147/ORR.S300823>
- Wu, A., March, L., Zheng, X., Huang, J., Wang, X., Zhao, J., Blyth, F. M., Smith, E., Buchbinder, R., & Hoy, D. 2020, Global low back pain prevalence and years lived with disability from 1990 to 2017: estimates from the Global Burden of Disease Study 2017. *Annals of Translational Medicine*, 8(6), 299–299. <https://doi.org/10.21037/atm.2020.02.175>
- Yacob, D. M. L., Kolibu, F. K., Punuh, M. I., Kesehatan, F., Universitas, M., Ratulangi, S., & Abstrak, M. 2018, Hubungan antara Masa Kerja dan Beban Kerja dengan Keluhan Low Back Pain pada Perawat di Ruang Rawat Inap RS Bhayangkara Tingkat III Manado. *Jurnal KESMAS*, 7, 4.
- YOUTHREX. 2002, International Physical Activity Questionnaire - Short Form. In *Metiers de la Petite Enfance*. <https://doi.org/10.1016/j.melaen.2014.07.015>
- Yuliawati, Y., Ilyas, M., Murtala, B., Alfian Zainuddin, A., Kaelan, C., & Muis, M. 2021, Korelasi Sudut Lumbosakral Berdasarkan MRI Lumbosakral dengan Oswestry Disability Index (ODI Score) pada Degenerative Disk Disease. *Majalah Sainstekes*, 8(1), 35–51. <https://doi.org/10.33476/ms.v8i1.1910>
- Zemková, E., Kováčiková, Z., & Zapletalová, L. 2020, Is There a Relationship Between Workload and Occurrence of Back Pain and Back Injuries in Athletes? *Frontiers in Physiology*, 11(July). <https://doi.org/10.3389/fphys.2020.00894>