

## DAFTAR PUSTAKA

- Ali, S., Nedvědová, Š., Badshah, G., Afridi, M. S., Abdullah, Dutra, L. M., Ali, U., Faria, S. G.,
- Soares, F. L. F., Rahman, R. U., Cançado, F. A. C. Q., Aoyanagi, M. M. C. C., Freire, L.G. D., Santos, A. D. C., Barison, A., & Oliveira, C. A. F. (2022). NMR spectroscopy spotlighting immunogenicity induced by COVID-19 vaccination to mitigate future health concerns. *Current Research in Immunology*, 3, 199–214. <https://doi.org/https://doi.org/10.1016/j.crimmu.2022.08.006>
- Ashby, D., Borman, N., Burton, J., Corbett, R., Davenport, A., Farrington, K., Flowers, K., Fotheringham, J., Andrea Fox, R. N., Franklin, G., Gardiner, C., Martin Gerrish, R. N., Greenwood, S., Hothi, D., Khares, A., Koufaki, P., Levy, J., Lindley, E., Macdonald, J., Wilkie, M. (2019). Renal Association Clinical Practice Guideline on Haemodialysis.
- Ben-Porat, T., Weiss-Sadan, A., Rottenstreich, A., Sherf-Dagan, S., Schweiger, C., Yosef-Levi, I. M., Weiner, D., Azulay, O., Sakran, N., Harari, R., & Elazary, R. (2019). Nutritional Management for Chronic Kidney Disease Patients who Undergo Bariatric Surgery: A Narrative Review. *Advances in Nutrition (Bethesda, Md.)*, 10(1), 122–132. <https://doi.org/10.1093/advances/nmy112>
- Besang, D. G., Budhitresna, A. A., & Suryandhita, P. A. (2023). Hubungan Lama Menjalani Hemodialisis dengan Status Gizi Pasien Gagal Ginjal Kronis yang Menjalani Hemodialisis Reguler di RSUD Sanjiwani Gianyar. *Aesculapis Medical Journal*, 3(1), 81-85.
- Bibiloni, M. D. M., Gallardo-Alfaro, L., Gómez, S. F., Wärnberg, J., Osés-Recalde, M., González- Gross, M., Gusi, N., Aznar, S., Marín-Cascales, E., González-Valeiro, M., Serra-Majem, L., Terrados, N., Segu, M., Lassale, C., Homs, C., Benavente-Marín, J. C., Labayen, I., Zapico, A. G., Sánchez-Gómez, J., ... Tur, J. A. (2022). Combined Body Mass Index and Waist-to-Height Ratio and Its Association with Lifestyle and Health Factors among Spanish Children: The PASOS Study. *Nutrients*, 14(2). <https://doi.org/10.3390/nu14020234>
- Bolasco, P. (2020). Hemodialysis—Nutritional Flaws in Diagnosis and Prescriptions. Could Amino Acid Losses Be the Sharpest “Sword of Damocles”? In *Nutrients* (Vol. 12, Issue 6). <https://doi.org/10.3390/nu12061773>
- Bradley, M., Melchor, J., Carr, R., & Karjoo, S. (2023). Obesity and malnutrition in children and adults: A clinical review. *Obesity Pillars*, 8, 100087. <https://doi.org/https://doi.org/10.1016/j.obpill.2023.100087>
- Bramania, P., Ruggajo, P., Bramania, R., Mahmoud, M., & Furia, F. (2021). Nutritional Status of Patients on Maintenance Hemodialysis at Muhimbili National Hospital in Dar es Salaam, Tanzania: A Cross-Sectional Study. *Journal of Nutrition and Metabolism*, 2021, 6672185. <https://doi.org/10.1155/2021/6672185>
- Carrero, J. J., Severs, D., Aguilera, D., Fiaccadori, E., Gonzalez, M. G., Haufe, C. C.,

