

## DAFTAR PUSTAKA

- Al-azizah, DA, Widyantara, AB, Mua'wanah, IAU 2023, Analisis Kontrol Kualitas Ureum dan Kreatinin Menggunakan Grafik Levey-Jennings dan Sigma Metrik, *Jurnal Analis Kesehatan*, 12(2), 78–84, <https://doi.org/10.26630/jak.v12i2.4229>.
- Alghamdi, SMS, Barayan, YMA, Felemban, AS, Alharthi, SM, Alghamdi, AS, Alluhaybi, JB, Alhazmi FO, Hassan, LA & Alsalmi, AA 2024, Pre-Analytical, Analytical, And Post-Analytical Errors In Clinical Laboratory Testing: A Systematic Review Of Causes And Prevention Strategies, *Journal of International Crisis and Risk Communication Research*, 7, 3361–3375, <https://doi.org/10.63278/jicrcr.vi.3220>.
- ArulVijayaVani, S, Mohanraj, PS & Reeta, R 2023, Evaluating interference of lipemia on routine clinical biochemical tests, *Journal of Laboratory Physicians*, 15(02), 269–275, <https://doi.org/10.1055/s-0042-1758664>.
- Ávila, M, Mora Sánchez, MG, Bernal Amador, AS, Paniagua, R 2025, The Metabolism of Creatinine and Its Usefulness to Evaluate Kidney Function and Body Composition in Clinical Practice, *Biomolecules*, 15(1), 41, <https://doi.org/10.3390/biom15010041>.
- Ayati, IN, Yanti, NLGP & Prasetya, D 2025, The Correlation Between Neutrophil-Lymphocyte Ratio (NLR) and Erythrocyte Sedimentation Rate (ESR) in Pneumonia Patients, *Jurnal Kesehatan Cendikia Jenius*, 2(3), 275–283, <https://jurnal.kesehatan.cendikiajenius-ind.id/index.php/jenius/article/view/238>.
- Azizah, FN 2023, Pengaruh Variasi Waktu Penundaan Pemisahan Serum Terhadap Hasil Pemeriksaan Glukosa, *The Journal Of Muhammadiyah Medical Laboratory Technologist*, 6(2), 184–191, <https://journal.um-surabaya.ac.id/analisis/article/view/14594>.
- Azman, WNW, Shafii, N, Wong, SH & Jelani, AM 2021, Inappropriate Positioning of Separator Gel in Blood Collection Tube: A Case Report, *Malaysian Journal of Medicine and Health Sciences*, <http://mjmhsojs.upm.edu.my/index.php/mjmhs/article/view/441/613>
- Balaka, KI & Annisaa, N 2021, Hubungan Tekanan Darah Dan Kreatinin Serum Pada Anggota Gymnastik di Pusat Kebugaran Kota Kendari. *JURNAL ANALIS KESEHATAN KENDARI*, 3(2), 10–15, <https://www.polbinhus.ac.id/jurnal/analiskesehatankendari/article/view/179>
- Cherie, N, Chane, Angelo, AA, Teketelew, BB, Tamir, M & Berta, DM 2025, External quality assessment in African clinical laboratories: A systematic review and meta-analysis. *American Journal of Clinical Pathology*, 163(5), 656–663, <https://doi.org/10.1093/ajcp/qaqe177>.
- Colombo, M, McGurnaghan, SJ, Blackburn, LAK, Dalton, RN, Dunger, D, Bell, S, Petrie, JR, Green, F, MacRury, S, McKnight, JA, Chalmers, J, Collier, A,

- McKeigue, PM & Colhoun, HM 2020, Comparison of serum and urinary biomarker panels with albumin/creatinine ratio in the prediction of renal function decline in type 1 diabetes *Diabetologia*, 63(4), 788–798, <https://doi.org/10.1007/s00125-019-05081-8>.
- Deng, Y, Xie, F, Zhao, Z, Wu, W, Wang, D, Guna, Y, Zhang, Q, Li, Q, Jiang, H & Guan, M 2025, Updated reference intervals for serum cystatin C and creatinine based on age and sex variations. *Scientific Reports*, 15(1), 32261 <https://doi.org/10.1038/s41598-025-17545-6>, <https://doi.org/10.1038/s41598-025-17545-6>.
