

## DAFTAR PUSTAKA

- Akama, Y., Matsue, Y., Maeda, D., Dotare, T., Sunayama, T., Iso, T., *et al.* (2025). Prognostic values of proteinuria in patients with acute heart failure. *J. Cardiol.* 86 : 83–87.
- Al-lawati, J.A., Sulaiman, K.J., Al-zakwani, I., Alsheikh-ali, A.A., Panduranga, P., Al-habib, K.F., *et al.* (2016). Systolic Blood Pressure on Admission and Mortality in Patients Hospitalized With Acute Heart Failure : Observations From the Gulf Acute Heart Failure Registry. *Angiology* 68 : 1–8.
- Al-Naher, A., Wright, D., Devonald, M.A.J., & Pirmohamed, M. (2018). Renal function monitoring in heart failure – what is the optimal frequency? A narrative review. *Br. J. Clin. Pharmacol.* 84 : 5–17.
- Alnutaifi, R.A., Elshaer, F., Alnefaie, G.S., Abozaid, T.S., & Alharbi, G. (2024). The Prevalence of Coronary Artery Disease and Its Prognostic Impact on the Management of Patients With Acute Decompensated Heart Failure : A Prospective Cohort Study With a Short- Term Follow-Up. *Cureus* 16 : e71717.
- Alya, V., Akbar, N.Z., Haykal, T.B., Mukhtar, Z., Ardini, T.W., & Hasan, H. (2019). Blood Urea Nitrogen-To-Creatinine Ratio At Admission As A Predictor Of Major Adverse Cardiovascular Event Within 30 Days In Patients With Acute Decompensated Heart Failure. *Int. J. Res. Sci. Manag.* 6 : 67–72.
- Ameri, P. (2023). Neurohormonal response and inflammation in acute heart failure . *Curr Trend Cardiol* 7 : 1–2.
- Anonymous (2020a). Urea/BUN. Inser. Kit Urea/BUN. COBAS Pro C503. Mannheim : Roche. pp. 1-4.
- Anonymous (2020b). Creatinine Jaffe Gen.2. Inser. Kit Creat. COBAS Pro C503. Mannheim : Roche. pp. 1-6.
- Arrigo, M., Jessup, M., Mullens, W., Reza, N., Shah, A.M., Sliwa, K., *et al.* (2021). Acute heart failure. *Nat Rev Dis Prim.* 6 : 1–33.
- Asano, R., Kajimoto, K., Oka, T., Sugiura, R., Okada, H., Kamishima, K., *et al.* (2017). Association of New York Heart Association functional class IV symptoms at admission and clinical features with outcomes in patients hospitalized for acute heart failure syndromes. *Int. J. Cardiol.* 230 : 585–591.
- Barbosa, M., Matos, A., Bicho, M., & Menezes Falcão, L. (2022). Neglected hematological parameters in heart failure prognosis – Disclosures from the REFERENCE study. *Galicía Clínica* 83 : 20.
- Bozkurt, B., Coats, A.J.S., Tsutsui, H., Abdelhamid, C.M., Adamopoulos, S., Albert, N., *et al.* (2021). Universal definition and classification of heart failure: a report of the Heart Failure Society of America, Heart Failure Association of the European Society of Cardiology, Japanese Heart Failure Society and Writing Committee of the Universal Definition o. *Eur. J. Heart Fail.* 23 : 352–380.
- Brisco, M.A., Coca, S.G., Chen, J., Owens, A.T., McCauley, B.D., Kimmel, S.E., *et al.* (2013). Blood urea nitrogen/creatinine ratio identifies a high-risk but potentially reversible form of renal dysfunction in patients with decompensated heart failure. *Circ. Hear. Fail.* 6 : 233–239.

- Bui, A.L., Horwich, T.B., & Fonarow, G.C. (2011). Epidemiology and risk profile of heart failure. *Nat. Rev. Cardiol.* 8 : 30–41.
