

REFERENCES

1. Cohen MC, Aretz TH. Histological analysis of coronary artery lesions in fatal postoperative myocardial infarction. *Cardiovasc Pathol*. 1999;8:133-139.
2. Dawood MM, Gutpa DK, Southern J, et al. Pathology of fatal perioperative myocardial infarction: implications regarding pathophysiology and prevention. *Int J Cardiol*. 1996;57:37-44.
3. Beaupre LA, Jones CA, Saunders LD, et al. Best practices for elderly hip fracture patients. A systematic overview of the evidence. *J Gen Intern Med*. 2005;20:1019-1025.
4. Bottle A, Aylin P. Mortality associated with delay in operation after hip fracture: observational study. *BMJ*. 2006;332:947-951.
5. Fleisher LA, Fleischmann KE, Auerbach AD, et al. 2014 ACC/AHA Guideline on Perioperative Cardiovascular Evaluation and Management of Patients Undergoing Noncardiac Surgery: A Report of the American College of Cardiology/American Heart Association Task Force on Practice Guidelines. *J Am Coll Cardiol*. 2014;64:e77-e137.
6. Fleisher LA, Beckman JA, Brown KA, et al. ACC/AHA 2007 guidelines on perioperative cardiovascular evaluation and care for noncardiac surgery: a report of the American College of Cardiology/American Heart Association Task Force on Practice Guidelines (Writing Committee to Revise the 2002 Guidelines on Perioperative Cardiovascular Evaluation for Noncardiac Surgery): developed in collaboration with the American Society of Echocardiography, American Society of Nuclear Cardiology, Heart Rhythm Society, Society of Cardiovascular Anesthesiologists, Society for Cardiovascular Angiography and Interventions, Society for Vascular Medicine and Biology, and Society for Vascular Surgery. *Circulation*. 2007;116:e418-e499.
7. Amsterdam EA, Wenger NK, Brindis RG, et al. 2014 AHA/ACC Guideline for the Management of Patients with Non-ST-Elevation Acute Coronary Syndromes: A Report of the American College of Cardiology/American Heart Association Task Force on Practice Guidelines. *J Am Coll Cardiol*. 2014;64:e139-e228.
8. O’Gara PT, Kushner FG, Ascheim DD, et al; American College of Emergency Physicians; Society for Cardiovascular Angiography and Interventions. 2013 ACCF/AHA guideline for the management of ST-elevation myocardial infarction: a report of the American College of Cardiology Foundation/American Heart Association Task Force on Practice Guidelines. *J Am Coll Cardiol*. 2013;61:e78-e140.
9. Nuttall GA, Brown MJ, Stombaugh JW, et al. Time and cardiac risk of surgery after bare-metal stent percutaneous coronary intervention. *Anesthesiology*. 2008;109:588-595.
10. Rabbitts JA, Nuttall GA, Brown MJ, et al. Cardiac risk of noncardiac surgery after percutaneous coronary intervention with drug-eluting stents. *Anesthesiology*. 2008;109:596-604.

11. Pfisterer M, Brunner-La Rocca HP, Buser PT, et al. Late clinical events after clopidogrel discontinuation may limit the benefit of drug-eluting stents: an observational study of drug-eluting versus bare-metal stents. *J Am Coll Cardiol*. 2006;48:2584-2591.
12. Grines CL, Bonow RO, Casey DE Jr, et al; American Heart Association; American College of Cardiology; Society for Cardiovascular Angiography and Interventions; American College of Surgeons; American Dental Association; American College of Physicians. Prevention of premature discontinuation of dual antiplatelet therapy in patients with coronary artery stents: a science advisory from the American Heart Association, American College of Cardiology, Society for Cardiovascular Angiography and Interventions, American College of Surgeons, and American Dental Association, with representation from the American College of Physicians. *J Am Coll Cardiol*. 2007;49:734-739.