- Dissanayake, RK, Ranaweera, K & Priyadarshani, AMB 2022, A narrative review on laboratory investigations of serum creatinine and solutions to problems therein, *Journal of Health Sciences and Innovative Research*, 3(02), <https://doi.org/10.31357/jhsir.v3i02.6187>.
- Dubey, A & Sonker, A (2021, Implementation of internal quality control program for monitoring of enzyme-linked immunosorbent assay performance at a blood center, *Asian Journal of Transfusion Science*, 15(1), [https://doi.org/10.4103/ajts.AJTS\\_59\\_19](https://doi.org/10.4103/ajts.AJTS_59_19)
- Fang, X, Sun, C, Dai, P, Xian, Z, Su, W, Zheng, C, Xing, D, Xu, X & You, H 2024, Capillary force-driven quantitative plasma separation method for application of whole blood detection microfluidic chip, *Micromachines*, 15(5), 619, <https://doi.org/10.3390/mi15050619>.
- Flores, CFY, de Las Mercedes Hurtado Pineda, Á, Bonilla, VMC & Sáenz-Flor, K 2020, Sample Management: Stability of Plasma and Serum on Different Storage Conditions. *EJIFCC*, 31(1), 46–55, <https://pmc.ncbi.nlm.nih.gov/articles/PMC7109503/pdf/ejifcc-31-46.pdf>.
- Gruber, L, Hausch, A & Mueller, T 2024, Internal Quality Controls in the Medical Laboratory: A Narrative Review of the Basic Principles of an Appropriate Quality Control Plan. *Diagnostics (Basel, Switzerland)*, 14(19), <https://doi.org/10.3390/diagnostics14192223>
- Hedayati, M, Razavi, SA, Boroomand, S & Kheradmand Kia, S 2020, The impact of pre-analytical variations on biochemical analytes stability: A systematic review, *Journal of Clinical Laboratory Analysis*, 34(12), e23551, <https://doi.org/10.1002/jcla.23551>
- Hendrawan, S., Santoso, A. H., Destra, E., Hartono, E., Soeltanong, D & Khoto, AEP 2025, Gambaran Estimasi Laju Filtrasi Glomerulus (eGFR) dan Kreatinin sebagai Indikator Fungsi Ginjal di Yayasan Baptis Cengkareng Indah. *SEWAGATI: Jurnal Pengabdian Masyarakat Indonesia*, 4(2), 129–135, <https://doi.org/10.56910/sewagati.v4i2.2355>
- Hernawati, H, Yanti, NKAM & Parwati, PA 2025, Hubungan Pengetahuan Petugas Laboratorium terhadap Penerapan Pemantapan Mutu Internal Pemeriksaan Glukosa Darah di RSUD Bahteramas Provinsi Sulawesi Tenggara, *Jurnal Ilmiah Research Student*, 2(2), 1050–1064, <https://doi.org/10.61722/jirs.v2i2.6085>

- Heryana, A 2020, Uji Statistik Non Parametrik, *Jurnal Ilmiah Prodi Kesehatan Masyarakat FIKES Universitas Esa Unggul*, [10.13140/RG.2.2.33332.48000](https://doi.org/10.13140/RG.2.2.33332.48000).
- Kaharuddin, A 2024, *Panduan Praktis Statistika Nonparametrik: Teori dan Aplikasi*. Eureka Media Aksara, Jawa Tengah.