- Cho, Y.-H., Park, J.J., Lee, H.-Y., Kim, K.H., Yoo, B.-S., Kang, S.-M., *et al.* (2024). J-shaped relationship between serum creatinine and mortality in Korean patients with acute heart failure. *Clin. Res. Cardiol.* : 1-10.
- Cotter, G., Davison, B.A., Lam, C.S.P., Metra, M., Ponikowski, P., Teerlink, J.R., *et al.* (2023). Acute Heart Failure Is a Malignant Process : But We Can Induce Remission. *J. Am. Heart Assoc.* 12 : 1–13.
- Crosier, R., Austin, P.C., Ko, D.T., Lawler, P.R., Stukel, T.A., Farkouh, M.E., *et al.* (2021). Intensity of Guideline-Directed Medical Therapy for Coronary Heart Disease and Ischemic Heart Failure Outcomes. *Am. J. Med.* 134 : 672-681.e4.
- Damman, K., Voors, A.A., Navis, G., Van Veldhuisen, D.J., & Hillege, H.L. (2012). Current and novel renal biomarkers in heart failure. *Heart Fail. Rev.* 17 : 241–250.
- Desiree, W., Eleni, M., Maria, B., Nikola, K., Matthias, D., M, G.D., *et al.* (2020). Mortality prediction in acute heart failure : scores or biomarkers ? *Swiss Med Wkly* 150 : 1–13.
- Espersen, C., Campbell, R.T., Claggett, B.L., Lewis, E.F., Docherty, K.F., Lee, M.M.Y., *et al.* (2024). Predictors of heart failure readmission and all-cause mortality in patients with acute heart failure. *Int. J. Cardiol.* 406 : 1–7.
- Falconi, C.A., Junho, C.V. da C., Fogaça-Ruiz, F., Vernier, I.C.S., da Cunha, R.S., Stingham, A.E.M., *et al.* (2021). Uremic Toxins: An Alarming Danger Concerning the Cardiovascular System. *Front. Physiol.* 12 : 1–20.
- Grand, J., Miger, K., Sajadieh, A., Køber, L., Maggioni, A. Pietro, Teerlink, J.R., *et al.* (2021). Systolic Blood Pressure and Outcome in Patients Admitted With Acute Heart Failure : An Analysis of Individual Patient Data From 4 Randomized Clinical Trials. *J. Am. Heart Assoc.* 10 : 1–18.
- Han, S.W., & Ryu, K.H. (2011). Renal dysfunction in acute heart failure. *Korean Circ. J.* 41 : 565–574.
- Hendrata, C., & Lefrandt, R.L. (2013). Anemia Pada Gagal Jantung. *J. Biomedik* 2 : 133–139.
- Hermawan, I.K.H., Kawilarang, K.C., & Hartono, F. (2022). Clinical Characteristics and Profile of Heart Failure Patients at dr. Ramelan Navy Hospital in 2020. *Cardiovasc. Cardiometabolic J.* 1 : 9–14.
- Higgins, C. (2016). Urea and creatinine concentration , the urea : creatinine ratio. *Radiom. Med.* 1–8.
- Ide, T., Kaku, H., Matsushima, S., Tohyama, T., Enzan, N., Funakoshi, K., *et al.* (2021). Clinical Characteristics and Outcomes of Hospitalized Patients With Heart Failure From the Large-Scale Japanese Registry Of Acute Decompensated Heart Failure (JROADHF). *Circ. J.* 1–13.
- Ilmasari, D. (2024). Systemic Immune-Inflammation Index as A Predictor of Mortality and Rehospitalization in Heart Failure Patients. *ACI (Acta Cardiol. Indones.* 10 : 37–48.
- John, K.J., Turaka, V.P., Muruga Bharathy, K., Vignesh Kumar, C., Jayaseelan, L., Visalakshi, J., *et al.* (2020). Predictors of mortality, strategies to reduce

- readmission, and economic impact of acute decompensated heart failure: Results of the Vellore Heart Failure Registry. *Indian Heart J.* 72 : 20–26.
