



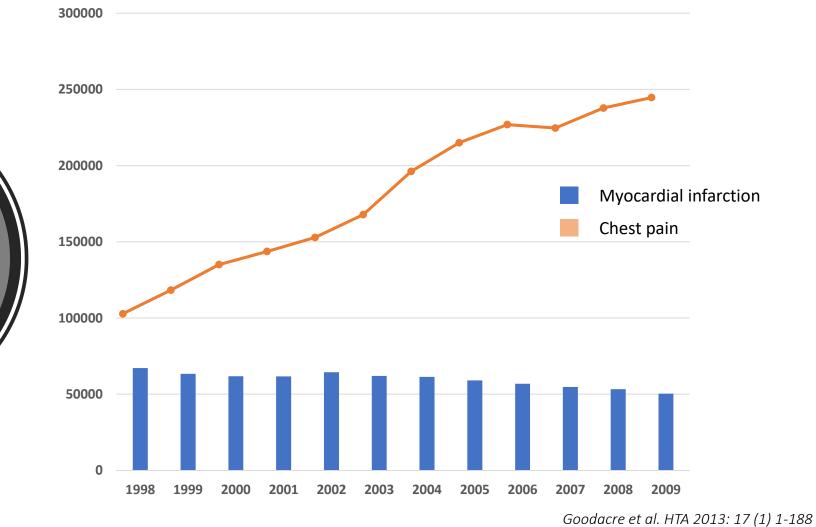
Qualitative data

Using qualitative data in a clinical trial context

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Trends in hospital admissions with myocardial infarction and chest pain