- Teta, D., Molina, P., & Visser, W. (2023). Intradialytic parenteral nutrition for patients on hemodialysis: when, how and to whom? *Clinical Kidney Journal*, 16(1), 5–18. <https://doi.org/10.1093/ckj/sfac171>
- Chan, K., Moe, S. M., Saran, R., & Libby, P. (2021). The cardiovascular-dialysis nexus: the transition to dialysis is a treacherous time for the heart. *European Heart Journal*, 42(13), 1244–1253. <https://doi.org/10.1093/eurheartj/ehaa1049>
- Chen, Q., Kou, M., He, Y., Zhao, Y., & Chen, L. (2022). Constructing hierarchical surface structure of hemodialysis membranes to intervene in oxidative stress through Michael addition reaction between tannic acid and PEtOx brushes. *Journal of Membrane Science*, 657, 120700. <https://doi.org/https://doi.org/10.1016/j.memsci.2022.120700>
- Chen, T. K., Knicely, D. H., & Grams, M. E. (2019). Chronic Kidney Disease Diagnosis and Management: A Review. *JAMA*, 322(13), 1294–1304. <https://doi.org/10.1001/jama.2019.14745>
- Chen, Y.-K., Chu, C.-S., Niu, S.-W., Lin, H. Y.-H., Yu, P.-H., Shen, F.-C., Chao, Y.-L., Kuo, I.-C., Hung, C.-C., & Chang, J.-M. (2023). The prognostic value of URR equals that of Kt/V for all-cause mortality in Taiwan after 10-year follow-up. *Scientific Reports*, 13(1), 8923. <https://doi.org/10.1038/s41598-023-35353-8>
- Churchill, B. M., & Patri, P. (2021). The Nitty-Gritties of Kt/V(urea) Calculations in Hemodialysis and Peritoneal Dialysis. *Indian Journal of Nephrology*, 31(2), 97–110. [https://doi.org/10.4103/ijn.IJN\\_245\\_19](https://doi.org/10.4103/ijn.IJN_245_19)
- Cupisti, A., Bolasco, P., D'Alessandro, C., Giannese, D., Sabatino, A., & Fiaccadori, E. (2021). Protection of Residual Renal Function and Nutritional Treatment: First Step Strategy for Reduction of Uremic Toxins in End-Stage Kidney Disease Patients. *Toxins*, 13(4). <https://doi.org/10.3390/toxins13040289>
- Cupisti, A., Gallieni, M., Rizzo, M. A., Caria, S., Meola, M., & Bolasco, P. (2013). Phosphate control in dialysis. *International Journal of Nephrology and Renovascular Disease*, 6, 193–205. <https://doi.org/10.2147/IJNRD.S35632>
- de Souto Barreto, P., Cesari, M., Morley, J. E., Gonzalez-Bautista, E., Rolland, Y., Azzolino, D., Vellas, B., Fielding, R. A., Andrieu, S., Leheudre, M. A., Barcons, N., Beliën, A., Delannoy, C., John, G., Robledo, L. M. G., Hwee, D., LeBrasseur, N., Mariani, J., Reshma, M., ... Whitson, H. (2023). Assessment and Management of Appetite Loss in Older Adults: An ICFSR Task Force Report. *The Journal of Frailty & Aging*, 12(1), 1–6. <https://doi.org/10.14283/jfa.2022.64>
- Dicu-Andreescu, I., Penescu, M. N., Căpușă, C., & Verzan, C. (2022). Chronic Kidney Disease, Urinary Tract Infections and Antibiotic Nephrotoxicity: Are There Any Relationships? *Medicina (Kaunas, Lithuania)*, 59(1).
- Dian, Atmadja, T. F.-G., & Kosnayani, A. S. (2023). Hubungan Lama Hemodialisis

dengan Nafsu Makan dan Status Gizi pada Pasien Penyakit Ginjal Kronis. *Jurnal SAGO Gizi dan Kesehatan*, 5(1), 37- 43

El-Sheikh, M., & El-Ghazaly, G. (2016). Assessment of hemodialysis adequacy in patients with chronic kidney disease in the hemodialysis unit at Tanta University Hospital in Egypt. *Indian Journal of Nephrology*, 26(6), 398–404. <https://doi.org/10.4103/0971-4065.168141>

Fielding, R. A., Landi, F., Smoyer, K. E., Tarasenko, L., & Groarke, J. (2023). Association of anorexia/appetite loss with malnutrition and mortality in older populations: A systematic literature review. *Journal of Cachexia, Sarcopenia and Muscle*, 14(2), 706–729. <https://doi.org/10.1002/jcsm.13186>

