

REFERENCES

- Jolly SS, Cairns JA, Yusuf S, et al; TOTAL Investigators. Randomized trial of primary PCI with or without routine manual thrombectomy. *N Engl J Med*. 2015 Apr 9;372(15):1389-98. doi: 10.1056/NEJMoa1415098. Epub 2015 Mar 16. PMID: 25853743; PMCID: PMC44995102.
- Ibanez B, James S, Agewall S, et al; ESC Scientific Document Group. 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 Jan 7;39(2):119-177. doi: 10.1093/eurheartj/ehx393. PMID: 28886621.
- Sezer M, Cimen A, Aslanger E, et al. Effect of intracoronary streptokinase administered immediately after primary percutaneous coronary intervention on long-term left ventricular infarct size, volumes, and function. *J Am Coll Cardiol*. 2009 Sep 15;54(12):1065-71. doi: 10.1016/j.jacc.2009.04.083. PMID: 19744615.
- Kumar V, Sharma AK, Kumar T, et al. Large intracoronary thrombus and its management during primary PCI. *Indian Heart J*. 2020 Nov-Dec;72(6):508-516. doi: 10.1016/j.ihj.2020.11.009. Epub 2020 Nov 19. PMID: 33357638; PMCID: PMC7772595.
- Braunwald E, Zipes DP, Libby P, et al. Braunwald's Heart Disease: A Textbook of Cardiovascular Medicine, Eleventh Edition. 11th ed. Philadelphia: Elsevier Inc.; 2019. 1944 p.
- Ndrepepa G, Tiroch K, Fusaro M, et al. 5-year prognostic value of no-reflow phenomenon after percutaneous coronary intervention in patients with acute myocardial infarction. *J Am Coll Cardiol*. 2010 May 25;55(21):2383-9. doi: 10.1016/j.jacc.2009.12.054. PMID: 20488311.
- Sianos G, Papafaklis MI, Daemen J, et al. Angiographic stent thrombosis after routine use of drug-eluting stents in ST-segment elevation myocardial infarction: the importance of thrombus burden. *J Am Coll Cardiol*. 2007 Aug 14;50(7):573-83. doi: 10.1016/j.jacc.2007.04.059. Epub 2007 Jul 30. PMID: 17692740.
- Kushner FG, Hand M, Smith SC Jr, et al; American College of Cardiology Foundation/American Heart Association Task Force on Practice Guidelines. 2009 Focused Updates: ACC/AHA Guidelines for the Management of Patients With ST-Elevation Myocardial Infarction (updating the 2004 Guideline and 2007 Focused Update) and ACC/AHA/SCAI Guidelines on Percutaneous Coronary Intervention (updating the 2005 Guideline and 2007 Focused Update): a report of the American College of Cardiology Foundation/American Heart Association Task Force on Practice Guidelines. *Circulation*. 2009 Dec 1;120(22):2271-306. doi: 10.1161/CIRCULATIONAHA.109.192663. Epub 2009 Nov 18. Erratum in: *Circulation*. 2010 Mar 30;121(12):e257. Dosage error in article text. PMID: 19923169.
- Napodano M, Dariol G, Al Mamary AH, et al. Thrombus burden and myocardial damage during primary percutaneous coronary intervention. *Am J Cardiol*. 2014 May 1;113(9):1449-56. doi: 10.1016/j.amjcard.2014.01.423. Epub 2014 Feb 12. PMID: 24630783.
- Jaffe R, Dick A, Strauss BH. Prevention and treatment of microvascular obstruction-related myocardial injury and coronary no-reflow following percutaneous coronary intervention: a systematic approach. *JACC Cardiovasc Interv*. 2010 Jul;3(7):695-704. doi: 10.1016/j.jcin.2010.05.004. PMID: 20650430.
- Rezkalla SH, Stankowski RV, Hanna J, et al. Management of No-Reflow Phenomenon in the Catheterization Laboratory. *JACC Cardiovasc Interv*. 2017 Feb 13;10(3):215-223. doi: 10.1016/j.jcin.2016.11.059. Erratum in: *JACC Cardiovasc Interv*. 2017 Jun 26;10(12):1282. PMID: 28183461.
- Gibson CM, de Lemos JA, Murphy SA, et al; TIMI Study Group. Combination therapy with abciximab reduces angiographically evident thrombus in acute myocardial infarction: a TIMI 14 substudy. *Circulation*. 2001 May 29;103(21):2550-4. doi: 10.1161/01.cir.103.21.2550. PMID: 11382722.
- Topaz O, Topaz A, Owen K. Thrombus grading for coronary interventions: the role of contemporary classifications. *Interv Cardiol*. 2011 Dec;3(6):705-12. Available from: <http://www.futuremedicine.com/doi/abs/10.2217/ica.11.76>.
