

DAFTAR PUSTAKA

- AlMasud, A. A., Alothman, S. A., Benajiba, N., Alqahtani, S., Alatr, A. A., Alshatowy, A. A., Alenezy, G. E., Alshahrani, G. M., Alhussain, L. A., Alnashwan, N. I., Alshimali, N. A., Alneghamshi, N. A., Aljasser, N. M., & Huwaikem, M. A. (2025). Relationship of fat mass index and fat free mass index with body mass index and association with sleeping patterns and physical activity in Saudi young adults women. *Journal of Health, Population, and Nutrition*, 44(1), 64. <https://doi.org/10.1186/S41043-025-00795-5>
- Alves, V. A., Fayh, A. P. T., Queiroz, S. A., Gonzalez, M. C., & de Sousa, I. M. (2024). Muscle mass evaluation in hospitalized patients: Comparison between doubly indirect methods. *Clinical Nutrition ESPEN*, 59, 188–193. <https://doi.org/10.1016/j.clnesp.2023.11.022>
- Barrallier, M., Rageul, E., Nessler, C., Le Cornu, Q., & Thibault, R. (2026). Global leadership initiative on malnutrition-based nutritional phenotype and factors associated with the outcomes of hospitalized patients managed by a nutrition support team: A retrospective study. *Clinical Nutrition ESPEN*, 71, 102889. <https://doi.org/10.1016/J.CLNESP.2025.102889>
- Branco, M. G., Mateus, C., Capelas, M. L., Pimenta, N., Santos, T., Mäkitie, A., Ganhão-Arranhado, S., Trabulo, C., & Ravasco, P. (2023). Bioelectrical Impedance Analysis (BIA) for the Assessment of Body Composition in Oncology: A Scoping Review. *Nutrients*, 15(22), 4792. <https://doi.org/10.3390/nu15224792>
- Buonacera, A., Stancanelli, B., Colaci, M., & Malatino, L. (2022). Neutrophil to Lymphocyte Ratio: An Emerging Marker of the Relationships between the Immune System and Diseases. *International Journal of Molecular Sciences*, 23(7), 3636. <https://doi.org/10.3390/ijms23073636>
- Cederholm, T., Jensen, G. L., Correia, M. I.T.D., Gonzalez, M. C., Fukushima, R., Higashiguchi, T., Baptista, G., Barazzoni, R., Blaauw, R., Coats, A.,

- Crivelli, A., Evans, D. C., Gramlich, L., Fuchs-Tarlovsky, V., Keller, H., Llido, L., Malone, A., Mogensen, K. M., Morley, J. E., ... Fuchs, V. (2019). GLIM criteria for the diagnosis of malnutrition – A consensus report from the global clinical nutrition community. *Clinical Nutrition*, 38(1), 1–9. <https://doi.org/10.1016/j.clnu.2018.08.002>
- Chen, L.-K., Lee, W.-J., Peng, L.-N., Liu, L.-K., Arai, H., & Akishita, M. (2016). Recent Advances in Sarcopenia Research in Asia: 2016 Update From the Asian Working Group for Sarcopenia. *Journal of the American Medical Directors Association*, 17(8), 767.e1-767.e7. <https://doi.org/10.1016/j.jamda.2016.05.016>
- Chen, P., Jia, F., Wang, M., & Yang, S. (2025). Analysis of the mechanism of skeletal muscle atrophy from the pathway of decreased protein synthesis. *Frontiers in Physiology*, 16. <https://doi.org/10.3389/fphys.2025.1533394>
- Coelho-Júnior, H. J., Marques, F. L., Sousa, C. V., Marzetti, E., & Aguiar, S. da S. (2024). Age- and sex-specific normative values for muscle mass parameters in 18,625 Brazilian adults. *Frontiers in Public Health*, 11. <https://doi.org/10.3389/fpubh.2023.1287994>
- Cruz-Jentoft, Alfonso J, Bahat, G., Bauer, J., Boirie, Y., Bruyère, O., Cederholm, T., Cooper, C., Landi, F., Rolland, Y., Sayer, A. A., Schneider, S. M., Sieber, C. C., Topinkova, E., Vandewoude, M., Visser, M., Zamboni, M., Bautmans, I., Baeyens, J.-P., Cesari, M., ... Schols, J. (2019). Sarcopenia: revised European consensus on definition and diagnosis. *Age and Ageing*, 48(1), 16–31. <https://doi.org/10.1093/ageing/afy169>
- Dupont, J., Vercauteren, L., Amini, N., Lapauw, L., De Schaepdryver, M., Poesen, K., Dedeyne, L., Verschueren, S., Tournoy, J., Koppo, K., & Gielen, E. (2023). Are inflammatory markers associated with sarcopenia-related traits in older adults with sarcopenia? – A cross-sectional analysis of the ENHANce study. *Experimental Gerontology*, 178, 112196. <https://doi.org/10.1016/j.exger.2023.112196>
- Fazzini, B., Märkl, T., Costas, C., Blobner, M., Schaller, S. J., Prowle, J., Puthuchear, Z., & Wackerhage, H. (2023). The rate and assessment of

