

REFERENCES

- Afifi, M., Al-Hussein, M., & Bouferguene, A. (2015). Geriatric bathroom design to minimize risk of falling for older adults-a systematic review. *European Geriatric Medicine*, 6, 598-603.
- Akoglu, H. (2018). User's guide to correlation coefficients. *Turkish Journal of Emergency Medicine*. 18. 10.1016/j.tjem.2018.08.001.
- Aminzadeh, F., Edwards, N., Lockett, D., & Nair, R.C. (2001). Utilization of bathroom safety devices, patterns of bathing and toileting, and bathroom falls in a sample of community living older adults. *Technology and Disability*, 13, 95-103.
- Almeida, C.W., Castro, C.H., Pedreira, P.G., Heymann, R.E., & Szejnfeld, V.L. (2011). Percentage height of center of mass is associated with the risk of falls among elderly women: A case-control study. *Gait & posture*, 34 2, 208-12 .
- Badan Pusat Statistik (2021) "Hasil Sensus Penduduk 2020," Berita Resmi Statistik. Berita Resmi Statistik No. 08/01/34/Th. XXIII, 21 January, pp. 1–13.
- Barbosa, Aline & Souza, José & Lebrão, Maria & Laurenti, Ruy & Marucci, Maria de Fátima. (2005). *Functional limitations of Brazilian elderly by age and gender differences: Data from SABE Survey*. *Cadernos de saúde pública / Ministério da Saúde, Fundação Oswaldo Cruz, Escola Nacional de Saúde Pública*. 21. 1177-85. 10.1590/S0102-311X2005000400020.
- Bergh, C., Wennergren, D., Möller, M., & Brisby, H. (2020). *Fracture incidence in adults in relation to age and gender: A study of 27,169 fractures in the Swedish Fracture Register in a well-defined catchment area*. *PloS one*, 15(12), e0244291. <https://doi.org/10.1371/journal.pone.0244291>

Bergland, A., Jarnlo, G., & Laake, K.O. (2003). Predictors of falls in the elderly by location. *Aging Clinical and Experimental Research*, 15, 43-50.

Berry, S. D., & Miller, R. R. (2008). *Falls: epidemiology, pathophysiology, and relationship to fracture*. *Current osteoporosis reports*, 6(4), 149–154.
<https://doi.org/10.1007/s11914-008-0026-4>

Brown, J. P., Josse, R. G., & Scientific Advisory Council of the Osteoporosis Society of Canada (2002). *2002 clinical practice guidelines for the diagnosis and management of osteoporosis in Canada*. *CMAJ : Canadian Medical Association journal = journal de l'Association medicale canadienne*, 167(10 Suppl), S1–S34.

Booranrom, Y., Watanapa, B., & Mongkolnam, P. (2014). Smart bedroom for elderly using kinect. *2014 International Computer Science and Engineering Conference (ICSEC)*, 427-432.

Burge, Russel & Worley, Dan & Johansen, Antony & Bhattacharyya, Samir & Bose, Uday. (2008). *The cost of osteoporotic fractures in the UK: Projections for 2000-2020*. *Journal of Medical Economics*. 4. 51-62. 10.3111/200104051062.

Carter SE, Campbell EM, Sanson-Fisher RW, Redman S, Gillespe WJ (1997).
Environmental hazards in the homes of older people. *Age Ageing*, 26(3): 195-202.

Capezuti E, Wagner L, Brush BL, Boltz M, Renz S, Secic M. Bed and Toilet Height as Potential Environmental Risk Factors. *Clinical Nursing Research*. 2008;17(1):50-66. doi:10.1177/1054773807311408

Centers for Disease Control and Prevention (2022) Keep on Your Feet [Online]
Available at: <https://www.cdc.gov/injury/features/older-adult-falls/index.html#:~:text=About%2036%20million%20falls%20are,bones%20or%20a%20head%20injury> [Accessed on 3 February, 2023].

Centers for Disease Control and Prevention (2017) *Risk Factors for Falls* [Online]

Available at: https://www.cdc.gov/steady/pdf/Risk_Factors_for_Falls-print.pdf

[Accessed on 19 March, 2023].

Charan, J., & Biswas, T. (2013). How to calculate sample size for different study designs in medical research?. *Indian journal of psychological medicine*, 35(2), 121–126. <https://doi.org/10.4103/0253-7176.116232>

Court-Brown, C. M., Clement, N. D., Duckworth, A. D., Biant, L. C., & McQueen, M. M. (2017). The changing epidemiology of fall-related fractures in adults. *Injury*, 48(4), 819–824. <https://doi.org/10.1016/j.injury.2017.02.021>

Edwards, N., Birkett, N., Nair, R.C., Murphy, M., Roberge, G.D., & Lockett, D. (2007). Access to Bathtub Grab Bars: Evidence of a Policy Gap*. *Canadian Journal on Aging / La Revue canadienne du vieillissement*, 25, 295 - 304.

