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DAFTAR PUSTAKA

Aguiar, F.P., Westphal, G.A., Dadam, M.M., Mota, E.C.C., Pfutzenreuter, F., dan França, P.H.C., 2019. Characteristics and predictors of chronic critical illness in the intensive care unit. *Revista Brasileira de Terapia Intensiva*, **31**: 511–520.

Ahuja, A. dan Abdijadid, S., 2022. Benztropine, dalam: *StatPearls [Internet]*. StatPearls Publishing.

Akinosoglou, K., Schinas, G., Almyroudi, M.P., Gogos, C., dan Dimopoulos, G., 2023. The impact of age on intensive care. *Ageing Research Reviews*, **84**: 101832.

Ali, A.M., Radtke, K.K., Hesseling, A.C., Winckler, J., Schaaf, H.S., Draper, H.R., dkk., 2023. QT Interval Prolongation with One or More QT-Prolonging Agents Used as Part of a Multidrug Regimen for Rifampicin-Resistant Tuberculosis Treatment: Findings from Two Pediatric Studies. *Antimicrobial Agents and Chemotherapy*, **67**: e0144822.

Alqurbi, M. dan Atiah, M., 2020. The role of clinical pharmacists in reducing adverse drug reactions. *International Journal of Medicine in Developing Countries*, 236–239.

Alsaad, S., Addweesh, A., Beyari, M., Alkhateb, M., Alswat, A., Alshabnan, A., dkk., 2022. Comorbidities associated with risk of ICU admission in elderly patients with COVID-19: Data from academic hospital in Saudi Arabia. *Medicine*, **101**: e30799.

Alshammari, T.M., 2016. Drug safety: The concept, inception and its importance in patients' health. *Saudi Pharmaceutical Journal : SPJ*, **24**: 405–412.

Alshehri, A.M., Alenazi, O.S., Almutairi, S.A., Alali, A.Z., Almogbel, Y.S., Alonazi, R.E., dkk., 2022. Pharmacist Intention to Provide Medication Therapy Management Services in Saudi Arabia: A Study Using the Theory of Planned Behaviour. *International Journal of Environmental Research and Public Health*, **19**: 5279.

Araujo-Castro, M., Pascual-Corrales, E., dan Lamas, C., 2023. Possible, probable, and certain hypercortisolism: A continuum in the risk of comorbidity. *Annales d'Endocrinologie*, **84**: 272–284.

Aronson, J.K., 2005. *MEYLER'S Side Effects of Drugs The International Encyclopedia of Adverse Drug Reactions and Interactions*, Fifteenth. ed. Elsevier, Oxford.

Aronson, J.K., 2007. Communicating information about drug interactions. *British Journal of Clinical Pharmacology*, **63**: 637–639.

Arredondo, E., Udeani, G., Horseman, M., Hintze, T.D., dan Surani, S., 2021. Role of Clinical Pharmacists in Intensive Care Units. *Cureus*, **13**: e17929.

Ataei, S., Jabbari, M., Mehrpooya, M., Taher, A., Poorolajal, J., dan Keramat, F., 2018. Drug Interactions Among Hospitalized Patients in Intensive Care Units and Infectious Ward, Hamadan, Iran. *Avicenna Journal of Clinical Microbiology and Infection*, **5**: 46–51.

Hubungan Tingkat Keparahan Interaksi Obat dengan Adverse Drug Reaction pada Pasien Intensive Care
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Universitas Gadjah Mada, 2024 | Diunduh dari http://etd.repository.ugm.ac.id/

Awad, A., Bader-El-Den, M., dan McNicholas, J., 2017. Patient length of stay and mortality prediction: A survey. *Health Services Management Research*, **30**: 105–120.

Badan Pengawas Obat dan Makanan dan Japan International Cooperation Agency, 2020. 'Modul Farmakovigilans untuk Tenaga Kesehatan', . Badan Pengawas Obat dan Makanan, Jakarta, Indonesia.

Badri, P., Dutta, S., Coakley, E., Cohen, D., Ding, B., Podsadecki, T., dkk., 2015. Pharmacokinetics and dose recommendations for cyclosporine and tacrolimus when coadministered with ABT-450, ombitasvir, and dasabuvir. *American Journal of Transplantation: Official Journal of the American Society of Transplantation and the American Society of Transplant Surgeons*, **15**: 1313–1322.

Baghaei, R., Torabzadeh, A., Sorayya, H., dan Alinejad, V., 2023. Assessment of frequency and types of drug interactions in intensive care units: a cross-sectional study. *Annals of Medicine and Surgery*, **86**: 98–102.

Bakker, T., Abu-Hanna, A., Dongelmans, D.A., Vermeijden, W.J., Bosman, R.J., de Lange, D.W., dkk., 2021. Clinically relevant potential drug-drug interactions in intensive care patients: A large retrospective observational multicenter study. *Journal of Critical Care*, **62**: 124–130.

Bakker, T., Klopotowska, J.E., Eslami, S., de Lange, D.W., van Marum, R., van der Sijs, H., dkk., 2019. The effect of ICU-tailored drug-drug interaction alerts on medication prescribing and monitoring: protocol for a cluster randomized stepped-wedge trial. *BMC Medical Informatics and Decision Making*, **19**: 159.

Baniasadi, S., Farzanegan, B., dan Alehashem, M., 2015. Important drug classes associated with potential drug–drug interactions in critically ill patients: highlights for cardiothoracic intensivists. *Annals of Intensive Care*, **5**: 44.

Beckett, R.D., Martin, J.R., Stump, C.D., dan Dyer, M.A., 2020. Evaluation of drug information resources for interactions between therapeutic drugs and drugs of abuse. *Journal of the Medical Library Association : JMLA*, **108**: 584–590.

Bernardi, F.A., Alves, D., Crepaldi, N., Yamada, D.B., Lima, V.C., dan Rijo, R., 2023. Data Quality in Health Research: Integrative Literature Review. *Journal of Medical Internet Research*, **25**: e41446.

Bhat, M.Y., Farhat, S., dan Nabi, U., 2022. An Evaluation of Causality, Severity, and Preventability of Adverse Drug Reactions Reported by Undergraduate Medical Students in a Tertiary Care Hospital **7**: 108–116.

