

DAFTAR PUSTAKA

- Good** Adigun, O. O., Reddy, V., & Varacallo, M. (2022). Anatomy, Back, Spinal Cord. In *StatPearls*. National Center of Biotechnology Information.
- Aimi, M. A., Raupp, E. G., Schmit, E. F. D., Vieira, A., & Candotti, C. T. (2019). Correlation Between Cervical Morphology, Pain, Functionality, and ROM in Individuals with Cervicalgia. *Coluna/Columna*, 18(2), 101–105. <https://doi.org/10.1590/s1808-185120191802188667>
- Alfarra, A. H., Samhan, L. F., & Abu-Naser, S. S. (2021). An Expert System for Neck Pain Diagnosis. *International Journal of Academic Information Systems Research*, 5(7), 1–8. www.ijeais.org/ijaisr
- Amelia, R., Nasrul, E., & Basyar, M. (2016). Hubungan Derajat Merokok Berdasarkan Indeks Brinkman dengan Kadar Hemoglobin. In *Jurnal Kesehatan Andalas* (Vol. 5, Issue 3). <http://jurnal.fk.unand.ac.id>
- Arslan, R. M. H., Butt, S. M., & Badar, M. J. H. (2020). Relative Odds of Neck Pain to Helmet Use Among Motorcyclists: A Case-Control Study. *Pakistan Journal of Surgery and Medicine*, 1(1), 35–41. <https://doi.org/10.37978/pjism.v1i1.97>
- Badan Pusat Statistik Indonesia. (2022). *Jumlah Kendaraan Bermotor Menurut Provinsi dan Jenis Kendaraan (unit), 2022*.
- Bartley, E. J., & Fillingim, R. B. (2013). Sex differences in pain: A brief review of clinical and experimental findings. *British Journal of Anaesthesia*, 111(1), 52–58. <https://doi.org/10.1093/bja/aet127>
- Bleyer, F. T. de S., Barbosa, D. G., Andrade, R. D., Teixeira, C. S., & Felden, É. P. G. (2015). Sleep and musculoskeletal complaints among elite athletes of Santa Catarina. *Revista Dor*, 16(2). <https://doi.org/10.5935/1806-0013.20150020>
- Bogduk, N. (2011). The Anatomy and Pathophysiology of Neck Pain. *Physical Medicine and Rehabilitation Clinics of North America*, 22(3), 367–382. <https://doi.org/10.1016/j.pmr.2011.03.008>

- Budiharto, M., & Priangkoso, T. (2013). Hubungan Jenis Bahan Bakar Dengan Konsumsi Bahan Bakar Sepeda Motor Bertransmisi CVT, Semi-otomatik, dan Manual. *Momentum*, 9(2), 22–24. <http://prokum.esdm.co.id/kepdirjen/kepdirjm->
- Cabanillas-Barea, S., Carrasco-Uribarren, A., Medrano-de-la-Fuente, R., Jiménez-del-Barrio, S., Pardos-Aguilella, P., Pérez-Guillén, S., & Ceballos-Laita, L. (2022). Clinical and Psychological Variables in Female Patients with Cervical Syndromes: A Cross-Sectional and Correlational Study. *Healthcare (Switzerland)*, 10(12). <https://doi.org/10.3390/healthcare10122398>
- Chairani, A. (2020). Validity and Reliability Test of The Nordic Musculoskeletal Questionnaire with Formal and Informal Sector Workers. *Childhood Stunting, Wasting, and Obesity, as the Critical Global Health Issues: Forging Cross-Sectoral Solutions*, 100–106. <https://doi.org/10.26911/the7thicph-FP.05.06>
- Chin, W.-S., Chen, Y.-C., Lin, T.-T., Guo, Y.-L. L., & Shiao, J. S. C. (2021). Sleep Duration and Neck Discomfort in Nurses. *Journal of Occupational Health*, 63(1).
- Cohen, S. P. (2015). Epidemiology, diagnosis, and treatment of neck pain. *Mayo Clinic Proceedings*, 90(2), 284–299. <https://doi.org/10.1016/j.mayocp.2014.09.008>
- Crawford, J. O. (2007). The Nordic Musculoskeletal Questionnaire. *Occupational Medicine*, 57(4), 300–301. <https://doi.org/10.1093/occmed/kqm036>
- Daher, A., & Halperin, O. (2021). Association between psychological stress and neck pain among college students during the coronavirus disease of 2019 pandemic: A questionnaire-based cross-sectional study. *Healthcare (Switzerland)*, 9(11). <https://doi.org/10.3390/healthcare9111526>
- Dahlan, M. S. (2014). *Statistik untuk Kedokteran dan Kesehatan* (6th ed., Vol. 1). Salemba Medika.

