



## DAFTAR PUSTAKA

- Abhilash, K.P.P., Tep hilah, R., Pradeeptha, S., Gunasekaran, K., & Chandy, G.M. (2019) ‘Injury patterns and outcomes of trauma in the geriatric population presenting to the emergency department in a tertiary care hospital of South India’, *Journal of Emergencies, Trauma, and Shock*, 12(3), pp. 198–202. [online]. Available at: [https://doi.org/10.4103/jets.jets\\_79\\_18](https://doi.org/10.4103/jets.jets_79_18) (Accessed: November 11, 2022).
- Agung, I.G.N. (2006) *Statistika Penerapan Model Rerata-Sel Multivariat dan Model Ekonometri dengan SPSS*. Jakarta: Yayasan SAD Satria Bhakti.
- Al-Aama, T. (2011) ‘Falls in the elderly: Spectrum and prevention’, *Canadian Family Physician*, 57(7), pp. 771–776. [online]. Available at: <https://pubmed.ncbi.nlm.nih.gov/21753098/> (Accessed: November 11, 2022).
- Alshammari, S.A. et al. (2018) ‘Falls among elderly and its relation with their health problems and surrounding environmental factors in Riyadh’, *Journal of Family & Community Medicine*, 25(1), pp. 29–34. [online]. Available at: [https://doi.org/10.4103/jfcm.JFCM\\_48\\_17](https://doi.org/10.4103/jfcm.JFCM_48_17) (Accessed: July 1, 2023).
- Amarya, S., Singh, K., & Sabharwal, M. (2018) ‘Ageing Process and Physiological Changes’, *Gerontology*. [online]. Available at: <https://doi.org/10.5772/intechopen.76249> (Accessed: November 11, 2022).
- Aschkenasy, M.T. & Rothenhaus, T.C. (2006) ‘Trauma and Falls in the Elderly’, *Emergency Medicine Clinics of North America*, 24(2), pp. 413–432. [online]. Available at: <https://doi.org/10.1016/j.emc.2006.01.005> (Accessed: November 11, 2022).
- Astarina, L., Gito, S., & Eva, W.I. (2018) ‘Karakteristik Kecelakaan Lalu Lintas dan Analisis Lokasi’, *Dinamika Rekayasa*, 14(1), pp. 1–11.
- Atinga, A., Shekkeris, A., Fertleman, M., Batrick, N., Kashef, E., & Dick, E. (2018) ‘Trauma in the elderly patient’, *The British Journal of Radiology*, 91(1087). [online]. Available at: <https://doi.org/10.1259/bjr.20170739> (Accessed: November 11, 2022).
- Attems, J., Walker, L., & Jellinger, K.A. (2015) ‘Olfaction and Aging: A Mini-Review’, *Gerontology*, 61(6), pp. 485–490. [online]. Available at: <https://doi.org/10.1159/000381619> (Accessed: November 11, 2022).
- Azam, S., Haque, E., Balakrishnan, R., Kim, I., & Choi, D. (2021) ‘The Ageing Brain: Molecular and Cellular Basis of Neurodegeneration’, *Frontiers in Cell and Developmental Biology*, 9. [online]. Available at: <https://doi.org/10.3389/fcell.2021.683459> (Accessed: November 11, 2022).
- Badan Litbangkes Kementerian Kesehatan Republik Indonesia (2018) *Riset Kesehatan Dasar (Riskesdas) 2018*.
- Badan Pusat Statistik Indonesia (2021) *Statistik Penduduk Lanjut Usia 2021*.
- Badan Pusat Statistik Kabupaten Sleman (2021) *Hasil Sensus Penduduk 2020*.
- Bergeron, E. et al. (2003) ‘Elderly Trauma Patients with Rib Fractures Are at Greater Risk of Death and Pneumonia’, *The Journal of Trauma: Injury, Infection, and Critical Care*, 54(3), pp. 478–485. [online]. Available at:



