Acute coronary syndrome (ACS) describes the range of myocardial ischemic states that includes unstable angina, non-ST elevated myocardial infarction (MI), or ST-elevated MI. ACS is associated with substantial morbidity and mortality and places a large financial burden on the health care system. The diagnosis of ACS begins with a thorough clinical assessment of a patient’s presenting symptoms, electrocardiogram, and cardiac troponin levels as well as a review of past medical history. Early risk stratification can assist clinicians in determining whether an early invasive management strategy or an initial conservative strategy should be pursued and can help determine appropriate pharmacologic therapies. Key components in the management of ACS include coronary revascularization when indicated; prompt initiation of dual antiplatelet therapy and anticoagulation; and consideration of adjuvant agents including β blockers, inhibitors of the renin angiotensin system, and HMG–coenzyme A reductase inhibitors. It is essential for clinicians to take an individualized approach to treatment and consider long-term safety and efficacy when managing patients with a history of ACS after hospital discharge. (J Am Board Fam Med 2015;28:283–293.)

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CHD is estimated to be 6.4% in United States (US) adults greater than or equal to 20 years of age, which represents approximately 15.4 million Americans. During the past several years, the rates of hospitalization for MI and mortality associated with CHD have decreased. The decline in CHD mortality is partially reflective of the change in the pattern of clinical presentations of ACS. There has been a substantial reduction in the incidence of STEMI and a subsequent increase in the incidence of NSTEMI. An analysis of 46,086 hospitalizations for ACS in a study conducted by Kaiser Permanente demonstrated that the percentage of STEMI cases decreased from 48.5% to 24% between 1999 and 2008. Despite the improvement in survival associated with ACS, this medical condition continues to have an association with fatal outcomes and places a burden on the entire healthcare system. A diagnosis of MI was responsible for approximately 125,000 deaths in the US in 2009, and ACS was associated with an estimated 625,000 hospital discharges in 2010. It is evident that there is room for improvement in the prevention and management of ACS.

**Differential Diagnosis**

It is important to remember that MI represents myocardial necrosis due to myocardial ischemia. Other clinical conditions, such as pericarditis, dissecting aortic aneurysm, and mitral valve prolapse represent nonischemic, cardiac causes of myocardial injury and thus do not fall within the definition of ACS. In addition, there are several noncardiac conditions that may manifest with similar symptoms of ACS, including musculoskeletal pain, esophageal discomfort, pulmonary embolism, or anxiety. It is essential to determine the correct etiology of a patient’s signs and symptoms to determine an appropriate management plan.

**Cardiac Biomarkers**

Cardiac troponins are biochemical markers of myocardial damage. Increases in cardiac biomarkers, notably cardiac troponin (I or T), or the MB fraction of creatine kinase (CKMB), signify myocardial injury leading to necrosis of myocardial cells. Elevated cardiac biomarkers in and of themselves do not indicate the underlying mechanism of injury and do not differentiate between ischemic or non-ischemic causes. There are several clinical conditions that have the potential to result in myocardial injury and cause elevations in cardiac biomarkers, including acute pulmonary embolism, heart failure (HF), end-stage renal disease, and myocarditis. As a result, cardiac biomarker elevations cannot be utilized in isolation to make a diagnosis of MI. The preferred cardiac biomarker is troponin, which has high clinical sensitivity and myocardial tissue specificity. An elevation in troponin concentration is based on specific assays and is defined as a value exceeding the 99th percentile of a normal reference population. At this level, sensitive cardiac troponin I assays have a positive likelihood ratio (LR) of 11–14 and a negative LR of 0.06–0.15. It is essential to detect a rise and/or fall in cardiac biomarkers to distinguish acute from chronic elevations in troponin concentrations, which may be
associated with structural heart disease. Troponin levels should be measured on first assessment, within 6 hours of the onset of pain, and in the 6–12 hour time frame after onset of pain, due to the delayed increase in circulating levels of cardiac biomarkers (strength of recommendation A). In addition, it is important to understand that elevations in troponin may be seen for up to 2 weeks after the onset of myocardial necrosis. If troponin concentrations are unavailable, then CKMB should be measured.1 Ideally, both troponin and CKMB should be obtained during evaluation for ACS due to the different concentrations of these biomarkers over time and the added diagnostic value of serial testing (strength of recommendation A).2,3 For example, serial measurement of CKMB has a positive LR of 20 and negative LR of 0.22.8

