

DAFTAR PUSTAKA

1. McDonagh TA, Metra M, Adamo M, Gardner RS, Baumbach A, Böhm M, et al. 2021 ESC Guidelines for the diagnosis and treatment of acute and chronic heart failure: Developed by the Task Force for the diagnosis and treatment of acute and chronic heart failure of the European Society of Cardiology (ESC) With the special contribution of the Heart Failure Association (HFA) of the ESC. *European heart journal*. 2021;42(36):3599-726.
2. Njoroge JN, Teerlink JR. Pathophysiology and therapeutic approaches to acute decompensated heart failure. *Circulation research*. 2021;128(10):1468-86.
3. Tubaro M, Vranckx P, Price S, Vrints C, Bonnefoy E. The ESC textbook of intensive and acute cardiovascular care: Oxford University Press; 2021.
4. Niluh CE, Rampengan SH, Jim EL. Gambaran penyakit jantung koroner pada pasien gagal jantung yang menjalani rawat inap di RSUP Prof. Dr. RD Kandou Manado periode September-November 2016. *e-CliniC*. 2016;4(2).
5. Kobayashi M, Girerd N, Duarte K, Chouihed T, Chikamori T, Pitt B, et al. Estimated plasma volume status in heart failure: clinical implications and future directions. *Clinical Research in Cardiology*. 2021:1-14.
6. Kobayashi M, Huttin O, Donal E, Duarte K, Hubert A, Le Breton H, et al. Association of estimated plasma volume status with hemodynamic and echocardiographic parameters. *Clinical Research in Cardiology*. 2020;109:1060-9.
7. Yang X, Zhang F, Zhan Y, Liu Z, Wang W, Shi J. Association between estimated plasma volume status and acute kidney injury in patients who underwent coronary revascularization: A retrospective cohort study from the MIMIC-IV database. *Plos one*. 2024;19(6):e0300656.
8. Grigore A-M, Grigore M, Balahura A-M, Uscoiu G, Verde I, Nicolae C, et al. The Role of the Estimated Plasma Volume Variation in Assessing Decongestion in Patients with Acute Decompensated Heart Failure. *Biomedicines*. 2025;13(1):88.

9. Almufleh A, Desai AS, Fay R, Ferreira JP, Buckley LF, Mehra MR, et al. Correlation of laboratory haemoconcentration measures with filling pressures obtained via pulmonary arterial pressure sensors in ambulatory heart failure patients. *European Journal of Heart Failure*. 2020;22(10):1907-11.
10. Tsutsui H, Albert NM, Coats AJ, Anker SD, Bayes-Genis A, Butler J, et al. Natriuretic peptides: role in the diagnosis and management of heart failure: a scientific statement from the Heart Failure Association of the European Society of Cardiology, Heart Failure Society of America and Japanese Heart Failure Society. *Journal of Cardiac Failure*. 2023;29(5):787-804.
11. Savarese G, Trimarco B, Dellegrottaglie S, Prastaro M, Gambardella F, Rengo G, et al. Natriuretic peptide-guided therapy in chronic heart failure: a meta-analysis of 2,686 patients in 12 randomized trials. *PloS one*. 2013;8(3):e58287.
12. Kobayashi M, Rossignol P, Ferreira JP, Aragão I, Paku Y, Iwasaki Y, et al. Prognostic value of estimated plasma volume in acute heart failure in three cohort studies. *Clinical Research in Cardiology*. 2019;108:549-61.
13. McDonagh TA, Metra M, Adamo M, Gardner RS, Baumbach A, Böhm M, et al. Corrigendum to: 2021 ESC Guidelines for the diagnosis and treatment of acute and chronic heart failure: Developed by the Task Force for the diagnosis and treatment of acute and chronic heart failure of the European Society of Cardiology (ESC) With the special contribution of the Heart Failure Association (HFA) of the ESC. *European Heart Journal*. 2021;42(48):4901-.
14. Tromp J, Bamadhaj S, Cleland JG, Angermann CE, Dahlstrom U, Ouwerkerk W, et al. Post-discharge prognosis of patients admitted to hospital for heart failure by world region, and national level of income and income disparity (REPORT-HF): a cohort study. *The Lancet Global Health*. 2020;8(3):e411-e22.
15. Libby P, Bonow RO, Mann DL, Tomaselli GF, Bhatt DL, Solomon SD, et al. Braunwald's Heart Disease: A Textbook of Cardiovascular Medicine: 2 Vol Set. 2021.
16. Kumric M, Kurir TT, Bozic J, Slujo AB, Glavas D, Miric D, et al. Pathophysiology of Congestion in Heart Failure: A Contemporary Review. *Cardiac failure review*. 2024;10:e13.