- Kesuma, S, Farpina, E & Sultan, S 2024, Evaluasi Pemeriksaan Kreatinin Dengan Penundaan 12 Jam Pada Pasien Diabetes Melitus: Evaluation Of Creatinine Screening With 12-hour Delay In Diabetes Mellitus Patients, *Borneo Journal of Medical Laboratory Technology*, 6(2), 576–583, <https://doi.org/10.33084/bjmlt.v6i2.7096>
- Khotimah, E, Lingga, PAS & Pramitaningrum, IK 2024, Tingkat Kualitas Pemantapan Mutu Internal Pra Analitik Pemeriksaan Hematologi, *Jurnal Analisis Laboratorium Medik*, 9(1), 53–60, <https://doi.org/10.51544/jalm.v9i1.5291>
- Kiseleva, O, Kurbatov, I, Ilgisonis, E & Poverennaya, E 2021, Defining Blood Plasma and Serum Metabolome by GC-MS, *Metabolites*, 12(1), <https://doi.org/10.3390/metabo12010015>
- Kong, LR, Wei, F, He, DH, Zhou, CQ, Li, H, Wu, F, Luo, Y, Luo, J, Xie, Q & Peng, H 2022, Biological variation in the serum and urine kidney injury markers of a healthy population measured within 24 hours, *BMC Nephrology*, 23(1), 195, <https://doi.org/10.1186/s12882-022-02819-2>
- Kouame, H, Benamo-Seghir, M, Samih, A, Morjan, A & Kamal, N 2023, Serum Creatinine Determination: Comparison between Colorimetric (Jaffé) and Enzymatic Methods in Renal Transplant Recipients, *Asian Journal of Biochemistry, Genetics and Molecular Biology*, 14(3), 9–14, Doi: [10.9734/ajbgmb/2023/v14i3314](https://doi.org/10.9734/ajbgmb/2023/v14i3314)
- Krasowski, MD 2019, Educational Case: Hemolysis and Lipemia Interference With Laboratory Testing, *Academic Pathology*, 6, 2374289519888754. <https://doi.org/10.1177/2374289519888754>
- Kusmiati, M, Nurpalah, R & Restaviani, R 2022, Presisi Dan Akurasi Hasil Quality Control Pada Parameter Pemeriksaan Glukosa Darah Di Laboratorium Klinik Rumah Sakit X Kota Tasikmalaya, *Journal of Indonesian Medical Laboratory and Science (JoIMedLabS)*, 3(1), 27–37, Doi: <https://doi.org/10.53699/joimedlabs.v3i1.86>
- Lakshaniya, CE & Sardeshmukh, AS 2025, Effects of Storage on Serum Biochemical Parameters—A Cross-Sectional Study, *Journal of Contemporary Clinical Practice*, 11, 94–99, doi: [10.61336/jccp/25-06-14](https://doi.org/10.61336/jccp/25-06-14)
- Lestari, D & Aliviameita, A 2023, The Effect Of Serum Storage Time On Room Temperature On Creatinine And Uric Acid: Pengaruh Lama Penyimpanan Serum Pada Suhu Ruang Terhadap Kadar Kreatinin Dan Asam Urat, *Medicra (Journal of Medical Laboratory Science/Technology)*, 6(2), 50–52,

<https://doi.org/10.21070/medicra.v6i2.1675>

- Liu, WS, Lin, CH, Tsai, CY, Wang, HT, Li, SY, Liu, TY., Tan, AC, Tsou, HH, Tseng, KH & Lin, CC 2023, Double filtration plasmapheresis with polyvinyl alcohol-based membrane lowers serum inflammation and toxins in patients with hyperlipidemia, *Bioengineering*, 10(1), 89, <https://doi.org/10.3390/bioengineering10010089>
- Mahi, SEI, Tantane, A, Hamou, SA & Oubraim, S 2024, Literature Study on Factors Influencing the Biochemical Analytes Stability in Blood, Serum and Plasma: Systematic Review, *American Journal of Biochemistry and Biotechnology*, 20 (3), 259-270, <https://doi.org/10.3844/ajbbsp.2024.259.270>
- Mainali, S, Merrill, AE & Krasowski, MD 2021, Frequency of icteric interference in clinical chemistry laboratory tests and causes of severe icterus, *Practical Laboratory Medicine*, 27, e00259, <https://doi.org/10.1016/j.plabm.2021.e00259>