Department of Health. Hospital episode statistics (England) 2006.

Douša, P., Čech, O., Weissinger, M., & Džupa, V. (2013). Trochanterické zlomeniny femuru [Trochanteric femoral fractures]. *Acta chirurgiae orthopaedicae et traumatologiae Cechoslovaca*, 80(1), 15–26.

Fareq, R.U., & Neeraja, T. (2020). Designing Staircase for Age-Friendly Housing. *Current Journal of Applied Science and Technology*, 176-182.

Fredericson, M., Jennings, F., Beaulieu, C., & Matheson, G. O. (2006). *Stress fractures in athletes*. *Topics in magnetic resonance imaging: TMRI*, 17(5), 309–325. <https://doi.org/10.1097/RMR.0b013e3180421c8c>

Goto, Y., Kose, S., Tanaka, S., & Yada, H. (2020). Bathroom Handrail Requirements for Use by the Elderly. *International Conference on Applied Human Factors and Ergonomics*.

Gilmore Andes, G., & Beamish, J.O. (2008). Development and Use of the Supportive Bathroom Features Checklist in Homes Designed for Retired Persons. *Housing and Society*, 35, 139 - 169.

Greenspan SL, Myers ER, Kiel DP, Parker RA, Hayes WC, Resnick NM (1998). Fall direction, bone mineral density, and function: Risk factors for hip fracture in frail nursing home elderly. *The J Am Med*, 104(6): 539-545.

Hardiyati, Prijotomo J., Rachmawati M., 2013. Kearifan Budaya dan Perkembangan Material Kearifan Penggunaan Material pada Rumah Jawa di Pedesaan. Seminar nasional scan#4:2013“Stone, Steel, and Straw”Building Materials and Sustainable Environment. Penerbit Universitas Atmajaya Yogyakarta.pp 136-145

Healey, F. (1994). Does flooring type affect risk of injury in older in-patients? *Nursing times*, 90 27, 40-1.

Hernlund, E., Svedbom, A., Ivergård, M., Compston, J., Cooper, C., Stenmark, J., McCloskey, E. V., Jönsson, B., & Kanis, J. A. (2013). *Osteoporosis in the European Union: medical management, epidemiology and economic burden*. A report prepared in collaboration with the International Osteoporosis Foundation (IOF) and the European Federation of Pharmaceutical Industry Associations (EFPIA). *Archives of osteoporosis*, 8(1), 136. <https://doi.org/10.1007/s11657-013-0136-1>

Hrovatin, J., Prekrat, S., Oblak, L., & Ravnik, D. (2015). Ergonomic suitability of kitchen furniture regarding height accessibility. *Collegium antropologicum*, 39 1, 185-91.

Institute of Medicine (US) Division of Health Promotion and Disease Prevention, Berg, R. L., & Cassells, J. S. (Eds.). (1992). *The Second Fifty Years: Promoting Health and Preventing Disability*. National Academies Press (US).

Ishihara, K., Nagamachi, M., Komatsu, K., Ishihara, S., Ichitsubo, M., Mikami, F., Osuga, Y., Imamura, K., & Osaki, H. (2002). Handrails for the elderly: A survey

of the need for handrails and experiments to determine the optimal size of staircase handrails. *Gerontechnology*, 1, 175-189.

Josephson, Karen & Fabacher, Diana & Rubenstein, Laurence. (1991). Home Safety and Fall Prevention. *Clinics in geriatric medicine*. 7. 707-31. [10.1016/S0749-0690\(18\)30515-9](https://doi.org/10.1016/S0749-0690(18)30515-9).

Karlsson, M.K., Vonschewelov, T., Karlsson, C., Cöster, M.C., & Rosengen, B.E. (2013). Prevention of falls in the elderly: A review. *Scandinavian Journal of Public Health*, 41, 442 - 454.

