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Society Guidelines

2019 Canadian Cardiovascular Society/Canadian Association of Interventional Cardiology Guidelines on the Acute Management of ST-Elevation Myocardial Infarction: Focused Update on Regionalization and Reperfusion

ELEMENTS OF A REGIONAL STEMI NETWORK

A pre-planned default initial reperfusion strategy (PPCI or fibrinolysis) for each hospital within the network based on geographic and transport considerations.

The ability to deliver appropriate adjunctive PCI following fibrinolysis.

The capability of emergency medical service (EMS) and emergency department teams to rapidly diagnose and treat STEMI.

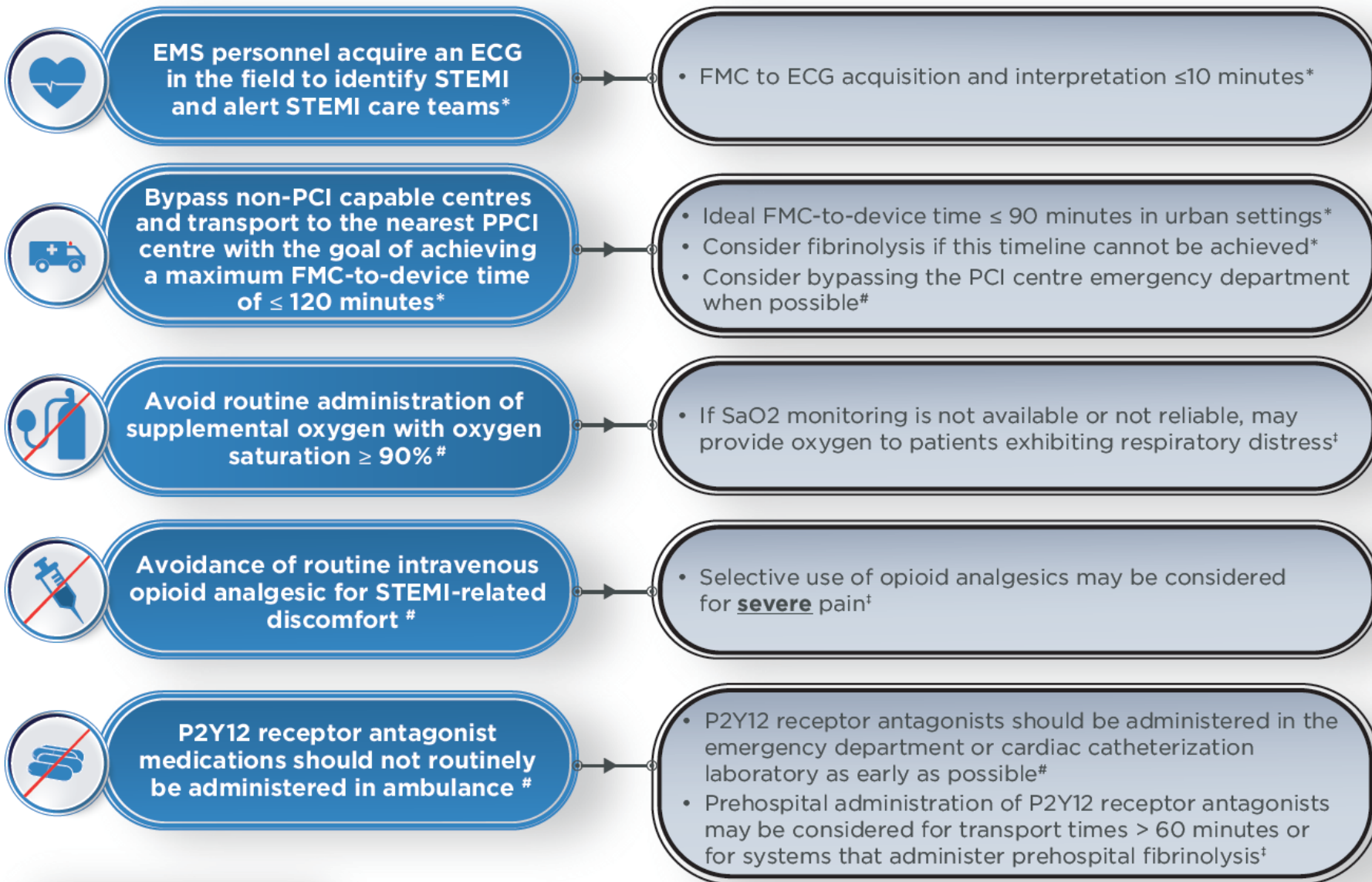
For PPCI, the ability for EMS and emergency departments to activate the STEMI team for reperfusion therapy through a 'single call' mechanism immediately from the point of first medical contact (FMC) with the patient.

The implementation of a "no-refusal" policy at PCI centres for STEMI patients who are deemed appropriate for PPCI.

The ability for EMS teams that diagnose STEMI patients in the field to bypass non-PCI centres and transport patients directly to a PCI centre.