Foundation



The problem



Diagnosis of myocardial infarction

01

Signs of myocardial ischaemia on the ECG

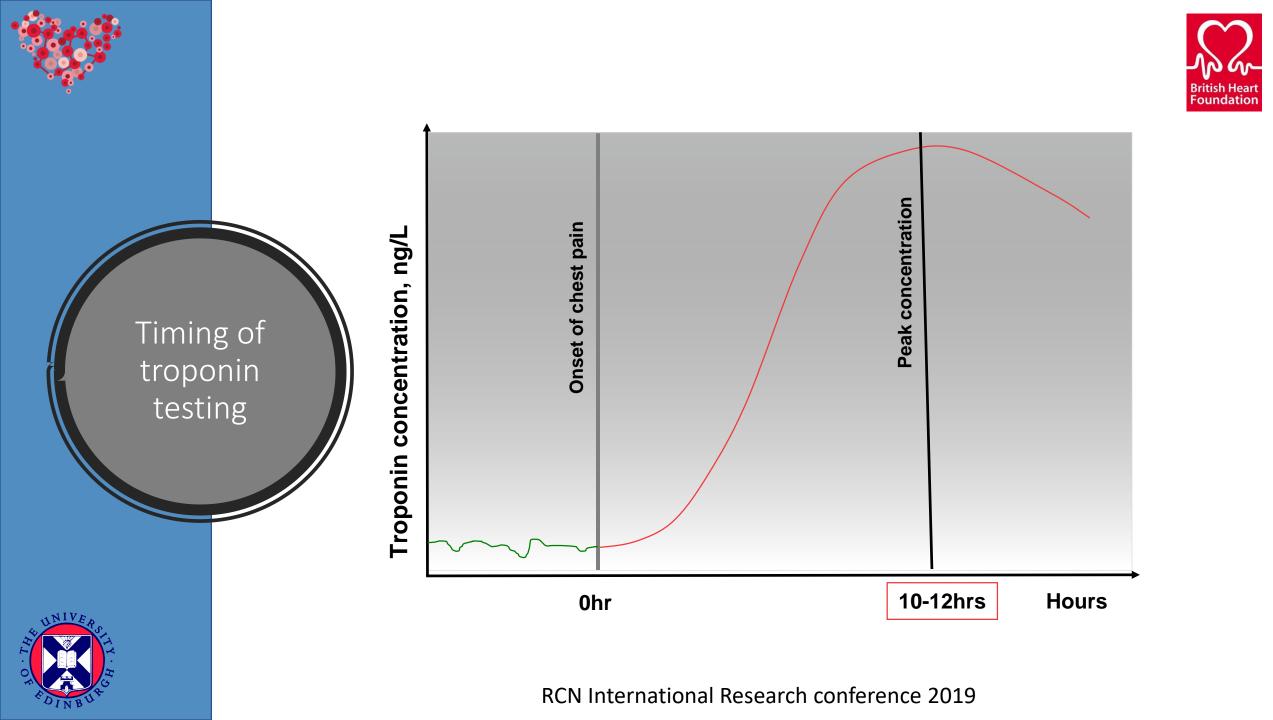
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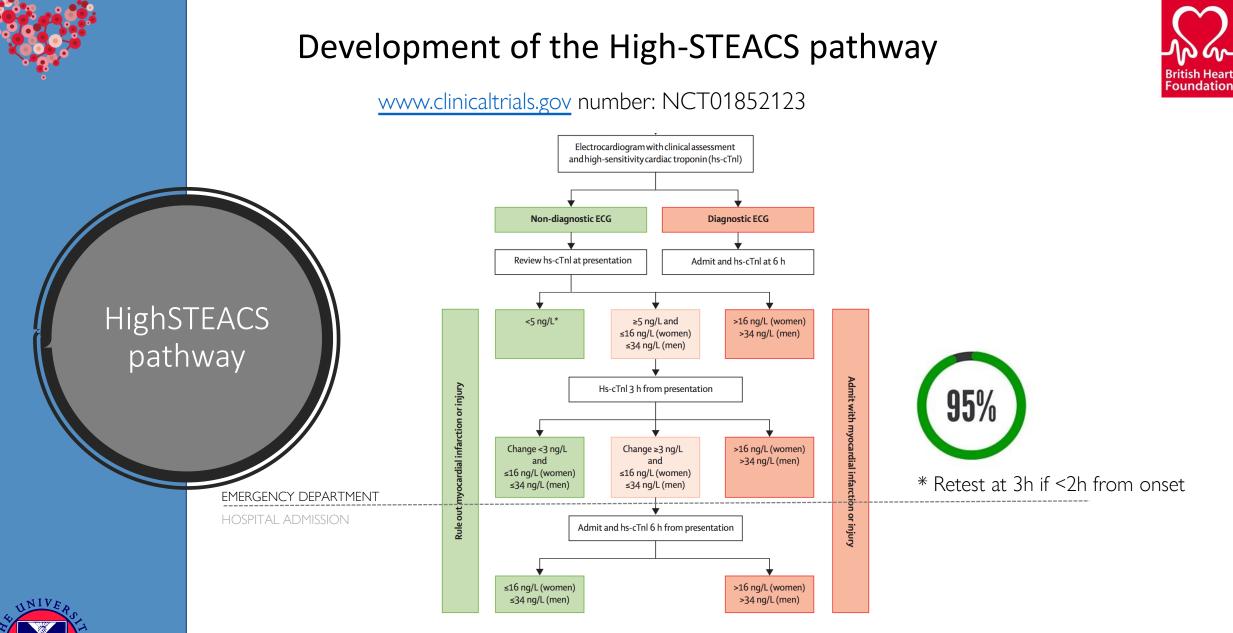
Clinical symptoms