- muscle wasting during critical illness: a systematic review and meta-analysis. *Critical Care*, 27(1), 2. <https://doi.org/10.1186/s13054-022-04253-0>
- Fitri, N. K., Sari, D. K., & Lipoeto, N. I. (2024). Anthropometric and body composition analysis in obese and non-obese subjects in three major cities in Indonesia: A cross-sectional study. *Human Nutrition & Metabolism*, 37, 200271. <https://doi.org/10.1016/J.HNM.2024.200271>
- Gotti, C., Sensini, A., Zucchelli, A., Carloni, R., & Focarete, M. L. (2020). Hierarchical fibrous structures for muscle-inspired soft-actuators: A review. In *Applied Materials Today* (Vol. 20). Elsevier Ltd. <https://doi.org/10.1016/j.apmt.2020.100772>
- Hu, B., Yang, X.-R., Xu, Y., Sun, Y.-F., Sun, C., Guo, W., Zhang, X., Wang, W.-M., Qiu, S.-J., Zhou, J., & Fan, J. (2014). Systemic Immune-Inflammation Index Predicts Prognosis of Patients after Curative Resection for Hepatocellular Carcinoma. *Clinical Cancer Research*, 20(23), 6212–6222. <https://doi.org/10.1158/1078-0432.CCR-14-0442>
- Hu, Q., Mao, W., Wu, T., Xu, Z., Yu, J., Wang, C., Chen, Saisai, Chen, Shuqiu, Xu, B., Xu, Y., & Chen, M. (2021). High Neutrophil-to-Lymphocyte Ratio and Platelet-to-Lymphocyte Ratio Are Associated With Sarcopenia Risk in Hospitalized Renal Cell Carcinoma Patients. *Frontiers in Oncology*, 11. <https://doi.org/10.3389/fonc.2021.736640>
- Janssen, I., Heymsfield, S. B., Wang, Z., & Ross, R. (2000). Skeletal muscle mass and distribution in 468 men and women aged 18–88 yr. *Journal of Applied Physiology*, 89(1), 81–88. <https://doi.org/10.1152/jappl.2000.89.1.81>
- Ji, W., Liu, X. L., Liu, P., He, Y. W., Zhao, Y. X., Zheng, K., Cui, J. W., & Li, W. (2023). The efficacy of fat-free mass index and appendicular skeletal muscle mass index in cancer malnutrition: a propensity score match analysis. *Frontiers in Nutrition*, 10, 1172610. <https://doi.org/10.3389/FNUT.2023.1172610/BIBTEX>