13. Douketis JD, Spyropoulos AC, Spencer FA, et al; American College of Chest Physicians. Perioperative management of antithrombotic therapy: Antithrombotic Therapy and Prevention of Thrombosis, 9th ed: American College of Chest Physicians Evidence-Based Clinical Practice Guidelines. *Chest*. 2012;141(2 Suppl):e326s-3250s.
14. Wijns W, et al; Task Force on Myocardial Revascularization of the European Society of Cardiology (ESC) and the European Association for Cardio-Thoracic Surgery (EACTS); European Association for Percutaneous Cardiovascular Interventions (EAPCI), Guidelines on myocardial revascularization. *Eur Heart J*. 2010;31:2501-2555.
15. Tanguay JF, Bell AD, Ackman ML, et al. Focused 2012 Update of the Canadian Cardiovascular Society Guidelines for the Use of Antiplatelet Therapy. *Can J Cardiol*. 2013. doi:pii: S0828-282X(13)00443-1.
16. Darvish-Kazem S, Gandhi M, Marcucci M, et al. Perioperative Management of Antiplatelet Therapy in Patients with a Coronary Stent who Need Non-cardiac Surgery: A Systematic Review of Clinical Practice Guidelines. *Chest*. 2013.
17. Wijeyesundera DN, Wijeyesundera HC, Yun L, et al. Risk of elective major noncardiac surgery after coronary stent insertion: a population-based study. *Circulation*. 2012;126:1355-1362.
18. Hawn MT, Graham LA, Richman JS, et al. Risk of major adverse cardiac events following noncardiac surgery in patients with coronary stents. *JAMA*. 2013;310:1462-1472.
19. Schein OD, Katz J, Bass EB, et al. The value of routine preoperative medical testing before cataract surgery. Study of Medical Testing for Cataract Surgery. *N Engl J Med*. 2000;342:168-175.
20. Lindenauer PK, Pekow P, Wang K, et al. Lipid-lowering therapy and in-hospital mortality following major noncardiac surgery. *JAMA*. 2004;291:2092-2099.
21. Hlatky MA, Boineau RE, Higginbotham MB, et al. A brief self-administered questionnaire to determine functional capacity (the Duke Activity Status Index). *Am J Cardiol*. 1989;64:651-654.

22. University of South Carolina Arnold School of Public Health. The Compendium of Physical Activities Tracking Guide. Available at: http://prevention.sph.sc.edu/tools/docs/documents_compendium.pdf. Published 2000.
23. Centers for Disease Control and Prevention – Division of Nutrition, Physical Activity, and Obesity. General Physical Activities Defined by Level of Intensity. Available at: http://www.cdc.gov/nccdphp/dnpa/physical/pdf/PA_Intensity_table_2_1.pdf.
24. Goldman L, Caldera DL, Nussbaum SR, et al. Multifactorial index of cardiac risk in noncardiac surgical procedures. *N Engl J Med*. 1977;297:845-850.
25. Lee TH, Marcantonio ER, Mangione CM, et al. Derivation and prospective validation of a simple index for prediction of cardiac risk of major noncardiac surgery. *Circulation*. 1999;100:1043-1049.
26. Boersma E, Kertai MD, Schouten O, et al. Perioperative cardiovascular mortality in noncardiac surgery: validation of the Lee cardiac risk index. *Am J Med*. 2005;118:1134-1141.
27. Ford MK, Beattie WS, Wijeyesundera DN. Systematic review: prediction of perioperative cardiac complications and mortality by the revised cardiac risk index. *Ann Intern Med*. 2010;152:26-35.
28. Bertges DJ, Goodney PP, Zhao Y, et al. The Vascular Study Group of New England Cardiac Risk Index (VSG-CRI) predicts cardiac complications more accurately than the Revised Cardiac Risk Index in vascular surgery patients. *J Vasc Surg*. 2010;52:674-683,683,671-683,673.