Firdaus, A. (2023). Kemenkes: 12 provinsi RI tempati angka tertinggi kasus ginjal kronis. AnataraNews.<https://www.antaranews.com/berita/3429303/kemenkes-12-provinsi-ri-tempati-angka-tertinggi-kasus-ginjal-kronis>

Ghelichi-Ghojogh, M., Fararouei, M., Seif, M., & Pakfetrat, M. (2022). Chronic kidney disease and its health-related factors: a case-control study. *BMC Nephrology*, 23(1), 24. <https://doi.org/10.1186/s12882-021-02655-w>

Guo, A., Bryngelsson, S., Strid, A., Bianchi, M., Winkvist, A., & Hallström, E. (2022). Choice of health metrics for combined health and environmental assessment of foods and diets: A systematic review of methods. *Journal of Cleaner Production*, 365, 132622. <https://doi.org/https://doi.org/10.1016/j.jclepro.2022.132622>

Hammond, L., Morello, O., Kucab, M., Totosy de Zepetnek, J. O., Lee, J. J., Doheny, T., & Bellissimo, N. (2022). Predictive Validity of Image-Based Motivation-to-Eat Visual Analogue Scales in Normal Weight Children and Adolescents Aged 9–14 Years. In *Nutrients* (Vol. 14, Issue 3). <https://doi.org/10.3390/nu14030636>

Hidayangsih, P. S., Tjandrarini, D. H., Sukoco, N. E. W., Sitorus, N., Dharmayanti, I., & Ahmadi,F. (2023). Chronic kidney disease in Indonesia: evidence from a national health survey. *Osong Public Health and Research Perspectives*, 14(1), 23–30. <https://doi.org/10.24171/j.phrp.2022.0290>

Hoshino, J. (2021). Renal Rehabilitation: Exercise Intervention and Nutritional Support in Dialysis Patients. *Nutrients*, 13(5). <https://doi.org/10.3390/nu13051444>

Hou, X.-Z., Liu, E.-Q., Liu, S.-Q., Lv, H., Cui, H.-F., & Han, J. (2023). The negative association between serum albumin levels and coronary heart disease risk in adults over 45 years old: a cross-sectional survey. *Scientific Reports*, 13(1), 672. <https://doi.org/10.1038/s41598-023-27974-w>

Hustrini, N. M., Susalit, E., & Rotmans, J. I. (2022). Prevalence and risk factors for chronic kidney disease in Indonesia: An analysis of the National Basic Health Survey 2018. *Journal of Global Health*, 12, 4074. <https://doi.org/10.7189/jogh.12.04074>

Iorember, F. M. (2018). Malnutrition in Chronic Kidney Disease. *Frontiers in Pediatrics*, 6, 161. <https://doi.org/10.3389/fped.2018.00161>