**ECG Changes**

ECG abnormalities that are potentially reflective of myocardial ischemia include changes in the PR segment, the QRS complex, and the ST-segment. A meticulous evaluation of ECG changes can assist in estimating time of the event, amount of myocardium at risk, patient prognosis, and appropriate therapeutic strategies. ST-segment elevation found on an ECG is the hallmark sign of a STEMI.1 Similar to cardiac biomarkers, the ECG alone is often insufficient to make the diagnosis of an acute MI, and the sensitivity and specificity of ECG are increased by serial assessments.9 ECG changes such as ST deviation may be present in other conditions, such as left ventricular hypertrophy, left bundle branch block, or acute pericarditis.1

**Initial ACS Management**

**Early Management**

It is essential to evaluate patients with suspected ACS immediately to prevent potentially fatal clinical consequences and relieve ongoing ischemia. Early risk stratification should be performed that is inclusive of a patient’s demographics and medical history, physical examination, ECG, and cardiac biomarker measurements (strength of recommendation A). A number of risk assessment tools have been developed to predict one’s risk of recurrent ischemia or death following an ACS event. The Thrombosis in Myocardial Infarction (TIMI) risk score, a scoring system for UA and NSTEMI that incorporates seven variables on hospital admission, has been validated as a reliable predictor of subsequent ischemic events (Table 1). In addition, measurement of B-type natriuretic peptide may be considered to assist in predicting risk of morbidity and mortality in patients with suspected ACS. Early risk stratification can assist in determining whether a patient should be managed with either an early invasive strategy or an initial conservative strategy and can help determine the pharmacologic therapies that are recommended (Figure 1).2

**Coronary Revascularization**

In patients presenting with a STEMI, reperfusion therapy should be administered to all eligible patients with symptom onset within the prior 12 hours.3 Per-

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**Table 1. The Thrombosis in Myocardial Infarction (TIMI) Risk Score for Unstable Angina (UA)/Non-ST Elevated Myocardial Infarction (NSTEMI)**2

<table>
<thead>
<tr>
<th>Baseline Characteristics (1 point for each of the following):</th>
<th>TIMI Risk Score (points)</th>
<th>Rate of Composite Endpoint (%)‡</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age ≥65 years; At least 3 risk factors for CAD; Prior coronary stenosis ≥50%; ST segment deviation; At least 2 anginal events in last 24 hours; Use of aspirin in last 7 days; Elevated serum cardiac biomarkers1</td>
<td>0–1</td>
<td>4.7</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>8.3</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>13.2</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>19.9</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>26.2</td>
</tr>
<tr>
<td></td>
<td>6–7</td>
<td>40.9</td>
</tr>
</tbody>
</table>

1Risk factors include family history of CAD, hypertension, hypercholesterolemia, diabetes, or being a current smoker.

2CKMB fraction and/or cardiac-specific troponin level.

3All-cause mortality, new or recurrent MI, or severe recurrent ischemia requiring urgent revascularization through 14 days after randomization.

CAD, coronary artery disease; MI, myocardial infarction; CKMB, MB fraction of creatine kinase.
cutaneous coronary intervention (PCI) is the recommended method of reperfusion when it can be performed in a timely fashion, with the goal of time from first medical contact to device time of less than or equal to 90 minutes (strength of recommendation A). If patients are unable to get to a PCI-capable hospital within 120 minutes of a STEMI, then fibrinolytic therapy should be administered within 30 minutes of hospital arrival, provided there are no contraindications to its use (Figure 2) (strength of recommendation A). A recent meta-analysis showed that current randomized controlled studies are inconclusive with regard to survival benefit associated with early (typically <24 hours) versus delayed invasive strategy in patients presenting with NSTEMI OR, 0.83; 95% CI, 0.64–1.09; P = 0.180). Early invasive coronary angiography is recommended in NSTEMI/UA patients with refractory angina or hemodynamic or electric instability (strength of recommendation A). Early invasive strategy is reasonable for higher-risk patients with NSTEMI/UA previously stabilized who do not have serious comorbidities (i.e., liver or pulmonary failure, cancer) or contraindications to the procedure (strength of recommendation B). Specific strategies utilized during revascularization are outside the scope of this review.