Kanis, J. A., Oden, A., Johnell, O., Jonsson, B., de Laet, C., & Dawson, A. (2001). The burden of osteoporotic fractures: a method for setting intervention thresholds. *Osteoporosis international : a journal established as result of cooperation between the European Foundation for Osteoporosis and the National Osteoporosis Foundation of the USA*, 12(5), 417–427.
<https://doi.org/10.1007/s001980170112>

Kementrian Kesehatan RI. (2015). Data dan kondisi penyakit osteoporosis di Indonesia. Jakarta: Balitbang Depkes RI

King, M. B., & Tinetti, M. E. (1995). *Falls in community-dwelling older persons*. *Journal of the American Geriatrics Society*, 43(10), 1146–1154.
<https://doi.org/10.1111/j.1532-5415.1995.tb07017.x>

Kirvesoja, H., Väyrynen, S.T., & Häikiö, A. (2000). Three evaluations of task-surface heights in elderly people's homes. *Applied ergonomics*, 31 2, 109-19.

Kwan, M.M., Lin, S., Chen, C., Close., J.C., & Lord, S.R. (2011). Minimal chair height standing ability is independently associated with falls in Taiwanese older people. *Archives of physical medicine and rehabilitation*, 92 7, 1080-5.

Luukkala, T., Laitinen, M. K., Hevonkorpi, T. P., Raittio, L., Mattila, V. M., & Launonen, A. P. (2020). Distal radius fractures in the elderly population. *EFORT open reviews*, 5(6), 361–370. <https://doi.org/10.1302/2058-5241.5.190060>

Lord, S.R., Menz, H.B., & Sherrington, C. (2006). Home environment risk factors for falls in older people and the efficacy of home modifications. *Age and ageing*, 35 Suppl 2, ii55-ii59.

Mahmoodabad, S.S., Zareipour, M., Askarishahi, M., & Beigomi, A. (2018). Effect of the Living Environment on falls among the Elderly in Urmia. *Open Access Macedonian Journal of Medical Sciences*, 6, 2233 - 2238.

Matteo Cesari, Francesco Landi, Sergio Torre, Graziano Onder, Fabrizia Lattanzio, Roberto Bernabei, Prevalence and Risk Factors for Falls in an Older Community-Dwelling Population, *The Journals of Gerontology: Series A*, Volume 57, Issue 11, 1 November 2002, Pages M722–M726,
<https://doi.org/10.1093/gerona/57.11.M722>

Menz, H.B., Morris, M.E., & Lord, S.R. (2006). Footwear Characteristics and Risk of Indoor and Outdoor Falls in Older People. *Gerontology*, 52, 174 - 180.

Minns, J., Nabhani, F., & Bamford, J. (2004). Can flooring and underlay materials reduce hip fractures in older people? *Nursing older people*, 16 5, 16-20.

Murray, S. R., Reeder, M. T., Udermann, B. E., & Pettitt, R. W. (2006). *High-risk stress fractures: pathogenesis, evaluation, and treatment*. *Comprehensive therapy*, 32(1), 20–25. <https://doi.org/10.1385/comp:32:1:20>

National Clinical Guideline Centre (UK). (2012). *Osteoporosis: Fragility Fracture Risk: Osteoporosis: Assessing the Risk of Fragility Fracture*. Royal College of Physicians (UK).

Overstall, P.W., Exton-smith, A.N., Imms, F.J., & Johnson, A.L. (1977). Falls in the elderly related to postural imbalance. *British Medical Journal*, 1, 261 - 264.

Paul, S., & Liu, Y. (2012). Inadequate Light Levels and Their Effect on Falls and Daily Activities of Community Dwelling Older Adults: A Review of Literature. *New Zealand journal of occupational therapy*, 59, 39.

Pereira, S.G., dos Santos, C.B., Doring, M., & Portella, M.R. (2017). Prevalence of household falls in long-lived adults and association with extrinsic factors 1. *Revista Latino-Americana de Enfermagem*, 25.

Rapp, K., Becker, C., Cameron, I. D., König, H. H., & Büchele, G. (2012). Epidemiology of falls in residential aged care: analysis of more than 70,000 falls from residents of bavarian nursing homes. *Journal of the American Medical Directors Association*, 13(2), 187.e1–187.e1876.
<https://doi.org/10.1016/j.jamda.2011.06.011>

Romli, M. H., Mackenzie, L., Lovarini, M., & Tan, M. P. (2016). *Pilot study to investigate the feasibility of the Home Falls and Accidents Screening Tool (HOME FAST) to identify older Malaysian people at risk of falls*. *BMJ open*, 6(8), e012048. <https://doi.org/10.1136/bmjopen-2016-012048>

Rosen, T.E., Mack, K.A., & Noonan, R.K. (2013). Slipping and tripping: fall injuries in adults associated with rugs and carpets. *Journal of Injury and Violence Research*, 5, 61 - 69.