- Joaquín, C., Bretón, I., Ocón Bretón, M. J., Burgos, R., Bellido, D., Matía-Martín, P., Martínez Olmos, M. Á., Zugasti, A., Riestra, M., Botella, F., & García Almeida, J. M. (2024). Nutritional and Morphofunctional Assessment of Post-ICU Patients with COVID-19 at Hospital Discharge: NutriEcoMuscle Study. *Nutrients*, 16(6), 886. <https://doi.org/10.3390/NU16060886>
- Jung, U. J. (2023). Sarcopenic Obesity: Involvement of Oxidative Stress and Beneficial Role of Antioxidant Flavonoids. *Antioxidants*, 12(5), 1063. <https://doi.org/10.3390/antiox12051063>
- Kanbur, B., Unek, I. T., Uzun, M., Ozturk, C., Yarol, R. C., & Balci, A. (2025). Association of Systemic Inflammatory Response Index and Prognostic Nutritional Index Scores with Sarcopenia in Patients with Metastatic Gastric Cancer. *Medicina* 2025, Vol. 61, Page 785, 61(5), 785. <https://doi.org/10.3390/MEDICINA61050785>
- Kaura, V., & Hopkins, P. M. (2024). Recent advances in skeletal muscle physiology. *BJA Education*, 24(3), 84–90. <https://doi.org/10.1016/j.bjae.2023.12.003>
- Kawakami, R., Tanisawa, K., Ito, T., Usui, C., Miyachi, M., Torii, S., Midorikawa, T., Ishii, K., Muraoka, I., Suzuki, K., Sakamoto, S., Higuchi, M., & Oka, K. (2022). Fat-Free Mass Index as a Surrogate Marker of Appendicular Skeletal Muscle Mass Index for Low Muscle Mass Screening in Sarcopenia. *Journal of the American Medical Directors Association*, 23(12), 1955-1961.e3. <https://doi.org/10.1016/J.JAMDA.2022.08.016>
- Kaya, T., Açıkgöz, S. B., Yıldırım, M., Nalbant, A., Altaş, A. E., & Cinemre, H. (2019). Association between neutrophil-to-lymphocyte ratio and nutritional status in geriatric patients. *Journal of Clinical Laboratory Analysis*, 33(1). <https://doi.org/10.1002/jcla.22636>
- Kim, S., & Won, C. W. (2022). Sex-different changes of body composition in aging: a systemic review. *Archives of Gerontology and Geriatrics*, 102. <https://doi.org/10.1016/J.ARCHGER.2022.104711>
- Londhe, P., & Guttridge, D. C. (2015). Inflammation induced loss of skeletal muscle. *Bone*, 80, 131–142. <https://doi.org/10.1016/j.bone.2015.03.015>

- M., Y., Parmar, P. A., Sharma, S., Kakadiya, J. P., & Lakkad, D. (2025). Neutrophil-to-lymphocyte ratio as a novel predictor of sarcopenia in maintenance hemodialysis patients: a cross-sectional study exploring associations across body composition categories. *BMC Musculoskeletal Disorders*, 26(1), 39. <https://doi.org/10.1186/s12891-025-08291-x>
- Mareschal, J., Achamrah, N., Norman, K., & Genton, L. (2019). Clinical Value of Muscle Mass Assessment in Clinical Conditions Associated with Malnutrition. *Journal of Clinical Medicine*, 8(7), 1040. <https://doi.org/10.3390/jcm8071040>
- Merchant, R. A., Seetharaman, S., Au, L., Wong, M. W. K., Wong, B. L. L., Tan, L. F., Chen, M. Z., Ng, S. E., Soong, J. T. Y., Hui, R. J. Y., Kwek, S. C., & Morley, J. E. (2021). Relationship of Fat Mass Index and Fat Free Mass Index With Body Mass Index and Association With Function, Cognition and Sarcopenia in Pre-Frail Older Adults. *Frontiers in Endocrinology*, 12, 765415. <https://doi.org/10.3389/FENDO.2021.765415>
- Mukund, K., & Subramaniam, S. (2020). Skeletal muscle: A review of molecular structure and function, in health and disease. *WIREs Systems Biology and Medicine*, 12(1). <https://doi.org/10.1002/wsbm.1462>
- Nie, H., Liu, Y., Zeng, X., & Chen, M. (2024). Neutrophil-to-lymphocyte ratio is associated with sarcopenia risk in overweight maintenance hemodialysis patients. *Scientific Reports* 2024 14:1, 14(1), 3669-. <https://doi.org/10.1038/s41598-024-54056-2>
- Öztürk, Z. A., Kul, S., Türkbeyler, İ. H., Sayiner, Z. A., & Abiyev, A. (2018). Is increased neutrophil lymphocyte ratio remarking the inflammation in sarcopenia? *Experimental Gerontology*, 110, 223–229. <https://doi.org/10.1016/j.exger.2018.06.013>
- Park, H. G., Park, K. H., Kim, M. H., Kim, G. S., & Chung, S. (2011). Gender Differences in Relationship between Fat-Free Mass Index and Fat Mass Index among Korean Children Using Body Composition Chart. *Yonsei Medical Journal*, 52(6), 948. <https://doi.org/10.3349/YMJ.2011.52.6.948>