**Antithrombotic Agents**

Antiplatelet therapy, which reduces the risk of thrombosis by interfering with platelet release and aggregation, is a cornerstone in the management of ACS. Well-established antiplatelet therapies in the management of ACS include aspirin, adenosine diphosphate P2Y12 receptor antagonists, and glycoprotein IIb/IIIa inhibitors. Aspirin should be started as soon as possible after an ACS event with an initial loading dose of 162–325 mg, and should be continued indefinitely, unless contraindicated...
Aspirin 81 mg daily is a reasonable maintenance dosing regimen given that higher doses have not shown any benefit over low-dose aspirin (level of evidence 1). In addition to aspirin, a P2Y₁₂ antagonist should be added for patients with ACS who are medically managed as well as those undergoing PCI (strength of recommendation A). P2Y₁₂ receptor antagonists frequently used in the management of ACS include clopidogrel (Plavix), prasugrel (Effient), and ticagrelor (Brilinta) (Table 2). Glycoprotein (GP) IIb/IIIa inhibitors have been shown to be efficacious when used during PCI in reducing ischemic complications; however, the use of GP IIb/IIIa inhibitor therapy as part of triple antiplatelet therapy has also been associated with an increased bleeding risk. Recent research supports the strategy of selective use rather than routine upstream use of GP IIb/IIIa inhibitors as part of triple antiplatelet therapy with consideration of a patient’s risk-benefit ratio (strength of recommendation A).

**Clopidogrel**

Before the approval of new therapeutic agents, clopidogrel was a standard therapy for patients presenting with ACS. The benefit of adding clopidogrel to aspirin was first demonstrated in a 2001 trial in which patients presenting with UA or NSTEMI were randomly assigned to clopidogrel or placebo, in addition to aspirin, for a period of 3–12 months. The group assigned to dual antiplatelet therapy (DAPT) was shown to have a reduction in the primary outcome of cardiovascular death, nonfatal MI, or stroke as compared with placebo (9.3 vs 11.4%; RR, 0.80; 95% CI, 0.72–0.90; P < .001), with a number needed to treat (NNT) of 48 to prevent one such event. There was a significant increase in the rate of major bleeding associated with the group randomized to DAPT as...
opposed to those randomized to placebo (3.7 vs 2.7%; RR, 1.38; 95% CI, 1.13–1.67; \( P \leq .001 \)) with a number needed to harm (NNH) of 100 patients (level of evidence 1).\(^{17} \)

**Prasugrel**

The 2007 landmark trial comparing clopidogrel to prasugrel showed that prasugrel was associated with a significant 2.2% absolute reduction in a composite endpoint of cardiovascular death, non-fatal MI, or non-fatal stroke as compared with clopidogrel, with a NNT of 46 patients over 6–15 months to prevent one cardiovascular disease outcome (9.9 vs 12.1%; HR, 0.81; 95% CI, 0.73–0.90; \( P < .001 \)). Randomization to prasugrel was also associated with a significant increase in the rate of bleeding, with a NNH of 166 patients for one bleeding event (2.4 vs 1.8%; HR, 1.32; 95% CI, 1.03–1.68; \( P = .03 \)) (level of evidence 1). Patients with body weight <60 kg and patients ≥75 years of age lacked a net clinical benefit. Patients with a history of stroke or transient ischemic attack lacked harm with the use of prasugrel, and therefore its use in these patients is contraindicated.\(^{18} \)

**Ticagrelor**

The pivotal trial comparing ticagrelor to clopidogrel was conducted in patients with ACS, with or without ST-segment elevation, who had invasive or medical management planned. Ticagrelor was associated with a 1.9% absolute reduction in the composite outcome of vascular death, MI, or stroke as compared with clopidogrel, representing a NNT of 53 patients over the course of 12 months to prevent one outcome (9.8 vs 11.7%; HR, 0.84; 95% CI, 0.77–0.92; NNT, 72 patients). Ticagrelor was also associated with a 1.4% absolute reduction in all-cause mortality (4.5 vs 5.9%; HR, 0.78; 95% CI, 0.69–0.89; NNT, 72 patients). There was no significant difference in the risk of major bleeding between treatment groups; however, the ticagrelor group had a higher rate of major bleeding not related to coronary artery bypass graft (CABG) surgery as compared with the clopidogrel group, representing for PCI, and prasugrel is U.S. Food & Drug Administration (FDA) approved for the reduction of thrombotic cardiovascular events solely in patients with ACS who are to be managed with PCI.\(^{15} \)

The role of prasugrel in patients with ACS who are not managed with PCI is yet to be defined.