Boullata, J.I. dan Armenti, V.T., 2010. *Handbook of Drug-Nutrient Interactions*, Second Edition. ed. Humana Press.

Bucşa, C., Farcaş, A., Cazacu, I., Leucuta, D., Achimas-Cadariu, A., Mogosan, C., dkk., 2013. How many potential drug–drug interactions cause adverse drug reactions in hospitalized patients? *European Journal of Internal Medicine*, **24**: 27–33.

Cascorbi, I., 2012. Drug Interactions—Principles, Examples and Clinical Consequences. *Deutsches Ärzteblatt International*, **109**: 546–556.

Hubungan Tingkat Keparahan Interaksi Obat dengan Adverse Drug Reaction pada Pasien Intensive Care
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Firda Ridhayani, Prof. Dr. apt. Ika Puspita Sari, S. Si., M.Si.; Prof. Dr. apt. Tri Murti Andayani, Sp. FRS.
Universitas Gadjah Mada, 2024 | Diunduh dari http://etd.repository.ugm.ac.id/

Castro-Moraga, M.E., Campos L, A., Figueroa V, C., Yizmeyián M, A., dan Piñera M, C., 2021. Drug interactions in HIV-infected children undergoing treatment with antiretrovirals. *Andes Pediatrica: Revista Chilena De Pediatria*, **92**: 446–454.

Chen, H., Hailey, D., Wang, N., dan Yu, P., 2014. A Review of Data Quality Assessment Methods for Public Health Information Systems. *International Journal of Environmental Research and Public Health*, **11**: 5170–5207.

Choi, Y.H., Lee, I.H., Yang, M., Cho, Y.S., Jo, Y.H., Bae, H.J., dkk., 2021. Clinical significance of potential drug–drug interactions in a pediatric intensive care unit: A single-center retrospective study. *PLOS ONE*, **16**: e0246754.

Corsonello, A., Pedone, C., Corica, F., Mussi, C., Carbonin, P., Antonelli Incalzi, R., dkk., 2005. Concealed Renal Insufficiency and Adverse Drug Reactions in Elderly Hospitalized Patients. *Archives of Internal Medicine*, **165**: 790–795.

Dagdelen, M.S., Gulen, D., Ceylan, I., dan Girgin, N.K., 2021. Evaluation of potential drug-drug interactions in intensive care unit. *European Review*, **25**: 5801–5806.

Day, R.O., Snowden, L., dan McLachlan, A.J., 2017. Life-threatening drug interactions: what the physician needs to know. *Internal Medicine Journal*, **47**: 501–512.

de Vries, S.T., Denig, P., Ekhart, C., Burgers, J.S., Kleefstra, N., Mol, P.G.M., dkk., 2019. Sex differences in adverse drug reactions reported to the National Pharmacovigilance Centre in the Netherlands: An explorative observational study - Vries - 2019 - British Journal of Clinical Pharmacology - Wiley Online Library 1507–1515.

Demirkapu, M.J. dan Kara, S.P., 2021. Potential drug-drug interactions in University Hospital Medical Intensive Care Unit patients in Turkey **25**: 7108–7114.

Devlin, J.W., Skrobik, Y., Gélinas, C., Needham, D.M., Slooter, A.J.C., Pandharipande, P.P., dkk., 2018. Clinical Practice Guidelines for the Prevention and Management of Pain, Agitation/Sedation, Delirium, Immobility, and Sleep Disruption in Adult Patients in the ICU. *Critical Care Medicine*, **46**: e825–e873.

Diksis, N., Melaku, T., Assefa, D., dan Tesfaye, A., 2019. Potential drug–drug interactions and associated factors among hospitalized cardiac patients at Jimma University Medical Center, Southwest Ethiopia. *SAGE Open Medicine*, **7**: 1–9.

Dinas Kesehatan Kota Yogyakarta, 2022. *Profil Kesehatan Kota Yogyakarta Tahun 2022*.

Dobos, N.M. dan Warrillow, S.J., 2024. Gastrointestinal problems in intensive care. *Anaesthesia & Intensive Care Medicine*, **25**: 30–35.

Donaldson, L.J., Kelley, E.T., Dhingra-Kumar, N., Kieny, M.-P., dan Sheikh, A., 2017. Medication Without Harm: WHO's Third Global Patient Safety Challenge. *The Lancet*, **389**: 1680–1681.

Dumbreck, S., Flynn, A., Nairn, M., Wilson, M., Treweek, S., Mercer, S.W., dkk., 2015. Drug-disease and drug-drug interactions: systematic examination of

Hubungan Tingkat Keparahan Interaksi Obat dengan Adverse Drug Reaction pada Pasien Intensive Care
Unit di RS Akademik Universitas Gadjah Mada
Firda Ridhayani, Prof. Dr. apt. Ika Puspita Sari, S. Si., M.Si.; Prof. Dr. apt. Tri Murti Andayani, Sp. FRS.
Universitas Gadjah Mada, 2024 | Diunduh dari http://etd.repository.ugm.ac.id/

recommendations in 12 UK national clinical guidelines. *BMJ (Clinical research ed.)*, **350**: h949.

Farzi, S., Irajpour, A., Saghaei, M., dan Ravaghi, H., 2017. Causes of Medication Errors in Intensive Care Units from the Perspective of Healthcare Professionals. *Journal of Research in Pharmacy Practice*, **6**: 158.

Favié, L.M.A., Groenendaal, F., van den Broek, M.P.H., Rademaker, C.M.A., de Haan, T.R., van Straaten, H.L.M., dkk., 2019. Phenobarbital, Midazolam Pharmacokinetics, Effectiveness, and Drug-Drug Interaction in Asphyxiated Neonates Undergoing Therapeutic Hypothermia. *Neonatology*, **116**: 154–162.

Fernandez, E., Perez, R., Hernandez, A., Tejada, P., Arteta, M., dan Ramos, J.T., 2011. Factors and Mechanisms for Pharmacokinetic Differences between Pediatric Population and Adults. *Pharmaceutics*, **3**: 53–72.