03

Rise in troponin



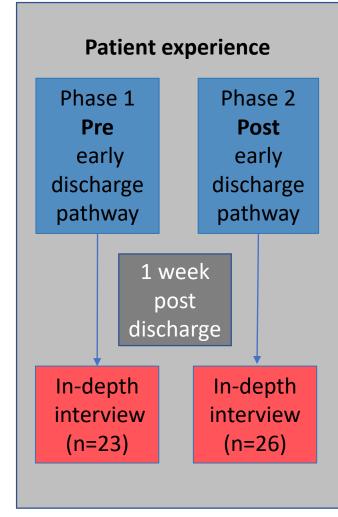




Shah et al. Lancet 2016;387:2289-91



Qualitative methods



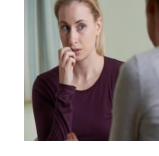
Clinician experience



Semi-structured interviews 'Think aloud' methodology

THE DINBUT





Pre-hospital influence



GP consultation

NHS 24 consultation

Lay networks

Oh, that...that...it...it then went from, I've got a pain in my chest to, I've got a pain in my chest and someone thinks that my symptoms are serious. Um, so it...it escalated a wee bit. So I went from thinking, well, maybe there's something wrong to, well, it's maybe more than a maybe



Validation of symptoms

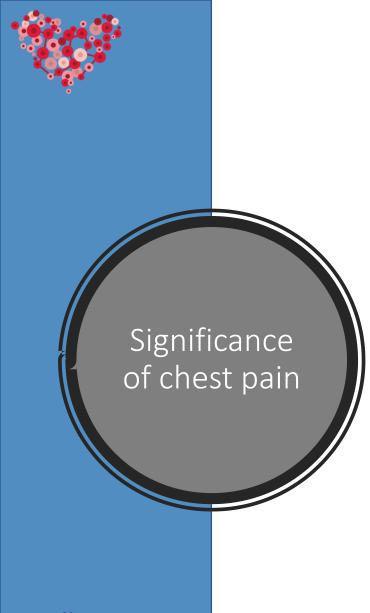
"They hooked me up to the ECG machine, and took blood pressure, very, very quickly. Erm, didn't say anything about any of the, the machines or anything. It was, it was very fast. Slightly, a bit concerned why everything was moving so fast."





"Em, and then I thought, oh, no. Then it was...slight panic set in, because I thought, it's not as straight forward as I thought. Em...what if they have found something?"





Participant illness story



ain

ifection

018

I just know there's something going on. There's a chest pain, whether or not it's my heart I don't know. That's the thing that makes me anxious

Jun 2016

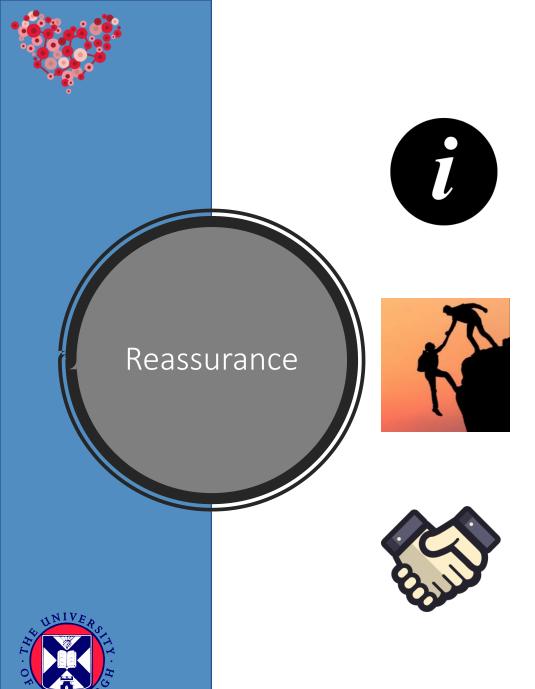




Reassurance

"You know <u>, they</u>			<i>"I felt as though nobody</i>	
werewell tl	"There's always been		done anything to	
confident it wa	an element of		. It was right, you	
attack and th	incompleteness, where		o out, you can go	
like, you knov	l felt lik	e it wa	IS	me. Nobody had
know if I still	complete this time. It		d me because I still	
could see me	felt like it came to an		he same as when I	
heart atto	end."		went in."	