- Dahlan, M. S. (2019). *Besar Sampel dan Cara Pengambilan Sampel dalam Penelitian Kedokteran dan Kesehatan* (3rd ed.). Epidemiologi Indonesia.
- Dertta Irjayanti, A., Sari, D. W., & Rosida, I. (2021). Perilaku Pemilihan Moda Transportasi Pekerja Komuter: Studi Kasus Jabodetabek. *Jurnal Ekonomi Dan Pembangunan Indonesia*, *21*(2), 125–147.
- Diallo, S. Y. K., Mweu, M. M., Mbuya, S. O., & Mwanthi, M. A. (2019). Prevalence and risk factors for low back pain among university teaching staff in Nairobi, Kenya: A cross-sectional study. *F1000Research*, *8*.
<https://doi.org/10.12688/F1000RESEARCH.19384.1>
- Dinakar, P., & Stillman, A. M. (2016). Pathogenesis of Pain. *Seminars in Pediatric Neurology*, *23*(3), 201–208.
<https://doi.org/https://doi.org/10.1016/j.spen.2016.10.003>
- Distefano, G., & Goodpaster, B. H. (2018). Effects of exercise and aging on skeletal muscle. *Cold Spring Harbor Perspectives in Medicine*, *8*(3). <https://doi.org/10.1101/cshperspect.a029785>
- Djunaidi, Z., & Arnur, R. (2015). Risiko Ergonomi Ketidaksesuaian Desain dan Ukuran Tempat Duduk Sepeda Motor terhadap Antropometri pada Mahasiswa. *Jurnal Kesehatan Masyarakat Nasional*, *9*(3), 243–248.
- dos Passos, M. H. P., Silva, H. A., Pitangui, A. C. R., Oliveira, V. M. A., Gomes, G. C., & Araújo, R. C. (2017). Association between sleep quality and pain in the cervical region and scapular waist in adolescent athletes. *Sleep and Biological Rhythms*, *15*(2), 137–142.
<https://doi.org/10.1007/s41105-017-0093-y>
- Dzaja, A., Dalal, M. A., Himmerich, H., Uhr, M., Pollmächer, T., & Schuld, A. (2004). Sleep enhances nocturnal plasma ghrelin levels in healthy subjects. *American Journal of Physiology-Endocrinology and Metabolism*, *286*(6), E963–E967.
<https://doi.org/10.1152/ajpendo.00527.2003>

