

DAFTAR PUSTAKA

1. Roffi M, Patrono C, Collet JP, Mueller C, Valgimigli M, Andreotti F, et al. 2015 ESC Guidelines for the management of acute coronary syndromes in patients presenting without persistent ST-segment elevation: Task Force for the Management of Acute Coronary Syndromes in Patients Presenting without Persistent ST-Segment Elevation of the European Society of Cardiology (ESC). *Eur Heart J*. 2016;37(3):267-315.
2. Keeley EC, Boura JA, Grines CL. Primary angioplasty versus intravenous thrombolytic therapy for acute myocardial infarction: a quantitative review of 23 randomised trials. *Lancet*. 2003;361(9351):13-20.
3. Zimarino M, Montebello E, Radico F, Gallina S, Perfetti M, Iachini Bellisarii F, et al. ST segment/heart rate hysteresis improves the diagnostic accuracy of ECG stress test for coronary artery disease in patients with left ventricular hypertrophy. *Eur J Prev Cardiol*. 2016;23(15):1632-9.
4. Gupta S, Gupta MM. No reflow phenomenon in percutaneous coronary interventions in ST-segment elevation myocardial infarction. *Indian Heart J*. 2016;68(4):539-51.
5. Zhu X, Shen H, Gao F, Wu S, Ma Q, Jia S, et al. Clinical Profile and Outcome in Patients with Coronary Slow Flow Phenomenon. *Cardiol Res Pract*. 2019;2019:9168153.
6. Marc MC, Iancu AC, Balanescu S, Dregoescu MI. Microvascular obstruction in acute myocardial infarction: an old and unsolved mystery. *Med Pharm Rep*. 2019;92(3):216-9.
7. Antzelevitch C, Burashnikov A. Overview of Basic Mechanisms of Cardiac Arrhythmia. *Card Electrophysiol Clin*. 2011;3(1):23-45.
8. Niccoli G, Scalone G, Lerman A, Crea F. Coronary microvascular obstruction in acute myocardial infarction. *Eur Heart J*. 2016;37(13):1024-33.
9. Vogelzang M, Vlaar PJ, Svilaas T, Amo D, Nijsten MW, Zijlstra F. Computer-assisted myocardial blush quantification after percutaneous coronary angioplasty for acute myocardial infarction: a substudy from the TAPAS trial. *Eur Heart J*. 2009;30(5):594-9.
10. Bendary A, El-Husseiny M, Aboul Azm T, Abdoul Moneim A. The predictive value of R-wave peak time on no-reflow in patients with ST-elevation myocardial infarction treated with a primary percutaneous coronary intervention. *Egypt Heart J*. 2018;70(4):415-9.
11. Boles U, Almontaser I, Brown A. "Ventricular activation time as a marker for diastolic dysfunction in early hypertension" *American Journal of Hypertension*; 2016.
12. O'Neal WT, Qureshi WT, Nazarian S, Kawel-Boehm N, Bluemke DA, Lima JA, et al. Electrocardiographic Time to Intrinsicoid Deflection and Heart Failure: The Multi-Ethnic Study of Atherosclerosis. *Clin Cardiol*. 2016;39(9):531-6.
13. Porto I, Hamilton-Craig C, De Maria GL, Vergallo R, Cautilli G, Galiuto L, et al. Quantitative Blush Evaluator accurately quantifies microvascular dysfunction in patients with ST-elevation myocardial infarction: comparison with cardiovascular magnetic resonance. *Am Heart J*. 2011;162(2):372-81 e2.
14. Berne. Cardiac nucleotides in hypoxia: possible role in regulation of coronary blood flow. 1963;204(2):317-22.

15. Oskarsson GJAP. Coronary flow and flow reserve in children. 2004;93:20-5.
16. Stiermaier T, Thiele H, Eitel I. Coronary Microvascular Obstruction: Key Factor in the Prognosis of ST-Segment-Elevation Myocardial Infarction. *Circ Cardiovasc Imaging*. 2017;10(6):e006568.
17. Fahri I. Korelasi Myocardial Blush Kuantitatif Terhadap Ukuran Infark Ventrikel Kiri Paska Intervensi Koroner Perkutan Primer Pada Pasien IMA-EST. 2012.
18. Van Assche LM, Bekkers SC, Senthilkumar A, Parker MA, Kim HW, Kim. The prevalence of microvascular obstruction in acute myocardial infarction: importance of ST elevation, infarct size, transmuralty and infarct age. 2011;13(1):1-2.
19. Syafri M, Darwin E, Yerizel Ejajop, Research C. The Correlation Between Troponin I Level With Corrected Thrombolysis In Myocardial Infarction Frame Count In Patients Whose Underwent Primary Percutaneous Coronary Intervention: A Single Center Study. 2020:63-6.
20. Iwakura K, Ito H, Kawano S, Okamura A, Tanaka K, Nishida Y, et al. Prediction of the no-reflow phenomenon with ultrasonic tissue characterization in patients with anterior wall acute myocardial infarction. 2004;93(11):1357-61.
21. Bekkers SC, Yazdani SK, Virmani R, Waltenberger JJotACoC. Microvascular obstruction: underlying pathophysiology and clinical diagnosis. 2010;55(16):1649-60.
22. Robbers LF, Eerenberg ES, Teunissen PF, Jansen MF, Hollander MR, Horrevoets AJ, et al. Magnetic resonance imaging-defined areas of microvascular obstruction after acute myocardial infarction represent microvascular destruction and haemorrhage. 2013;34(30):2346-53.
23. Kurtenbach S, Kurtenbach S, Zoidl G. Gap junction modulation and its implications for heart function. *Front Physiol*. 2014;5:82.
24. Tusun E, Uluganyan M, Ugur M, Karaca G, Osman F, Koroglu B, et al. ST - segment elevation of right precordial lead (V4R) is associated with multivessel disease and increased in - hospital mortality in acute anterior myocardial infarction patients. 2015;20(4):362-7.
25. Haeck JD, Gu YL, Vogelzang M, Bilodeau L, Krucoff MW, Tijssen JG, et al. Feasibility and applicability of computer-assisted myocardial blush quantification after primary percutaneous coronary intervention for ST-segment elevation myocardial infarction. *Catheter Cardiovasc Interv*. 2010;75(5):701-6.
26. Subban V, Mulasari AS. The never ending quest for an ideal angiographic surrogate of coronary reperfusion. *Indian Heart J*. 2013;65(1):7-11.
27. Klabunde R. Cardiovascular physiology concepts. Lippincott Williams & Wilkins. 2011.
28. Pérez - Riera AR, de Abreu LC, Barbosa - Barros R, Nikus KC, Baranchuk AJAONE. R - peak time: An electrocardiographic parameter with multiple clinical applications. 2016;21(1):10-9.
29. Seyis S. Effect of Coronary Slow Flow on Intrinsic Deflection of QRS Complex. *Cardiol Res Pract*. 2018;2018:2451581.
30. Monfredi O, Dobrzynski H, Mondal T, Boyett MR, Morris GM. The anatomy and physiology of the sinoatrial node--a contemporary review. *Pacing Clin Electrophysiol*. 2010;33(11):1392-406.
31. Fu DG. Cardiac Arrhythmias: Diagnosis, Symptoms, and Treatments. *Cell Biochem Biophys*. 2015;73(2):291-6.

