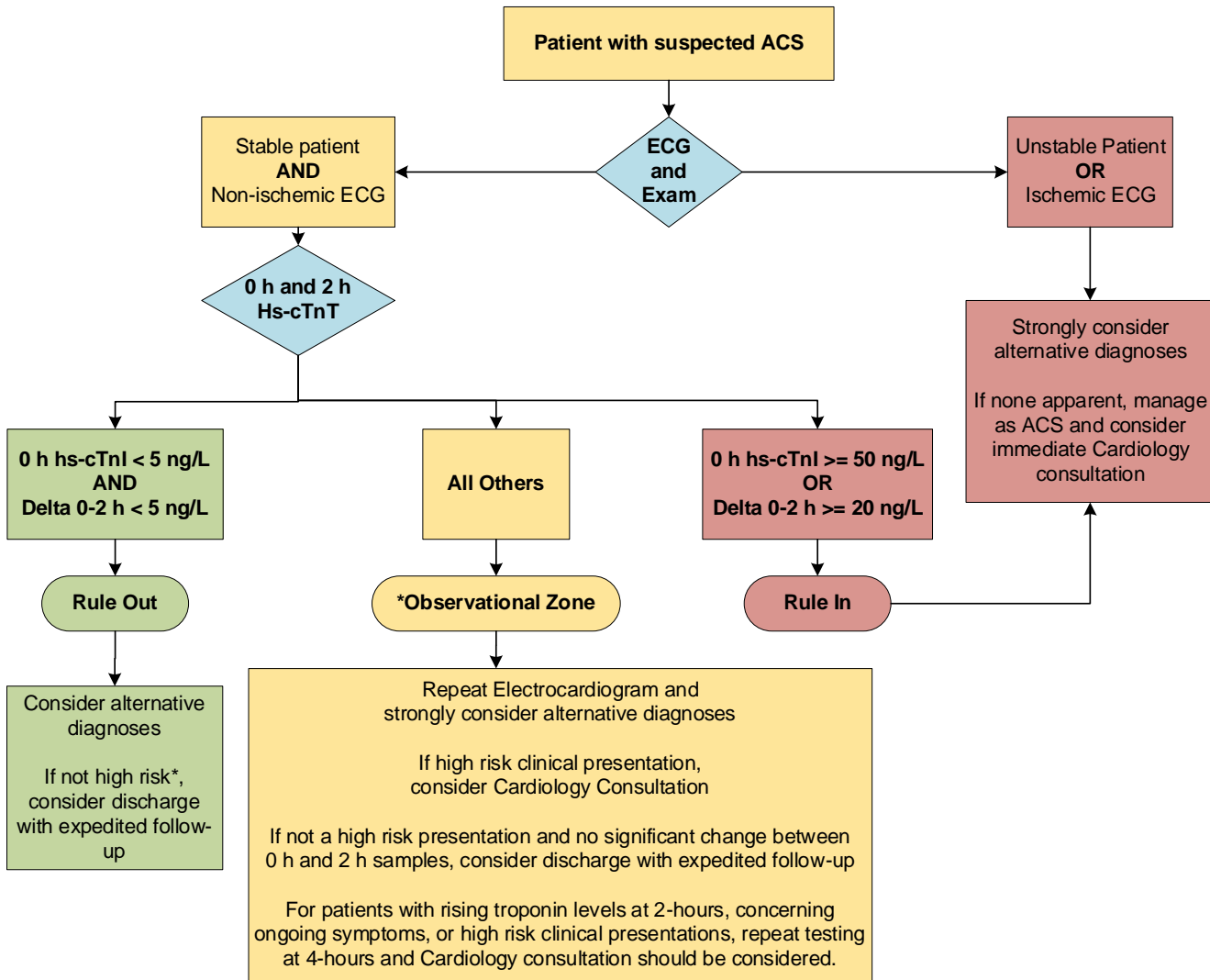


**Chest Pain Pathway for Troponin I, High Sensitivity - Access - Calgary
Rural Hospital (Canmore, High River)**



Note:

* For all patients with abnormal hs-cTnI results, check the medical record for prior results. Many patients have stable abnormalities in hs-cTnI and measure concentrations similar to the patient's baseline are reassuring.

ESC 2015 Guidelines advise that patients are unlikely to have an acute MI if:

- hs-cTn < Upper Limit of Normal (i.e. hs-cTnI < 18 ng/L) AND,
- >6 hrs since symptom onset AND,
- pain-free AND,
- the clinical presentation is Low Risk

However, coronary ischemia has not been definitively excluded and unstable angina must be considered. Disposition after a single hs-cTnI < 18 ng/L should only be considered for low risk patients with > 6 hrs since symptom onset and should be used cautiously.

All patients presenting less than 6-hours since symptom onset, with active symptoms or presentations that are not clearly low risk should have repeat hs-cTnI testing at 2 hours. For patients with rising troponin levels at 2-hours, concerning ongoing symptoms, or high risk clinical presentations, repeat testing at 4-hours and Cardiology consultation should be considered. Consider using a structured risk assessment tool such as the HEART score to aid risk stratification for all patients.

HEART Score Calculation			
History	Highly suspicious	2	
	Moderately suspicious	1	
	Slightly suspicious	0	
ECG	Significant ST-depression	2	
	Non-specific repolarization disturbance, LBBB, LVH, Paced	1	
	Normal	0	
Age	≥ 65 years	2	
	45 - 64 years	1	
	≤ 44 years	0	
Risk Factors	<input type="checkbox"/> Diabetes <input type="checkbox"/> Current smoker <input type="checkbox"/> HTN (diagnosed) <input type="checkbox"/> HL (diagnosed) <input type="checkbox"/> Family hx CAD <input type="checkbox"/> Obesity	≥ 3 risk factors or history of atherosclerotic disease	2
		1 or 2 risk factors	1
		No risk factors known	0
hs-cTnT (Peak)	> 3x normal limit (43ng/L or greater)	2	
	1-3x normal limit (14-42ng/L)	1	
	< normal limit (<14ng/L)	0	
Total (10 maximum)			
HEART Score Interpretation			
		Low Risk	0-3
		Moderate Risk	4-6
		High Risk	7-10