29. Gupta PK, Gupta H, Sundaram A, et al. Development and validation of a risk calculator for prediction of cardiac rise after surgery. *Circulation*. 2011;26:124:381-387.
30. Davis C, Tait G, Carroll J, et al. The Revised Cardiac Risk Index in the new millennium: a single-centre prospective cohort re-evaluation of the original variables in 9519 consecutive elective surgical patients. *Can J Anaesth*. 2013;60:855-863.
31. Bilimoria KY, Liu Y, Paruch JL, et al. Development and Evaluation of the Universal ACS NSQIP Surgical Risk Calculator: A Decision Aid and Informed Consent Tool for Patients and Surgeons. *J Am Coll Surg*. 2013;217:833-842.
32. American College of Surgeons. American College of Surgeons National Surgical Quality Improvement Program Surgical Risk Calculator. Available at: <http://riskcalculator.facs.org/PatientInfo/PatientInfo>. Accessed: January 9, 2014.
33. Hammill BG, Curtis LH, Bennett-Guerrero E, et al. Impact of heart failure on patients undergoing major noncardiac surgery. *Anesthesiology*. 2008;108:559-567.
34. Welten GM, Chonchol M, Hoeks SE, et al. Statin therapy is associated with improved outcomes in vascular surgery patients with renal impairment. *Am Heart J*. 2007;154:954-961.
35. Beattie WS, Abdelnaem E, Wijeyesundera DN, Buckley DN. A meta-analytic comparison of preoperative stress echocardiography and nuclear scintigraphy imaging. *Anesth Analg*. 2006;102:8-16. patients undergoing major vascular surgery. *Heart*. 2003;89:1327-1334.

36. Kertai MD, Boersma E, Bax JJ, et al. A meta-analysis comparing the prognostic accuracy of six diagnostic tests for predicting perioperative cardiac risk in patients undergoing major vascular surgery. *Heart*. 2003;89:1327-1334.
37. Wijeyesundera DN, Beattie WS, Austin PC, et al. Non-invasive cardiac stress testing before elective major noncardiac surgery: population based cohort study. *BMJ*. 2010;340:b5526.
38. Wijeyesundera DN, Duncan D, Nkonde-Price C, et al. Perioperative Beta Blockade in Noncardiac Surgery: A Systematic Review for the 2014 ACC/AHA Guideline on Perioperative Cardiovascular Evaluation and Management of Patients Undergoing Noncardiac Surgery: A Report of the American College of Cardiology/American Heart Association Task Force on Practice Guidelines. *J Am Coll Cardiol*. 2014;64:2406-2425.
39. Devereaux PJ, Xavier D, Pogue J, et al. POISE (PeriOperative ISchemic Evaluation) Investigators. Characteristics and short-term prognosis of perioperative myocardial infarction in patients undergoing noncardiac surgery: a cohort study. *Ann Intern Med*. 2011;19;154:523-528.
40. Devereaux PJ, Chan MT, Alonso-Coello P, et al; Vascular Events In Noncardiac Surgery Patients Cohort Evaluation (VISION) Study Investigators. Association between postoperative troponin levels and 30-day mortality among patients undergoing noncardiac surgery. *JAMA*. 2012;307:2295-2304.
41. Sandhu A, Sanders S, Geraci SA. Prognostic value of cardiac troponins in elderly patients with hip fracture--a systematic review. *Osteoporos Int*. 2013;24:1145-1149.
42. van Waes JA, Nathoe HM, de Graaff JC et al; Cardiac Health After Surgery (CHASE) Investigators. Myocardial injury after noncardiac surgery and its association with short-term mortality. *Circulation*. 2013;11;127:2264-2271.
43. Beattie WS, Karkouti K, Tait G, et al. Use of clinically based troponin underestimates the cardiac injury in noncardiac surgery: a single-centre cohort study in 51,701 consecutive patients. *Can J Anaesth*. 2012;59:1013-1022.