17. Núñez J, de la Espriella R, Rossignol P, Voors AA, Mullens W, Metra M, et al. Congestion in heart failure: a circulating biomarker-based perspective. A review from the Biomarkers Working Group of the Heart Failure Association, European Society of Cardiology. *European journal of heart failure*. 2022;24(10):1751-66.
18. Mocan D, Lala RI, Puschita M, Pilat L, Darabantiu DA, Pop-Moldovan A. The Congestion “Pandemic” in Acute Heart Failure Patients. *Biomedicines*. 2024;12(5):951.
19. Farmakis D, Parissis J, Filippatos G. Acute heart failure: epidemiology, classification, and pathophysiology. *The ESC textbook of intensive and acute cardiovascular care*, 2nd ed Oxford. 2015:459-69.
20. Miller W. Fluid volume homeostasis in heart failure: a tale of 2 circulations. *J Am Heart Assoc* 11: e026668. 2022.
21. Girerd N, Seronde M-F, Coiro S, Chouihed T, Bilbault P, Braun F, et al. Integrative assessment of congestion in heart failure throughout the patient journey. *JACC: Heart Failure*. 2018;6(4):273-85.
22. Bouabdallaoui N, Beaubien-Souligny W, Oussaïd E, Henri C, Racine N, Denault AY, et al. Assessing splanchnic compartment using portal venous Doppler and impact of adding it to the EVEREST score for risk assessment in heart failure. *CJC open*. 2020;2(5):311-20.
23. Pellicori P, Platz E, Dauw J, Ter Maaten JM, Martens P, Pivetta E, et al. Ultrasound imaging of congestion in heart failure: examinations beyond the heart. *European journal of heart failure*. 2021;23(5):703-12.
24. Naddaf N, Dianati Maleki N, Goldschmidt ME, Kalogeropoulos AP. Point of care ultrasound (POCUS) in the management of heart failure: a narrative review. *Journal of Personalized Medicine*. 2024;14(7):766.
25. Killu K, Coba V, Blyden D, Munie S, Dereczyk D, Kandagatla P, et al. Sonographic assessment of intravascular fluid estimate (SAFE) score by using bedside ultrasound in the intensive care unit. *Critical Care Research and Practice*. 2020;2020(1):9719751.
26. Manzone TA, Dam HQ, Soltis D, Sagar VV. Blood volume analysis: a new technique and new clinical interest reinvigorate a classic study. *Journal of nuclear medicine technology*. 2007;35(2):55-63.

27. Miyoshi T. Estimated plasma volume status as a prognostic marker in patients with lower extremity artery disease. *Hypertension Research*. 2023;46(10):2412-4.
28. Biegus J, Borlaug BA, Testani JM. Congestion and decongestion assessment in heart failure: Pressure, volume, or both? : American College of Cardiology Foundation Washington DC; 2023. p. 1152-6.
29. Rossignol P, Masson S, Barlera S, Girerd N, Castelnovo A, Zannad F, et al. Loss in body weight is an independent prognostic factor for mortality in chronic heart failure: insights from the GISSI-HF and Val-HeFT trials. *European Journal of Heart Failure*. 2015;17(4):424-33.
30. Ling HZ, Flint J, Damgaard M, Bonfils PK, Cheng AS, Aggarwal S, et al. Calculated plasma volume status and prognosis in chronic heart failure. *European journal of heart failure*. 2015;17(1):35-43.
31. Grodin JL, Philips S, Mullens W, Nijst P, Martens P, Fang JC, et al. Prognostic implications of plasma volume status estimates in heart failure with preserved ejection fraction: insights from TOPCAT. *European journal of heart failure*. 2019;21(5):634-42.
32. Hayasaka K, Matsue Y, Kitai T, Okumura T, Kida K, Oishi S, et al. Tricuspid regurgitation pressure gradient identifies prognostically relevant worsening renal function in acute heart failure. *European Heart Journal-Cardiovascular Imaging*. 2021;22(2):203-9.
33. Nadar SK, Shaikh MM. Biomarkers in routine heart failure clinical care. *Cardiac failure review*. 2019;5(1):50.
34. Cao Z, Jia Y, Zhu B. BNP and NT-proBNP as diagnostic biomarkers for cardiac dysfunction in both clinical and forensic medicine. *International journal of molecular sciences*. 2019;20(8):1820.
35. Emdin M, Aimo A, Castiglione V, Vergaro G, Georgiopoulos G, Saccaro LF, et al. Targeting cyclic guanosine monophosphate to treat heart failure: JACC review topic of the week. *Journal of the American College of Cardiology*. 2020;76(15):1795-807.
36. Staszewsky L, Meessen J, Novelli D, Wienhues-Thelen U, Disertori M, Maggioni AP, et al. Total NT-proBNP, a novel biomarker in atrial fibrillation.