- Ehsani, F., Mohseni-Bandpei, M. A., Fernández-De-Las-Peñas, C., & Javanshir, K. (2018). Neck Pain in Iranian School Teachers: Prevalence and Risk Factors. *Journal of Bodywork and Movement Therapies*, 22(1), 64–68. <https://doi.org/10.1016/j.jbmt.2017.04.003>
- Genebra, C. V. D. S., Maciel, N. M., Bento, T. P. F., Simeão, S. F. A. P., & Vitta, A. De. (2017). Prevalence and factors associated with neck pain: a population-based study. *Brazilian Journal of Physical Therapy*, 21(4), 274–280. <https://doi.org/https://doi.org/10.1016/j.bjpt.2017.05.005>
- Gunawan, I. M. K., & Tirtayasa, K. (2015). Hubungan Antara Tipe Kendaraan Dan Obesitas Dengan Risiko Musculoskeletal Disorders (Msd) Pada Mahasiswa Pengendara Sepeda Motor Di Universitas Udayana. *E-Jurnal Medika Udayana*, 4(8), 1–13.
- Guneli, E., Gumustekin, M., & Ates, M. (2010). Possible involvement of ghrelin on pain threshold in obesity. *Medical Hypotheses*, 74(3), 452–454. <https://doi.org/10.1016/j.mehy.2009.10.006>
- Hanif, A. (2020). Hubungan Antara Umur dan Kebiasaan Merokok dengan Keluhan Musculoskeletal Disorders (MSDs) Pada Pekerja Angkut UD Maju Makmur Kota Surabaya. *Medical Technology and Public Health Journal (MTPH Journal)*, 4(1), 7–15.
- Hartanto, H. (2019). Menyalip – antara Karakter, Tipe Visual dan Jenis Motor. *Gadjah Mada Journal of Psychology (GamaJoP)*, 4(2), 173. <https://doi.org/10.22146/gamajop.46363>
- Hary, Z. A. P. (2017). *Hubungan Antara Kelekatan Terhadap Ibu dengan Tingkat Stress Pada Mahasiswa Perantau*. Universitas Sanata Dharma.
- Hassan, A., Hanif, S., Ahmed, I., Zaidi, F., Aslam, A., Kayani, A., Altaf, R., & Naseer, R. (2023). Neck Pain Among Occupational Bike Riders Wearing Helmet in Twin Cities: A Cross Sectional Survey. *THE THERAPIST (Journal of Therapies & Rehabilitation Sciences)*, 4(2), 15–20. <https://doi.org/10.54393/tt.v4i02.129>

- Hastono, S. P. (2017). *Analisis Data pada Bidang Kesehatan*. Department of Biostatistics and Population Studies Universitas Indonesia.
- Hellhammer, D. H., Stone, A. A., Hellhammer, J., & Broderick, J. (2010). Measuring Stress. In G. F. Koob, M. Le Moal, & R. F. Thompson (Eds.), *Encyclopedia of Behavioral Neuroscience* (pp. 186–191). Academic Press. <https://doi.org/10.1016/B978-0-08-045396-5.00188-3>
- Henschke, N., Kamper, S. J., & Maher, C. G. (2015). The epidemiology and economic consequences of pain. *Mayo Clinic Proceedings*, *90*(1), 139–147. <https://doi.org/10.1016/j.mayocp.2014.09.010>
- Hey, H. W. D., Lim, J. X. Y., Ong, J. Z., & Luo, N. (2021). Epidemiology of Neck Pain and Its Impact on Quality-of-Life—A Population-Based, Cross Sectional Study in Singapore. *Spine*, *46*(22). https://journals.lww.com/spinejournal/Fulltext/2021/11150/Epidemiology_of_Neck_Pain_and_Its_Impact_on.17.aspx
- Hosmer, D. W., & Lemeshow, S. (2000). *Applied Logistic Regression* (2nd ed.). Wiley.
- Howell, D. C. (2017). *Fundamental Statistics for the Behavioral Sciences* (9th ed.). Cengage Learning.
- Hurwitz, E. L., Randhawa, K., Yu, H., Côté, P., & Haldeman, S. (2018). The Global Spine Care Initiative: a summary of the global burden of low back and neck pain studies. *European Spine Journal*, *27*(6), 796–801. <https://doi.org/10.1007/s00586-017-5432-9>
- Institute for Health Metrics and Evaluation. (2020). Global Burden of Disease 2019. *The Lancet*, *396*(10258), 1129–1306.
- Iyer, S., & Kim, H. J. (2016). Cervical radiculopathy. In *Current Reviews in Musculoskeletal Medicine* (Vol. 9, Issue 3, pp. 272–280). Humana Press Inc. <https://doi.org/10.1007/s12178-016-9349-4>
- Jahre, H., Grotle, M., Smedbråten, K., Dunn, K. M., & Øiestad, B. E. (2020). Risk factors for non-specific neck pain in young adults. A systematic review. In *BMC Musculoskeletal Disorders* (Vol. 21, Issue 1). BioMed Central Ltd. <https://doi.org/10.1186/s12891-020-03379-y>