- Kalantar-Zadeh, K., Forfang, D., Bakris, G., Martin, K. J., Moe, S. M., & Sprague, S. M. (2023). Managing Phosphate Burden in Patients Receiving Dialysis: Beyond Phosphate Binders and Diet. *Kidney360*, 4(11), 1650–1656. <https://doi.org/10.34067/KID.0000000000000262>
- Kiani, A. K., Dhuli, K., Donato, K., Aquilanti, B., Velluti, V., Matera, G., Iaconelli, A., Connally, S. T., Bellinato, F., Gisondi, P., & Bertelli, M. (2022). Main nutritional deficiencies. *Journal of Preventive Medicine and Hygiene*, 63(2 Suppl 3), E93–E101. <https://doi.org/10.15167/2421-4248/jpmh2022.63.2S3.2752>
- Kovesdy, C. P. (2022). Epidemiology of chronic kidney disease: an update 2022. *Kidney International Supplements*, 12(1), 7–11. <https://doi.org/10.1016/j.kisu.2021.11.003>
- Lambie, M., & Davies, S. (2023). An update on absolute and relative indications for dialysis treatment modalities. *Clinical Kidney Journal*, 16
- Lau, S., Pek, K., Chew, J., Lim, J. P., Ismail, N. H., Ding, Y. Y., Cesari, M., & Lim, W. S. (2020). The Simplified Nutritional Appetite Questionnaire (SNAQ) as a Screening Tool for Risk of Malnutrition: Optimal Cutoff, Factor Structure, and Validation in Healthy Community- Dwelling Older Adults. *Nutrients*, 12(9). <https://doi.org/10.3390/nu12092885>
- Lee, B. J., & Yim, M. H. (2021). Comparison of anthropometric and body composition indices in the identification of metabolic risk factors. *Scientific Reports*, 11(1), 9931. <https://doi.org/10.1038/s41598-021-89422-x>
- Liang, K. V., Zhang, J. H., & Palevsky, P. M. (2019). Urea reduction ratio may be a simpler approach for measurement of adequacy of intermittent hemodialysis in acute kidney injury. *BMCNephrology*, 20(1), 82. <https://doi.org/10.1186/s12882-019-1272-7>
- Lim, Y. J., Sidor, N. A., Tonial, N. C., Che, A., & Urquhart, B. L. (2021). Uremic Toxins in the Progression of Chronic Kidney Disease and Cardiovascular Disease: Mechanisms and Therapeutic Targets. *Toxins*, 13(2). <https://doi.org/10.3390/toxins13020142>
- Losappio, V., Franzin, R., Infante, B., Godeas, G., Gesualdo, L., Fersini, A., Castellano, G., & Stallone, G. (2020). Molecular Mechanisms of Premature Aging in Hemodialysis: The Complex Interplay Between Innate and Adaptive Immune Dysfunction. *International Journal of Molecular Sciences*, 21(10). <https://doi.org/10.3390/ijms21103422>
- Mamonto, B. F. N. (2023). *Faktor-Faktor Yang Berhubungan Dengan Kejadian Kecemasan Pada Pasien Hemodialisis Di RS PTN UNHAS* [Universitas Hasanuddin]. <http://repository.unhas.ac.id/id/eprint/27842/>
- Mikami, Y., Watanabe, Y., Edahiro, A., Motokawa, K., Shirobe, M., Yasuda, J., Murakami, M., Murakami, K., Taniguchi, Y., Furuya, J., & Hirano, H. (2019). Relationship between mortality and Council of Nutrition Appetite Questionnaire

- scores in Japanese nursing homes residents. *Nutrition*, 57, 40–45. <https://doi.org/https://doi.org/10.1016/j.nut.2018.05.030>
- Mollahosseini, A., & Abdelrasoul, A. (2022). Novel insights in hemodialysis: Most recent theories on membrane hemocompatibility improvement. *Biomedical Engineering Advances*, 3, 100034. <https://doi.org/https://doi.org/10.1016/j.bea.2022.100034>
- Müller, O., & Krawinkel, M. (2005). Malnutrition and health in developing countries. *CMAJ : Canadian Medical Association Journal = Journal de l'Association Medicale Canadienne*, 173(3), 279–286. <https://doi.org/10.1503/cmaj.050342>
- Murton, M., Goff-Leggett, D., Bobrowska, A., Garcia Sanchez, J. J., James, G., Wittbrodt, E., Nolan, S., Sörstadius, E., Pocoits-Filho, R., & Tuttle, K. (2021). Burden of Chronic Kidney Disease by KDIGO Categories of Glomerular Filtration Rate and Albuminuria: A Systematic Review. *Advances in Therapy*, 38(1), 180–200. <https://doi.org/10.1007/s12325-020-01568-8>
- Nigatie, Y. (2017). Diffusion in Tube Dialyzer. *Biomedical Engineering and Computational Biology*, 8, 1179597217732006. <https://doi.org/10.1177/1179597217732006>
- Nur, E. I., Suradi, & Probandari, A. N. (2017). Hubungan Lama Hemodialisis dengan Status Gizi Pasien Gagal Ginjal Kronik dengan Terapi Hemodialisis. *Jurnal Ilmiah Ilmu Kesehatan*, 5(1), 604–608.
- Nuttall, F. Q. (2015). Body Mass Index: Obesity, BMI, and Health: A Critical Review. *Nutrition Today*, 50(3), 117–128. <https://doi.org/10.1097/NT.0000000000000092>
- Pérez-Torres, A., González García, M. E., Ossorio-González, M., Álvarez García, L., Bajo, M. A., Del Peso, G., Castillo Plaza, A., & Selgas, R. (2021). The Effect of Nutritional Interventions on Long-Term Patient Survival in Advanced Chronic Kidney Disease. *Nutrients*, 13(2). <https://doi.org/10.3390/nu13020621>
- Podkowińska, A., & Formanowicz, D. (2020). Chronic Kidney Disease as Oxidative Stress- and Inflammatory-Mediated Cardiovascular Disease. In *Antioxidants* (Vol. 9, Issue 8). <https://doi.org/10.3390/antiox9080752>
- Putri, E., Alini, & Indrawati. (2020). HUBUNGAN DUKUNGAN KELUARGA DAN KEBUTUHAN SPIRITUAL DENGAN TINGKAT KECEMASAN PASIEN GAGAL GINJAL KRONIK DALAM MENJALANI TERAPI HEMODIALISIS DI RSUD BANGKINANG. *Jurnal Ners*, 4(2), 47–55. <https://doi.org/10.31004/jn.v4i2.1113>
- Raharjo, Y., Zainol Abidin, M. N., Ismail, A. F., Fahmi, M. Z., Saiful, Elma, M., Santoso, D., Haula', H., & Habibi, A. R. (2022). Dialysis Membranes for Acute Kidney Injury. In *Membranes* (Vol. 12, Issue 3). <https://doi.org/10.3390/membranes12030325>
- Reber, E., Gomes, F., Vasiloglou, M. F., Schuetz, P., & Stanga, Z. (2019). Nutritional Risk Screening and Assessment. *Journal of Clinical Medicine*, 8(7). <https://doi.org/10.3390/jcm8071065>
- Rezaiee, O., Shahgholian, N., & Shahidi, S. (2016). Assessment of hemodialysis

