

STEMI ALGORITHM FOR LHIN IV

Brantford General • Haldimand War Memorial Hospitals • Hamilton Health Sciences • Joseph Brant Memorial
Niagara Health • Norfolk General • St. Joseph's Healthcare • West Haldimand General • West Lincoln Memorial

STEMI definition

Symptoms and ST-segment elevation ≥ 0.1 mV (1 mm) in at least 2 contiguous precordial leads or 2 adjacent limb leads.

Contraindications for Fibrinolysis

Absolute:

- Intracranial hemorrhage
- Cerebral vascular lesion
- Intracranial neoplasm
- Ischemic stroke within 3 months except acute ischemic stroke < 3 hours
- Suspected aortic dissection
- Active bleeding or bleeding diathesis
- Facial trauma within 3 months

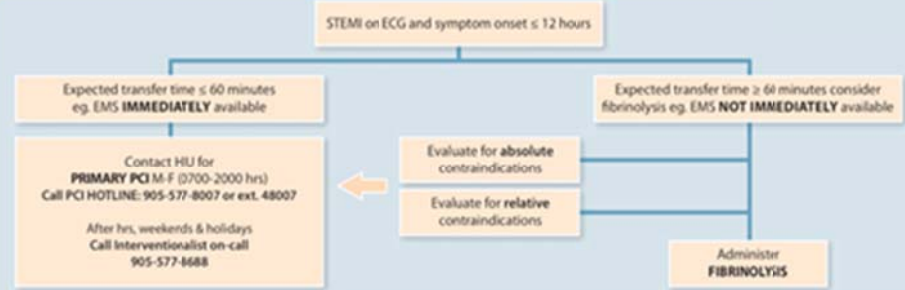
Relative:

- Cardiac arrest with prolonged CPR
- Cardiogenic shock
- Killip class ≥ 3
- Symptom onset > 3 hours
- Severe uncontrolled hypertension
- Recent or high risk of bleeding
- Active peptic ulcer
- Diagnosis of STEMI is in doubt

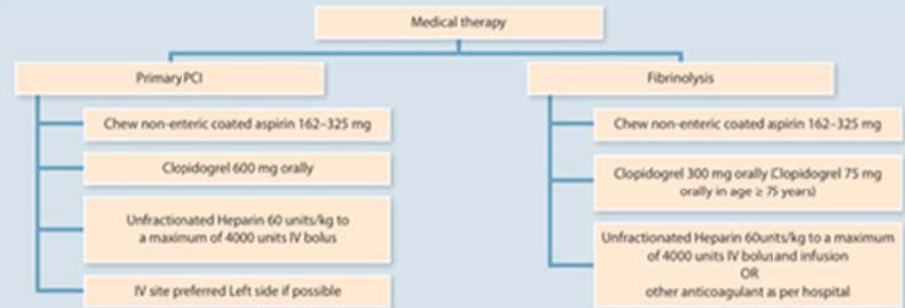
High Risk STEMI ECG criteria

- ≥ 2 mm ST-elevation in two anterior leads
- ≥ 1 mm ST-elevation in two inferior leads coupled with 2 mm ST-depression in the anterior leads

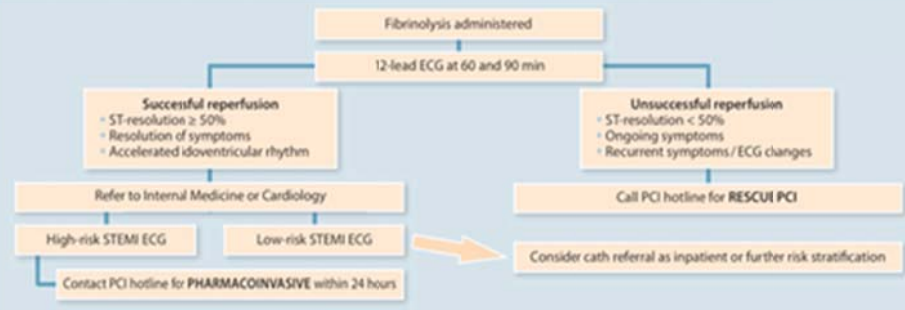
Step 1: Select Reperfusion strategy in STEMI PRIMARY PCI vs. FIBRINOLYSIS



Step 2: Consider Adjuvant Therapy in STEMI



Step 3: Assessment Post Fibrinolysis (In ED or as an Inpatient) RESCUE and PHARMACOINVASIVE



Suggested EMS/Dispatch Communication Strategy

- 1 Physician or designate to place call to Ambulance Communication Center (Ambulance Dispatch).
- 2 Communicate the following sequence:
 - (a) This is Dr. ___ from ___ (hospital), I have a transfer for EMERGENCY ANGIOPLASTY.
 - (b) Patient is critically ill, requesting Code 4 transfer to Hamilton General Hospital, patient has been accepted by the Heart Investigation Unit.
 - (c) Patient's Diagnosis: Acute Myocardial Infarction
 - (d) State what equipment and/or escorts will be accompanying patients on transfer.
 - (e) Is patient a DNR, or do they have a communicable disease?
 - (f) Patient is prepared and READY TO GO.
- 3 Obtain and provide a Medical Transfer Number to CACC. However, do not delay transfer while waiting for number.

Note: The ambulance service may not be able to provide return transport for escorts. Therefore, the sending facility should be prepared to make arrangements for escorts to return to their facility (if applicable)