- De Luca G, Savonitto S, van't Hof AW, et al. Platelet GP IIb/IIIa Receptor Antagonists in Primary Angioplasty: Back to the Future. *Drugs*. 2015 Jul;75(11):1229-53. doi: 10.1007/s40265-015-0425-7. PMID: 26177890.
- Winchester DE, Wen X, Brearley WD, et al. Efficacy and safety of glycoprotein IIb/IIIa inhibitors during elective coronary revascularization: a meta-analysis of randomized trials performed in the era of stents and thienopyridines. *J Am Coll Cardiol*. 2011 Mar 8;57(10):1190-9. doi: 10.1016/j.jacc.2010.10.030. PMID: 21371635.
- Montalescot G, Zeymer U, Silvain J, et al; ATOLL Investigators. Intravenous enoxaparin or unfractionated heparin in primary percutaneous coronary intervention for ST-elevation myocardial infarction: the international randomised open-label ATOLL trial. *Lancet*. 2011 Aug 20;378(9792):693-703. doi: 10.1016/S0140-6736(11)60876-3. PMID: 21856483.
- Silvain J, Beygui F, Barthélémy O, et al. Efficacy and safety of enoxaparin versus unfractionated heparin during percutaneous coronary intervention: systematic review and meta-analysis. *BMJ*. 2012 Feb 3;344:e553. doi: 10.1136/bmj.e553. PMID: 22306479; PMCID: PMC3271999.
- Capodanno D, Gargiulo G, Capranzano P, et al. Bivalirudin versus heparin with or without glycoprotein IIb/IIIa inhibitors in patients with STEMI undergoing primary PCI: An updated meta-analysis of 10,350 patients from five randomized clinical trials. *Eur Heart J Acute Cardiovasc Care*. 2016 Jun;5(3):253-62. doi: 10.1177/2048872615572599. Epub 2015 Mar 6. PMID: 25746943.
- Alak A, Lugomirski P, Aleksova N, et al. A Meta-Analysis of Randomized Controlled Trials of Conventional Stenting Versus Direct Stenting in Patients With Acute Myocardial Infarction. *The Journal of Invasive Cardiology*. 2015 Sep;27(9):405-409. PMID: 26121706.
- Saad M, Stiermaier T, Fuernau G, et al. Impact of direct stenting on myocardial injury assessed by cardiac magnetic resonance imaging and prognosis in ST-elevation myocardial infarction. *Int J Cardiol*. 2019 May 15;283:88-92. doi: 10.1016/j.ijcard.2018.11.141. Epub 2018 Dec 3. PMID: 30573280.
- Burzotta F, De Vita M, Gu YL, et al. Clinical impact of thrombectomy in acute ST-elevation myocardial infarction: an individual patient-data pooled analysis of 11 trials. *Eur Heart J*. 2009 Sep;30(18):2193-203. doi: 10.1093/eurheartj/ehp348. Epub 2009 Sep 2. PMID: 19726437.
- Fröbert O, Lagerqvist B, Olivecrona GK, et al; TASTE Trial. Thrombus aspiration during ST-segment elevation myocardial infarction. *N Engl J Med*. 2013 Oct 24;369(17):1587-97. doi: 10.1056/NEJMoa1308789. Epub 2013 Aug 31. Erratum in: *N Engl J Med*. 2014 Aug 21;371(8):786. PMID: 23991656.
- Lagerqvist B, Fröbert O, Olivecrona GK, et al. Outcomes 1 year after thrombus aspiration for myocardial infarction. *N Engl J Med*. 2014 Sep 18;371(12):1111-20. doi: 10.1056/NEJMoa1405707. Epub 2014 Sep 1. PMID: 25176395.
- Jolly SS, Cairns JA, Yusuf S, et al. Stroke in the TOTAL trial: a randomized trial of routine thrombectomy vs. percutaneous coronary intervention alone in ST elevation myocardial infarction. *Eur Heart J*. 2015 Sep 14;36(35):2364-72. Available from: <https://academic.oup.com/eurheartj/article-lookup/doi/10.1093/eurheartj/ehv296>.
- Jolly SS, Cairns JA, Yusuf S, et al; TOTAL Investigators. Outcomes after thrombus aspiration for ST elevation myocardial infarction: 1-year follow-up of the prospective randomised TOTAL trial. *Lancet*. 2016 Jan 9;387(10014):127-35. doi: 10.1016/S0140-6736(15)00448-1. Epub 2015 Oct 22. PMID: 26474811; PMCID: PMC5007127.
- Jolly SS, James S, Džavik V, et al. Thrombus Aspiration in ST-Segment-Elevation Myocardial Infarction: An Individual Patient Meta-Analysis: Thrombectomy Trialists Collaborators. *Circulation*. 2017 Jan 10;135(2):143-152. doi: 10.1161/CIRCULATIONAHA.116.025371. Epub 2016 Dec 9. PMID: 27941066.