adequacy and its relationship with individual and personal factors. *Iranian Journal of Nursing and Midwifery Research*, 21(6), 577–582. <https://doi.org/10.4103/1735-9066.197673>

Sahathevan, S., Khor, B.-H., Ng, H.-M., Gafor, A. H. A., Mat Daud, Z. A., Mafra, D., & Karupaiah, T. (2020). Understanding Development of Malnutrition in Hemodialysis Patients: ANarrative Review. *Nutrients*, 12(10). <https://doi.org/10.3390/nu12103147>

Sarnowski, A., Gama, R. M., Dawson, A., Mason, H., & Banerjee, D. (2022). Hyperkalemia in Chronic Kidney Disease: Links, Risks and Management. *International Journal of Nephrology and Renovascular Disease*, 15,215–228. <https://doi.org/10.2147/IJNRD.S326464>

Satti, Y. C., Mistika, S. R., & Imelda, L. (2021). Faktor-Faktor yang Mempengaruhi Status Gizi Pasien Hemodialisis di Rumah Sakit Stella Maris Makassar. *Jurnal Keperawatan Florence Nightingale*, 4(1), 1-8

Serón-Arbeloa, C., Labarta-Monzón, L., Puzo-Foncillas, J., Mallor-Bonet, T., Lafita-López, A., Bueno-Vidales, N., & Montoro-Huguet, M. (2022). Malnutrition Screening and Assessment. *Nutrients*, 14(12). <https://doi.org/10.3390/nu14122392>

Sharma, S. (2008). *Carbon emissions: Missing the mountain for the snow*. IndiaTogether. <https://www.indiatogether.org/napcc-environment>

Somji, S. S., Ruggajo, P., & Moledina, S. (2020). Adequacy of Hemodialysis and Its Associated Factors among Patients Undergoing Chronic Hemodialysis in Dar es Salaam, Tanzania. *International Journal of Nephrology*, 2020, e9863065. <https://doi.org/10.1155/2020/9863065>

Stiapis, C. S., Skouras, E. D., & Burganos, V. N. (2020). Prediction of toxin removal efficiency of novel hemodialysis multilayered mixed-matrix membranes. *Separation and Purification Technology*, 250, 117272. <https://doi.org/https://doi.org/10.1016/j.seppur.2020.117272>