- Josa-Laorden, C., Sola, A., Giménez-López, I., Rubio-Gracia, J., Garcés-Horna, V., & Pérez-Calvo, J.I. (2018). Prognostic value of the urea:creatinine ratio in decompensated heart failure and its relationship with acute kidney damage. *Rev. Clínica Española (English Ed.)* 218 : 232–240.
- Kang, Y., Wang, C., Niu, X., Shi, Z., Li, M., & Tian, J. (2023). Relationship between BUN/Cr and Prognosis of HF Across the Full Spectrum of Ejection Fraction. *Arq. Bras. Cardiol.* 120 : 1–9.
- Kazory, A. (2010). Emergence of blood urea nitrogen as a biomarker of neurohormonal activation in heart failure. *Am. J. Cardiol.* 106 : 694–700.
- Kenneally, L.F., Lorenzo, M., Romero-González, G., Cobo, M., Núñez, G., Górriz, J.L., *et al.* (2023). Kidney function changes in acute heart failure: a practical approach to interpretation and management. *Clin. Kidney J.* 16 : 1587–1599.
- Kim, H.J., & Jo, S.H. (2024). Effect of low blood pressure on prognosis of acute heart failure. *Sci. Rep.* 14 : 1–8.
- Kim, S.-E., Cho, D.-H., Son, J.-W., Kim, J.Y., Kang, S.-M., Cho, M.-C., *et al.* (2022). Impact of NT-proBNP on prognosis of acute decompensated chronic heart failure versus de novo heart failure. *Int. J. Cardiol.* 363 : 163–170.
- Krittayaphong, R., Laothavorn, P., Hengrussamee, K., Sanguanwong, S., Kunjana-Na-Ayudhya, R., Rattanasumawong, K., *et al.* (2020). Ten-year survival and factors associated with increased mortality in patients admitted for acute decompensated heart failure in Thailand. *Singapore Med. J.* 61 : 320–326.
- Lam, C.S.P., Li, Y.H., Bayes-Genis, A., Ariyachaipanich, A., Huang, D.Q., Sato, N., *et al.* (2019). The role of N-terminal pro-B-type natriuretic peptide in prognostic evaluation of heart failure. *J. Chinese Med. Assoc.* 82 : 447–451.
- Lazzarini, V., Mentz, R.J., Fiuzat, M., Metra, M., & O'Connor, C.M. (2013). Heart failure in elderly patients: Distinctive features and unresolved issues. *Eur. J. Heart Fail.* 15 : 717–723.
- Lee, J.Z., & Cha, Y.M. (2021). Atrial fibrillation and heart failure: A contemporary review of current management approaches. *Hear. Rhythm O2* 2 : 762–770.
- Lee, K.S., Park, D.I., Lee, J., Oh, O., Kim, N., & Nam, G. (2023). Relationship between comorbidity and health outcomes in patients with heart failure: a systematic review and meta-analysis. *BMC Cardiovasc. Disord.* 23 : 1–16.
- Li, L., Zhang, Z., Xiong, Y., Hu, Z., Liu, S., Tu, B., *et al.* (2022). Relationship Between Initial Urine Output and Mortality in Patients Hospitalized in Cardiovascular Intensive Care Units: More Is Not Better. *Front. Cardiovasc. Med.* 9 : 1–11.
- Li, Z., Cai, L., Liang, X., Du, Z., Chen, Y., An, S., *et al.* (2014). Identification and Predicting Short-Term Prognosis of Early Cardiorenal Syndrome Type 1 : KDIGO Is Superior to RIFLE or. *PLoS One* 9 : 1–14.
- Lindenfeld, J.A., & Schrier, R.W. (2011). Blood Urea Nitrogen: A Marker for Adverse Effects of Loop Diuretics? *J. Am. Coll. Cardiol.* 58 : 383–385.
- Liu, Q., Wang, Y., Chen, Z., Guo, X., & Lv, Y. (2021). Age- and sex-specific reference intervals for blood urea nitrogen in Chinese general population. *Sci. Rep.* 11 : 1–8.