44. Levy M, Heels-Ansdell D, Hiralal R, et al. Prognostic value of troponin and creatine kinase muscle and brain isoenzyme measurement after noncardiac surgery: a systematic review and meta-analysis. *Anesthesiology*. 2011;114:796-806.
45. Kavsak PA, Walsh M, Srinathan S, et al. High sensitivity troponin T concentrations in patients undergoing noncardiac surgery: a prospective cohort study. *Clin Biochem*. 2011;44:1021-1024.
46. Weber M, Luchner A, Seeberger M, et al. Incremental value of high-sensitive troponin T in addition to the revised cardiac index for perioperative risk stratification in noncardiac surgery. *Eur Heart J*. 2013;34:853-862.
47. Nagele P, Brown F, Gage BF, et al. High-sensitivity cardiac troponin T in prediction and diagnosis of myocardial infarction and long-term mortality after non-cardiac surgery. *Am Heart J*. 2013;166:325-332.e1.

48. Goei D, Schouten O, Boersma E, et al. Influence of renal function on the usefulness of N-terminal pro-B-type natriuretic peptide as a prognostic cardiac risk marker in patients undergoing noncardiac vascular surgery. *Am J Cardiol.* 2008;101:122-126.
49. Karthikeyan G, Moncur RA, Levine O, et al. Is a pre-operative brain natriuretic peptide or N-terminal pro-B-type natriuretic peptide measurement an independent predictor of adverse cardiovascular outcomes within 30 days of noncardiac surgery? A systematic review and meta-analysis of observational studies. *J Am Coll Cardiol.* 2009;54:1599-1606.
50. Ryding AD, Kumar S, Worthington AM, Burgess D. Prognostic value of brain natriuretic peptide in noncardiac surgery: a meta-analysis. *Anesthesiology.* 2009;111:311-319.
51. Rodseth RN, Lurati Buse GA. The predictive ability of pre-operative B-type natriuretic peptide in vascular patients for major adverse cardiac events: an individual patient data meta-analysis. *J Am Coll Cardiol.* 2011;26:58:522-529.
52. Rodseth RN, Biccard BM, Chu R, et al. Postoperative B-type natriuretic peptide for prediction of major cardiac events in patients undergoing noncardiac surgery: systematic review and individual patient meta-analysis. *Anesthesiology.* 2013;119:270-283.
53. Helwani MA, Amin A, Lavigne P, Rao S, Oesterreich S, Samaha E, Brown JC, Nagele P. Etiology of Acute Coronary Syndrome after Noncardiac Surgery. *Anesthesiology.* 2018 Jun;128(6):1084-1091. PMID: 29481375.
54. Pincus D, Ravi B, Wasserstein D, Huang A, Paterson JM, Nathens AB, Kreder HJ, Jenkinson RJ, Wodchis WP. Association Between Wait Time and 30-Day Mortality in Adults Undergoing Hip Fracture Surgery. *JAMA.* 2017 Nov 28;318(20):1994-2003. PMID: 29183076.
55. Levine GN, Bates ER, Bittl JA, Brindis RG, Fihn SD, Fleisher LA, Granger CB, Lange RA, Mack MJ, Mauri L, Mehran R, Mukherjee D, Newby LK, O'Gara PT, Sabatine MS, Smith PK, Smith SC Jr. 2016 ACC/AHA Guideline Focused Update on Duration of Dual Antiplatelet Therapy in Patients With Coronary Artery Disease: A Report of the American College of Cardiology/American Heart Association Task Force on Clinical Practice Guidelines. *J Am Coll Cardiol.* 2016 Sep 6;68(10):1082-115. PMID: 27036918.