- <https://doi.org/10.1097/01.ta.0000037095.83469.4c> (Accessed: November 11, 2022).
- Braun, T. et al. (2022) 'Age-related changes in oral sensitivity, taste and smell', *Scientific Reports*, 12(1533). [online]. Available at: <https://doi.org/10.1038/s41598-022-05201-2> (Accessed: November 11, 2022).
- Centers for Disease Control and Prevention (2022) *Common Injuries as We Age* [online]. Available at: <https://www.cdc.gov/stillgoingstrong/about/common-injuries-as-we-age.html> (Accessed: July 1, 2023).
- Centers for Disease Control and Prevention (2023) *Keep on Your Feet—Preventing Older Adult Falls*, Centers for Disease Control and Prevention [online]. Available at: <https://www.cdc.gov/injury/features/older-adult-falls/> (Accessed: July 1, 2023).
- Chang, V.C. & Do, M.T. (2015) 'Risk factors for falls among seniors: Implications of gender', *American Journal of Epidemiology*, 181(7), pp. 521–531. [online]. Available at: <https://doi.org/10.1093/aje/kwu268> (Accessed: November 11, 2022).
- Chang, H. et al. (2021) 'National Surveillance of injury in the Republic of Korea: Increased injury vulnerability in the late middle age', *International Journal of Environmental Research and Public Health*, 18(3), p. 1210. [online]. Available at: Available at: <https://doi.org/10.3390/ijerph18031210>. (Accessed: November 11, 2022).
- El Sayed, M.J., Ismail, R.A., El Sibai, R.H., Dakessian, A.V., & Bachir, R.H. (2020) 'Fall related injuries in elderly patients in a tertiary care centre in Beirut, Lebanon', *Journal of Emergencies, Trauma, and Shock*, 13(2), p. 142. [online]. Available at: [https://doi.org/10.4103/jets.jets\\_84\\_19](https://doi.org/10.4103/jets.jets_84_19) (Accessed: July 1, 2023).
- Eze, U.O. & Ojifinni, K.A. (2022) 'Trauma Forensics in Blunt and Sharp Force Injuries', *Journal of The West African College of Surgeons*, 12(4), pp. 94–101. [online]. Available at: [https://doi.org/10.4103/jwas.jwas\\_190\\_22](https://doi.org/10.4103/jwas.jwas_190_22) (Accessed: November 30, 2022).
- Frontera, W.R. (2017) 'Physiologic Changes of The Musculoskeletal System with Aging: A Brief Review', *Physical Medicine and Rehabilitation Clinics of North America*, 28(4), pp. 705–711. [online]. Available at: <https://doi.org/10.1016/j.pmr.2017.06.004> (Accessed: November 11, 2022).
- Gale, S.C., Peters, J., Murry, J.S., Crystal, J.S., & Dombrovskiy, V.Y. (2018) 'Injury patterns and outcomes in late middle age (55–65): The intersecting comorbidity with high-risk activity – a retrospective cohort study', *Annals of Medicine and Surgery*, 27, pp. 22–25. [online]. Available at: <https://doi.org/10.1016/j.amsu.2018.01.005> (Accessed: July 1, 2023).
- Gioffrè-Florio, M. (2018) 'Trauma in elderly patients: A study of prevalence, comorbidities and gender differences', *Giornale di Chirurgia - Journal of Surgery*, 39(1), p. 35. [online]. Available at: <https://doi.org/10.11138/gchir/2018.39.1.035> (Accessed: July 1, 2023).