- Satis, S. (n.d.). New Inflammatory Marker Associated with Disease Activity in Rheumatoid Arthritis: The Systemic Immune-Inflammation Index. *Current Health Sciences Journal*, 47(4), 553–557. <https://doi.org/10.12865/CHSJ.47.04.11>
- Severinsen, M. C. K., & Pedersen, B. K. (2020). Muscle–Organ Crosstalk: The Emerging Roles of Myokines. *Endocrine Reviews*, 41(4), 594–609. <https://doi.org/10.1210/endrev/bnaa016>
- Shi, L., Zhang, L., Zhang, D., & Chen, Z. (2023a). Association between systemic immune-inflammation index and low muscle mass in US adults: a cross-sectional study. *BMC Public Health*, 23(1), 1416–1416. <https://doi.org/10.1186/S12889-023-16338-8>
- Shi, Y., Zhou, H., Fu, Q., Wang, X., Wu, X., Liu, W., & Gan, D. (2025). Systemic inflammation index mediated the associations between dietary intake for gut microbiota and muscle mass: a cross-sectional study. *Nutrition and Metabolism*, 22(1). <https://doi.org/10.1186/S12986-025-01035-7>
- Silva, J., Giglio, B. M., Lobo, P. C. B., Araújo, V. A., & Pimentel, G. D. (2022). Neutrophil-to-lymphocyte ratio is not associated with risk of sarcopenia in elderly COVID-19 patients. *Revista Española de Geriatria y Gerontología*, 57(6), 325–329. <https://doi.org/10.1016/J.REGG.2022.09.010>
- Siqueira, J. M., Soares, J. D. P., Borges, T. C., Gomes, T. L. N., & Pimentel, G. D. (2021). High neutrophil to lymphocytes ratio is associated with nutritional risk in hospitalised, unselected cancer patients: a cross-sectional study. *Scientific Reports*, 11(1), 17120. <https://doi.org/10.1038/s41598-021-96586-z>
- Sue, M., Takeuchi, Y., Hirata, S., Takaki, A., & Otsuka, M. (2024). Impact of Nutritional Status on Neutrophil-to-Lymphocyte Ratio as a Predictor of Efficacy and Adverse Events of Immune Check-Point Inhibitors. *Cancers*, 16(10), 1811. <https://doi.org/10.3390/cancers16101811>
- Susri, W., Maulina, N., & Nadira, S. (2025). Hubungan Pekerjaan, Jenis Kelamin, Umur dan Aktivitas Fisik dengan Massa Otot pada Masyarakat