- Marrington, R & MacKenzie, F 2024, Understanding the limitations of your assay using EQA data with serum creatinine as an example, *Clinical Chemistry and Laboratory Medicine*, 62(9), 1824–1834, <https://doi.org/10.1515/cclm-2024-0027>
- Marshela, S, Kesuma, S & Makkadafi, SP 2023, Pengaruh Variasi Waktu Penyimpanan Terhadap Stabilitas Reagen Kerja Pada Hasil Pemeriksaan Kadar Kreatinin, *Klinikal Sains: Jurnal Analisis Kesehatan*, 11(2), 197–205, [https://doi.org/10.36341/klinikal\\_sains.v11i2.3809](https://doi.org/10.36341/klinikal_sains.v11i2.3809)
- Muhammad, LN 2023, Guidelines for repeated measures statistical analysis approaches with basic science research considerations, *The Journal of Clinical Investigation*, 133(11), <https://doi.org/10.1172/JCI171058>
- Muliana, S, Ramadhani, R, Auliani, C, Zulpan, Z, Rusli, A, Wulandari, MN & Setyowati, H 2025, Analisis Data dalam Pendidikan: Memahami Konsep Homogenitas Normalitas dan Pengujiannya untuk Peningkatan Kualitas Pembelajaran, *Teaching and Learning Research Journal*, 1(4), 110–116, <https://doi.org/10.66770/tlrj.v1i4.84>
- Nagana Gowda, GA, Pascua, V & Raftery, D 2022, A new limit for blood metabolite analysis using 1H NMR spectroscopy, *Journal of Magnetic Resonance Open*, 12–13, <https://doi.org/10.1016/j.jmro.2022.100082>
- Nasar, A, Saputra, DH, Arkaan, MR, Ferlyando, MB, Andriansyah, MT & Pangestu, PD 2024, Uji prasyarat analisis, *Jurnal Ekonomi Dan Bisnis*, 2(6), 786–799, <https://ecosemica.net/index.php/ECONOMICA/article/view/164>
- Ni, J, Zhu, W, Wang, Y, Wei, X, Li, J, Peng, L, Zhang, K & Bai, B 2021, A reference chart for clinical biochemical tests of hemolyzed serum samples, *Journal of Clinical Laboratory Analysis*, 35(1), e23561, <https://doi.org/10.1002/jcla.23561>
- Nordin, N, Ab Rahim, SN, Omar, WFAW, Zulkarnain, S, Sinha, S, Kumar, S & Haque, M 2024, Preanalytical errors in clinical laboratory testing at a glance:

- source and control measures' *Cureus*, 16(3), <https://doi.org/10.7759/cureus.57243>
- Nur, A, Amalia, AA & Anwar, C 2025, Analisis Quality Control Pemeriksaan Asam Urat Menggunakan Levey-Jennings Dan Six Sigma Di Rs X Yogyakarta, *Jurnal Analis Laboratorium Medik*, 10(2), 65–77, <https://e-journal.sari-mutiara.ac.id/index.php/ALM/article/view/6079>
- Pradita, D 2021, Perbandingan Kadar Kreatinin Serum Segera Diperiksa Dan Ditunda 3 Jam Pada Suhu Ruang Tahun 2021, *Karya Tulis Ilmiah, Politeknik Kesehatan Palembang*, <https://repository.poltekkespalembang.ac.id/items/show/2960>
- Pudjiastuty, DR, Rustiana, T, Rukhiat, D & Kurnia, D 2025, Pengukuran Kadar Kreatinin Pada Sampel Serum Yang Diperiksa Segera Dan Ditunda Selama 5 Jam Pada Suhu Ruang 20-25o C dan Suhu Kulkas 2-8o C, *Jurnal Analis Kimia*, 9(02), 3–7, <https://jurnal.staba.ac.id/JAK/article/view/11>
- Ramadhani, S, Akas, E, Bagus Widyantara, A, Murdiyanto J & Yogyakarta, A 2025, Analisis Quality Control Pemeriksaan Ureum Dan Kreatinin Menggunakan Grafik Levey-Jennings Dan Six Sigma Di Rs Pku Muhammadiyah Yogyakarta, *Jurnal Kesehatahn Tambusai*, 6(3), <https://journal.universitaspahlawan.ac.id/index.php/jkt/article/view/47161>