- Gowing, R. & Jain, M.K. (2007) ‘Injury patterns and outcomes associated with elderly trauma victims in Kingston, Ontario’, *Canadian Journal of Surgery*, 50(6), pp. 437–444. [online]. Available at: <https://www.canjsurg.ca/content/50/6/437> (Accessed: November 11, 2022).
- Harada, C.N., Love, M.C.N., & Triebel, K.L. (2013) ‘Normal Cognitive Aging’, *Clinics in Geriatric Medicine*, 29(4), pp. 737–752. [online]. Available at: <https://doi.org/10.1016/j.cger.2013.07.002> (Accessed: November 11, 2022).
- Hefny, A.F., Abbas, A.K., & Abu-Zidan, F.M. (2016) ‘Geriatric fall-related injuries’, *African Health Sciences*, 16(2), p. 554. [online]. Available at: <https://doi.org/10.4314/ahs.v16i2.24> (Accessed: July 1, 2023).
- Janani, S. & Murty, O.P. (2012) ‘Standard Operating Procedures for use in Clinical Forensic Medicine Examination’, *Journal of Forensic Medicine and Toxicology*, 29(2), pp. 1–9. [online]. Available at: <https://www.indianjournals.com/ijor.aspx?target=ijor:jfmt&volume=29&issue=2&article=001> (Accessed: November 11, 2022).
- Jayakody, D.M.P., Friedland, P.L., Martins, R.N., & Sohrabi, H.R. (2018) ‘Impact of Aging on the Auditory System and Related Cognitive Functions: A Narrative Review’, *Frontiers in Neuroscience*, 12. [online]. Available at: <https://doi.org/10.3389/fnins.2018.00125> (Accessed: November 11, 2022).
- Kara, H. et al. (2013) ‘Trauma in elderly patients evaluated in a hospital emergency department in Konya, Turkey: A retrospective study’, *Clinical Interventions in Aging*, p. 17. [online]. Available at: <https://doi.org/10.2147/cia.s56542> (Accessed: November 11, 2022).
- Keller, J.M., Sciadini, M.F., Sinclair, E., & O’Toole, R.V. (2012) ‘Geriatric trauma’, *Journal of Orthopaedic Trauma*, 26(9). [online]. Available at: <https://doi.org/10.1097/bot.0b013e3182324460> (Accessed: July 1, 2023).
- Knechel, N. (2015) ‘When a Crash Is Really an Accident: A Concept Analysis’, *Journal of Trauma Nursing*, 22(6), pp. 321–329. [online]. Available at: <https://doi.org/10.1097/jtn.0000000000000167> (Accessed: November 11, 2022).
- Komisar, V. et al. (2022) ‘Injuries from falls by older adults in long-term care captured on video: Prevalence of impacts and injuries to body parts’, *BMC Geriatrics*, 22(1) [online]. Available at: <https://doi.org/10.1186/s12877-022-03041-3> (Accessed: July 1, 2023).
- Konda, S.R. et al. (2020) ‘Who Is the Geriatric Trauma Patient? An Analysis of Patient Characteristics, Hospital Quality Measures, and Inpatient Cost’, *Geriatric Orthopaedic Surgery & Rehabilitation*, 11. [online]. Available at: <https://doi.org/10.1177/2151459320955087> (Accessed: November 11, 2022).
- Konsil Kedokteran Indonesia (2006) *Manual Rekam Medis*. 1st edn. Jakarta Selatan, Indonesia: Konsil Kedokteran Indonesia.
- LeBlanc, J., de Guise, E., Gosselin, N., & Feyz, M. (2006) ‘Comparison of functional outcome following acute care in young, middle-aged and elderly patients with traumatic brain injury’, *Brain Injury*, 20(8), pp. 779–790.



- [online]. Available at: <https://doi.org/10.1080/02699050600831835> (Accessed: July 1, 2023).
- McIntyre, A., Mehta, S., Aubut, J., Dijkers, M., & Teasell, R.W. (2012) ‘Mortality among older adults after a traumatic brain injury: A meta-analysis’, *Brain Injury*, 27(1), pp. 31–40. [online]. Available at: <https://doi.org/10.3109/02699052.2012.700086> (Accessed: July 1, 2023).
- McIntyre, S., Nagi, S.S., McGlone, F., & Olausson, H. (2021) ‘The Effects of Ageing on Tactile Function in Humans’, *Neuroscience*, 464, pp. 53–58. [online]. Available at: <https://doi.org/10.1016/j.neuroscience.2021.02.015> (Accessed: November 11, 2022).
- Meilia, P.D.I., Freeman, M.D., Herkutanto, & Zeegers, M.P. (2018) ‘A review of the diversity in taxonomy, definitions, scope, and roles in forensic medicine: implications for evidence-based practice’, *Forensic Science, Medicine and Pathology*, 14, pp. 460–468. [online]. Available at: <https://doi.org/10.1007/s12024-018-0031-6> (Accessed: November 11, 2022).
- Morri, M. et al. (2019) ‘One-year mortality after hip fracture surgery and prognostic factors: A prospective cohort study’, *Scientific Reports*, 9(1). [online]. Available at: <https://doi.org/10.1038/s41598-019-55196-6> (Accessed: July 1, 2023).
- Naraynsingh, R., Sammy, I., Paul, J., & Nunes, P. (2015) ‘Trauma in the elderly in Trinidad and Tobago’, *European Journal of Emergency Medicine*, 22(3), pp. 219–221. [online]. Available at: <https://doi.org/10.1097/ mej.0000000000000196> (Accessed: July 1, 2023).
- Norton, R. & Kobusingye, O. (2013) ‘Injuries’, *New England Journal of Medicine*, 368(18), pp. 1723–1730. [online]. Available at: <https://doi.org/10.1056/nejmra1109343> (Accessed: November 11, 2022).
- Okoye, O.G., Olaomi, O.O., Osi-Ogbu, O., & Gwaram, U.A. (2021) ‘Pattern of trauma in elderly patients seen at the Trauma Centre of National Hospital Abuja, Nigeria’, *African Journal of Emergency Medicine*, 11(3), pp. 347–351. [online]. Available at: <https://doi.org/10.1016/j.afjem.2021.06.001> (Accessed: November 11, 2022).
- Paneni, F., Costantino, S., Cosentino, F., & Luscher, T.F. (2013) ‘Mechanisms of Cardiovascular Aging’, *Current Translational Geriatrics and Experimental Gerontology Reports*, 2(4), pp. 275–283. [online]. Available at: <https://doi.org/10.1007/s13670-013-0061-6> (Accessed: November 11, 2022).
- Pape, M. et al. (2019) ‘Is there an association between female gender and outcome in severe trauma? A multi-center analysis in the Netherlands’, *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine*, 27(1). [online]. Available at: <https://doi.org/10.1186/s13049-019-0589-3>. (Accessed: July 1, 2023).
- Payne-James, J.J. (2016) ‘Forensic Medicine, History of’, *Encyclopedia of Forensic and Legal Medicine*, pp. 539–567. [online]. Available at: <https://doi.org/10.1016/b978-0-12-800034-2.00203-2> (Accessed: November 11, 2022).



