

# Summary of dispositions:

# **Discharge:**

- Symptoms >3hr, initial hsTn <5, HEART score <4</li>
- Initial hsTn <5,</li>1hr delta <5,</li>HEART score 0-6
- 0, 1, 3hr hsTn normal\*, all deltas <5, HEART score <7</li>
- Intermediate risk and shared decision making chooses home with outpatient follow-up

# Admit / consult:

- Usual indications (STEMI, etc.)
- Any hsTn delta >25
- Any hsTn >100
   (T0hr, T1hr, or T3hr)
- hsTn of 50 100
   (indeterminate range)
   with high suspicion for ACS

## Intermediate risk

(CDU or Shared Decision Making):

- hsTn between normal\* and 50
- hsTn between normal\* and 100 and <u>low</u> suspicion of ACS
- hsTn delta between
   5 25 (5-15 at 1hr)
- HEART score >3 with clinical concern

<sup>\*</sup> Normal = 99%ile, sex based = <15(F) / <20(M) ng/L hsTn levels above are in ng/L

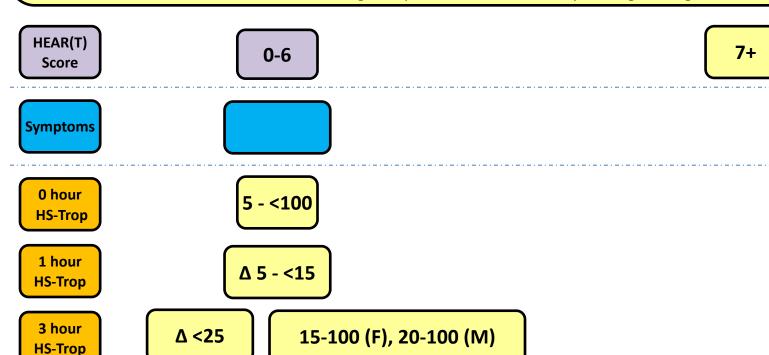
#### **LOW RISK**

• Consider discharge and OP follow-up

HEAR(T) 0-3 4-6 Score >3 hour <3 hour **Symptoms** 0 hour <5 <5 <5 **HS-Trop** 1 hour Δ <5 Δ <5 **HS-Trop** 3 hour **HS-Trop** All <15 (F), <20 (M) and  $\Delta$  <5



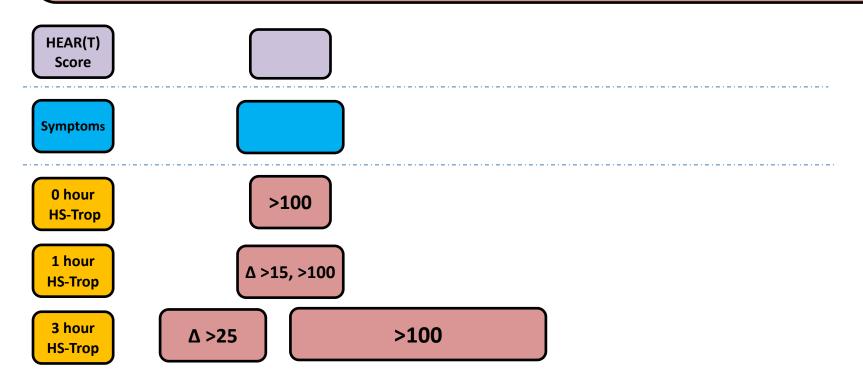
- Shared decision making
- OP follow-up for HEART score 0-3
- Observation and stress testing / CTA
- If hs-TnI 50-100 and high suspicion for NSTEMI, may manage as high-risk



#### **HIGH RISK**

Consider:

- Cardiology consult
  - Admission
- Follow treatment guidelines for most likely diagnosis (Type 1 NSTEMI, Type 2 MI, or nonischemic myocardial injury



### Equivalency of values: Tnl vs. hs-Tnl (EUH, EUHM, ESJH, EJCH, Grady) \*

Note the following differences between standard troponin I and high-sensitivity troponin I (hs-TnI):

- 1. Units of measurement are different. hs-Tnl is reported as integers in ng/L (whereas Tnl was in ng/mL)
- 2. To convert from hs-TnI to standard TnI (for clinical context), <u>divide by 1000</u>. Example: hs-TnI value of 100 ng/L corresponds to a standard TnI value of 0.1 ng/mL. See table below.
- 3. hs-TnI has different "abnormal" cut point, (or 99th percentile value) in women and men.

standard TnI (ng/mL)		hs-Tnl (ng/L)	Notes
These Tnl	┌ 0.0023	< 2.3	LOQ** for hs-TnI
values are	0.015	15	99 percentile (abnormal) hs-TnI value for women
reported *	0.02	20	99 percentile (abnormal) hs-Tnl value for men
as < 0.03	0.03	30	
ng/mL	0.04	40	99 percentile (abnormal) standard TnI value
	0.05	50	
	0.1	100	
	0.5	500	
	1	1000	
	10	10000	
	25	> 25000	Highest reportable value of analytic range for hs-TnI
	>70		Highest reportable value of analytic range for TnI

<sup>\*</sup> Grady, EUH, EUHM, ESJH, and EJCH use a Beckman Coulter UniCel DxI analyzer with the following "abnormal" (>99th percentile) cut points: >14.9 mg/L in women; >19.8 ng/L in men. These cut points do NOT apply for EUOSH, EDH, EHH, or ELTAC (see separate protocols for these operating units).

<sup>\*\*</sup> LOQ: Lowest hs-Tnl concentration that is reportable as a number with specified certainty hs-Tnl: high-sensitivity troponin I