Suriyong, P., Ruengorn, C., Shayakul, C., Anantachoti, P., & Kanjanarat, P. (2022). Prevalence of chronic kidney disease stages 3–5 in low-and middle-income countries in Asia: A systematic review and meta-analysis. *Plos One*, 17(2), e0264393. <https://doi.org/https://doi.org/10.1371/journal.pone.0264393>

Takele, Y., Adem, E., Getahun, M., Tajebe, F., Kiflie, A., Hailu, A., Raynes, J., Mengesha, B., Ayele, T. A., Shkedy, Z., Lemma, M., Diro, E., Toulza, F., Modolell, M., Munder, M., Müller, I., & Kropf, P. (2016). Malnutrition in Healthy Individuals Results in Increased Mixed Cytokine Profiles, Altered Neutrophil Subsets and Function. *PloS One*, 11(8), e0157919. <https://doi.org/10.1371/journal.pone.0157919>

Tardy, A.-L., Pouteau, E., Marquez, D., Yilmaz, C., & Scholey, A. (2020). Vitamins and Minerals for Energy, Fatigue and Cognition: A Narrative Review of the

- Biochemical and Clinical Evidence. *Nutrients*, 12(1).  
<https://doi.org/10.3390/nu12010228>
- Téllez Arévalo, A. M., Quaye, A., Rojas-Rodríguez, L. C., Poole, B. D., Baracaldo-Santamaría, D., & Tellez Freitas, C. M. (2022). Synthetic Pharmacotherapy for Systemic Lupus Erythematosus: Potential Mechanisms of Action, Efficacy, and Safety. *Medicina (Kaunas, Lithuania)*, 59(1).  
<https://doi.org/10.3390/medicina59010056>
- Tourountzis, T., Lioulios, G., Fylaktou, A., Moysidou, E., Papagianni, A., & Stangou, M. (2022). Microbiome in Chronic Kidney Disease. *Life (Basel, Switzerland)*, 12(10).  
<https://doi.org/10.3390/life12101513>
- Uzal, F. A., Plattner, B. L., & Hostetter, J. M. (2016). Alimentary System. In *Jubb, Kennedy & Palmer's Pathology of Domestic Animals: Volume 2* (pp. 1-257.e2).  
<https://doi.org/10.1016/B978-0-7020-5318-4.00007-3>
- Vadakedath, S., & Kandi, V. (2017). Dialysis: A Review of the Mechanisms Underlying Complications in the Management of Chronic Renal Failure. *Cureus*, 9(8), e1603.  
<https://doi.org/10.7759/cureus.1603>
- Vogel, H. G. (2008). Cardiovascular Activity. In *Drug Discovery and Evaluation: Pharmacological Assays*(pp. 47–391). [https://doi.org/10.1007/978-3-540-70995-4\\_2](https://doi.org/10.1007/978-3-540-70995-4_2)
- Voinova, M., Repin, N., Sokol, E., Tkachuk, B., & Gorelik, L. (2019). Physical Processes in Polymeric Filters Used for Dialysis. *Polymers*, 11(3).  
<https://doi.org/10.3390/polym11030389>
- Wang, L., Wang, Y., Wu, L., & Wei, G. (2020). Fabrication, Properties, Performances, and Separation Application of Polymeric Pervaporation Membranes: A Review. In *Polymers* (Vol. 12, Issue 7). <https://doi.org/10.3390/polym12071466>
- Webster, A. C., Nagler, E. V., Morton, R. L., & Masson, P. (2017). Chronic Kidney Disease. *Lancet (London, England)*, 389(10075), 1238–1252.[https://doi.org/10.1016/S0140-6736\(16\)32064-5](https://doi.org/10.1016/S0140-6736(16)32064-5)
- Weigl, K., & Forstner, T. (2021). Design of Paper-Based Visual Analogue Scale Items. *Educational and Psychological Measurement*, 81(3), 595–611.  
<https://doi.org/10.1177/0013164420952118>
- Yang, Z., Yan, L., Zhang, W., Qi, J., An, W., & Yao, K. (2024). Dyschromatopsia: a comprehensive analysis of mechanisms and cutting-edge treatments for color vision deficiency. *Frontiers in Neuroscience*, 18.  
<https://www.frontiersin.org/journals/neuroscience/articles/10.3389/fnins.2024.1265630>
- Zhu, Y., & Zheng, X. (2021). Application of a Computerized Decision Support System to Develop Care Strategies for Elderly Hemodialysis Patients. *Journal of Healthcare Engineering*, 2021, 5060484. <https://doi.org/10.1155/2021/5060484>