- Magnusson, B., Näykki, T., Hovind, H., Krysell, M., & Sahlin, E. (2017). Handbook for Calculation of Measurement Uncertainty in Environmental Laboratories, Nordtest Report TR 537, in: *Nordtest Report TR 537 (Ed. 4) 2017*. p. 51.
- Makris, K. (2018). The role of the clinical laboratory in the detection and monitoring of acute kidney injury. *J. Lab. Precis. Med.* 3 : 1–22.
- Manzoor, H., & Bhatt, H. (2025). Prerenal Kidney Failure, StatPearls. Treasure Island : StatPearls Publishing LLC.
- Martinello, F., Snoj, N., Skitek, M., & Jerin, A. (2020). The top-down approach to measurement uncertainty: Which formula should we use in laboratory medicine? *Biochem. Medica* 30 : 1–9.
- Masella, C., Viggiano, D., Molfino, I., Zacchia, M., Capolongo, G., Anastasio, P., et al. (2019). Diuretic Resistance in Cardio-Nephrology: Role of Pharmacokinetics, Hypochloremia, and Kidney Remodeling. *Kidney Blood Press. Res.* 44 : 915–927.
- Matsue, Y., Van Der Meer, P., Damman, K., Metra, M., O'Connor, C.M., Ponikowski, P., et al. (2017). Blood urea nitrogen-to-creatinine ratio in the general population and in patients with acute heart failure. *Heart* 103 : 407–413.
- McDonagh, T.A., Metra, M., Adamo, M., Baumbach, A., Böhm, M., Burri, H., et al. (2021). 2021 ESC Guidelines for the diagnosis and treatment of acute and chronic heart failure. *Eur. Heart J.* 42 : 3599–3726.
- McPherson, R.A., & Pincus, M.R. (2022). Evaluation of Renal Function, Water, Electrolytes, and Acid-Base Balance, in: Oh, M.S., Briefel, G., & Pincus, M.R. (Eds.), *Henry's Clinical Diagnosis and Management by Laboratory Methods: Twenty-Fourth Edition*. pp. 182–207, Philadelphia : Elsevier.
- Meireles, M.A., Goncalves, J., & Neves, J. (2020). Acute heart failure Comorbidome: The impact of everything else. *Acta Med. Port.* 33 : 109–115.
- Migone de Amicis, M., Chivite, D., Corbella, X., Cappellini, M.D., & Formiga, F. (2017). Anemia is a mortality prognostic factor in patients initially hospitalized for acute heart failure. *Intern. Emerg. Med.* 12 : 749–756.
- Milinkovic, N., Ignjatovic, S., Sumarac, Z., & Majkic-Singh, N. (2018). Uncertainty of measurement in laboratory medicine. *J. Med. Biochem.* 37 : 279–288.
- Mitani, H., Funakubo, M., Sato, N., Yoshida, S., Ishii, T., & Oyama, N. (2020). In-hospital resource utilization , worsening heart failure , and factors associated with length of hospital stay in patients with hospitalized heart failure : A Japanese database cohort study. *J. Cardiol.* 76 : 342–349.
- Moore, J.F., & Sharer, J.D. (2017). Methods for quantitative creatinine determination. *Curr. Protoc. Hum. Genet.* 2017 : A.30.1-A.30.7.
- Mumpuni, H., Adhi Kusumastuti, D., Purnasidha Bagaswoto, H., & Yuli Setianto, B. (2020). Epidemiology, Aetiology and Risk Profile of Heart Failure in a Tertiary Referral Hospital: a Report from the Sardjito Heart Failure Registry. *ACI (Acta Cardiol. Indones.* 7 : 7–12.
- Murata, A., Kasai, T., Matsue, Y., Matsumoto, H., Yatsu, S., Kato, T., et al. (2018). Relationship between blood urea nitrogen-to-creatinine ratio at hospital

- admission and long-term mortality in patients with acute decompensated heart failure. *Heart Vessels* 33 : 877–885.