Sabatini, S.N., Kusuma, H.E. and Tambunan, L. (2017). Faktor Eksternal Risiko Jatuh Lansia: Studi Empiris. [online] TEMU ILMIAH IPLBI. Available at: https://www.researchgate.net/publication/316878232_Faktor_Eksternal_Risiko_Jatuh_Lansia_Studi_Empiris [Accessed 24 Mar. 2023].

Schenkman, M.L., Hughes, M., Samsa, G., & Studenski, S. (1996). The Relative Importance of Strength and Balance in Chair Rise by Functionally Impaired Older Individuals. *Journal of the American Geriatrics Society*, 44.

Schiller, J. S., Kramarow, E. A., & Dey, A. N. (2007). *Fall injury episodes among noninstitutionalized older adults: United States, 2001-2003*. Advance data, (392), 1–16.

Septia, M.D., Purwanta, SKp., Mkes, Subekti, H., S.Kep., Ns., MPH (2017)
Hubungan Rasa Takut Jatuh Dengan Fungsi Ekstremitas Bawah Pada Lansia di Desa Srimulyo Kecamatan Piyungan Bantul Yogyakarta. Thesis

Sernbo, I., & Johnell, O. (1993). Consequences of a hip fracture: a prospective study over 1 year. *Osteoporosis international : a journal established as result of cooperation between the European Foundation for Osteoporosis and the National Osteoporosis Foundation of the USA*, 3(3), 148–153.

<https://doi.org/10.1007/BF01623276>

Shanantya, D., Probosuseno, dr., Sp.PD, K-Ger, Sudargo, T., Dr., S.KM, M.Kes (2016) *Hubungan Antara Asupan Gizi, Kadar Haemoglobin, dan Gula Darah Sewaktu Dengan Risiko Jatuh Pada Lansia di Panti Sosial Tresna Werdha Budhi Dharma Yogyakarta*. Thesis

Stark, S., Somerville, E., Keglovits, M., Conte, J., Li, M., Hu, Y. L., & Yan, Y. (2017). *Protocol for the home hazards removal program (HARP) study: a pragmatic, randomized clinical trial and implementation study*. BMC geriatrics, 17(1), 90. <https://doi.org/10.1186/s12877-017-0478-4>

Stevens, J. A., Corso, P. S., Finkelstein, E. A., & Miller, T. R. (2006). *The costs of fatal and non-fatal falls among older adults*. Injury prevention : journal of the International Society for Child and Adolescent Injury Prevention, 12(5), 290–295. <https://doi.org/10.1136/ip.2005.011015>

Susilowardani, Dewi & Istiono, Wahyudi & Pramantara, I. (2020). *Adaptation of Home Falls and Accidents Screening Tool (HOME FAST) as a Fall Risk Screening Tool for the Elderly in First Level Health Facilities at Purworejo Regency*. Review of Primary Care Practice and Education (Kajian Praktik dan Pendidikan Layanan Primer). 3. 6. 10.22146/rpcpe.33984.

Simpson, A.H., Lamb, S.E., Roberts, P., Roberts, P.J., Gardner, T.N., & Evans, J.G. (2004). Does the type of flooring affect the risk of hip fracture? *Age and ageing*, 33 3, 242-6.

Tharbhong, P., Homrossukon, S., & Piriyaprasarth, P. (2019). Ergonomic Recommendation of Suitable Toilet Seat Height for Older Thai People. *Journal of Health Science and Medical Research*.

The prevention of falls in later life. A report of the Kellogg International Work Group on the Prevention of Falls by the Elderly. (1987). *Danish medical bulletin*, 34 Suppl 4, 1–24.

Tinetti, M. E., Speechley, M., & Ginter, S. F. (1988). *Risk factors for falls among elderly persons living in the community*. *The New England journal of medicine*, 319(26), 1701–1707. <https://doi.org/10.1056/NEJM198812293192604>

van Oostwaard M. *Osteoporosis and the Nature of Fragility Fracture: An Overview*. 2018 Jun 16. In: Hertz K, Santy-Tomlinson J, editors. *Fragility Fracture Nursing: Holistic Care and Management of the Orthogeriatric Patient* [Internet]. Cham (CH): Springer; 2018. Chapter 1. Available from: <https://www.ncbi.nlm.nih.gov/books/NBK543829/> doi: 10.1007/978-3-319-76681-2_1

World Health Organization. (2022) Ageing and Health [Online] Available at: <https://www.who.int/news-room/fact-sheets/detail/ageing-and-health> [Accessed on 2 February 2023].

Woolf, A. D., & Akesson, K. (2003). Preventing fractures in elderly people. *BMJ* (Clinical research ed.), 327(7406), 89–95. <https://doi.org/10.1136/bmj.327.7406.89>