- A mechanistic analysis of the GISSI-AF trial. medRxiv. 2020:2020.11.10.20222349.
37. Chouairi F, Pacor J, Miller PE, Fuery MA, Caraballo C, Sen S, et al. Effects of atrial fibrillation on heart failure outcomes and NT-proBNP levels in the GUIDE-IT trial. *Mayo Clinic Proceedings: Innovations, Quality & Outcomes*. 2021;5(2):447-55.
 38. Santema BT, Chan MM, Tromp J, Dokter M, van Der Wal HH, Emmens JE, et al. The influence of atrial fibrillation on the levels of NT-proBNP versus GDF-15 in patients with heart failure. *Clinical Research in Cardiology*. 2020;109:331-8.
 39. Reinmann M, Meyer P. B-type natriuretic peptide and obesity in heart failure: a mysterious but important association in clinical practice. *Cardiovascular Medicine*. 2020.
 40. Rørth R, Jhund PS, Yilmaz MB, Kristensen SL, Welsh P, Desai AS, et al. Comparison of BNP and NT-proBNP in patients with heart failure and reduced ejection fraction. *Circulation: Heart Failure*. 2020;13(2):e006541.
 41. Yancy CW, Jessup M, Bozkurt B, Butler J, Casey Jr DE, Colvin MM, et al. 2017 ACC/AHA/HFSA focused update of the 2013 ACCF/AHA guideline for the management of heart failure: a report of the American College of Cardiology/American Heart Association Task Force on Clinical Practice Guidelines and the Heart Failure Society of America. *Journal of the American college of cardiology*. 2017;70(6):776-803.
 42. Magalhães J, Soares F, Noya M, Neimann G, Andrade L, Correia L. NT-ProBNP at admission versus NT-ProBNP at discharge as a prognostic predictor in acute decompensated heart failure. *International Journal of Cardiovascular Sciences*. 2017;30(6):469-75.
 43. Boesing M, Bierreth F, Abig K, Giezendanner S, Leuppi-Taegtmeyer AB, Lüthi-Corridori G, et al. Effects of serial NT-proBNP measurements in patients with acute decompensated heart failure: Results of the POC-HF pilot trial. *Global Cardiology Science & Practice*. 2024;2024(4):e202431.

44. Ilieșiu AM, Hodorogea AS, Balahura A-M, Bădilă E. Non-invasive assessment of congestion by cardiovascular and pulmonary ultrasound and biomarkers in heart failure. *Diagnostics*. 2022;12(4):962.
45. Khan MS, Felker GM, Fudim M. Are we getting any closer to understanding congestion? : American College of Cardiology Foundation Washington DC; 2022. p. 633-6.
46. Parlati ALM, Madaudo C, Nuzzi V, Manca P, Gentile P, Di Lisi D, et al. Biomarkers for Congestion in Heart Failure: State-of-the-art and Future Directions. *Cardiac failure review*. 2025;11:e01.
47. Waranugraha Y, Rohman MS, Anjarwani S. Hemodynamic congestion at hospital discharge predicts rehospitalization during short term follow up in acute heart failure patients. *Indonesian Journal of Cardiology*. 2019;40(3).
48. Khan SS, Beach LB, Yancy CW. Sex-based differences in heart failure: JACC Focus Seminar 7/7. *Journal of the American College of Cardiology*. 2022;79(15):1530-41.
49. Kirsch H, Hashemzadeh M, Movahed MR. Age-adjusted trends in the diastolic and systolic heart failure in the United States over recent years based on race and gender with higher trends in Men and African Americans. *medRxiv*. 2025:2025.08.01.25332699.
50. Tromp J, Ouwerkerk W, Cleland JG, Angermann CE, Dahlstrom U, Tiew-Hwa Teng K, et al. Global differences in burden and treatment of ischemic heart disease in acute heart failure: REPORT-HF. *Heart Failure*. 2021;9(5):349-59.
51. Al-Jarallah M, Rajan R, Heshmat H, Al-Zakwani I, Dashti R, Bulbanat B, et al. Comparison of demographics and outcomes of acute heart failure patients with reduced, mid-range, and preserved ejection fraction. *Annals of Clinical Cardiology*. 2020;2(2):86-94.
52. Alalawi H, Fida HL, Bokhary OA, Alhuzali MA, Alharbi AF, Alhodian FY, et al. Demographics and characteristics of acutely decompensated heart failure (ADHF) patients in a Tertiary Care Center in Saudi Arabia. *Cureus*. 2023;15(3).
53. Polovina M, Tomić M, Viduljević M, Zlatić N, Stojićević A, Civrić D, et al. Predictors and prognostic implications of hospital-acquired pneumonia in