- Ali A, Cox D, Dib N, et al; AIMI Investigators. Rheolytic thrombectomy with percutaneous coronary intervention for infarct size reduction in acute myocardial infarction: 30-day results from a multicenter randomized study. *J Am Coll Cardiol*. 2006 Jul 18;48(2):244-52. doi: 10.1016/j.jacc.2006.03.044. Epub 2006 Jun 23. PMID: 16843170.
- Migliorini A, Stabile A, Rodriguez AE, et al; JETSTENT Trial Investigators. Comparison of AngioJet rheolytic thrombectomy before direct infarct artery stenting with direct stenting alone in patients with acute myocardial infarction. The JETSTENT trial. *J Am Coll Cardiol*. 2010 Oct 12;56(16):1298-306. doi: 10.1016/j.jacc.2010.06.011. Epub 2010 Aug 5. PMID: 20691553.
- Carrabba N, Parodi G, Maehara A, et al. Rheolytic thrombectomy in acute myocardial infarction: Effect on microvascular obstruction, infarct size, and left ventricular remodeling. *Catheter Cardiovasc Interv*. 2016 Jan 1;87(1):E1-8. doi: 10.1002/ccd.25961. Epub 2015 Jun 24. PMID: 26108162.
- Vergara R, Valenti R, Migliorini A, et al. Rheolytic Thrombectomy for Acute Myocardial Infarction Complicated by Cardiogenic Shock. *J Invasive Cardiol*. 2016 Dec;28(12):E193-E197. Epub 2016 May 15. PMID: 27187985.
- Goudreau E, DiSciascio G, Vetrovec GW, et al. Intracoronary urokinase as an adjunct to percutaneous transluminal coronary angioplasty in patients with complex coronary narrowings or angioplasty-induced complications. *Am J Cardiol*. 1992 Jan 1;69(1):57-62. doi: 10.1016/0002-9149(92)90676-p. PMID: 1729868.
- Keeley EC, Boura JA, Grines CL. Comparison of primary and facilitated percutaneous coronary interventions for ST-elevation myocardial infarction: quantitative review of randomised trials. *Lancet*. 2006 Feb 18;367(9510):579-88. doi: 10.1016/S0140-6736(06)68148-8. Erratum in: *Lancet*. 2006 May 20;367(9523):1656. PMID: 16488801.
- Assessment of the Safety and Efficacy of a New Treatment Strategy with Percutaneous Coronary Intervention (ASSENT-4 PCI) investigators. Primary versus tenecteplase-facilitated percutaneous coronary intervention in patients with ST-segment elevation acute myocardial infarction (ASSENT-4 PCI): randomised trial. *Lancet (London, England)*. 2006 Feb 18;367(9510):569-78. Available from: <https://linkinghub.elsevier.com/retrieve/pii/S0140673606681476>.
- Sezer M, Ofiaz H, Gören T, et al. Intracoronary streptokinase after primary percutaneous coronary intervention. *N Engl J Med*. 2007 May 3;356(18):1823-34. doi: 10.1056/NEJMoa054374. PMID: 17476008.
- Kelly RV, Crouch E, Krumnacher H, et al. Safety of adjunctive intracoronary thrombolytic therapy during complex percutaneous coronary intervention: initial experience with intracoronary tenecteplase. *Catheter Cardiovasc Interv*. 2005 Nov;66(3):327-32. doi: 10.1002/ccd.20521. PMID: 16208711.
- Boscarelli D, Vaquerizo B, Miranda-Guardiola F, et al. Intracoronary thrombolysis in patients with ST-segment elevation myocardial infarction presenting with massive intraluminal thrombus and failed aspiration. *Eur Heart J Acute Cardiovasc Care*. 2014 Sep;3(3):229-36. doi: 10.1177/2048872614527008. Epub 2014 Mar 17. PMID: 24637066.
- Moscucci M, Fox KA, Cannon CP, Klein W, López-Sendón J, Montalescot G, White K, Goldberg RJ. Predictors of major bleeding in acute coronary syndromes: the Global Registry of Acute Coronary Events (GRACE). *Eur Heart J*. 2003 Oct;24(20):1815-23. doi: 10.1016/s0195-668x(03)00485-8. PMID: 14563340.
- Neumann FJ, Sousa-Uva M, Ahlsson A, et al. 2018 ESC/EACTS Guidelines on myocardial revascularization. *Eur Heart J*. 2019;40(2):87-165.
- TIMI Study Group. The Thrombolysis in Myocardial Infarction (TIMI) trial. Phase I findings. *N Engl J Med*. 1985 Apr 4;312(14):932-6. doi: 10.1056/NEJM198504043121437. PMID: 4038784.