Figueiredo, J., Serrado, M., Khmelinskii, N., dan Vale, S. do, 2020. Iatrogenic Cushing syndrome and multifocal osteonecrosis caused by the interaction between inhaled fluticasone and ritonavir. *BMJ Case Reports CP*, **13**: e233712.

Fitzmaurice, M.G., Wong, A., Akerberg, H., Avramovska, S., Smithburger, P.L., Buckley, M.S., dkk., 2019. Evaluation of Potential Drug–Drug Interactions in Adults in the Intensive Care Unit: A Systematic Review and Meta-Analysis. *Drug Safety*, **42**: 1035–1044.

Fowler, R.A., Sabur, N., Li, P., Juurlink, D.N., Pinto, R., Hladunewich, M.A., dkk., 2007. Sex-and age-based differences in the delivery and outcomes of critical care. *CMAJ*, **177**: 1513–1519.

Furdui, A., da Silveira Scarpellini, C., dan Montandon, G., 2023. Fentanyl-Induced Respiratory Depression and Locomotor Hyperactivity Are Mediated by μ-Opioid Receptors Expressed in Somatostatin-Negative Neurons. *eNeuro*, **10**: ENEURO.0035-23.2023.

Gabay, M. dan Spencer, S.H., 2021. Drug Interactions: Scientific and Clinical Principles. *Chronic Conditions and Public Health*, **3**: 7–28.

Gauthier, A.C. dan Mattson, R.H., 2015. Clobazam: A Safe, Efficacious, and Newly Rediscovered Therapeutic for Epilepsy. *CNS Neuroscience & Therapeutics*, **21**: 543–548.

Geffrey, A.L., Pollack, S.F., Bruno, P.L., dan Thiele, E.A., 2015. Drug-drug interaction between clobazam and cannabidiol in children with refractory epilepsy. *Epilepsia*, **56**: 1246–1251.

Gerber, W., Steyn, J.D., Kotzé, A.F., dan Hamman, J.H., 2018. Beneficial Pharmacokinetic Drug Interactions: A Tool to Improve the Bioavailability of Poorly Permeable Drugs. *Pharmaceutics*, **10**: 106.

Ghimire, R., Prasad, P., Parajuli, S., Basnet, R., Lamichhane, P., Poudel, N., dkk., 2022. Potential Drug-drug Interaction among the Patients Admitted in Intensive Care Units of a Tertiary Care Centre: A Descriptive Cross-sectional Study. *JNMA: Journal of the Nepal Medical Association*, **60**: 263–267.

Gobezie, M.Y., Bitew, H.B., Tuha, A., dan Hailu, H.G., 2021. <p>Assessment of Potential Drug–Drug Interactions and Their Predictors in Chronic

Hubungan Tingkat Keparahan Interaksi Obat dengan Adverse Drug Reaction pada Pasien Intensive Care
Unit di RS Akademik Universitas Gadjah Mada
Firda Ridhayani, Prof. Dr. apt. Ika Puspita Sari, S. Si., M.Si.; Prof. Dr. apt. Tri Murti Andayani, Sp. FRS.
Universitas Gadjah Mada, 2024 | Diunduh dari http://etd.repository.ugm.ac.id/

Outpatient Department of Dessie Referral Hospital, Dessie, Northeast Ethiopia</p>. *Drug, Healthcare and Patient Safety*, **13**: 29–35.

Goyal, A., Cusick, A.S., dan Thielemier, B., 2023. ACE Inhibitors, dalam: *StatPearls*. StatPearls Publishing, Treasure Island (FL).

Griffin, J., P. dan D'arcy, P.F., 1997. *A Manual of Adverse Drug Interactions*, Fifth Edition. ed. Elsevier, Netherlands.

Hahn, M. dan Roll, S.C., 2021. The Influence of Pharmacogenetics on the Clinical Relevance of Pharmacokinetic Drug–Drug Interactions: Drug–Gene, Drug–Gene–Gene and Drug–Drug–Gene Interactions. *Pharmaceuticals*, **14**: 487.

Hamberg, A.-K., Wadelius, M., Friberg, L.E., Biss, T.T., Kamali, F., dan Jonsson, E.N., 2014. Characterizing variability in warfarin dose requirements in children using modelling and simulation. *British Journal of Clinical Pharmacology*, **78**: 158–169.

Hammar, T., Hamqvist, S., Zetterholm, M., Jokela, P., dan Ferati, M., 2021. Current Knowledge about Providing Drug–Drug Interaction Services for Patients—A Scoping Review. *Pharmacy: Journal of Pharmacy Education and Practice*, **9**: 69.

Handayani, D., Arief, N., Swidarmoko, B., Astowo, P., dan Dahlan, M.S., 2014. Sistem Skor Acute Physiology And Chronic Health Evaluation (Apache) II Sebagai Prediksi Mortalitas Pasien Rawat Instalasi Perawatan Intensif **34**: .

Hanks, F., Philips, B., Barton, G., Hakes, L., dan McKenzie, C., 2022. 'How critical illness impacts drug pharmacokinetics and pharmacodynamics', *The Pharmaceutical Journal*. URL: https://pharmaceutical-journal.com/article/ld/how-critical-illness-impacts-drug-pharmacokinetics-and-pharmacodynamics (diakses tanggal 5/2/2023).

Hasan, M., Rabbani, R., dan Bachar, S., 2020. Critical Care Pharmacist Using Free Drug-Interaction Checker Mobile Apps Can Ensure Medication Safety in Critically Ill Patients. *Jundishapur Journal of Health Sciences*, **12(2)**: 1–6.

Heldt, T. dan Loss, S.H., 2013. Drug-nutrient interactions in the intensive care unit: literature review and current recommendations. *Revista Brasileira de Terapia Intensiva*, **25**: 162–167.

Helmons, P.J., Suijkerbuijk, B.O., Nannan Panday, P.V., dan Kosterink, J.G., 2015. Drug-drug interaction checking assisted by clinical decision support: a return on investment analysis. *Journal of the American Medical Informatics Association*, **22**: 764–772.

