



## DAFTAR PUSTAKA

- Aggarwal, P., Woolford, S.J., dan Patel, H.P., 2020. Multi-Morbidity and Polypharmacy in Older People: Challenges and Opportunities for Clinical Practice. *Geriatrics (Basel, Switzerland)*, **5**: E85.
- Ahmad, A., Mast, M.R., Nijpels, G., Elders, P.J., Dekker, J.M., dan Hugtenburg, J.G., 2014. Identification of drug-related problems of elderly patients discharged from hospital. *Patient preference and adherence*, **8**: 155–165.
- Amarya, S., Singh, K., dan Sabharwal, M., 2018. *Ageing Process and Physiological Changes*, Gerontology. IntechOpen.
- American Geriatrics Society, 2019. American Geriatrics Society 2019 Updated AGS Beers Criteria® for Potentially Inappropriate Medication Use in Older Adults. *Journal of the American Geriatrics Society*, **67**: 674–694.
- Babu, D.S.C., Rao, D.M.M., Parveen, D.S., sree, S.D., dan Bhargavi, K., 2018b. 'Clinical pharmacists ' role in identification of drug related problems in a tertiary care teaching hospital in Kadapa'.
- Badan POM Republik Indonesia, 2012. Pedoman Monitoring Efek Samping Obat (MESO) Bagi Tenaga Kesehatan
- Badan Pusat Statistik, 2019. Statistik Penduduk Lanjut Usia.
- Boss, G.R. dan Seegmiller, J.E., 1981. Age-Related Physiological Changes and Their Clinical Significance. *Western Journal of Medicine*, **135**: 434–440.
- Brahma, D.K., Wahlang, J.B., Marak, M.D., dan Sangma, M.C., 2013. Adverse drug reactions in the elderly. *Journal of Pharmacology and Pharmacotherapeutics*, **4**: 91.
- Calderón-Larrañaga, A., Vetrano, D.L., Onder, G., Gimeno-Feliu, L.A., Coscollar-Santaliestra, C., Carfí, A., dkk., 2017. Assessing and Measuring Chronic Multimorbidity in the Older Population: A Proposal for Its Operationalization. *The Journals of Gerontology. Series A, Biological Sciences and Medical Sciences*, **72**: 1417–1423.
- Cipolle, R.J., Strand, L., dan Morley, P., 2012. 'Pharmaceutical Care Practice: The Patient-Centered Approach to Medication Management'. URL: <https://bok.asia/book/2542172/71cba1> (diakses tanggal 28/9/2021).
- Dahlan, Sopiyudin M., 2010. *Besar Sampel Dan Cara Pengambilan Sampel Dalam Penelitian Kedokteran Dan Kesehatan*, Edisi 3. ed, Seri Evidence Based Medicine 2. Salemba Medika.



- Ertuna, E., Arun, M.Z., Ay, S., Koçak, F.Ö.K., Gökdemir, B., dan İspirli, G., 2019a. Evaluation of pharmacist interventions and commonly used medications in the geriatric ward of a teaching hospital in Turkey: a retrospective study. *Clinical Interventions in Aging*, **14**: 587–600.
- Ertuna, E., Arun, M.Z., Ay, S., Koçak, F.Ö.K., Gökdemir, B., dan İspirli, G., 2019b. Evaluation of pharmacist interventions and commonly used medications in the geriatric ward of a teaching hospital in Turkey: a retrospective study. *Clinical Interventions in Aging*, **14**: 587–600.
- Gates, P.J., Baysari, M.T., Mumford, V., Raban, M.Z., dan Westbrook, J.I., 2019a. Standardising the Classification of Harm Associated with Medication Errors: The Harm Associated with Medication Error Classification (HAMEC). *Drug Safety*, **42**: 931–939.
- Hepler, C.D. dan Strand, L.M., 1990. Opportunities and responsibilities in pharmaceutical care. *American Journal of Hospital Pharmacy*, **47**: 533–543.
- Kementerian Kesehatan Republik Indonesia, 2014a. Peraturan Menteri Kesehatan Republik Indonesia Nomor 79 Tahun 2014 tentang Penyelenggaraan Pelayanan Geriatri di Rumah Sakit.
- Kementerian Kesehatan Republik Indonesia, 2016. 'Peraturan Menteri Kesehatan No. 72 Tahun 2016 tentang Standar Pelayanan Kefarmasian Di Rumah Sakit'. URL: <https://peraturan.bpk.go.id/Home/Details/114491/permendesa-no-72-tahun-2016> (diakses tanggal 28/9/2021).
- Kementerian Kesehatan Republik Indonesia, 2017. Analisis Lansia di Indonesia, Jakarta Selatan, Kementerian Kesehatan Republik Indonesia Pusat Data dan Informasi.
- Kementerian Kesehatan Republik Indonesia, 2019a. Indonesia Masuki Periode Aging Population.
- Komisi Akreditasi Rumah Sakit, 2018. Standar Nasional Akreditasi Rumah Sakit Edisi 1.
- Koprivnik, S., Albiñana-Pérez, M.S., López-Sandomingo, L., Taboada-López, R.J., dan Rodríguez-Penín, I., 2020. Improving patient safety through a pharmacist-led medication reconciliation programme in nursing homes for the elderly in Spain. *International Journal of Clinical Pharmacy*, **42**: 805–812.
- Kwak, Y.G., Choi, Seong Ho, Kim, T., Park, S.Y., Seo, S.H., Kim, M.B., dkk., 2017. Clinical Guidelines for the Antibiotic Treatment for Community-Acquired Skin and Soft Tissue Infection. *Infection & Chemotherapy*, **49**: 301–325.



