

# High Sensitivity Troponin Protocol (HsTN)

Inclusion: patients with concern for ACS

Exclusion: STEMI, dynamic ECG changes, Wellen's etc. OR non – ACS diagnosis found (SVT, AF w RVR, PE, HF, AKI etc.)

99<sup>th</sup> Percentile:  
14 ng/L for F  
22 ng/L for M

52 ng/L HsTn ~ 0.03 ng/ml  
old Trop T assay

**Troponin @ 0 hour**

< 6 ng/L

6 – 52 ng/L

> 52 ng/L

OR

Presumed / known chronic  
myocardial injury  
ESRD / HF etc

**Continuous CP > 3 hr**

No, does not have CP  
> 3 hours

**Troponin @ 2 hour  
&  
Repeat ECG**

As above ACS  
diagnosed only  
with clinical  
concern for ACS -  
chronic myocardia  
injury or acute  
myocardial injury  
from other source  
AF w RVR etc. are  
excluded

Consider Repeat  
Troponin @ 1 hour  
Delta < 3  
( per ACC – no repeat  
required )

< or = 14 ng/L F  
< or = 22 ng/L M

> 52 ng/L

- OR -  
Delta > 5 ng/L

All other values

**Acute MI RULED  
OUT**

- AND -  
Delta < 3

**Acute MI - RULED IN**

**DISCHARGE**

ACC – consider safe  
discharge of intermediate  
group:  
1. Grossly normal cath <2  
yr  
2. Negative stress < 1 yr

**INDETERMINATE**

**CONSIDER RISK  
STRATIFICATION TOOL**

HEART Score > 3

**ADMIT**

Consider OBS if access  
to outpatient care  
inadequate or high  
clinical concern

also  
Consider in patients with  
elevated HEART score –  
slight suspicion and points  
for age & risk factors only

e.g. HEART or EDACS