### Table 2. Antiplatelet Agents—Oral P2Y\(_{12} \) Inhibitors

<table>
<thead>
<tr>
<th></th>
<th>Clopidogrel (Plavix)(^{14} )</th>
<th>Prasugrel (Effient)(^{15} )</th>
<th>Ticagrelor (Brilinta)(^{16} )</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dosing</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Loading dose for PCI</td>
<td>600 mg</td>
<td>60 mg</td>
<td>180 mg</td>
</tr>
<tr>
<td>Loading dose for medical management</td>
<td>300 mg</td>
<td>10 mg once daily (Consider 5 mg once daily if patient is &lt;60 kg)</td>
<td>180 mg</td>
</tr>
<tr>
<td>Maintenance dose</td>
<td>75 mg once daily</td>
<td>90 mg twice daily</td>
<td></td>
</tr>
<tr>
<td><strong>Onset of action</strong></td>
<td>6 hours with 300 mg dose</td>
<td>30 minutes</td>
<td>60 minutes</td>
</tr>
<tr>
<td></td>
<td>2 hours with 600 mg dose</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Perioperative considerations</strong></td>
<td>Hold for 5 days prior to surgery</td>
<td>Hold for 7 days prior to surgery</td>
<td>Hold for 5 days prior to surgery</td>
</tr>
<tr>
<td><strong>Clinical pearls</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Genetic polymorphisms of the CYP 2C19 enzyme lead to variable antiplatelet effects</td>
<td>Not FDA approved for medical management, only for patients undergoing PCI</td>
<td>Should not be used with daily aspirin maintenance doses of &gt;100 mg</td>
<td>May cause dyspnea, bradycardias, and ventricular pauses</td>
</tr>
<tr>
<td>Currently, the only generic prescription option</td>
<td>Contraindicated in patients with prior stroke or TIA</td>
<td>Undergoes CYP 3A4 metabolism (concern for drug interactions)</td>
<td>Only agent shown to have mortality benefit</td>
</tr>
<tr>
<td>No net benefit for patients &lt;60 kg and patients ≥75 years of age</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

PCI, percutaneous coronary intervention; FDA, U.S. Food and Drug Administration; TIA, transient ischemic attack.
Vorapaxar

The most recent addition to the arsenal of antiplatelet agents was the approval of vorapaxar, a high-affinity oral antagonist that selectively inhibits thrombin from activating platelets through the protease-activated receptor 1. Vorapaxar is indicated for the reduction of thrombotic cardiovascular events in patients with a history of MI or with peripheral arterial disease (PAD). This novel agent was approved by the FDA in 2014 based on the results of a large, phase III randomized controlled trial. This trial included 26,449 patients with a history of MI, ischemic stroke, or PAD who were randomly assigned to receive vorapaxar (2.5 mg daily) or placebo in addition to standard antiplatelet therapy for a median time of 30 months. Vorapaxar was associated with a 1.2% absolute risk reduction in the primary composite endpoint of death from cardiovascular causes, MI, or stroke as compared with placebo (HR, 1.66; 95% CI, 1.43–1.93; P < .001, NNT 58 patients). Moderate-to-severe bleeding was more common in the vorapaxar group as opposed to the placebo group (4.2 vs 2.5%; HR, 1.66; 95% CI, 1.63–3.29; P < .00001), representing an NNH of 100 patients to cause a major bleed. While not routinely used in clinical practice, warfarin is FDA approved for reducing the risk of death, recurrent MI, and thromboembolic events after MI. In the past few years, three oral anticoagulants have been granted FDA approval in the US, including dabigatran (Pradaxa), rivaroxaban (Xarelto), and apixaban (Eliquis). Each have been studied in the setting of ACS but have not been granted FDA approval for prevention of thrombotic events associated with ACS [Table 3].