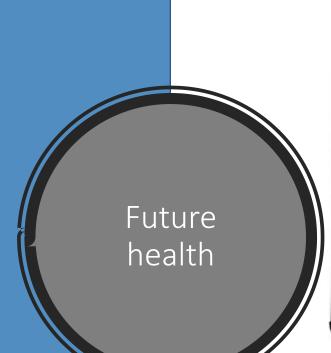
• Pre-test informatior

• Trust



• Clinician-patient int





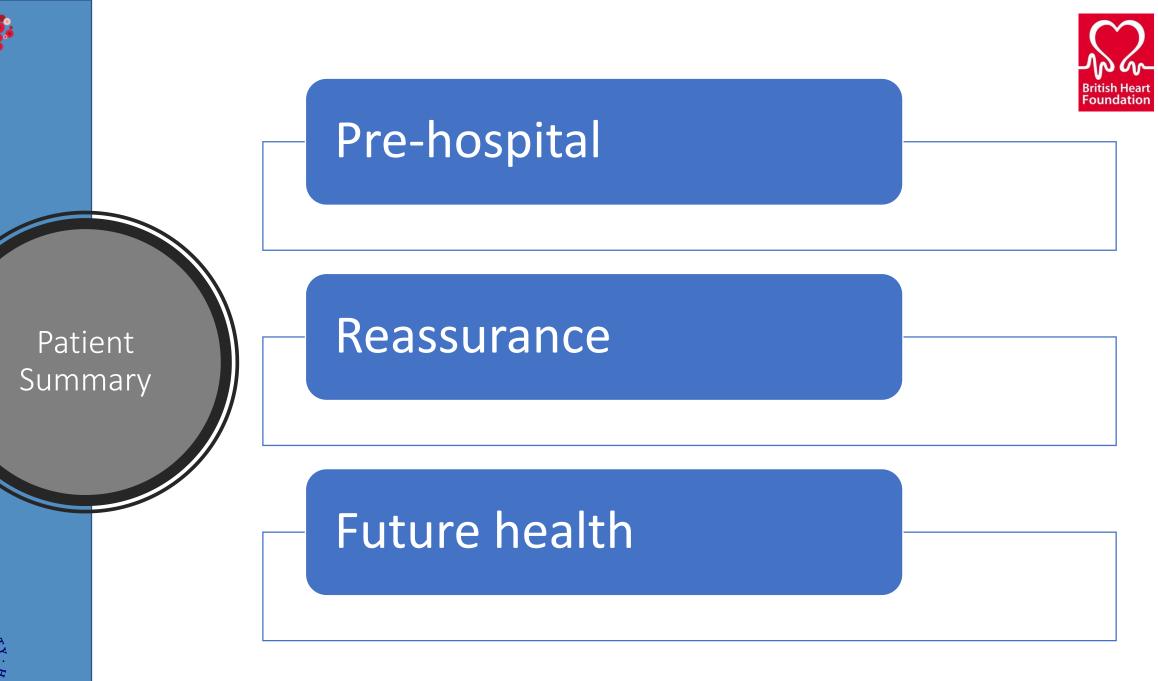
"I suppose you've still got that niggling thing, as I say, there, but okay, this wasn't a heart attack as such, but it doesn't mean that there's not, that I'm totally fit and healthy and not at risk of it... are they saying I've got a healthy heart, or are they just saying, you haven't had a heart attack?"

for granted

ill health

Improve cardiovascular health





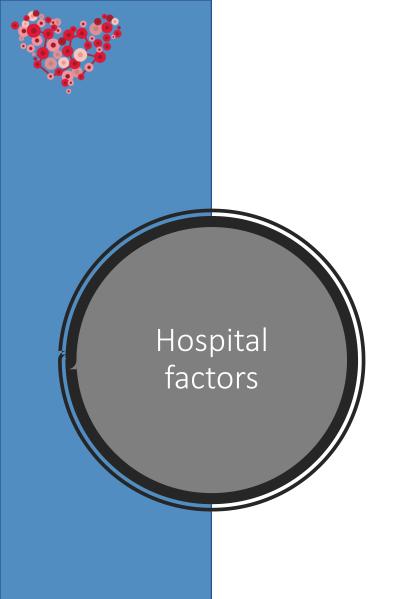




Approach	Participants	Interview method
Individual e-mail	5 Consultants 2 Nurse practitioners	7 individual interviews
Permission to attend end of Registrar teaching session	6 Registrars	1 group interview
Permission to attend end of junior doctor teaching session	8 Junior doctors	2 group interviews
Personal approach	2 Nurse practitioners	1 group interview
	1 ST1	1 individual interview