Hirsh, J., Fuster, V., Ansell, J., dan Halperin, J.L., 2003. American Heart Association/American College of Cardiology Foundation guide to warfarin therapy1. *Journal of the American College of Cardiology*, **41**: 1633–1652.

Hoffmann, J.A., Pergjika, A., Konicek, C.E., dan Reynolds, S.L., 2021. Pharmacologic Management of Acute Agitation in Youth in the Emergency Department. *Pediatric emergency care*, **37**: 417–422.

Holbrook, A.M., Pereira, J.A., Labiris, R., McDonald, H., Douketis, J.D., Crowther, M., dkk., 2005. Systematic Overview of Warfarin and Its Drug and Food Interactions. *Archives of Internal Medicine*, **165**: 1095–1106.

UNIVERSITAS GADJAH MADA
Hubungan Tingkat Keparahan Interaksi Obat dengan Adverse Drug Reaction pada Pasien Intensive Care Unit di RS Akademik Universitas Gadjah Mada
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Universitas Gadjah Mada, 2024 | Diunduh dari http://etd.repository.ugm.ac.id/

Hughes, J.E., Waldron, C., Bennett, K.E., dan Cahir, C., 2023. Prevalence of Drug–Drug Interactions in Older Community-Dwelling Individuals: A Systematic Review and Meta-analysis. *Drugs & Aging*, **40**: 117–134.

Jain, A.B., Venkataramanan, R., Eghtesad, B., Marcos, A., Ragni, M., Shapiro, R., dkk., 2003. Effect of coadministered lopinavir and ritonavir (Kaletra) on tacrolimus blood concentration in liver transplantation patients. *Liver Transplantation: Official Publication of the American Association for the Study of Liver Diseases and the International Liver Transplantation Society*, **9**: 954–960.

Janković, S.M., Pejčić, A.V., Milosavljević, M.N., Opančina, V.D., Pešić, N.V., Nedeljković, T.T., dkk., 2018. Risk factors for potential drug-drug interactions in intensive care unit patients. *Journal of Critical Care*, **43**: 1–6.

Jiang, H., Lin, Y., Ren, W., Fang, Z., Liu, Y., Tan, X., dkk., 2022. Adverse drug reactions and correlations with drug–drug interactions: A retrospective study of reports from 2011 to 2020. *Frontiers in Pharmacology*, **13**: 923939.

Kane-Gill, S.L., Wytiaz, N.P., Thompson, L.M., Muzykovsky, K., Buckley, M.S., Cohen, H., dkk., 2013. A Real-World, Multicenter Assessment of Drugs Requiring Weight-Based Calculations in Overweight, Adult Critically Ill Patients. *The Scientific World Journal*, **2013**: 909135.

Karalliedde, L.D., Clarke, S.F.J., Gotel, U., dan Karalleidde, J., 2016. *Adverse Drug Interactions A Handbook for Prescribers*, Second. ed. CRC Press Taylor & Francis Group, Boca Raton.

Katzenmaier, S., Markert, C., Riedel, K.-D., Burhenne, J., Haefeli, W.E., dan Mikus, G., 2011. Determining the time course of CYP3A inhibition by potent reversible and irreversible CYP3A inhibitors using A limited sampling strategy. *Clinical Pharmacology and Therapeutics*, **90**: 666–673.

Khalooeifard, R., Djafarian, K., Safabakhsh, M., Rahmani, J., dan Shab-Bidar, S., 2020. Dose-Response Meta-Analysis of the Impact of Body Mass Index on Mortality in the Intensive Care Unit. *Nutrition in Clinical Practice: Official Publication of the American Society for Parenteral and Enteral Nutrition*, **35**: 1010–1020.

Khanna, A.K., Labeau, S.O., McCartney, K., Blot, S.I., dan Deschepper, M., 2022. International variation in length of stay in intensive care units and the impact of patient-to-nurse ratios. *Intensive and Critical Care Nursing*, **72**: 103265.

Kheshti, R., Aalipour, M., dan Namazi, S., 2016. A comparison of five common drug–drug interaction software programs regarding accuracy and comprehensiveness. *Journal of Research in Pharmacy Practice*, **5**: 257.

Kurniawati, F., Yasin, N., Dina, A., Atana, S., dan Hakim, S., 2021. Kajian Adverse Drug Reactions Terkait Interaksi Obat di Bangsal Rawat Inap Rumah Sakit Akademik UGM. *JURNAL MANAJEMEN DAN PELAYANAN FARMASI (Journal of Management and Pharmacy Practice)*, **10**: 297–308.

Lavan, A.H. dan Gallagher, P., 2016. Predicting risk of adverse drug reactions in older adults. *Therapeutic Advances in Drug Safety*, **7**: 11–22.

Lee, H.J., Yu, H.W., Jung, H.W., Lee, Y.A., Kim, J.H., Chung, H.R., dkk., 2017. Factors Associated with the Presence and Severity of Diabetic Ketoacidosis

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**Hubungan Tingkat Keparahan Interaksi Obat dengan Adverse Drug Reaction pada Pasien Intensive Care
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Universitas Gadjah Mada, 2024 | Diunduh dari http://etd.repository.ugm.ac.id/

at Diagnosis of Type 1 Diabetes in Korean Children and Adolescents. *Journal of Korean Medical Science*, **32**: 303–309.

Lemeshow, S., 1990. *Adequacy of Sample Size in Health Studies*. John Wiley & Sons Ltd., England.

Lew, C.C.H., Wong, G.J.Y., Tan, C.K., dan Miller, M., 2019. Performance of the Acute Physiology and Chronic Health Evaluation II (APACHE II) in the prediction of hospital mortality in a mixed ICU in Singapore. *Proceedings of Singapore Healthcare*, **28**: 147–152.

Li, S., Yu, Y., Jin, Z., Dai, Y., Lin, H., Jiao, Z., dkk., 2019. Prediction of pharmacokinetic drug-drug interactions causing atorvastatin-induced rhabdomyolysis using physiologically based pharmacokinetic modelling. *Biomedicine & Pharmacotherapy*, **119**: 109416.