Adjuvant Agents

β-Blockers

Oral β-blocker therapy should be initiated within 24 hours of the onset of the event for patients presenting with UA, NSTEMI, or STEMI excluding patients with evidence of low-output state, signs of HF, increased risk for cardiogenic shock, or other contraindications to therapy (strength of recommendation A). The use of intravenous β-blockers is reasonable in patients who are hypertensive and do not have any evidence of the states mentioned above. β-blockers reduce myocardial contractility, sinus node rate, and AV node conduction velocity by blocking the effects of catecholamines on β-receptors located in the myocardium. The net benefit of β-blockers is related to a decrease in cardiac work and reduction in myocardial oxygen demand. Studies have been conducted to investigate the use of anticoagulants in this setting (strength of recommendation B). A meta-analysis including 14 randomized controlled trials investigated the use of aspirin with warfarin versus aspirin alone in patients recovering from ACS to determine their effect on the incidence of ischemic events and the rate of bleeding (level of evidence 2). In trials included in this meta-analysis that targeted an international normalized ratio (INR) of 2–3, the use of warfarin and aspirin was found to confer a significant reduction of major adverse events including all-cause death, nonfatal MI, and nonfatal thromboembolic stroke (OR, 0.73; 95% CI, 0.63–0.84; P < .0001) versus the use of aspirin alone (NNT of 33 patients to avoid one major adverse event). However, randomization to warfarin and aspirin was associated with a significantly greater rate of major bleeds (OR, 2.32; 95% CI, 1.63–3.29; P < .00001), representing an NNH of 100 patients to cause a major bleed. While not routinely used in clinical practice, warfarin is FDA approved for reducing the risk of death, recurrent MI, and thromboembolic events after MI. In the past few years, three oral anticoagulants have been granted FDA approval in the US, including dabigatran (Pradaxa), rivaroxaban (Xarelto), and apixaban (Eliquis). Each have been studied in the setting of ACS but have not been granted FDA approval for prevention of thrombotic events associated with ACS [Table 3].

Anticoagulants

The decision to use anticoagulation in addition to standard post-ACS treatment is challenging due to the intricate balance between safety and efficacy. During the initial management of ACS, parenteral anticoagulants are used in combination with antiplatelet agents (strength of recommendation A). Parenteral anticoagulants that may be used during this time include unfractionated heparin (UFH), low-molecular-weight heparin, fondaparinux, or bivalirudin. The choice of anticoagulant agent is dependent on the initial management strategy and the recommended duration of therapy varies based on the chosen agent (Figure 1). Although current guidelines do not recommend anticoagulants for post-ACS management following hospital discharge (unless indicated for a concomitant disease state), several studies have been conducted to investigate the use of anticoagulants in this setting (strength of recommendation B). A meta-analysis including 14 randomized controlled trials investigated the use of aspirin with warfarin versus aspirin alone in patients recovering from ACS to determine their effect on the incidence of ischemic events and the rate of bleeding (level of evidence 2). In trials included in this meta-analysis that targeted an international normalized ratio (INR) of 2–3, the use of warfarin and aspirin was found to confer a significant reduction of major adverse events including all-cause death, nonfatal MI, and nonfatal thromboembolic stroke (OR, 0.73; 95% CI, 0.63–0.84; P < .0001) versus the use of aspirin alone (NNT of 33 patients to avoid one major adverse event). However, randomization to warfarin and aspirin was associated with a significantly greater rate of major bleeds (OR, 2.32; 95% CI, 1.63–3.29; P < .00001), representing an NNH of 100 patients to cause a major bleed. While not routinely used in clinical practice, warfarin is FDA approved for reducing the risk of death, recurrent MI, and thromboembolic events after MI. In the past few years, three oral anticoagulants have been granted FDA approval in the US, including dabigatran (Pradaxa), rivaroxaban (Xarelto), and apixaban (Eliquis). Each have been studied in the setting of ACS but have not been granted FDA approval for prevention of thrombotic events associated with ACS [Table 3].
investigating the impact of β-blockers on mortality in patients with ACS have variable results based on differences in route of administration, time of administration from event onset, and patient population. There is, however, sufficient evidence to recommend β-blockers as a routine part of care in this patient population (strength of recommendation B). Efforts should be made to start a β-blocker in the post-MI setting before discharge unless contraindicated or not tolerated (strength of recommendation A). There is debate regarding the recommended duration of β-blocker use in the post-MI setting. The evidence suggesting the long-term use of β-blockers post MI is largely from trials conducted before the widespread use of antiplatelet agents and routine reperfusion therapy. Data suggests that the benefits of β-blockers emerge in the early phase after MI and benefits are more prevalent among high-risk patients. The duration of benefit of long-term oral β-blocker therapy is uncertain at this time. Many practitioners choose to continue β-blockers indefinitely despite the lack of firm evidence. If patients are experiencing side effects from β-blocker use, it may be reasonable to discontinue therapy at least 1 year after an MI (strength of recommendation B). For patients who are unable to take β-blockers and experience recurrent ischemia, consideration should be given to starting a nondihydropyridine calcium channel blocker (ie, verapamil or diltiazem) in the absence of clinically significant left ventricular dysfunction (strength of recommendation A).
Inhibitors of the Renin-Angiotensin System