- Jajat, J., & Suherman, A. (2020). Indonesian Children and Adolescents' Body Mass Index: WHO and Asia-Pacific Classification. *Advances in Health Sciences Research*, 21, 263–266.
- Kaplan, H., BJ, S., & Grebb, J. (2007). *General Principles of Psychopharmacology: Comprehensive Textbook of Psychiatry*. Williams & Wilkins.
- Kasumovic, M., Gorcevic, E., Gorcevic, S., & Osmanovic, J. (2013). Cervical syndrome - the effectiveness of physical therapy interventions. *Medical Archives (Sarajevo, Bosnia and Herzegovina)*, 67(6), 414–417. <https://doi.org/10.5455/medarh.2013.67.414-417>
- Kazeminasab, S., Nejadghaderi, S. A., Amiri, P., Pourfathi, H., Araj-Khodaei, M., Sullman, M. J. M., Kolahi, A. A., & Safiri, S. (2022). Neck pain: global epidemiology, trends and risk factors. In *BMC Musculoskeletal Disorders* (Vol. 23, Issue 1). BioMed Central Ltd. <https://doi.org/10.1186/s12891-021-04957-4>
- Keputusan Menteri Kesehatan Republik Indonesia Nomor HK.01.07/MENKES/5675/2021 Tentang Data Penduduk Sasaran Program Pembangunan Kesehatan Tahun 2021 - 2025, (2021).
- Kim, R., Wiest, C., Clark, K., Cook, C., & Horn, M. (2018). Identifying risk factors for first-episode neck pain: A systematic review. In *Musculoskeletal Science and Practice* (Vol. 33, pp. 77–83). Elsevier Ltd. <https://doi.org/10.1016/j.msksp.2017.11.007>
- Kong, L., Tian, W., Cao, P., Wang, H., Zhang, B., & Shen, Y. (2017). Predictive factors associated with neck pain in patients with cervical disc degeneration. *Medicine (United States)*, 96(43). <https://doi.org/10.1097/MD.00000000000008447>
- Krøll, L. S., Hammarlund, C. S., Westergaard, M. L., Nielsen, T., Sloth, L. B., Jensen, R. H., & Gard, G. (2017). Level of physical activity, well-being, stress and self-rated health in persons with migraine and co-existing tension-type headache and neck pain. *Journal of Headache and Pain*, 18(1). <https://doi.org/10.1186/s10194-017-0753-y>

- Lundberg, U., Forsman, M., Zachau, G., Eklöf, M., Palmerud, G., Melin, B., & Kadefors, R. (2002). Effects of experimentally induced mental and physical stress on motor unit recruitment in the trapezius muscle. *Work & Stress*, *16*(2), 166–178. <https://doi.org/10.1080/02678370210136699>
- Makkiyah, F. A., Sinaga, T. A., & Khairunnisa, N. (2023). A Study from a Highly Populated Country: Risk Factors Associated with Lower Back Pain in Middle-Aged Adults. *Journal of Korean Neurosurgical Society*, *66*(2), 190–198. <https://doi.org/10.3340/jkns.2021.0278>
- Manoj, A. M., & Meenas, M. S. (2021). Study on prevalence of forward head posture among young individuals wearing eye glasses. *International Journal of Medical and Exercise Science*, *7*(3), 1072–1079.
- Noviati, N. D., Hilmy, R., & Laiska, C. A. (2022). Hubungan Indeks Massa Tubuh Terhadap Craniovertebral Angle Pada Pekerja Back Office. *Indonesian Journal of Physiotherapy*, *2*(2), 153–157.
- Pan, W.-H., & Yeh, W.-T. (2008). How to Define Obesity? Evidence-Based Multiple Action Points for Public Awareness, Screening, and Treatment: an Extension of Asian-Pacific Recommendations. *Asia Pacific Journal of Clinical Nutrition*, *17*(3), 370–374.
- Pawalia, A., Joshi, S., & Yadav, V. S. (2019). Can your eye glasses lead to future neck pain and disability? Relation of eyeglasses with neck muscle endurance and posture. *International Journal Of Community Medicine And Public Health*, *6*(6), 2402. <https://doi.org/10.18203/2394-6040.ijcmph20192298>
- Purnami, C. T., & Sawitri, D. R. (2020). Instrumen “Perceive Stress Scale” Online Sebagai Alternatif Alat Pengukur Tingkat Stress Secara Mudah dan Cepat. *Seminar Nasional Kolaborasi Pengabdian Kepada Masyarakat UNDIP-UNNES 2019*, 311–314.
- Putra, B. L., & Pristianto, A. (2023). The relationship between sitting posture and neck pain incidence in educational staff at the Universitas