Lima, E. da C., Camarinha, B.D., Ferreira Bezerra, N.C., Panisset, A.G., Belmino de Souza, R., Silva, M.T., dkk., 2020. Severe Potential Drug-Drug Interactions and the Increased Length of Stay of Children in Intensive Care Unit. *Frontiers in Pharmacology*, **11**: 555407.

Lima, R.E.F. dan De Bortoli Cassiani, S.H., 2009. Potential drug interactions in intensive care patients at a teaching hospital. *Revista Latino-Americana De Enfermagem*, **17**: 222–227.

Lo, C., Nguyen, S., Yang, C., Witt, L., Wen, A., Liao, T.V., dkk., 2020. Pharmacogenomics in Asian Subpopulations and Impacts on Commonly Prescribed Medications. *Clinical and Translational Science*, **13**: 861–870.

Ma, J.-G., Zhu, B., Jiang, L., Jiang, Q., dan Xi, X.-M., 2022. Gender- and age-based differences in outcomes of mechanically ventilated ICU patients: a Chinese multicentre retrospective study. *BMC Anesthesiology*, **22**: 18.

Masarone, D., Valente, F., Rubino, M., Vastarella, R., Gravino, R., Rea, A., dkk., 2017. Pediatric Heart Failure: A Practical Guide to Diagnosis and Management. *Pediatrics & Neonatology*, **58**: 303–312.

Melt, A. dan Tekin, Ö.F., 2022. Atorvastatin induced rhabdomyolysis: A case report **8**: 46–53.

Merdji, H., Long, M.T., Ostermann, M., Herridge, M., Myatra, S.N., De Rosa, S., dkk., 2023. Sex and gender differences in intensive care medicine. *Intensive Care Medicine*, **49**: 1155–1167.

Mito, A., Hirono, K., Ide, H., Ozawa, S., Ichida, F., dan Taguchi, M., 2022. Effects of Concomitant Administration of PXR Ligand Drugs on the Anticoagulant Effects of Warfarin. *Biological & Pharmaceutical Bulletin*, **45**: 703–708.

Molho, A., Chadwick, C., dan Lazner, M., 2022. Hyperkalaemia Management.

Moore, P. dan Burkhart, K., 2017. Adverse Drug Reactions in the Intensive Care Unit, dalam: Brent, J., Burkhart, K., Dargan, P., Hatten, B., Megarbane, B., Palmer, R., dkk. (Editor), *Critical Care Toxicology: Diagnosis and Management of the Critically Poisoned Patient*. Springer International Publishing, Cham, hal. 693–739.

Moura, C., Prado, N., dan Acurcio, F., 2011. Potential drug-drug interactions associated with prolonged stays in the intensive care unit: a retrospective cohort study. *Clinical Drug Investigation*, **31**: 309–316.

UNIVERSITAS GADJAH MADA
Hubungan Tingkat Keparahan Interaksi Obat dengan Adverse Drug Reaction pada Pasien Intensive Care Unit di RS Akademik Universitas Gadjah Mada
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Universitas Gadjah Mada, 2024 | Diunduh dari http://etd.repository.ugm.ac.id/

Nakagawa, N., 2022. 'Infective Endocarditis in Congenital Heart Disease', . URL: https://www.intechopen.com/online-first/83994 (diakses tanggal 27/8/2023).

Neme, D., Aweke, Z., Micho, H., Mola, S., Jemal, B., dan Regasa, T., 2020. Evidence-Based Guideline for Adult Sedation, Pain Assessment, and Analgesia in a Low Resource Setting Intensive Care Unit: Review Article. *International Journal of General Medicine*, **13**: 1445–1452.

Niu, J., Straubinger, R.M., dan Mager, D.E., 2019. Pharmacodynamic Drug-Drug Interactions. *Clinical pharmacology and therapeutics*, **105**: 1395–1406.

Nkansah-Amankra, K. dan Sudhanthar, S., 2019. Medication-induced obstructive uropathy and hyperprolactinemia in a pediatric patient. *Clinical Case Reports*, **7**: 1928–1931.

Nusair, M.B., Al-Azzam, S.I., Arabyat, R.M., Amawi, H.A., Alzoubi, K.H., dan Rabah, A.A., 2020. The prevalence and severity of potential drug-drug interactions among adult polypharmacy patients at outpatient clinics in Jordan. *Saudi Pharmaceutical Journal*, **28**: 155–160.

Oliveira, L.M. de, Diel, J. do A.C., Nunes, A., dan Pizzol, T. da S.D., 2021. Prevalence of drug interactions in hospitalised elderly patients: a systematic review. *European Journal of Hospital Pharmacy*, **28**: 4–9.

Otto, C.M., Nishimura, R.A., Bonow, R.O., Carabello, B.A., Erwin, J.P., Gentile, F., dkk., 2021. 2020 ACC/AHA Guideline for the Management of Patients With Valvular Heart Disease: A Report of the American College of Cardiology/American Heart Association Joint Committee on Clinical Practice Guidelines. *Circulation*, **143**: e72–e227.

Palappalil, D.S., Sushama, J., dan Kesavan, K.P., 2022. Drug Interactions as a cause of Adverse Drug Reactions in a Tertiary Care Hospital. *Biomedical and Pharmacology Journal*, **15**: 1637–1645.

Palleria, C., Paolo, A.D., Giofrè, C., Caglioti, C., Leuzzi, G., Siniscalchi, A., dkk., 2013. Pharmacokinetic drug-drug interaction and their implication in clinical management. *Journal of Research in Medical Sciences : The Official Journal of Isfahan University of Medical Sciences*, **18**: 601.

Patel, R.I. dan Beckett, R.D., 2016. Evaluation of resources for analyzing drug interactions. *Journal of the Medical Library Association : JMLA*, **104**: 290–295.

Patibandla, S., Heaton, J., dan Kyaw, H., 2023. Spironolactone, dalam: *StatPearls*. StatPearls Publishing, Treasure Island (FL).

Pendota, S., Surabhineni, S.A.K., Katnapally, A.S., Porandla, D., dan Beemreddy, S.K., 2017. Classification and applying pharmacovigilance principles to study adverse drug reaction and its management. *International Journal of Basic & Clinical Pharmacology*, **6**: 2537–2544.