56. Valgimigli M, Bueno H, Byrne RA, Collet JP, Costa F, Jeppsson A, Jüni P, Kastrati A, Kolh P, Mauri L, Montalescot G, Neumann FJ, Petricevic M, Roffi M, Steg PG, Windecker S, Zamorano JL, Levine GN; ESC Scientific Document Group; ESC Committee for Practice Guidelines (CPG); ESC National Cardiac Societies. 2017 ESC focused update on dual antiplatelet therapy in coronary artery disease developed in collaboration with EACTS: The Task Force for dual antiplatelet therapy in coronary artery disease of the European Society of Cardiology (ESC) and of the European Association for Cardio-Thoracic Surgery (EACTS). *Eur Heart J.* 2018 Jan 14;39(3):213-260. PMID: 28886622.

57. Chambers JB. Valve disease and non-cardiac surgery. *Heart*. 2018 May 31. pii: heartjnl-2017-312455. doi: 10.1136/heartjnl-2017-312455. [Epub ahead of print] PMID: 29853487.
58. Wijeyesundera DN, Pearse RM, Shulman MA et al. on behalf of the METS study investigators. Assessment of functional capacity before major non-cardiac surgery: an international, prospective cohort study. *Lancet*. 391:2631-40. June 30, 2018 DOI: [10.1016/S0140-6736\(18\)31131-0](https://doi.org/10.1016/S0140-6736(18)31131-0).
59. Alrezk R, Jackson N, Al Rezk M, Elashoff R, Weintraub N, Elashoff D, Fonarow GC. Derivation and Validation of a Geriatric-Sensitive Perioperative Cardiac Risk Index. *J Am Heart Assoc*. 2017 Nov 16;6(11). pii: e006648. PMID: 29146612.
60. Duceppe E, Parlow J, MacDonald P, Lyons K, McMullen M, Srinathan S, Graham M, Tandon V, Styles K, Bessissow A, Sessler DI, Bryson G, Devereaux PJ. Canadian Cardiovascular Society Guidelines on Perioperative Cardiac Risk Assessment and Management for Patients Who Undergo Noncardiac Surgery. *Can J Cardiol*. 2017 Jan;33(1):17-32. PMID: 27865641.
61. Brown JC, Samaha E, Rao S et al. *Anesth Analg*. 2017 Nov;125(5):1455-1462. PMID: 28719430.
62. Devereaux PJ, Bicccard BM, Sigamani A et al. *JAMA*. 2017 Apr 25;317(16):1642-1651. PMID: 28444280.
63. Puelacher C, Lurati Buse G, Seeberger D, et al; BASEL-PMI Investigators. Perioperative Myocardial Injury After Noncardiac Surgery: Incidence, Mortality, and Characterization. *Circulation*. 2018 Mar 20;137(12):1221-1232. PMID: 29203498.
64. Devereaux PJ, Duceppe E, Guyatt G, Tandon V, Rodseth R, Bicccard BM, Xavier D, Szczeklik W, Meyhoff CS, Vincent J, Franzosi MG, Srinathan SK, Erb J, Magloire P, Neary J, Rao M, Rahate PV, Chaudhry NK, Mayosi B, de Nadal M, Iglesias PP, Berwanger O, Villar JC, Botto F, Eikelboom JW, Sessler DI, Kearon C, Pettit S, Sharma M, Connolly SJ, Bangdiwala SI, Rao-Melacini P, Hoeft A, Yusuf S; MANAGE Investigators. Dabigatran in patients with myocardial injury after non-cardiac surgery (MANAGE): an international, randomised, placebo-controlled trial. *Lancet*. 2018 Jun 9;391(10137):2325-2334. doi: 10.1016/S0140-6736(18)30832-8. Erratum in: *Lancet*. 2018 Jul 7;392(10141):30. PubMed PMID: 29900874.
65. Adriaenssens T, Sinnaeve P. Direct oral anticoagulants for postoperative myocardial injury. *Lancet*. 2018 Jun 9;391(10137):2297-2298. doi: 10.1016/S0140-6736(18)30988-7. PubMed PMID: 29900860.