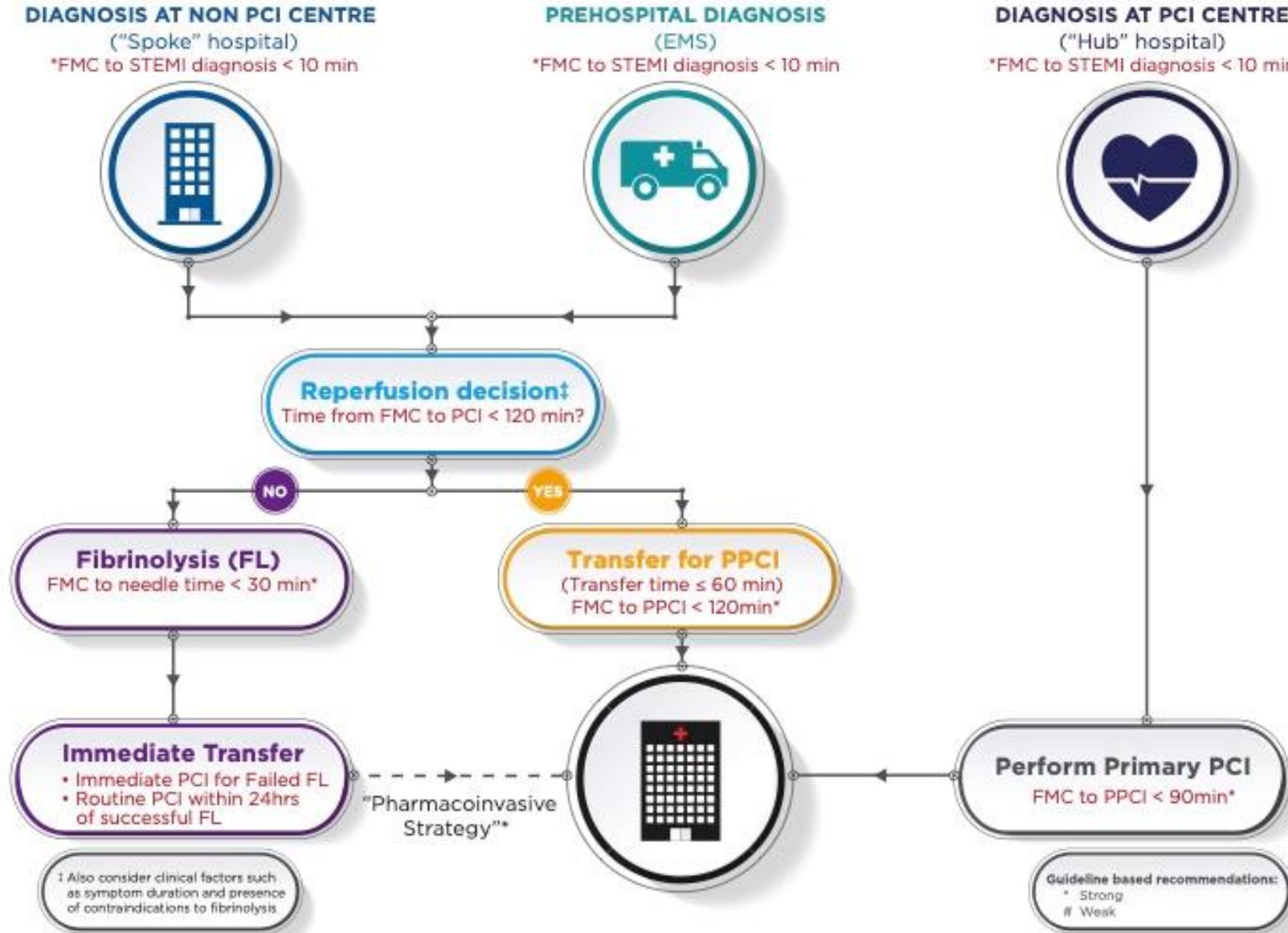
The ability for appropriately selected patients to bypass the emergency department (ED) of a PCI centre and proceed directly to the cardiac catheterization laboratory.

Pre-Hospital Management of STEMI



* Strong recommendation
Weak recommendation
† Practical Tip

Fig 1. Summary of Reperfusion Strategies



REPERFUSION TREATMENT GOALS

METRIC	GOAL <i>(Regional goal: $\geq 75\%$ of cases to achieve each metric)</i>
First Medical Contact (FMC) to Diagnosis (ECG acquisition & interpretation)	≤ 10 Minutes
Diagnosis to Catheterization Lab Activation	≤ 10 Minutes
Door-in to Door-out Time for Emergency Departments	≤ 30 Minutes
Transport Times for Inter-Hospital Transfers or STEMI patients diagnosed in the field	≤ 60 Minutes
Time from arrival at catheterization lab to first balloon activation	≤ 30 Minutes
Total time from FMC to first device activation (for primary PCI)- for non-PCI centres or patients diagnosed in the field	≤ 120 Minutes
Total time from FMC to first device activation (for primary PCI) - for patients presenting to PCI centres	≤ 90 Minutes

Fig 2. Practical Aspects of Primary PCI