- Muhammadiyah Surakarta. *Physical Therapy Journal of Indonesia*, 4(1), 19–24. <https://doi.org/10.51559/ptji.v4i1.70>
- Putri, A. F. (2018). Pentingnya Orang Dewasa Awal Menyelesaikan Tugas Perkembangannya. *SCHOULID: Indonesian Journal of School Counseling*, 3(2), 35. <https://doi.org/10.23916/08430011>
- Radinda, I., & Rahayu, U. B. (2022). *Pengaruh Durasi Berkendara Terhadap Keluhan Muskuloskeletal pada Driver Ojek Online Kota Bandung*. Fakultas Ilmu Kesehatan Universitas Muhammadiyah Surakarta.
- Ramdan, I. M., Duma, K., & Setyowati, D. L. (2019). Reliability and Validity Test of the Indonesian Version of the Nordic Musculoskeletal Questionnaire (NMQ) to Measure Musculoskeletal Disorders (MSD) in Traditional Women Weavers. *Global Medical & Health Communication (GMHC)*, 7(2). <https://doi.org/10.29313/gmhc.v7i2.4132>
- Rashid, H., Omar, A. R., Abdullah, S. C., & Fauzi, W. M. S. W. (2020). ProRIDE Guideline: A Guideline for Prolonged Motorcycle Riding. *Journal of Mechanical Engineering*, 9, 117.
- Safiri, S., Kolahi, A. A., Hoy, D., Buchbinder, R., Mansournia, M. A., Bettampadi, D., Ashrafi-Asgarabad, A., Almasi-Hashiani, A., Smith, E., Sepidarkish, M., Cross, M., Qorbani, M., Moradi-Lakeh, M., Woolf, A. D., March, L., Collins, G., & Ferreira, M. L. (2020). Global, regional, and national burden of neck pain in the general population, 1990-2017: Systematic analysis of the Global Burden of Disease Study 2017. *The BMJ*, 368. <https://doi.org/10.1136/bmj.m791>
- 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 Specific Pada Pengemudi Ojek Online di Kota Denpasar. *Majalah Ilmiah Fisioterapi Indonesia*, 8(2), 22–26.
- Scarabottolo, C. C., Pinto, R. Z., Oliveira, C. B., Tebar, W. R., Saraiva, B. T. C., Morelhão, P. K., Dragueta, L. D., Druzian, G. S., &

- Christofaro, D. G. D. (2020). Back and Neck Pain and Poor Sleep Quality in Adolescents are Associated Even After Controlling for Confounding Factors: An Epidemiological Study. *Sleep Science*, *13*(2), 107–112. <https://doi.org/10.5935/1984-0063.20190138>
- Siagian, B., Roestam, A. W., Soemarmo, 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. *IJCOM*, *1*(3), 154–161.
- Sucipto, C. D. (2020). *Metodologi Penelitian Kesehatan* (1st ed., Vol. 1). Gosyen Publishing.
- Tabary, M., Ahmadi, S., Amirzade-Iranaq, M. H., Shojaei, M., Sohrabi Asl, M., Ghodsi, Z., Azarhomayoun, A., Ansari-Moghaddam, A., Atlasi, R., Araghi, F., Shafieian, M., Heydari, S. T., Sharif-Alhoseini, M., O'Reilly, G., & Rahimi-Movaghar, V. (2021). The effectiveness of different types of motorcycle helmets – A scoping review. *Accident Analysis and Prevention*, *154*. <https://doi.org/10.1016/j.aap.2021.106065>
- Tanaka, N., Atesok, K., Nakanishi, K., Kamei, N., Nakamae, T., Kotaka, S., & Adachi, N. (2018). Pathology and Treatment of Traumatic Cervical Spine Syndrome: Whiplash Injury. In *Advances in Orthopedics* (Vol. 2018). Hindawi Limited. <https://doi.org/10.1155/2018/4765050>
- Thorud, H. M. S., Aurjord, R., & Falkenberg, H. K. (2021). Headache and musculoskeletal pain in school children are associated with uncorrected vision problems and need for glasses: a case–control study. *Scientific Reports*, *11*(1). <https://doi.org/10.1038/s41598-021-81497-w>
- Tortora, G. J., & Derrickson, B. H. (2017). *Principles of Anatomy and Physiology* (15th ed.). Wiley.
- Urréchaga, E. M., Kodadek, L. M., Bugaev, N., Bauman, Z. M., Shah, K. H., Abdel Aziz, H., Beckman, M. A., Reynolds, J. M., Soe-Lin, H.,