Poon, M., Moffett, B.S., dan Yee, D.L., 2017. Warfarin-Rifampin Drug Interaction in a Pediatric Patient. *The journal of pediatric pharmacology and therapeutics: JPPT: the official journal of PPAG*, **22**: 375–377.

Radtke, K.K., Hesseling, A.C., Winckler, J.L., Draper, H.R., Solans, B.P., Thee, S., dkk., 2021. Moxifloxacin Pharmacokinetics, Cardiac Safety, and Dosing for the Treatment of Rifampicin-Resistant Tuberculosis in Children. *Clinical*

Hubungan Tingkat Keparahan Interaksi Obat dengan Adverse Drug Reaction pada Pasien Intensive Care
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Firda Ridhayani, Prof. Dr. apt. Ika Puspita Sari, S. Si., M.Si.; Prof. Dr. apt. Tri Murti Andayani, Sp. FRS.
Universitas Gadjah Mada, 2024 | Diunduh dari http://etd.repository.ugm.ac.id/

Infectious Diseases: An Official Publication of the Infectious Diseases Society of America, **74**: 1372–1381.

Rankin, G.O., 2007. Acetazolamide, dalam: Enna, S.J. dan Bylund, D.B. (Editor), *xPharm: The Comprehensive Pharmacology Reference*. Elsevier, New York, hal. 1–5.

Rasool, M.F., Rehman, A. ur, Khan, I., Latif, M., Ahmad, I., Shakeel, S., dkk., 2023. Assessment of risk factors associated with potential drug-drug interactions among patients suffering from chronic disorders. *PLOS ONE*, **18**: e0276277.

Ray, S., Pramanik, J., Bhattacharyya, M., dan Todi, S., 2010. Prospective observational evaluation of incidences and implications of drug-drug interactions induced adverse drug reactions in critically ill patients. *Indian Journal of Pharmaceutical Sciences*, **72**: 787–792.

Reis, A.M.M. dan Cassiani, S.H.D.B., 2011. Adverse drug events in an intensive care unit of a university hospital. *European Journal of Clinical Pharmacology*, **67**: 625–632.

Rezende de Menezes, R., Graciano Silva, M. das D., Pinho Ribeiro, A.L., Martins Pinto Filho, M., Martinho, G.H., Carvalho Ferreira, L.E., dkk., 2021. Causality assessment of adverse drug reactions by applying a global introspection method in a high complexity hospital. *Exploratory Research in Clinical and Social Pharmacy*, **3**: 100064.

Rodrigues, A.T., Cruz, A.A., Marialva, M., Granja, S., Battaglini, S.C.M., Falcão, A.L.E., dkk., 2012. Clinical pharmacist contribution to profile and manage potential drug interaction in intensive care unit. *European Journal of Hospital Pharmacy*, **19**: 226–226.

Rodrigues, A.T., Stahlschmidt, R., Granja, S., Pilger, D., Falcão, A.L.E., dan Mazzola, P.G., 2017. Prevalence of potential drug-drug interactions in the intensive care unit of a Brazilian teaching hospital. *Brazilian Journal of Pharmaceutical Sciences*, **53**: 1–8.

Rosanti, E.F., Arianto, A.B., dan Barus, L.S., 2022. Gambaran Karakteristik Pasien Kritis di Area Critical Unit **10**: 67–74.

Sadeghi, S., Wadia, S., Lluri, G., Tarabay, J., Fernando, A., Salem, M., dkk., 2019. Risk factors for infective endocarditis following transcatheter pulmonary valve replacement in patients with congenital heart disease. *Catheterization and Cardiovascular Interventions*, **94**: 625–635.

Safari, S., Rahmani, F., Soleimanpour, H., Ebrahimi Bakhtavar, H., dan Mehdizadeh Esfanjani, R., 2014. Can APACHE II Score Predict Diabetic Ketoacidosis in Hyperglycemic Patients Presenting to Emergency Department? *Anesthesiology and Pain Medicine*, **4**: e21365.

Salem, F., Rostami-Hodjegan, A., dan Johnson, T.N., 2013. Do children have the same vulnerability to metabolic drug–drug interactions as adults? A critical analysis of the literature. *Journal of Clinical Pharmacology*, **53**: 559–566.

Samuelsson, C., Sjöberg, F., Karlström, G., Nolin, T., dan Walther, S.M., 2015. Gender differences in outcome and use of resources do exist in Swedish intensive care, but to no advantage for women of premenopausal age. *Critical Care*, **19**: 129.

UNIVERSITAS GADJAH MADA
Hubungan Tingkat Keparahan Interaksi Obat dengan Adverse Drug Reaction pada Pasien Intensive Care Unit di RS Akademik Universitas Gadjah Mada
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Sandvik, P., Lydersen, S., Hegstad, S., dan Spigset, O., 2020. Association between low body weight and cytochrome P-450 enzyme activity in patients with anorexia nervosa. *Pharmacology Research & Perspectives*, **8**: e00615.

Santos, T.N.G. de A., Macieira, G.M. da C., Alves, B.M.C.S., Onozato, T., Cardoso, G.C., Nascimento, M.T.F., dkk., 2020. Prevalence of clinically manifested drug interactions in hospitalized patients: A systematic review and meta-analysis. *PLOS ONE*, **15**: e0235353.

Seynaeve, S., Verbrugghe, W., Claes, B., Vandenplas, D., Reyntiens, D., dan Jorens, P.G., 2011. Adverse Drug Events in Intensive Care Units: A Cross-Sectional Study of Prevalence and Risk Factors. *American Journal of Critical Care*, **20**: e131–e140.

Shammas, N.W., Kapalis, M.J., Deckert, J., Dippel, E.J., Labroo, A., dan McKinney, D., 2003. Effectiveness of Statin-Gemfibrozil Combination Therapy in Patients With Mixed Hyperlipidemia: Experience of a Community Lipid Clinic and Safety Review From the Literature. *Preventive Cardiology*, **6**: 189–194.

Shao, S.-C., Chan, Y.-Y., Lin, S.-J., Li, C.-Y., Kao Yang, Y.-H., Chen, Y.-H., dkk., 2020. Workload of pharmacists and the performance of pharmacy services. *PLoS ONE*, **15**: e0231482.