- patients admitted for acute heart failure. *Frontiers in Cardiovascular Medicine*. 2023;10:1254306.
54. Dokoupil J, Hřečko J, Čermáková E, Adamcova M, Pudil R. Characteristics and outcomes of patients admitted for acute heart failure in a single-centre study. *ESC Heart Failure*. 2022;9(4):2249-58.
55. Virdis A. *Hypertension and comorbidities*: Springer; 2016.
56. Gentile F, Chianca M, Bazan L, Sciarrone P, Chubuchny V, Taddei C, et al. Incremental prognostic value of echocardiography measures of right ventricular systolic function in patients with chronic heart failure. *Journal of the American Heart Association*. 2025;14(5):e038616.
57. Bok Y, Kim J-Y, Park J-H. Prognostic role of right ventricular-pulmonary artery coupling assessed by TAPSE/PASP ratio in patients with acute heart failure. *Journal of cardiovascular imaging*. 2023;31(4):200.
58. Sinha SS, Morrow DA, Kapur NK, Kataria R, Roswell RO. 2025 Concise Clinical Guidance: an ACC expert consensus statement on the evaluation and management of cardiogenic shock: a report of the American College of Cardiology Solution Set Oversight Committee. *Journal of the American College of Cardiology*. 2025;85(16):1618-41.
59. Frea S, Gravinese C, Boretto P, De Lio G, Bocchino PP, Angelini F, et al. Comprehensive non-invasive haemodynamic assessment in acute decompensated heart failure-related cardiogenic shock: a step towards echodynamics. *European Heart Journal: Acute Cardiovascular Care*. 2024;13(9):646-55.
60. Oh J, Kang S-M, Hong N, Youn J-C, Han S, Jeon E-S, et al. Hemoconcentration is a good prognostic predictor for clinical outcomes in acute heart failure: data from the Korean Heart Failure (KorHF) Registry. *International journal of cardiology*. 2013;168(5):4739-43.
61. Kitabchi AE, Umpierrez GE, Murphy MB, Kreisberg RA. Hyperglycemic crises in adult patients with diabetes: a consensus statement from the American Diabetes Association. *Diabetes care*. 2006;29(12):2739-48.
62. Pena D-L, Ilieșiu A-M, Aurelian J, Grigore M, Hodorogea A-S, Ciobanu A, et al. Assessment of Decongestion Status Before Discharge in Acute

- Decompensated Heart Failure: A Review of Clinical, Biochemical, and Imaging Tools and Their Impact on Management Decisions. *Medicina*. 2025;61(5):816.
63. Suadnyana IBSJ, Wibhuti IBR, Wiryawan IN. B-Lines Value on Lung Ultrasound and EVEREST Score Pre-Discharge as A Predictor of Rehospitalization and Total Mortality Post Hospitalization Due to Acute Heart Failure. *Lung*.4:6.
64. Gąsecka A, Siniarski A. Addressing ‘Residual Congestion’ to improve prognosis after acute heart failure decompensation. *Cardiac Failure Review*. 2025;11:e06.
65. Rubio-Gracia J, Demissei BG, Ter Maaten JM, Cleland JG, O'Connor CM, Metra M, et al. Prevalence, predictors and clinical outcome of residual congestion in acute decompensated heart failure. *International journal of cardiology*. 2018;258:185-91.
66. Uchiyama S, Toki M, Kitai T, Yoshioka K, Hayashida A, Yoshida K, et al. Dynamic changes in echocardiographic parameters in acute decompensated heart failure: REALITY-ECHO. *Journal of Cardiology*. 2024;83(4):258-64.
67. Popat A, Yadav S, Pethe G, Rehman A, Sharma P, Rezkalla S. The role of POCUS in diagnosing acute heart failure in the emergency department: A Meta-analysis. *Journal of Cardiology*. 2025.
68. Benjamin MM, Bianco C, Caccamo M, Sokos G, Kagiya N, Shrestha S, et al. Non-invasive prediction of tissue Doppler-derived E/e' ratio using lung Doppler signals. *European Heart Journal-Cardiovascular Imaging*. 2020;21(9):994-1004.