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Title:	Chest pain flowchart (Sept 2020)	
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Quality Care - for you, with you

Patient addressograph

Allergy status:

## Patient times / results

	Time	hsTnT
Pain		result
To		
T1		
Т3		

## **General notes**

- > Pathways are designed to help, not to override, clinical decision making
- To = baseline / arrival highly sensitive troponin
- T1 = 1 hour troponin
- T3 = 3 hour troponin
- $\succ \Delta$  = absolute delta change between troponin samples
- If there is a good clinical reason to follow an alternative course of action then it should be done with expert input as necessary
- > This pathway is based on European Society of Cardiology guidelines
- > This pathway only applies to patients presenting with chest pain
- Be cautious of early presenting patients: If patients present within 3 hours of worst pain then will require T0 + T1 + T3.
- > If patient is unsure of onset then perform T0 + T1 as a minimum
- Renal dysfunction: Elevated troponin should not be primarily attributed to impaired creatinine clearance unless GFR<30 and there are no features in the history to suggest an acute cardiac cause
- \*The observation group represents those patients requiring further assessment and a 3 hour troponin sample. A change of >20% between T1 and T3 (assuming one value is >14ng/L) is consistent with a diagnosis of ACS.

## Non-cardiac causes of raised troponin

- ✓ Critical illness / sepsis
- ✓ PE / pulmonary hypertension
- ✓ Acute exac COPD
- ✓ Subarachnoid haemorrhage
- ✓ CVA
- ✓ ESRD
- ✓ Seizure
- ✓ Drug toxicity
- ✓ Rhabdomyolysis
- Strenuous exercise
- Infiltrative disease

## Cardiac causes of raised troponin

- Acute coronary syndrome
- ✓ Tachyarrhythmia
- ✓ Cardiac failure
- ✓ Myocarditis
- Takotsubo cardiomyopathy
- ✓ Aortic dissection
- ✓ Coronary spasm
- ✓ Cardiac contusion
- ✓ Valvular disease e.g. aortic stenosis
- ✓ Hypertensive emergency
- ✓ Post procedure