- Lhokseumawe. *Jurnal Kesehatan Dan Kedokteran*, 2(3), 56–67.
<https://doi.org/10.62383/vimed.v2i3.1722>
- Szaflik, P., Zadoń, H., Michnik, R., & Nowakowska-Lipiec, K. (2025). Handgrip Strength as an Indicator of Overall Strength and Functional Performance—Systematic Review. *Applied Sciences (Switzerland)*, 15(4). <https://doi.org/10.3390/APP15041847>
- Tian, S. (2021). Some methodological issues in validating a new predictive equation for fat-free mass. *Clinical Nutrition*, 40(5), 2599. <https://doi.org/10.1016/j.clnu.2021.04.003>
- Tsai, M.-T., Tseng, W.-C., Ou, S.-M., Lee, K.-H., Yang, C.-Y., & Tarng, D.-C. (2021). Comparison of Simplified Creatinine Index and Systemic Inflammatory Markers for Nutritional Evaluation of Hemodialysis Patients. *Nutrients*, 13(6), 1870. <https://doi.org/10.3390/nu13061870>
- Tu, H., & Li, Y.-L. (2023). Inflammation balance in skeletal muscle damage and repair. *Frontiers in Immunology*, 14. <https://doi.org/10.3389/fimmu.2023.1133355>
- Uzun, H., Fenercioglu, A. K., Senyigit, A., & Can, G. (2025). Relationship Between Nutritional Status and Systemic Immune–Inflammation Indices Across BMI Categories. *Nutrients*, 17(23). <https://doi.org/10.3390/NU17233799>
- Wang, J., Wang, X., Li, X., Wang, S., Yue, J., Dong, B., & Li, Y. (2026). Association Between Neutrophil-to-Lymphocyte Ratio and Sarcopenia: A Systematic Review and Meta-Analysis. *Journal of the American Medical Directors Association*, 27(1). <https://doi.org/10.1016/j.jamda.2025.105977>
- Wang, J., Xu, M. C., Huang, L. J., Li, B., Yang, L., & Deng, X. (2023). Value of neutrophil-to-lymphocyte ratio for diagnosing sarcopenia in patients undergoing maintenance hemodialysis and efficacy of Baduanjin exercise combined with nutritional support. *Frontiers in Neurology*, 14, 1072986. <https://doi.org/10.3389/FNEUR.2023.1072986/BIBTEX>

- Westbury, L. D., Fuggle, N. R., Syddall, H. E., Duggal, N. A., Shaw, S. C., Maslin, K., Dennison, E. M., Lord, J. M., & Cooper, C. (2018). Relationships Between Markers of Inflammation and Muscle Mass, Strength and Function: Findings from the Hertfordshire Cohort Study. *Calcified Tissue International*, 102(3), 287–295. <https://doi.org/10.1007/s00223-017-0354-4>
- Wullur, Y., & Taslim, N. A. (2024). Neutrophil-Lymphocyte Ratio, prognostic nutritional index and CRP - Albumin Ratio significantly predict mortality in ICU patients with low nutrition risk. *Nutrición Clínica y Dietética Hospitalaria*, 44(3). <https://doi.org/10.12873/443wullur>
- Xie, S., & Wu, Q. (2024). Association between the systemic immune-inflammation index and sarcopenia: a systematic review and meta-analysis. *Journal of Orthopaedic Surgery and Research*, 19(1), 314. <https://doi.org/10.1186/s13018-024-04808-7>
- Yuan, S., & Larsson, S. C. (2023). Epidemiology of sarcopenia: Prevalence, risk factors, and consequences. *Metabolism: Clinical and Experimental*, 144, 155533. <https://doi.org/10.1016/j.metabol.2023.155533>
- Zahorec, R. (2021). Neutrophil-to-lymphocyte ratio, past, present and future perspectives. *Bratislava Medical Journal*, 122(07), 474–488. https://doi.org/10.4149/BLL_2021_078
- Zhang, C., Wang, X., Tian, Y., Niu, H., Zhang, P., & Geng, J. (2025). Inflammatory markers including NLR, AFR and SII as prognostic factors in neuroblastoma. *Nature Scientific Reports*, 15(24101). <https://doi.org/10.1038/s41598-025-10209-5>
- Zhang, J., Wang, Y., Liu, H., Lei, Z., Cheng, S., & Cao, H. (2025). The association between eight complete blood count-derived inflammatory markers and muscle health. *Frontiers in Nutrition*, 12, 1498757. <https://doi.org/10.3389/FNUT.2025.1498757/BIBTEX>
- Zhao, J., Zeng, L., Liang, G., Dou, Y., Zhou, G., Pan, J., Yang, W., Hong, K., Liu, J., & Zhao, L. (2023). Higher systemic immune-inflammation index is associated with sarcopenia in individuals aged 18–59 years: a

population-based study. *Scientific Reports*, 13(1).
<https://doi.org/10.1038/s41598-023-49658-1>