Formulation of study population







vel 1 – Immediate resuscitation

Level 2 – Very Urgent

Level 3 – Urgent

Lev

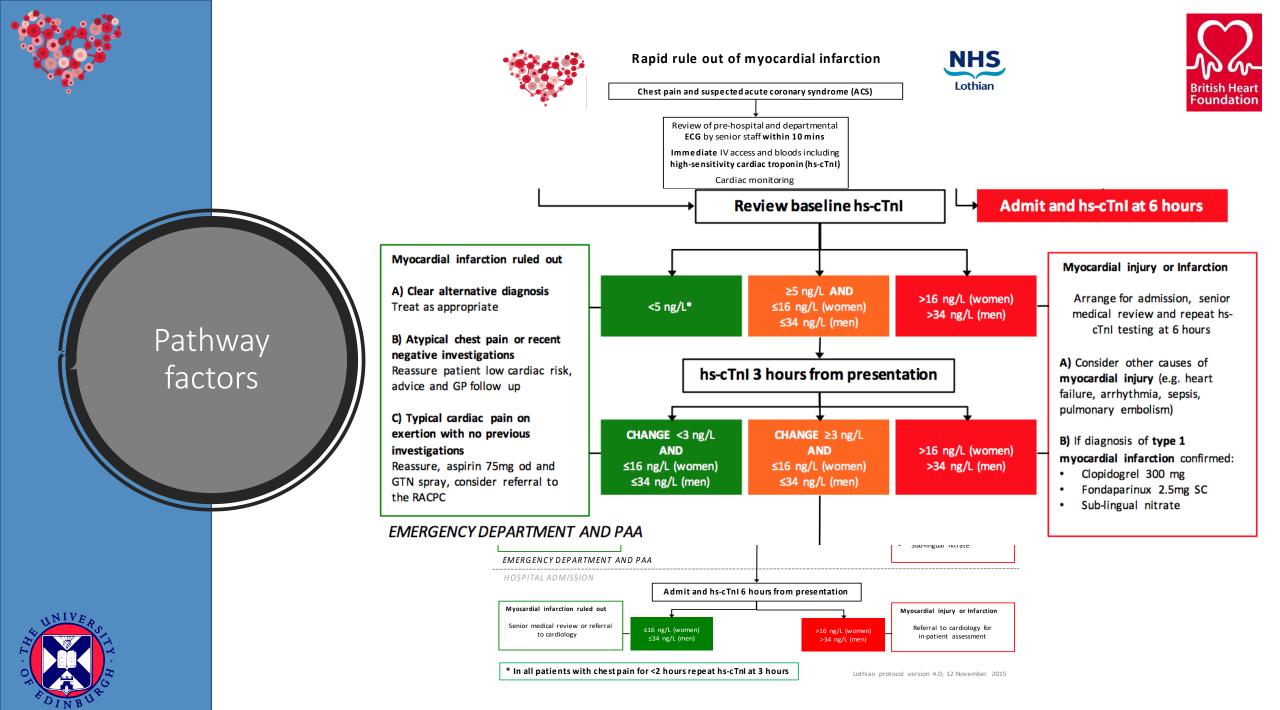
Level 4 – Standard

Level 5 – Non-urgent











I wouldn't have done that troponin so I would ignore that

It's elevated so you have to repeat it

So it's personalities you're dealing with as well, not just physical issues.



Patient

factors