- Nogueira, J.B. (2017). Serum sodium levels and blood pressure monitoring in heart failure: Added diagnostic and prognostic value. *Port. J. Cardiol.* 36 : 521–523.
- Okayama, D., Suzuki, T., Shiga, T., Minami, Y., Tsuruoka, S., & Hagiwara, N. (2015). Blood Urea Nitrogen/Creatinine Ratio and Response to Tolvaptan in Patients with Decompensated Heart Failure: A Retrospective Analysis. *Am. J. Cardiovasc. Drugs* 15 : 289–293.
- Otto, C.M. (2017). Heartbeat:Blood urea nitrogen to creatinine ratio predicts outcome in acute heart failure. *Heart* 103 : 399–401.
- Pan, J., Liu, M., Huang, J., Chen, L., & Xu, Y. (2024). Impact of anemia on clinical outcomes in patients with acute heart failure: A systematic review and meta-analysis. *Clin. Cardiol.* 47 : 1–10.
- Parissis, J., Farmakis, D., Kadoglou, N., Ikonomidis, I., Fountoulaki, E., Hatziagelaki, E., *et al.* (2016). Body mass index in acute heart failure: Association with clinical profile, therapeutic management and in-hospital outcome. *Eur. J. Heart Fail.* 18 : 298–305.
- Parvez, M.S., Rahman, M.A., Lita, A.I., Hossain, S., & Ahmed, M.U. (2021). Clinical Impact of Worsening Renal Function in Patients with Acute Decompensated Heart Failure. *J. Curr. Med. Res. Opin.* 04 : 983–994.
- Powell-Wiley, T.M., Poirier, P., Burke, L.E., Després, J.-P., Gordon-Larsen, P., Lavie, C.J., *et al.* (2021). Obesity and Cardiovascular Disease. *Circulation* 143 : e984–e1010.
- Reina-Couto, M., Pereira-Terra, P., Quelhas-Santos, J., Silva-Pereira, C., Albino-Teixeira, A., & Sousa, T. (2021). Inflammation in Human Heart Failure: Major Mediators and Therapeutic Targets. *Front. Physiol.* 12 : 1–25.
- Ren, X., Qu, W., Zhang, L., Liu, M., Gao, X., Gao, Y., *et al.* (2018). Role of blood urea nitrogen in predicting the post-discharge prognosis in elderly patients with acute decompensated heart failure. *Sci. Rep.* 8 : 1–7.
- Rewiuk, K., & Grodzicki, T. (2019). Heart Failure in Older Patients. *Encycl. Biomed. Gerontol. Vol. 1-3* 2 : V2-223-V2-227.
- Reyes, E.B., Ha, J.W., Firdaus, I., Ghazi, A.M., Phrommintikul, A., Sim, D., *et al.* (2016). Heart failure across Asia: Same healthcare burden but differences in organization of care. *Int. J. Cardiol.* 223 : 163–167.
- Ronco, C., McCullough, P., Anker, S.D., Anand, I., Aspromonte, N., Bagshaw, S.M., *et al.* (2010). Cardio-renal syndromes: Report from the consensus conference of the acute dialysis quality initiative. *Eur. Heart J.* 31 : 703–711.
- Ru, S.C., Lv, S. Bin, & Li, Z.J. (2023). Incidence, mortality, and predictors of acute kidney injury in patients with heart failure: a systematic review. *ESC Hear. Fail.* 10 : 3237–3249.
- Ruocco, G., Palazzuoli, A., & Maaten, J.M. ter (2020). The role of the kidney in acute and chronic heart failure. *Heart Fail. Rev.* 25 : 107–118.
- Sakr, A.R.M., Gomaa, G.F.E., Wasif, S.M. El, & Eladawy, A.H.H. (2023). The prognostic role of urea-to-creatinine ratio in patients with acute heart failure syndrome: a case–control study. *Egypt. Hear. J.* 75.