PERATURAN MENTERI KESEHATAN REPUBLIK INDONESIA NOMOR 24  
TAHUN 2022 TENTANG REKAM MEDIS.

PERATURAN MENTERI KESEHATAN REPUBLIK INDONESIA NOMOR 25  
TAHUN 2016 TENTANG RENCANA AKSI NASIONAL KESEHATAN  
LANJUT USIA TAHUN 2016-2019.

Pollak, S. & Saukko, P. (2013) 'Blunt injury', *Encyclopedia of Forensic Sciences*, pp. 1–10. [online]. Available at: <https://doi.org/10.1016/b978-0-12-382165-2.00155-0> (Accessed: November 11, 2022).

Pollak, S. & Saukko, P. (2013) 'Clinical Forensic Medicine – Overview', *Encyclopedia of Forensic Sciences*, pp. 83–88. [online]. Available at: <https://doi.org/10.1016/b978-0-12-382165-2.00166-5> (Accessed: November 11, 2022).

Prakash, R. (2021) 'Epidemiology of injuries, accidents and its prevention & control', *Injuries & accidents*. Department of Community Medicine Katihar Medical College, 31 January.

Preitschopf, A. et al. (2023) 'Effectiveness of outpatient geriatric rehabilitation after inpatient geriatric rehabilitation or hospitalisation: A systematic review and meta-analysis', *Age and Ageing*, 52(1). [online]. Available at: <https://doi.org/10.1093/ageing/afac300>. (Accessed: July 1, 2023).

Richards, D. & Carroll, J. (2012) 'Relationship between types of head injury and age of pedestrian', *Accident Analysis & Prevention*, 47, pp. 16–23. [online]. Available at: <https://doi.org/10.1016/j.aap.2012.01.009>. (Accessed: July 1, 2023).

Roberts, S. et al. (2016) 'Ageing in the musculoskeletal system', *Acta Orthopaedica*, 87(sup363), pp. 15–25. [online]. Available at: <https://doi.org/10.1080/17453674.2016.1244750> (Accessed: November 11, 2022).

Rompis, A., Mallo, J., & Tomuka, D. (2016) 'Kematian akibat kecelakaan lalu lintas Kota Tomohon tahun 2012-2014', *e-CliniC*, 4(1). [online]. Available at: <https://doi.org/10.35790/ecl.v4i1.10837> (Accessed: November 11, 2022).

Saftari, L.N. & Kwon, O.-S. (2018) 'Ageing vision and falls: a review', *Journal of Physiological Anthropology*, 37(11). [online]. Available at: <https://doi.org/10.1186/s40101-018-0170-1> (Accessed: November 11, 2022).

Salamati, P. et al. (2021) 'Gender-based trauma outcomes and predictors of postinjury in-hospital mortalities: A multicenter analysis from the National Trauma Registry of Iran', *Archives of Trauma Research*, 10(4), p. 209. [online]. Available at: [https://doi.org/10.4103/atr.atr\\_64\\_21](https://doi.org/10.4103/atr.atr_64_21). (Accessed: July 1, 2023).

Schreiber, J. & Asner-Self, K. (2011) *Educational Research*. New Jersey: Wiley.

Soomar, S.M. & Dhalla, Z. (2023) 'Injuries and outcomes resulting due to falls in elderly patients presenting to the emergency department of a tertiary care hospital – A cohort study', *BMC Emergency Medicine*, 23(1). [online]. Available at: [10.1186/s12873-023-00784-z](https://doi.org/10.1186/s12873-023-00784-z) (Accessed: July 1, 2023).



