

Acute Coronary Syndromes

Antiplatelet therapy, reperfusion strategy and timing, cardiogenic shock management, secondary prevention pharmacotherapy, and DAPT duration for STEMI and NSTEMI-ACS.

COR● I • Recommended● IIa • Reasonable● IIb • May Consider● III • No Benefit / Harm

1 Initial Antiplatelet Therapy — Aspirin & Oral P2Y12

All patients with ACS, as soon as possible after presentation

I A	Aspirin loading dose (162–325mg, chewed) then 75–100mg daily maintenance — recommended to reduce death/MACE.	
I A	An oral P2Y12 inhibitor added to aspirin recommended in all ACS to reduce MACE.	
I B-R	STEMI managed with PPCI — prasugrel or ticagrelor preferred to reduce MACE/stent thrombosis; clopidogrel if unavailable/contraindicated (I, C-LD).	
I A	STEMI treated with fibrinolytic therapy — clopidogrel administered concurrently to reduce death/MACE.	
I B-R	NSTE-ACS undergoing PCI — prasugrel or ticagrelor recommended; ticagrelor if managed without planned invasive evaluation.	
III Harm • B-R	History of stroke/TIA — prasugrel should not be administered.	
AGENT	LOADING DOSE	MAINTENANCE
Aspirin	162–325mg PO	75–100mg PO daily
Clopidogrel	300–600mg (300mg if age >75y + lytics)	75mg PO daily
Prasugrel	60mg PO	10mg daily (5mg if <60kg or ≥75y)
Ticagrelor	180mg PO	90mg PO twice daily

2 STEMI — PPCI Timing & Fibrinolytic/Pharmacoinvasive Strategy

I A	Symptom onset <12h — PPCI with goal FMC-to-device ≤90min (≤120min if transfer required) to improve survival.
I B-R	Cardiogenic shock or hemodynamic instability — emergency revascularization (PCI or CABG) indicated irrespective of time from onset.
IIa B-NR	Symptom onset 12–24h — PPCI reasonable to improve outcomes.
IIa C-LD	Onset >24h with ongoing ischemia or life-threatening arrhythmia — PPCI reasonable.
III NB • B-R	Stable, totally occluded artery >24h, no ongoing ischemia/HF/arrhythmia — PPCI should not be performed.
I A	Non-PCI-capable facility, transfer time >120min — immediate transfer to PCI-capable center after fibrinolytic therapy recommended.
I B-R	Suspected failed reperfusion — immediate angiography with rescue PCI recommended to reduce death/reinfarction.
I B-R	Successful lysis — early angiography 2–24h post-fibrinolytic with intent to PCI recommended.

3 NSTEMI-ACS — Invasive Strategy Selection & Timing

I A	Intermediate/high ischemic risk, candidate for revascularization — invasive approach during hospitalization recommended.
I C-LD	Refractory angina or hemodynamic/electrical instability — immediate invasive strategy indicated.
IIa B-R	High-risk for ischemic events — early invasive strategy (within 24h) reasonable.
IIa B-R	Not high-risk, intended invasive — reasonable to angiogram before discharge.

4 Cardiogenic Shock — Revascularization & MCS

Occurs in ~10% of STEMI; 40–50% early mortality

I B-R	ACS + cardiogenic shock/instability — emergency revascularization of culprit vessel (PCI or CABG) indicated to improve survival, irrespective of time from onset.
III Harm • B-R	Routine PCI of noninfarct artery at time of PPCI should not be performed — higher risk of death/renal failure.
IIa B-R	Selected patients with severe/refractory shock — microaxial flow pump reasonable to reduce death.
IIa B-NR	Mechanical complication of ACS — short-term MCS reasonable as bridge to surgery.
III NB • B-R	Routine IABP or VA-ECMO not recommended — lack of survival benefit.

5 Secondary Prevention Pharmacotherapy

BETA BLOCKERS			RAAS INHIBITORS			LIPID MANAGEMENT		
I A	No contraindications — early (<24h) oral beta blocker recommended to reduce reinfarction/VF.		I A	High-risk (LVEF ≤40%, HTN, DM, anterior STEMI) — ACEi or ARB indicated.		I A	High-risk statin recommended for all to reduce MACE.	
			I B-R	LVEF ≤40% + HF symptoms/DM — MRA indicated.		I A	On max statin, LDL-C ≥70mg/dL — add nonstatin agent.	

6 DAPT Duration — First 12 Months Postdischarge

I A	Not at high bleeding risk — DAPT (aspirin + oral P2Y12) for at least 1 year to reduce MACE.
I A	Tolerated ticagrelor-based DAPT — transition to ticagrelor monotherapy ≥1 month post-PCI to reduce bleeding.
I A	High GI bleeding risk — PPI recommended in combination with DAPT/OAC.
IIb B-R	De-escalation (ticagrelor/prasugrel → clopidogrel) after 1 month may be reasonable to reduce bleeding.
IIb B-R	High bleeding risk undergoing PCI — transition to single antiplatelet after 1 month may be reasonable.