- Crandall, M. L., & Rattan, R. (2022a). Full-face motorcycle helmets to reduce injury and death: A systematic review, meta-analysis, and practice management guideline from the Eastern Association for the Surgery of Trauma. In *American Journal of Surgery* (Vol. 224, Issue 5, pp. 1238–1246). Elsevier Inc. <https://doi.org/10.1016/j.amjsurg.2022.06.018>
- Urréchaga, E. M., Kodadek, L. M., Bugaev, N., Bauman, Z. M., Shah, K. H., Abdel Aziz, H., Beckman, M. A., Reynolds, J. M., Soe-Lin, H., Crandall, M. L., & Rattan, R. (2022b). Full-Face Motorcycle Helmets to Reduce Injury and Death: A Systematic Review, Meta-Analysis, and Practice Management Guideline from the Eastern Association for the Surgery of Trauma. *American Journal of Surgery*, 224(5), 1238–1246. <https://doi.org/10.1016/j.amjsurg.2022.06.018>
- Wardhani, R. R. (2022). Signifikansi Lama Kerja Dengan Keluhan Neck Pain Pada Komunitas Ojek Online. *Jurnal Kesehatan Al-Irsyad*, 15(1), 77–83. <http://e-jurnal.stikesalirsyadclp.ac.id/index.php/jka/article/view/335>
- Weleslassie, G. G., Meles, H. G., Haile, T. G., & Hagos, G. K. (2020). Burden of neck pain among medical students in Ethiopia. *BMC Musculoskeletal Disorders*, 21(1). <https://doi.org/10.1186/s12891-019-3018-x>
- World Health Organization. (2022, October 5). *Physical Activity*. WHO News Room.
- Xie, Y., Jun, D., Thomas, L., Coombes, B. K., & Johnston, V. (2020). Comparing Central Pain Processing in Individuals With Non-Traumatic Neck Pain and Healthy Individuals: A Systematic Review and Meta-Analysis. *The Journal of Pain*, 21(11–12), 1101–1124. <https://doi.org/10.1016/j.jpain.2020.02.007>
- Yabe, Y., Hagiwara, Y., Sekiguchi, T., Sugawara, Y., Tsuchiya, M., Yoshida, S., & Tsuji, I. (2022). Sleep disturbance is associated with neck pain: a 3-year longitudinal study after the Great East Japan

- Earthquake. *BMC Musculoskeletal Disorders*, 23(1).
<https://doi.org/10.1186/s12891-022-05410-w>
- Yang, Y., & Tang, S. (2023). Association between chronic neck pain and sleep duration in US adults: A cross-sectional study. *Research Square*, 1–12. <https://doi.org/10.21203/rs.3.rs-3217908/v1>
- Yaribeygi, H., Panahi, Y., Sahraei, H., Johnston, T. P., & Sahebkar, A. (2017). Effect of Stress on Bodily Functions A Review. *EXCLI Journal*, 16, 1057–1072.
- Zabala Mata, J., Lascurain-Aguirrebeña, I., Dominguez López, E., & Azkue, J. J. (2021). Enhanced Pronociceptive and Disrupted Antinociceptive Mechanisms in Nonspecific Chronic Neck Pain. *Physical Therapy*, 101(3). <https://doi.org/10.1093/ptj/pzaa223>