- Landefeld, C.S., Palmer, R.M., Kresevic, D.M., Fortinsky, R.H., dan Kowal, J., 1995b. A randomized trial of care in a hospital medical unit especially designed to improve the functional outcomes of acutely ill older patients. *The New England Journal of Medicine*, **332**: 1338–1344.
- Lee, J.K., Alshehri, S., Kutbi, H.I., dan Martin, J.R., 2015. Optimizing pharmacotherapy in elderly patients: the role of pharmacists. *Integrated Pharmacy Research & Practice*, **4**: 101–111.
- Maher, R.L., Hanlon, J.T., dan Hajjar, E.R., 2014. Clinical Consequences of Polypharmacy in Elderly. *Expert opinion on drug safety*, **13**: 10.1517/14740338.2013.827660.
- Midlöv, P., Eriksson, T., dan Kragh, A., 2009a. Aging and Drugs, dalam: *Drug-Related Problems in the Elderly*. Springer Netherlands, Dordrecht, hal. 1–7.
- Mongaret, C., Quillet, P., Vo, T.H., Aubert, L., Fourgeaud, M., Michelet-Huot, E., dkk., 2018. Predictive factors for clinically significant pharmacist interventions at hospital admission. *Medicine*, **97**: e9865.
- Nachtigall, A., Heppner, H.J., dan Thürmann, P.A., 2019a. Influence of pharmacist intervention on drug safety of geriatric inpatients: a prospective, controlled trial. *Therapeutic Advances in Drug Safety*, **10**: 2042098619843365.
- Nigam, Y., Knight, J., Bhattacharya, S., dan Bayer, A., 2012. Physiological Changes Associated with Aging and Immobility. *Journal of Aging Research*, **2012**: e468469.
- Overhage, J.M. dan Lukes, A., 1999. Practical, reliable, comprehensive method for characterizing pharmacists' clinical activities. *American journal of health-system pharmacy: AJHP: official journal of the American Society of Health-System Pharmacists*, **56**: 2444–2450.
- Pharmaceutical Care Network Europe, 2019a. Classification for Drug-Related Problems V9.00.
- Pharmaceutical Care Network Europe, 2019b. Classification for Drug-Related Problems V9.00.
- Rozzini, R., Frisoni, G.B., Ferrucci, L., Barbisoni, P., Sabatini, T., Ranieri, P., dkk., 2002. Geriatric Index of Comorbidity: validation and comparison with other measures of comorbidity. *Age and Ageing*, **31**: 277–285.
- Salvi, F., Marchetti, A., D'Angelo, F., Boemi, M., Lattanzio, F., dan Cherubini, A., 2012. Adverse drug events as a cause of hospitalization in older adults. *Drug Safety*, **35 Suppl 1**: 29–45.



- Sehgal, V., Bajwa, S.J.S., Sehgal, R., Bajaj, A., Khaira, U., dan Kresse, V., 2013. Polypharmacy and potentially inappropriate medication use as the precipitating factor in readmissions to the hospital. *Journal of Family Medicine and Primary Care*, **2**: 194–199.
- Sell, R. dan Schaefer, M., 2020. Prevalence and risk factors of drug-related problems identified in pharmacy-based medication reviews. *International Journal of Clinical Pharmacy*, **42**: 588–597.
- Somers, A., Robays, H., De Paepe, P., Van Maele, G., Perehudoff, K., dan Petrovic, M., 2013a. Evaluation of clinical pharmacist recommendations in the geriatric ward of a Belgian university hospital. *Clinical Interventions in Aging*, **8**: 703–709.
- Sullivan, T. dan de Barra, E., 2018. Diagnosis and management of cellulitis. *Clinical Medicine*, **18**: 160–163.
- Suryani, D., Bahtiar, A., dan Andrajati, R., 2017b. Pharmacist Involvement to Decrease Drug-Related Problems Among Geriatric Patients in Indonesian Primary Health Centers. *Asian Journal of Pharmaceutical and Clinical Research*, 102–107.
- Teka, F., Teklay, G., Ayalew, E., dan Teshome, T., 2016. Potential drug–drug interactions among elderly patients admitted to medical ward of Ayder Referral Hospital, Northern Ethiopia: a cross sectional study. *BMC Research Notes*, **9**: 431.
- Trenaman, S., Bowles, S.K., Mallory, L., Koller, K., dan Andrew, M., 2014. Innovative Collaborative Practice to Optimize Pharmacotherapy for Frail Older Patients. *The Canadian Journal of Hospital Pharmacy*, **67**: 373–378.
- Turnheim, K., 2004. Drug therapy in the elderly. *Experimental Gerontology*, **39**: 1731–1738.
- Viktil, K.K., Blix, H.S., Moger, T.A., dan Reikvam, A., 2007. Polypharmacy as commonly defined is an indicator of limited value in the assessment of drug-related problems. *British Journal of Clinical Pharmacology*, **63**: 187–195.
- World Health Organization, 2018. 'Ageing and health'.
- World Health Organization, 2021. 'ATC/DDD Index'. URL: [https://www.whocc.no/atc\\_ddd\\_index/](https://www.whocc.no/atc_ddd_index/) (diakses tanggal 28/9/2021).
- Yailian, A.-L., Revel, E., Tardy, C., Fontana, A., Estublier, C., Decullier, E., dkk., 2019a. Assessment of the clinical relevance of pharmacists' interventions performed during medication review in a rheumatology ward. *European Journal of Internal Medicine*, **59**: 91–96.



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Rawat Inap di Rumah Sakit Panti Raphi

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Zaal, R.J., den Haak, E.W., Andrinopoulou, E.R., van Gelder, T., Vulto, A.G., dan van den Bemt, P.M.L.A., 2020. Physicians' acceptance of pharmacists' interventions in daily hospital practice. *International Journal of Clinical Pharmacy*, **42**: 141–149.