- Sarijaloo, F.B., Park, J., Zhong, X., & Wokhlu, A. (2021). Predicting 90 day acute

- heart failure readmission and death using machine learning-supported decision analysis. *Clin. Cardiol.* 44 : 230–237.
- Savarese, G., & Lund, L.H. (2017). Global Public Health Burden of Heart Failure. *Card. Fail. Rev.* 03 : 7.
- Schefold, J.C., Lainscak, M., Hodosek, L.M., Blöchlinger, S., Doehner, W., & von Haehling, S. (2015). Single baseline serum creatinine measurements predict mortality in critically ill patients hospitalized for acute heart failure. *ESC Hear. Fail.* 2 : 122–128.
- Schwinger, R.H.G. (2021). Pathophysiology of heart failure. *Cardiovasc. Diagn. Ther.* 11 : 263–276.
- Shah, R., Gayat, E., Januzzi Jr., J.L., Sato, N., Cohen-Solal, A., DiSomma, S., *et al.* (2014). Body Mass Index and Mortality in Acutely Decompensated Heart Failure Across the World. *J. Am. Coll. Cardiol.* 63 : 778–785.
- Siswanto, B.B., Radi, B., Kalim, H., Santoso, A., Suryawan, R., Erwinanto, *et al.* (2010). Heart Failure in NCVC Jakarta and 5 hospitals in Indonesia. *CVD Prev. Control* 5 : 35–38.
- Sithu Win, MD, M., Imad Hussain, M., Virginia B. Hebl, MD, M., & Shannon M. Dunlay, MD, MSMargaret M. Redfield, M. (2017). Inpatient Mortality Risk Scores and Postdischarge Events in Hospitalized Heart Failure Patients. *Circ Hear. Fail.* 10 : 1–12.
- Son, M.K., Park, J.J., Lim, N.K., Kim, W.H., & Choi, D.J. (2020). Impact of atrial fibrillation in patients with heart failure and reduced, mid-range or preserved ejection fraction. *Heart* 106 : 1160–1168.
- Son, Y.J., & Lee, H.J. (2020). Association between persistent smoking after a diagnosis of heart failure and adverse health outcomes: A systematic review and meta-analysis. *Tob. Induc. Dis.* 18 : 1–11.
- Sood, M.M., Saeed, M., Lim, V., Cordova, F., Komenda, P., Malik, A., *et al.* (2015). The urea-to-creatinine ratio is predictive of worsening kidney function in ambulatory heart failure patients. *J. Card. Fail.* 21 : 412–418.
- Soufi, M.K., Almahmoud, M.F., Kadri, A.N., Dang, A., Jain, R.R., McFarland, J.R., *et al.* (2023). Heart Failure With Stable Mildly-reduced Ejection Fraction: Prognosis and Predictors of Outcomes. *Curr. Probl. Cardiol.* 48 : 1–20.
- Suganya, Shanmuga Priya, R., Rajini Samuel, T., & Rajagopalan, B. (2016). A study to evaluate the role of Bun/creatinine ratio as a discriminator factor in azotemia. *Int. J. Pharm. Sci. Rev. Res.* 40 : 131–134.
- Tamayo-Gutierrez, A., & Ibrahim, H.N. (2022). The Kidney in Heart Failure: The Role of Venous Congestion. *Methodist Debakey Cardiovasc. J.* 18 : 4–10.
- Tandel, S., Mishra, A., Jain, S., Sharma, V., Kanabar, K., Vyas, P., *et al.* (2023). Impact of Acute Kidney Injury in Patients with Acute Decompensated Heart Failure: Cardiorenal Syndrome. *Indones. J. Cardiol.* 44 : 75–86.
- Tanimoto, S., Nakashima, A., Kato, K., Kobayashi, A., Kawai, R., Shibata, Y., *et al.* (2025). Impact of blood urea nitrogen to creatinine ratio on infectious events, cardiovascular events, and all-cause mortality in patients with hemodialysis: a retrospective cohort study. *Ren. Replace. Ther.* 11 : 1–8.
