2024 AHA/ACC/ACS/ASNC/HRS/SCA/SCCT/SCMR/SVM guideline for perioperative cardiovascular management for noncardiac surgery: a report of the American College of Cardiology/American Heart Association Joint Committee on Clinical Practice Guidelines.

Guideline ID: 482 Published: 2024 Nov 5

American Heart Association (AHA) | American College of Cardiology (ACC) | American College of Surgeons (ACS) | American Society of Nuclear Cardiology (ASNC) | Heart Rhythm Society (HRS) | Society of Cardiovascular Anesthesiologists (SCA) | Society of Cardiovascular Computed Tomography (SCCT) | Society for Cardiovascular Magnetic Resonance (SCMR) | Society for Vascular Medicine (SVM)

Thompson A, Fleischmann KE, Smilowitz NR, et al. 2024 AHA/ACC/ACS/ASNC/HRS/SCA/SCCT/SCMR/SVM guideline for perioperative cardiovascular management for noncardiac surgery: a report of the American College of Cardiology/American Heart Association Joint Committee on Clinical Practice Guidelines. Circulation. 2024 Nov 5;150(19):e351-e442. PubMed

View Original Guideline

Overview

Guideline Objective

To guide clinicians in the perioperative cardiovascular evaluation and management of adult patients undergoing noncardiac surgery

Patient Population

Adult patients undergoing noncardiac surgery

Recommendations

Recommendation Statements

Major interventions covered in this guideline include:

- Use of validated risk calculators, including cardiovascular risk indices, functional capacity assessment, frailty assessment, and preoperative biomarkers for risk stratification
- Diagnostic testing and imaging
- Use of a stepwise approach to perioperative cardiac testing
- Consideration of cardiovascular comorbidities and perioperative management
- Perioperative medical therapy, including use of pharmacotherapy, timing of non cardiac surgery in patients with coronary artery disease, and blood glucose management
- Anesthetic considerations and intraoperative management and monitoring techniques
- Perioperative surveillance and management of myocardial injury and infarction
- Special populations, including preoperative evaluation before liver and kidney transplantation, and obesity and bariatric surgery

Note: Full recommendation statements have not been provided because this guideline does not meet EGT's systematic review of the evidence criteria. Refer to the original guideline for more information.

Evidence Rating Scheme

Refer to the original guideline documentation for more information.

Recommendation Rating Scheme

Refer to the original guideline documentation for more information.

Related Content

Supporting Documents

- Correction; 2024 Nov 19.
- Supplemental Materials.
- The Original Guideline is also available from the *Journal of the American College of Cardiology*; 2024 Nov.
- Methodology Manual and Policies From the ACCF/AHA Task Force on Practice Guidelines; 2010 Jun.

Implementation Tools

- Top Things to Know: 2024 Guideline for Perioperative Cardiovascular Management for Noncardiac Surgery; 2024 Sep 24.
- AHA Clinical Update: 2024 AHA/ACC/ACS/ASNC/HRS/SCA/SCCT/SCMR/SVM Guideline for Perioperative Cardiovascular Management for Noncardiac Surgery.
- 2024 AHA/ACC/ACS/ASNC/HRS/SCA/SCCT/SCMR/SVM Guideline for Perioperative Cardiovascular Management for Noncardiac Surgery Slide Set.
- Guideline at-a-Glance; 2024 Nov.
- ACC Guidelines Hub; 2024 Sep 24.
- Perioperative Guideline JACC Interactive Tool.
- Video.
- AHA Guidelines On-the-Go available for Android and iOS.

- ACC Guideline Clinical App for Android and iOS.
- The Original Guideline includes the following:
    - Figure 1. Stepwise Approach to Perioperative Cardiac Assessment (p. e371)
    - Figure 2. Management of Patients with Severe Aortic Stenosis Requiring Elective or Time-Sensitive Noncardiac Surgery (p. e381)
    - Figure 3. Patients With Transvenous CIEDs (p. e387)
    - Figure 4. Patients With Nontransvenous Devices (p. e388)
    - Figure 5. Optimal Timing of Elective or Time-Sensitive NCS for Prior PCI Requiring Management of DAPT (p. e394)
    - Figure 6. Evaluation of an Abnormal Troponin Obtained for Postoperative Surveillance (p. e407)

Patient Education

- Key Patient Messages Guideline for Perioperative Cardiovascular Management for Noncardiac Surgery; 2024 Sep 24.

Note: This patient information is intended to help patients better understand their health and their diagnosed disorders. Patients and their representatives should still consult with a licensed health care professional for evaluation of treatment options as well as answers to their personal medical questions.

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