- Salman, Y, Farihi, MI & Yahya, Y 2023, Implementasi Quality Control (QC) Penggunaan Alat Point Of Care Testing (POCT) di Puskesmas Cempaka Kota Banjarmasin, *Jurnal Kesehatan Indonesia (The Indonesian Journal of Health)*, XII(3), 139–146, <https://www.researchgate.net/publication/373279784>
- Sari, AP, Hasanah, S & Nursalman, M 2024, Uji normalitas dan homogenitas dalam analisis statistik, *Jurnal Pendidikan Tambusai*, 8(3), <https://jptam.org/index.php/jptam/article/view/24059>
- Shah, TJ, Sadaria, R & Vasava, S 2021, Pre-analytical errors in clinical diagnostic laboratory: A crucial step to look for accuracy and reliability, *Indian Journal of Forensic Medicine and Toxicology*, 15(1), 1919–1924 <https://medicopublication.com/index.php/ijfmt/article/view/13690>
- Sotelo-Orozco, J, Chen, SY, Hertz-Picciotto, I & Slupsky, CM 2021, A Comparison of Serum and Plasma Blood Collection Tubes for the Integration of Epidemiological and Metabolomics Data, *Frontiers in Molecular Biosciences*, 8, <https://doi.org/10.3389/fmolb.2021.682134>
- Suprpto, FN, Haryanto, E & Endarinin, LH 2024, Perbandingan Kadar Kreatinin Serum Segera Diperiksa, Ditunda Selama 8 Jam, dan Ditunda Selama 24 Jam pada Suhu Ruang, *Analisis Kesehatan Sains*, 13(1), <https://doi.org/10.36568/anakes.v13i1.100>
- Syme, NR, Stevens, K, Stirling, C, McMillan, DC & Talwar, D 2020, Clinical and Analytical Impact of Moving from Jaffe to Enzymatic Serum Creatinine

- Methodology, *Journal of Applied Laboratory Medicine*, 5(4), 631–642, <https://doi.org/10.1093/jalm/jfaa053>
- Vignoli, A, Tenori, L, Morsiani, C, Turano, P, Capri & Luchinat, C 2022, Serum or Plasma (and Which Plasma), That Is the Question, *Journal of Proteome Research*, 21(4), 1061–1072, <https://doi.org/10.1021/acs.jproteome.1c00935>
- Waitz, G, Atiye, S, Gauly, A & Prophet, H 2022, Comparison of plasma separation using centrifugation or filtration for MONET lipoprotein apheresis in patients with cardiovascular disease and severe dyslipidemia, *Therapeutic Apheresis and Dialysis*, 26(6), 1281–1288, <https://doi.org/10.1111/1744-9987.13840>
- Westgard, S 2021, Basic Applications in Clinical Laboratory Quality Control, Techno-path Manufacturing Limited, 52, <https://www.technopathclinicaldiagnostics.com/f/58406/x/abbae0003a/technopath-qc-workbook-basic-digi.pdf>
- Widayat, NS 2024, Perbedaan Kadar Kreatinin Metode Jaffe Reaction pada Serum Segera dan Simpan Selama 1, 2, dan 3 Hari pada Suhu Ruang, *Jurnal Kesehatan Siliwangi*, 5(2), 393–400, <https://doi.org/10.34011/jks.00.2391>
- Widjaja, Y, Santoso, AH, Wijaya, DA, Satyanegara, WG, Kurniawan, J, Herdiman, A, Hartono, VAB, Ranonto, SV, Lumintang, VG & Kedokteran, F 2023, Peningkatan Kewaspadaan Masyarakat Terhadap Penyakit Ginjal Kronis Dengan Edukasi Gaya Hidup dan Skrining Fungsi Ginjal, *Communnity Development Journal*, 4(6), 12147–12153, <https://journal.universitaspahlawan.ac.id/index.php/cdj/article/view/22087>
- Wiliyanti, V, Judijanto, L, Situmeang, RJ, Saraswati, S, Cipta, ES, Nurwiani, N, & Rodliyah, I 2025, Statistika Non Parametrik: *Konsep & Aplikasi*, PT Sonpedia, Publishing Indonesia.
- Woolley, T, Rutter, E & Staudenmaier, M 2023, Comparability and stability of serum creatinine concentration in capillary and venous blood, *British Journal of Biomedical Science*, 80, 11402, <https://doi.org/10.3389/bjbs.2023.11402>