LAMPIRAN

Lampiran 1. Persetujuan Etik



KEMENTERIAN PENDIDIKAN, KEBUDAYAAN, RISET DAN TEKNOLOGI
UNIVERSITAS HASANUDDIN FAKULTAS KEDOKTERAN
KOMITE ETIK PENELITIAN UNIVERSITAS HASANUDDIN
RSPTN UNIVERSITAS HASANUDDIN
RSUP Dr. WAHIDIN SUDIROHUSODO MAKASSAR
Sekretariat : Lantai 2 Gedung Laboratorium Terpadu
JL.PERINTIS KEMERDEKAAN KAMPUS TAMALANREA KM.10 MAKASSAR 90245.



Contact Person: dr. Agussalim Bukhari.,MMed,PhD, SpGK TELP. 081241850858, 0411 5780103, Fax : 0411-581431

REKOMENDASI PERSETUJUAN ETIK

Nomor : 930/UN4.6.4.5.31/ PP36/ 2025

Tanggal: 12 Nopember 2025

Dengan ini Menyatakan bahwa Protokol dan Dokumen yang Berhubungan Dengan Protokol berikut ini telah mendapatkan Persetujuan Etik :

No Protokol	UH25090718	No Sponsor	
Peneliti Utama	dr. Hikmah Prahesti	Sponsor	
Judul Peneliti	Hubungan Derajat Inflamasi (Neutrophil-Lymphocyte Ratio(NLR) dan Systemic Immune-Inflammation Index (SII))dengan Massa Otot Pasien Rawat Inap di Rumah Sakit Universitas Hasanuddin, Makassar		
No Versi Protokol	2	Tanggal Versi	7 Nopember 2025
No Versi PSP	2	Tanggal Versi	7 Nopember 2025
Tempat Penelitian	Rumah Sakit Universitas Hasanuddin, Makassar		
Jenis Review	☐ Exempted ☒ Expedited ☐ Fullboard Tanggal	Masa Berlaku 12 Nopember 2025 sampai 12 Nopember 2026	Frekuensi review lanjutan
Ketua KEP Universitas Hasanuddin	Prof. dr. Muh Nasrum Massi, PhD, SpMK, Subsp. Bakt(K)	Tanda tangan	
Sekretaris KEP Universitas Hasanuddin	Prof.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 Lapo 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 prokol yang disetujui (protocol deviation / violation)
- Mematuhi semua peraturan yang ditentukan

Lampiran 2. Formulir Persetujuan Setelah Penjelasan



KEMENTERIAN PENDIDIKAN TINGGI, SAINS dan TEKNOLOGI
 FAKULTAS KEDOKTERAN UNIVERSITAS HASANUDDIN
 KOMITE ETIK PENELITIAN
 RSPTN UNIVERSITAS HASANUDDIN
 RSUP Dr. WAHIDIN SUDIROHUSODO MAKASSAR
 Sekretariat: Lantai 2 Gedung Laboratorium Terpadu
 JL. PERINTIS KEMERDEKAAN KAMPUS TAMALANREA KM.10 MAKASSAR 90245.



Contact Person: Prof. dr. Agussalim Bukhari, M.Med. PhD, Sp.CK TELP. 081241850858, 0411 5780103, Fax : 0411-581431

LAMPIRAN 2

FORMULIR PERSETUJUAN SETELAH PENJELASAN

Saya yang bertandatangan di bawah ini :

Nama :
 Umur :
 Masa Kerja :
 Satuan :
 Alamat :

setelah mendengar/membaca dan mengerti penjelasan yang diberikan mengenai tujuan, manfaat, dan apa yang akan dilakukan pada penelitian ini, menyatakan setuju untuk ikut dalam penelitian ini secara sukarela tanpa paksaan.

Saya tahu bahwa keikutsertaan saya ini bersifat sukarela tanpa paksaan, sehingga saya bisa menolak ikut atau mengundurkan diri dari penelitian ini. Saya berhak bertanya atau meminta penjelasan pada peneliti bila masih ada hal yang belum jelas atau masih ada hal yang ingin saya ketahui tentang penelitian ini.