## LAMPIRAN

### Lampiran 1

<p>KEMENTERIAN PENDIDIKAN, KEBUDAYAAN, RISET DAN TEKNOLOGI UNIVERSITAS HASANUDDIN FAKULTAS KEDOKTERAN KOMITE ETIK PENELITIAN UNIVERSITAS HASANUDDIN RSPTN UNIVERSITAS HASANUDDIN RSUP Dr. WAHIDIN SIDIROHUSODO MAKASSAR Sekretariat : Lantai 2 Gedung Laboratorium Terpadu JL PERINTIS KEMERDEKAAN KAMPUS TAMALANREA KM.10 MAKASSAR 90245. Contact Person: dr. Agusalim Bukhari, M.Med.Phd, Sp.GK. TELP. 081241850858, 0411 5780103. Fax : 0411-581431</p>			
<p><b>REKOMENDASI PERSETUJUAN ETIK</b> Nomor : 925/UN4.6.4.5.31/ PP36/ 2024</p>			
Tanggal: 28 Oktober 2024			
Dengan ini Menyatakan bahwa Protokol dan Dokumen yang Berhubungan Dengan Protokol berikut ini telah mendapatkan Persetujuan Etik :			
No Protokol	UH24100869	No Sponsor	
Peneliti Utama	Citra Ayu Lestari	Sponsor	
Judul Peneliti	Profil Gizi pada Pasien Penyakit Ginjal Kronik yang Menjalani Hemodialisa di RS PTN Universitas Hasanuddin		
No Versi Protokol	1	Tanggal Versi	28 Oktober 2024
No Versi PSP	1	Tanggal Versi	28 Oktober 2024
Tempat Penelitian	RS Universitas Hasanuddin		
Jenis Review	<input checked="" type="checkbox"/> Exempted <input type="checkbox"/> Expedited <input type="checkbox"/> Fullboard Tanggal	Masa Berlaku 28 Oktober 2024 sampai 28 Oktober 2025	Frekuensi review lanjutan
Ketua KEP Universitas Hasanuddin	Prof. dr. Muh Nasrum Massi, PhD, SpMK, Subsp. Bakt(X)	Tanda tangan	
Sekretaris KEP Universitas Hasanuddin	dr. Firdaus Hamid, PhD, SpMK(K)	Tanda tangan	

Kewajiban Peneliti Utama:

- Menyerahkan Amandemen Protokol untuk persetujuan sebelum di implementasikan
- Menyerahkan Laporan SAE ke Komisi Etik dalam 24 jam dan dilengkapi dalam 7 hari dan Lapor SUSAR dalam 72 jam setelah Peneliti Utama menerima laporan
- Menyerahkan Laporan Kemajuan (progress report) setiap 6 bulan untuk penelitian resiko tinggi dan setiap setahun untuk penelitian resiko rendah
- Menyerahkan laporan akhir setelah Penelitian berakhir
- Melaporkan penyimpangan dari protokol yang disetujui (protocol deviation / violation)
- Mematuhi semua peraturan yang ditentukan

**CS Dipindai dengan CamScanner**

*Rekomendasi Persetujuan Etik*

## Lampiran 2

### Permohonan Izin Penelitian Kepada Direktur RS Universitas Hasanuddin



KEMENTERIAN PENDIDIKAN KEBUDAYAAN,  
RISET DAN TEKNOLOGI  
UNIVERSITAS HASANUDDIN  
FAKULTAS KEDOKTERAN  
JL. PERINTIS KEMERDEKAAN KM. 10, MAKASSAR 90245  
TELEPON (0411) 586200, (6 SALURAN), 584200, FAX (0411) 585188  
Laman: www.unhas.ac.id

