

# Chest Pain – Suspected Acute Coronary Syndrome (ACS)

The term ACS includes unstable angina (UA), non-ST elevation MI (NSTEMI), and ST elevation MI (STEMI).  
Assess and treat life-threatening arrhythmias prior to utilizing this protocol

## <sup>2</sup>Remember to look for Posterior STEMI!

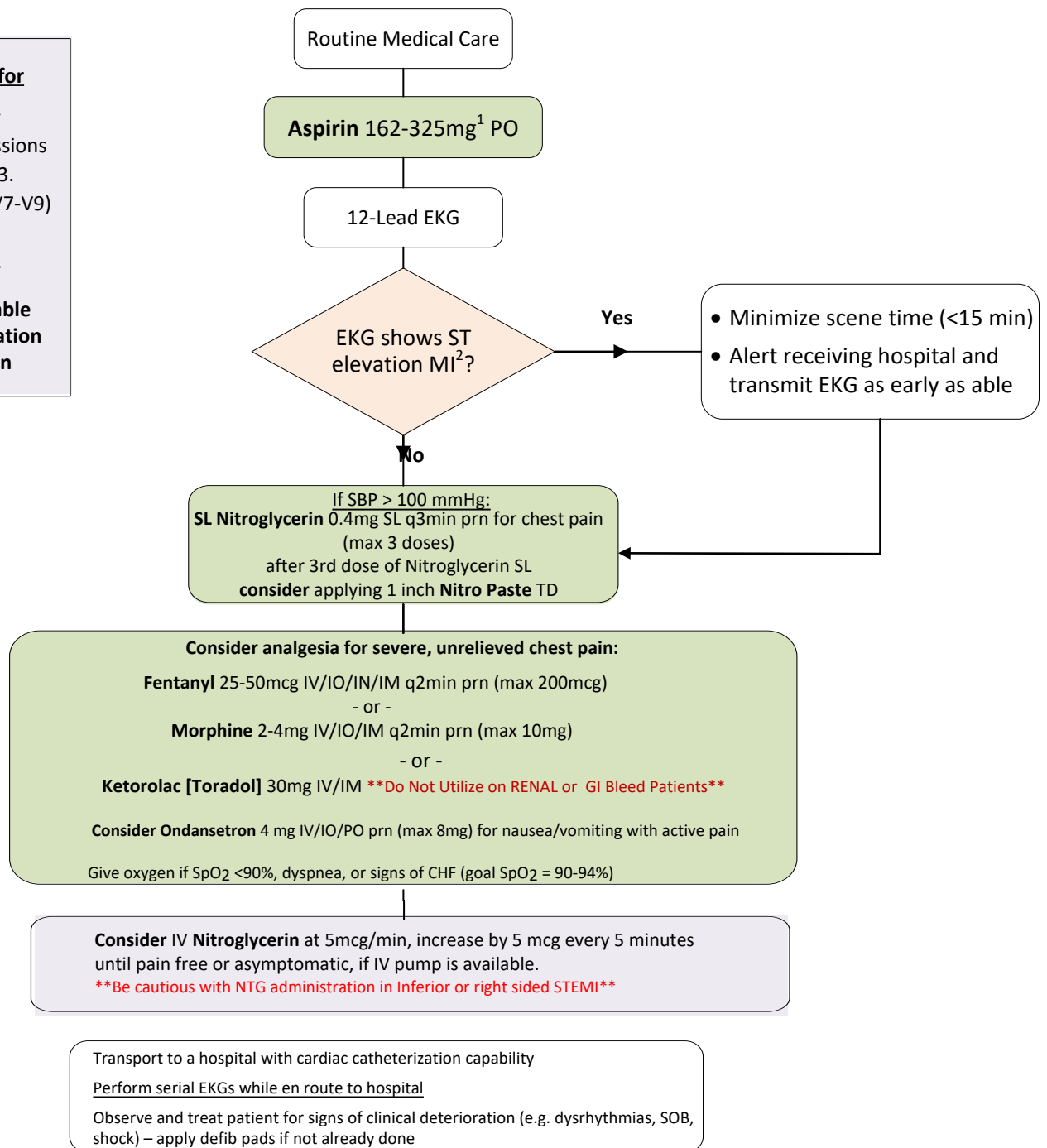
- You will see ST depressions (often >2mm) in V1-V3.
- Posterior EKG (leads V7-V9) with ST elevation will confirm the diagnosis.

**Isolated LBBB in a stable patient is not an indication for STEMI activation**

## NTG Contraindications

- SBP < 100mmHg
- Recent use of erectile dysfunction medication (Viagra/Levitra within 24 hours, Cialis within 48 hrs)

Suspected RV infarct<sup>3</sup> is a relative contraindication (monitor for hypotension)



- ACS can present atypically – consider a cardiac etiology when patients reports SOB, sweating, nausea/vomiting, dizziness, syncope, or vague/generalized complaints. Atypical symptoms are most common in women, the elderly and diabetic patients.
- Document the patient's cardiac risk factors (outlined in the [Cardiac Preambles](#)) in the EMS Run Report.

<sup>1</sup> Document patient's own aspirin use within the last 24 hours. **Aspirin (ASA)** is contraindicated in patients with current and recent GI bleeding. The term "recent" includes bleeding requiring hospitalization or blood product transfusion within the last 6 months.

<sup>2</sup> **Nitroglycerin (NTG)** - If blood pressure drops significantly after a single NTG dose, discontinue NTG use. Treat NTG-induced hypotension (SBP <100) with **Crystalloid fluid bolus 250 ml IV**.

<sup>3</sup> Consider an RV infarct in all inferior STEMI (leads II, III, AvF) with hypotension. ST elevation in lead V4R (obtain a right sided EKG) helps to make this diagnosis. Hypotension and bradycardia are common.

<sup>4</sup> Morphine use in NSTEMI is controversial and may inhibit antiplatelet medications. Use opiates judiciously.