Shukla, A.K., Jhaj, R., Misra, S., Ahmed, S.N., Nanda, M., dan Chaudhary, D., 2021. Agreement between WHO-UMC causality scale and the Naranjo algorithm for causality assessment of adverse drug reactions. *Journal of Family Medicine and Primary Care*, **10**: 3303–3308.

Siddika, N., Anowar, M., Islam, M., dan Mallick, D., 2023. Characteristics of Adult Intensive Care Unit Patients at a University Hospital. *OALib*, **10**: 1–15.

Šíma, M., Michaličková, D., dan Slanař, O., 2021. Pharmaceutics | Free Full-Text | What Is the Best Predictor of Phenobarbital Pharmacokinetics to Use for Initial Dosing in Neonates?

Simpson, A., Puxty, K., McLoone, P., Quasim, T., Sloan, B., dan Morisson, D.S., 2020. Comorbidity and survival after admission to the intensive care unit: A population-based study of 41,230 patients **22**: 143–151.

Smeets, N.J.L., Schreuder, M.F., Dalinghaus, M., Male, C., Lagler, F.B., Walsh, J., dkk., 2020. Pharmacology of enalapril in children: a review. *Drug Discovery Today*, **25**: 1957–1970.

Smith, B.S., Yogaratnam, D., Levasseur-Franklin, K.E., Forni, A., dan Fong, J., 2012. Introduction to drug pharmacokinetics in the critically ill patient. *Chest*, **141**: 1327–1336.

Snyder, B., Polasek, T., dan Doogue, M., 2012. Drug interactions: Principles and practice. *Australian Prescriber*, **35**: 85–88.

Srisuriyachanchai, W., Cox, A.R., Kampichit, S., dan Jarernsiripornkul, N., 2023. Severity and Management of Adverse Drug Reactions Reported by Patients and Healthcare Professionals: A Cross-Sectional Survey. *International Journal of Environmental Research and Public Health*, **20**: 3725.

Strain, James J, Chiu, N.M., Sultana, K., Karim, A., Caliendo, G., Mustafa, S., dkk., 2004. Psychotropic drug versus psychotropic drug—update. *General Hospital Psychiatry*, **26**: 87–105.

Hubungan Tingkat Keparahan Interaksi Obat dengan Adverse Drug Reaction pada Pasien Intensive Care
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Universitas Gadjah Mada, 2024 | Diunduh dari http://etd.repository.ugm.ac.id/

Sun, W., Yan, Y., Hu, S., Liu, B., Wang, S., Yu, W., dkk., 2022. The effects of midazolam or propofol plus fentanyl on ICU mortality: a retrospective study based on the MIMIC-IV database. *Annals of Translational Medicine*, **10**: 219.

Sungono, V., Hariyanto, H., Soesilo, T.E.B., Adisasmita, A.C., Syarif, S., Lukito, A.A., dkk., 2021. Cohort study of the APACHE II score and mortality for different types of intensive care unit patients. *Postgraduate Medical Journal*, .

Tahmasebivand, M., Soltani, F., Kouti, L., Izadpanah, M., Tahmasebivand, M., Soltani, F., dkk., 2020. Frequency and risk factors of polypharmacy and drug interactions among patients in general intensive care unit of Golestan Hospital, Ahvaz, southwest of Iran. *AIMS Medical Science*, **7**: 69–78.

Tangiisuran, B., Gozzoli, M., Davies, J., dan Rajkumar, C., 2010. Adverse drug reactions in older people. *Reviews in Clinical Gerontology*, **20**: 246–259.

Tecen-Yucel, K., Bayraktar-Ekincioglu, A., Yildirim, T., Yilmaz, S.R., Demirkan, K., dan Erdem, Y., 2020. Assessment of Clinically Relevant Drug Interactions by Online Programs in Renal Transplant Recipients. *Journal of Managed Care & Specialty Pharmacy*, **26**: 1291–1296.

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.

Temesgen, N., Chekol, B., Tamirie, T., Eshetie, D., Simeneh, N., dan Feleke, A., 2021. Adult sedation and analgesia in a resource limited intensive care unit – A Systematic Review and evidence based guideline. *Annals of Medicine and Surgery*, **66**: 102356.

Tesema, H.G., Lema, G.F., Mesfin, N., Fentie, D.Y., dan Arefayne, N.R., 2021. Patterns of Admission and Clinical Outcomes Among Patients Admitted to Medical Intensive Care Unit of a Teaching and Referral Hospital, Northwest Ethiopia. *Global Advances in Health and Medicine*, **10**: 2164956121989258.

Tian, Y., Yao, Y., Zhou, J., Diao, X., Chen, H., Cai, K., dkk., 2022. Dynamic APACHE II Score to Predict the Outcome of Intensive Care Unit Patients. *Frontiers in Medicine*, **8**: .

Torres-Yaghi, Y., Carwin, A., Carolan, J., Nakano, S., Amjad, F., dan Pagan, F., 2021. QTc Interval Prolongation with Therapies Used to Treat Patients with Parkinson's Disease Psychosis: A Narrative Review. *Neuropsychiatric Disease and Treatment*, **17**: 3791–3818.

Tsai, Y.-H., Lin, J.-Y., Huang, Y.-Y., dan Wong, J.-M., 2018. Cushing response-based warning system for intensive care of brain-injured patients. *Clinical Neurophysiology: Official Journal of the International Federation of Clinical Neurophysiology*, **129**: 2602–2612.

Tsui, V.W.L., Thomas, D., Tian, S., dan Vaida, A.J., 2019. Chapter 16 - Adverse Drug Events, Medication Errors, and Drug Interactions, dalam: Thomas, D. (Editor), *Clinical Pharmacy Education, Practice and Research*. Elsevier, hal. 227–245.

UNIVERSITAS
GADJAH MADA
Hubungan Tingkat Keparahan Interaksi Obat dengan Adverse Drug Reaction pada Pasien Intensive Care Unit di RS Akademik Universitas Gadjah Mada
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Uijtendaal, E., Harssel, L., Hugenholtz, G., Kuck, E., Rijkom, J., Cremer, O., dkk., 2014. Analysis of Potential Drug-Drug Interactions in Medical Intensive Care Unit Patients. *Pharmacotherapy*, **34**: 213–219.