Nomor : 25717/U/UN4.6/R/PT.01/04/2024 22 Oktober 2024  
Hal : Permohonan Izin Penelitian An. Citra Ayu Lestari

Yth. Direktur RSPTN Universitas Hasanuddin

Dengan hormat, disampaikan bahwa mahasiswa Program Studi Sarjana Kedokteran Fakultas Kedokteran Universitas Hasanuddin di bawah ini :

Nama : Citra Ayu Lestari  
Nim : C011211026

bermaksud melakukan penelitian di RSPTN Universitas Hasanuddin dengan judul penelitian "Profil Gizi pada Pasien Penyakit Ginjal Kronik yang Menjalani Hemodialisa di RSPTN Universitas Hasanuddin".

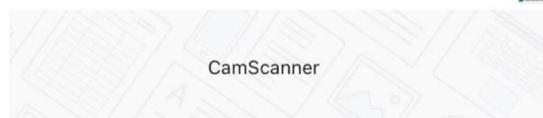
Sebutungan hal tersebut kiranya yang bersangkutan dapat diberi izin untuk melakukan Penelitian dalam rangka penyelesaian studinya.

Demikian permohonan kami, atas bantuan dan kerjasamanya disampaikan terima kasih.

Ketua Program Studi S1  
Pendidikan Dokter  
Fakultas Kedokteran



dr. Ririn Nislawati, M.Kes.,Sp.M  
NIP 198101182009122003



Lampiran 3  
Formulir *Subjective Global Assesment (SGA)*

Kriteria inklusi : OSB masuk RS <48jam ,komunikatif, bahasa indonesia , ada pendamping,tidak pre/post partum, compos mentis ,tidak luka bakar bagian dada dan lengan atas	
Isilah titik-titik (.....) dan beri tanda V pada ( ), atau O pada A,B,C atau D untuk jawaban yang dipilih	
Ruang rawat : Nama OS : Umur : Jenis kelamin : pria/wanita* Nama dietisien :	No.Medical record : Hari /Tanggal masuk RS : Hari/Tanggal wawancara : Diagnosa penyakit : Preskripsi Diet :

Waktupengisian : kunjungan awal /hari ke-7/ hari-14(beri tanda O pada waktu yang telah dipilih

Deskripsi	Jawaban			SKOR SGA		
1 Berat Badan (BB) • BB biasanya • BB Awal masukRS(kg)/ saat ini  (Bila ada data dikutip,bila tidak ada timbangan)	..... kg ..... kg	..... Tidak tahu ..... Tidak tahu	TB..... cm (jika tirah baring diukur PB)			
Kehilangan BB selama 6bln terakhir <u>BB Biasanya – BB awal masuk</u>  BB Biasanya	1 ( )tidak ada 2 ( )ada penurunan,bertambah atau menurun < 5% 3. ( )ada penurunan BB 5-10% 4 ( )ada penurunan> 10% 5 ( )tidak tahu (tidak di score)			A A	B	C
Perubahan BB selama 2minggu terakhir  <i>Bilapasiens tidak yakin tanyakan:</i> 1 Perubahanukuran n ikat pinggang 2 Perubahan ukuran pakaian 3 Asumsiteman melihat “lebih kurus”	1 ( )tidak ada 2 ( )tidakada ,tapi BB dibawah atau diatas normal 3 ( )ada kenaikan ,tapi BB belum normal 4 ( )BB turun			A B B	B	C

2. Asupan makanan Perubahan dalam jumlah asupan akhir-akhir ini dibanding dengan kebiasaan :	1. ( )asupan cukup & tidak ada perubahan,kalaupunada hanya sedikit dan atau dalam waktu singkat 2.( )asupan menurun daripada sebelum sakit tapi tahap ringan 3. ( )asupan rendah, tapi ada peningkatan 4.( )asupansangat tidak cukup dan menurun tahap berat daripada sebelumnya	A    B	B	C
Lamanya dan derajat perubahan asupan makanan	1 ( )<2minggu,sedikit/tampa perubahan 2 ( )>2minggu,perubahan sedikit -sedang 3 ( )tak bisa makan,perubahan drastis	A   B	B	C
3.Gejala Gastrointestinal	Jika tidak langsungke	Frekuensi	Lamanya	