32. Cagdas M, Karakoyun S, Rencuzogullari I, Karabag Y, Yesin M, Uluganyan M, et al. Relationship between R-wave peak time and no-reflow in ST elevation myocardial infarction treated with a primary percutaneous coronary intervention. *Coron Artery Dis.* 2017;28(4):326-31.
33. Pava LF, Perafan P, Badiel M, Arango JJ, Mont L, Morillo CA, et al. R-wave peak time at DII: a new criterion for differentiating between wide complex QRS tachycardias. *Heart Rhythm.* 2010;7(7):922-6.
34. Karabag Y, et al. The Diagnostic Predictive Value of R wave peak time in Patients with Acute Pulmonary Embolism. 2019;41.4:360-70.
35. Darouian N, Narayanan K, Aro AL, Reinier K, Uy-Evanado A, Teodorescu C, et al. Delayed intrinsicoid deflection of the QRS complex is associated with sudden cardiac arrest. *Heart Rhythm.* 2016;13(4):927-32.
36. Dahlan MS. Besar sampel dalam penelitian kedokteran dan kesehatan. Jakarta: epidemiologi indonesia; 2016.3(5):161-158
37. Perez-Riera AR, de Abreu LC, Barbosa-Barros R, Nikus KC, Baranchuk A. R-Peak Time: An Electrocardiographic Parameter with Multiple Clinical Applications. *Ann Noninvasive Electrocardiol.* 2016;21(1):10-9.
38. Sudigdo S, Sofyan IJJS. Dasar-dasar metodologi penelitian klinis. 2011.7(5):137-135
39. Ahmed F, Rahman A, Rahman MA, Chowdhury TA, Chowdhury MSH, Uddin SN, et al. Predictors of short term outcomes of primary percutaneous coronary intervention. 2018;33(2):112-20.
40. Kurisu S, Inoue I, Kawagoe T, Ishihara M, Shimatani Y, NisraoKA K, et al. Diabetes mellitus is associated with insufficient microvascular reperfusion following revascularization for anterior acute myocardial infarction. 2003;42(7):554-9.
41. Reindl M, Reinstadler SJ, Feistritzer HJ, Theurl M, Basic D, Eigler C, et al. Relation of low - density lipoprotein cholesterol with microvascular injury and clinical outcome in revascularized ST - elevation myocardial infarction. 2017;6(10):e006957.
42. Barua RS, Ambrose JAJA, thrombosis, biology v. Mechanisms of coronary thrombosis in cigarette smoke exposure. 2013;33(7):1460-7.
43. Stokes KY, Cooper D, Taylor A, Granger DNJFRB, Medicine. Hypercholesterolemia promotes inflammation and microvascular dysfunction: role of nitric oxide and superoxide. 2002;33(8):1026-36.
44. Solhpour A, Chang KW, Arain SA, Balan P, Loghin C, McCarthy JJ, et al. Ischemic time is a better predictor than door - to - balloon time for mortality and infarct size in ST - elevation myocardial infarction. 2016;87(7):1194-200.
45. Hosseiny AD, Moloi S, Chandrasekhar J, Farshid AJOh. Mortality pattern and cause of death in a long-term follow-up of patients with STEMI treated with primary PCI. 2016;3(1):e000405.
46. Ibanez B, James S, Agewall S, Antunes MJ, Bucciarelli-Ducci C, Bueno H, et al. 2017 ESC Guidelines for the management of acute myocardial infarction in patients presenting with ST-segment elevation: The Task Force for the management of acute myocardial infarction in patients presenting with ST-

segment elevation of the European Society of Cardiology (ESC). Eur Heart J. 2018;39(2):119-77.