Saya juga mengerti bahwa semua biaya yang dikeluarkan sehubungan dengan penelitian ini, akan ditanggung oleh peneliti. Saya percaya bahwa keamanan dan kerahasiaan data penelitian akan terjamin dan saya dengan ini menyetujui semua data saya yang dihasilkan pada penelitian ini untuk disajikan dalam bentuk lisan maupun tulisan.

Dengan membubuhkan tandatangan saya di bawah ini, saya menegaskan keikutsertaan saya secara sukarela dalam studi penelitian ini.

	Nama	Tanda tangan	Tgl/Bln/Thn
Responden			
/Wali			
Saksi			

(Tanda Tangan Saksi diperlukan hanya jika Partisipan tidak dapat memberikan consent/persetujuan sehingga menggunakan wali yang sah secara hukum, yaitu untuk partisipan berikut:

1. Berusia di bawah 18 tahun
2. Usia lanjut



KEMENTERIAN PENDIDIKAN TINGGI, SAINS dan TEKNOLOGI
 FAKULTAS KEDOKTERAN UNIVERSITAS HASANUDDIN
 KOMITE ETIK PENELITIAN
 RSPTN UNIVERSITAS HASANUDDIN
 RSUP Dr. WAHIDIN SUDIROHUSODO MAKASSAR
 Sekretariat: Lantai 2 Gedung Laboratorium Terpadu
 JL. PERINTIS KEMERDEKAAN KAMPUS TAMALANREA KM.10 MAKASSAR 90245.



Contact Person: Prof. dr. Agussalim Bukhari. M.Med, PhD, Sp.GK TELP. 081241850858, 0411 5780103, Fax : 0411-581431

3. Gangguan mental
4. Pasien tidak sadar
5. Dan lain-lain kondisi yang tidak memungkinkan memberikan persetujuan

Penanggung jawab penelitian

Nama : dr. Hikmah Prahesti
 Alamat : Rusunawa 1 UNHAS, Tamalanrea, Makassar
 No Hp : 085282086191

Penanggung jawab Medis :

Nama : Dr.dr. A. Yasmin Syauki, MSc., Sp.GK(K), MHPE
 Alamat : Jl Sunu Kompleks UNHA AX No. 18
 No Hp : 08124232132

Lampiran 3. Biodata

BIODATA**Identitas Diri**

1	Nama Lengkap (dengan gelar)	dr. Hikmah Prahesti
2	Jenis Kelamin	Perempuan
3	Tempat dan Tanggal Lahir	Tabalong, 29 Desember 1989
4	Status Pernikahan	Menikah
5	Jabatan	Peserta PPDS Gizi Klinik FK UNHAS
6	NIP	19891229 201903 2 010
7	Alamat Saat ini	Rusunawa 1 UNHAS, Tamalanrea, Makassar
8	Email	prahesti29@gmail.com
9	Nomor Telepon/HP	0852 82086191
10	Asal institusi	Dinas Kesehatan Kabupaten Tabalong

Riwayat Pendidikan

SDN 1 Kambitin Raya, Tanjung Tabalong Kal-Sel	1996 - 2002
MTsS Ma'had Al Zaytun Indramayu, Jawa Barat	2002 - 2005
MAS Ma'had Al Zaytun Indramayu Jawa Barat	2005 - 2008
FK Universitas Abulyatama Aceh	2009 - 2015
Fakultas Kedokteran Universitas Hasanuddin(PPDS Gizi Klinik)	2023 - 2026

Riwayat Pekerjaan

1	Dokter Internship pada RSUD Pambalah Batung dan Puskesmas Sungai Malang Kabupaten Hulu Sungai Utara, Kal-Sel	2015 - 2016
2	Dokter PTT Daerah pada Puskesmas Jaro Kab. Tabalong Kal-Sel	2017 - 2019
3	Dokter PNS Puskesmas Jaro Kab. Tabalong Kal-Sel	2019 - Sekarang