- Taylor, C.J., & Hobbs, F.D.R. (2013). Heart failure therapy in patients with coronary artery disease. *Curr. Opin. Pharmacol.* 13 : 205–209.

- Theodorsson, E., Magnusson, B., & Leito, I. (2014). Bias in clinical chemistry. *Bioanalysis* 6 : 2855–2875.
- Thomas, D., Zachariah, S., Elamin, A.E.E., & Hashim, A.L.O. (2017). Limitations of serum creatinine as a marker of renal function. *Sch. Acad. J. Pharm.* 6 : 168–170.
- Tolomeo, P., Butt, J.H., Kondo, T., Campo, G., Desai, A.S., Jhund, P.S., *et al.* (2024). Independent prognostic importance of blood urea nitrogen to creatinine ratio in heart failure. *Eur. J. Heart Fail.* 26 : 245–256.
- Uchino, S., Bellomo, R., & Goldsmith, D. (2012). The meaning of the blood urea nitrogen/creatinine ratio in acute kidney injury. *Clin. Kidney J.* 5 : 187–191.
- Urso, C., Brucculeri, S., & Caimi, G. (2015). Acid–base and electrolyte abnormalities in heart failure: pathophysiology and implications. *Heart Fail. Rev.* 20 : 493–503.
- Vidan, M.T., Bueno, H., Wang, Y., Schreiner, G., Ross, J.S., Chen, J., *et al.* (2010). The relationship between systolic blood pressure on admission and mortality in older patients with heart failure. *Eur. J. Hear. Fail.* 12 : 148–155.
- Wang, Y., Xu, X., Shi, S., Gao, X., Li, Y., Wu, H., *et al.* (2023). Blood urea nitrogen to creatinine ratio and long-term survival in patients with chronic heart failure. *Eur. J. Med. Res.* 28 : 1–7.
- Weller, J., Gutton, J., Hocquet, G., Pellet, L., Aroulanda, M., Bruandet, A., *et al.* (2025). Prediction of 90 day mortality in elderly patients with acute HF from e-health records using artificial intelligence. *ESC Hear. Fail.* 12 : 2200–2209.
- Xue, Y., Daniels, L.B., Maisel, A.S., & Iqbal, N. (2014). Cardiac Biomarkers, Reference Module in Biomedical Sciences. San Diego : Elsevier Third Edit. ed., pp. 1-10.
- Yang, L., & Bonventre, J. V. (2010). Diagnosis and Clinical Evaluation of Acute Kidney Injury, Fourth Edition, Comprehensive Clinical Nephrology: Fourth Edition. Elsevier Inc. pp. 821-829.
- Yano, M., Nishino, M., Ukita, K., Kawamura, A., Nakamura, H., Matsuhira, Y., *et al.* (2022). Clinical impact of blood urea nitrogen, regardless of renal function, in heart failure with preserved ejection fraction. *Int. J. Cardiol.* 363 : 94–101.
- Yin, X., Wang, Y., Jiang, J., Zhong, F., & Zhang, Q. (2024). Association of blood urea nitrogen to creatinine ratio with incident type 2 diabetes mellitus: A retrospective cohort study in the Chinese population. *Medicine (Baltimore)*. 103 : e39003.
- Yoo, B.S., Park, J.J., Choi, D.J., Kang, S.M., Hwang, J.J., Lin, S.J., *et al.* (2015). Prognostic value of hyponatremia in heart failure patients: An analysis of the clinical characteristics and outcomes in the relation with serum sodium level in Asian patients hospitalized for heart failure (COAST) study. *Korean J. Intern. Med.* 30 : 460–470.
- Zheng, J., Heidenreich, P.A., Kohsaka, S., Fearon, W.F., & Sandhu, A.T. (2023). Long-Term Outcomes of Early Coronary Artery Disease Testing after New-Onset Heart Failure. *Circ. Hear. Fail.* 16 : 1–21.