Vallet, H., Guidet, B., Boumendil, A., De Lange, D.W., Leaver, S., Szczeklik, W., dkk., 2023. The impact of age-related syndromes on ICU process and outcomes in very old patients. *Annals of Intensive Care*, **13**: 68.

Van De Sijpe, G., Quintens, C., Walgraeve, K., Van Laer, E., Penny, J., De Vlieger, G., dkk., 2022. Overall performance of a drug–drug interaction clinical decision support system: quantitative evaluation and end-user survey. *BMC Medical Informatics and Decision Making*, **22**: 48.

van den Broek, M.P.H., van Straaten, H.L.M., Huitema, A.D.R., Egberts, T., Toet, M.C., de Vries, L.S., dkk., 2015. Anticonvulsant effectiveness and hemodynamic safety of midazolam in full-term infants treated with hypothermia. *Neonatology*, **107**: 150–156.

van Tongeren, J.M.Z., Harkes-Idzinga, S.F., van der Sijs, H., Atiqi, R., van den Bemt, B.J.F., Draijer, L.W., dkk., 2020. The Development of Practice Recommendations for Drug-Disease Interactions by Literature Review and Expert Opinion. *Frontiers in Pharmacology*, **11**: 707.

VanLandingham, K.E., Crockett, J., Taylor, L., dan Morrison, G., 2020. A Phase 2, Double-Blind, Placebo-Controlled Trial to Investigate Potential Drug-Drug Interactions Between Cannabidiol and Clobazam. *Journal of Clinical Pharmacology*, **60**: 1304–1313.

Vardanjani, H.M., Haghdoost, A.A., Shahravan, A., dan Rad, M., 2016. Cleansing and preparation of data for statistical analysis: A step necessary in oral health sciences research **5**: 171–185.

Vicent, L., Luna, R., dan Martínez-Sellés, M., 2022. Pediatric Infective Endocarditis: A Literature Review. *Journal of Clinical Medicine*, **11**: 3217.

Villa-Zapata, L., Carhart, B.S., Horn, J.R., Hansten, P.D., Subbian, V., Gephart, S., dkk., 2021. Serum potassium changes due to concomitant ACEI/ARB and spironolactone therapy: A systematic review and meta-analysis. *American journal of health-system pharmacy: AJHP: official journal of the American Society of Health-System Pharmacists*, **78**: 2245–2255.

Vincent, J.-L., Rello, J., Marshall, J., Silva, E., Anzueto, A., Martin, C.D., dkk., 2009. International Study of the Prevalence and Outcomes of Infection in Intensive Care Units. *JAMA*, **302**: 2323–2329.

Webster, L.R. dan Karan, S., 2020. The Physiology and Maintenance of Respiration: A Narrative Review. *Pain and Therapy*, **9**: 467–486.

Weir, C.B. dan Jan, A., 2024. BMI Classification Percentile And Cut Off Points, dalam: *StatPearls*. StatPearls Publishing, Treasure Island (FL).

Wheless, J.W., Dlugos, D., Miller, I., Oh, D.A., Parikh, N., Phillips, S., dkk., 2019. Pharmacokinetics and Tolerability of Multiple Doses of Pharmaceutical-Grade Synthetic Cannabidiol in Pediatric Patients with Treatment-Resistant Epilepsy. *CNS drugs*, **33**: 593–604.

Wiggins, B.S., Saseen, J.J., Page, R.L., Reed, B.N., Sneed, K., Kostis, J.B., dkk., 2016. Recommendations for Management of Clinically Significant Drug-Drug Interactions With Statins and Select Agents Used in Patients With

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GADJAH MADA
**Hubungan Tingkat Keparahan Interaksi Obat dengan Adverse Drug Reaction pada Pasien Intensive Care
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Universitas Gadjah Mada, 2024 | Diunduh dari http://etd.repository.ugm.ac.id/

Cardiovascular Disease: A Scientific Statement From the American Heart Association. *Circulation*, **134**: e468–e495.

World Health Organization, 2019. 'Patient Safety', . URL: https://www.who.int/news-room/fact-sheets/detail/patient-safety (diakses tanggal 23/1/2023).

Xiong, G., Yang, Z., Yi, J., Wang, N., Wang, L., Zhu, H., dkk., 2022. DDInter: an online drug–drug interaction database towards improving clinical decision-making and patient safety. *Nucleic Acids Research*, **50**: D1200–D1207.

Yadesa, T.M., Kitutu, F.E., Deyno, S., Ogwang, P.E., Tamukong, R., dan Alele, P.E., 2021. Prevalence, characteristics and predicting risk factors of adverse drug reactions among hospitalized older adults: A systematic review and meta-analysis. *SAGE Open Medicine*, **9**: 20503121211039099.

Yıldız, A., Yiğt, A., dan Benli, A.R., 2019. The prognostic role of Charlson comorbidity index for critically ill elderly patients. *The European Research Journal*, **6**: .

Young, C., Papiro, T., dan Greenberg, J.H., 2023. Elevated tacrolimus levels after treatment with nirmatrelvir/ritonavir (Paxlovid) for COVID-19 infection in a child with a kidney transplant. *Pediatric Nephrology (Berlin, Germany)*, **38**: 1387–1388.

Zaarur, L., Patel, A., dan Pasternak, B., 2023. Drug Interaction Between Tacrolimus and Paxlovid (Nirmatrelvir/Ritonavir) in an Adolescent with Inflammatory Bowel Disease. *JPGN Reports*, **4**: e352.

Zettersten, E., Jäderling, G., Larsson, E., dan Bell, M., 2019. The impact of patient sex on intensive care unit admission: a blinded randomized survey. *Scientific Reports*, **9**: 14222.

Zhan, Y., Li, F., Wu, L., Li, J., Zhu, C., Han, M., dkk., 2023. Role of Charlson comorbidity index in predicting the ICU admission in patients with thoracic aortic aneurysm undergoing surgery. *Journal of Orthopaedic Surgery and Research*, **18**: 870.