- Thim, T., Krarup, N.H.V., Grove, E.L., Rohde, C.V., & Lofgren, B. (2012) 'Initial assessment and treatment with the airway, breathing, circulation, disability, exposure (ABCDE) approach', *International Journal of General Medicine*, p. 117. [online]. Available at: <https://doi.org/10.2147/ijgm.s28478> (Accessed: November 30, 2022).
- Tran, T. et al. (2017) 'Population-wide impact of non-hip non-vertebral fractures on mortality', *Journal of Bone and Mineral Research*, 32(9), pp. 1802–1810. [online]. Available at: <https://doi.org/10.1002/jbmr.3118> (Accessed: July 1, 2023).
- UNDANG-UNDANG REPUBLIK INDONESIA NOMOR 13 TAHUN 1998 TENTANG KESEJAHTERAAN LANJUT USIA.
- Ungvari, Z., Tarantini, S., Donato, A.J., Galvan, V., & Csiszar, A. (2018) 'Mechanisms of Vascular Aging', *Circulation Research*, 123(7), pp. 849–867. [online]. Available at: <https://doi.org/10.1161/circresaha.118.311378> (Accessed: November 11, 2022).
- Üstün, B., Korkut, M., & Söyüncü, S. (2023) 'Comparison of conventional radiography and computed tomography in patients admitted to the emergency department with Extremity Trauma — a retrospective study', *Disaster and Emergency Medicine Journal* [Preprint]. [online]. Available at: <https://doi.org/10.5603/demj.a2023.0016> (Accessed: July 1, 2023).
- Vaishya, R. & Vaish, A. (2020) 'Falls in Older Adults are Serious', *Indian Journal of Orthopaedics*, 54(1), pp. 69–74. [online]. Available at: <https://doi.org/10.1007/s43465-019-00037-x> (Accessed: July 1, 2023).
- Vásquez, Y. et al. (2017) 'Geriatric epidemiology of trauma in a hospital in Southern Colombia', *Journal of Acute Disease*, 6(1), pp. 33–35. [online]. Available at: <https://doi.org/10.12980/jad.6.2017jadweb-2016-0062> (Accessed: November 11, 2022).
- van der Vleugel, M. et al. (2022) 'Health Care Utilization and outcomes in older adults after traumatic brain injury: A Center-TBI Study', *Injury*, 53(8), pp. 2774–2782. [online]. Available at: <https://doi.org/10.1016/j.injury.2022.05.009> (Accessed: July 1, 2023).
- de Vries, R., Reinenga, I.H.F., Pieske, O., Lefering, R., Moumni, M.E., & Wendt, K. (2018) 'Injury mechanisms, patterns and outcomes of older polytrauma patients—an analysis of the Dutch Trauma Registry', *PLOS ONE*, 13(1). [online]. Available at: <https://doi.org/10.1371/journal.pone.0190587> (Accessed: July 1, 2023).
- Warriner, A.H. et al. (2011) 'Which fractures are most attributable to osteoporosis?', *Journal of Clinical Epidemiology*, 64(1), pp. 46–53. [online]. Available at: <https://doi.org/10.1016/j.jclinepi.2010.07.007> (Accessed: July 1, 2023).
- World Health Organization (2006) *Medical Records Manual: A Guide for Developing Countries*. World Health Organization. Available at: <https://apps.who.int/iris/handle/10665/208125> (Accessed: November 11, 2022).



UNIVERSITAS  
GADJAH MADA

DESKRIPSI DAN PROPORSI CEDERA AKIBAT KECELAKAAN PADA LANSIA YANG DIPERIKSA DI  
RUMAH SAKIT AKADEMIK

UNIVERSITAS GADJAH MADA TAHUN 2019-2021

ALYA ALMIRA NAVIDANTI SUSILO, dr. Beta Ahlam Gizela, DFM, Sp.FM Subsp.FK(K); Dr. dr. Djayanti Sari, M.Kes.

Universitas Gadjah Mada, 2024 | Diunduh dari <http://etd.repository.ugm.ac.id/>

World Health Organization (2016) *Definition of an older or elderly person*. World Health Organization. Available at: <http://www.who.int/healthinfo/survey/ageingdefnolder/en/> (Accessed: November 11, 2022).

World Health Organization (2021) *Injuries and violence*. World Health Organization. Available at: <https://www.who.int/news-room/fact-sheets/detail/injuries-and-violence> (Accessed: November 11, 2022).

Yee, W.Y., Cameron, P.A., & Bailey, M.J. (2006) 'Road traffic injuries in the elderly', *Emergency Medicine Journal*, 23(1), pp. 42–46. [online]. Available at: <https://doi.org/10.1136/emj.2005.023754> (Accessed: November 11, 2022).