An angiotensin-converting enzyme (ACE) inhibitor or angiotensin receptor blocker (ARB) should be initiated within the first 24 hours of patients presenting with ACS who have pulmonary congestion, HF, STEMI with anterior location, or left ventricular ejection fraction (LVEF) ≤40% in the absence of contraindications to therapy (strength of recommendation A).2,3 ACE inhibitors have been shown to reduce mortality in a broad spectrum of patients following MI, including those with and without left ventricular dysfunction (level of evidence 1).36–39 ACE inhibitors have also been studied in patients with stable CAD, which have shown conflicting effects on mortality and vascular events (level of evidence 2).40–42 Patients with stable CAD who are not medically optimized (ie, cannot tolerate a β-blocker or statin), who are not able to be revascularized, and/or who have poorly controlled diabetes have shown mortality benefit with continued treatment with ACE inhibitors.40 On the contrary, revascularized patients with stable CAD, without significant comorbidities, who are on optimal medication management, have not shown this long-term benefit.42 The decision to continue an ACE inhibitor long-term in patients with a history of ACS should be individualized with concomitant disease states considered. Aldosterone antagonists (ie, spironolactone, eplerenone) have also been studied in the post-ACS setting and have been found to reduce morbidity and mortality in select patient populations (level of evidence 1).43,44 Initiation of an aldosterone antagonist is recommended after an ACS event for patients who are on therapeutic doses of an ACE inhibitor or ARB and β-blocker with an LVEF ≤40% and either symptomatic HF or diabetes mellitus (strength of recommendation A). When initiating inhibitors of the renin-angiotensin system, it is important to monitor for adverse effects associated with these agents including hyperkalemia, elevations in serum creatinine, and hypotension.2,3

Hmg–coenzyme A Reductase Inhibitors

It is recommended to initiate or continue statin therapy in all patients presenting with ACS and no contraindications to its use (strength of recommendation A).2,3 High-intensity statin therapy following an ACS event was shown to confer an absolute risk reduction of 3.9% as compared with a moderate intensity statin for the composite endpoint of death from any cause, recurrent MI, UA requiring rehospitalization, revascularization, and stroke (22.4 vs 26.3%; RR, 16%; 95% CI, 5–26%; P = .005), representing an NNT of 26 for a time period of 2 years (level of evidence 1).45 Statin therapy has been shown to be beneficial following ACS even in patients with baseline low-density lipoprotein cholesterol levels of <70 mg/dL.2,3 Recently published American College of Cardiology and American Heart Association Guidelines on treatment of cholesterol recommend high intensity statins (ie, atorvastatin, ≥40 mg daily or rosuvastatin, ≥20 mg daily) for high-risk patients, which include patients who have an ACS event. Lower-dose statins can be considered if patients are >75 years old or if patients cannot tolerate high-intensity statins (strength of recommendation A).36

Conclusion

ACS is a potentially life-threatening condition that affects millions of individuals each year. Despite declining rates of hospitalization for MI, the identification and prevention of ACS continues to be an important public health concern. Over the past several years, studies have led to an improved understanding of the pathophysiology of ACS and advancements have been made in the medical management of this condition. Initial ACS management should include risk stratification, appropriate pharmacologic management including DAPT, anticoagulation and appropriate adjuvant therapies, and a decision to pursue an early invasive or conventional treatment strategy. Long-term management following an ACS event should follow evidence-based recommendations and should be individualized to each patient.

References


