

Course Title	IMT3 Simulation	Scenario	Peri-arrest team
		Title	management
Patient	Name: Fred/Frieda Granger		
	Age: 72		
	Hospital number: R256635		

Learning	Technical	Non-Technical		
Outcomes	<ul> <li>Running an emergency peri-arrest</li> <li>Recognising frailty &amp; interventions which may treat acute pulmonary oedema.</li> <li>Considers appropriate ceiling of care.</li> </ul>	<ul> <li>Situational awareness</li> <li>Effective leadership</li> <li>Challenging sexism within the workplace - recognises and challenges behaviour of anaesthetist +/- relative</li> <li>Recognises the need to support the team and offers debrief/support to FY1</li> <li>Stress management</li> <li>Assertiveness</li> </ul>		
Scenario	Setting of inpatient peri-arrest at handov	er time (8pm). Complex team dynamics.		
Overview	The patient has been found by the FY1 on call who has been looking after the patient this evening. The FY1 put out the arrest call because they were worried about the patient's high respiratory rate and low saturations. FY1 present to give a handover and reports patient was admitted with decompensated heart failure on background of CCF, CKD, T2DM & frailty. No DNAR in place or clear escalation plan. Stressed FY1 (female) present who knows the patient was called as the patient became acutely short of breath. She is worried she has made a mistake as the patient deteriorated quickly whilst she was trying to do an ABG. Anaesthetist refuses to help initially as the patient is "beyond help" and states loudly they would refuse to intubate the patient as "too old". Anaesthetist interjects to state that if the patient had a "real doctor to start with" this may not have happened. May also suggest the FY1 is too junior to deal with this and the IMT3 should have been here to help earlier.			
	y – Relative is very worried about ather is frail and would not have wanted get him back to himself in any way they hale and asked to speak to the "real"			
Set Up	Faculty Controlling/Observing: Technician: x 1 Control room: x1 (Voice for referrals/switchboard)			
	<b>Faculty Embedded:</b> FY1 (female) x1 Anaesthetist x1 +/- actor x 1 (playing family member if er	nough faculty available)		
	Ward environment with monitor and mar	nnikin– peri-arrest call just gone out.		
	Staggered entry: 2 x IMTs enter. FY1 (pl Anaesthetist will arrive 1-2 minutes into			
Prop List	Mannikin Observation machine Crash trolley – fully stocked			
	CXR from admission (showing pulmonar	ry oedema) & patient notes.		



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story. Initiate				
medical management and consider escalating to the medical consultant				
on call.				
- Recognise an appropriate ceiling of care for the patient.				
<ul> <li>Support the team in managing conflict during the emergency call and offer support/debrief following the scenario.</li> </ul>				
<ul> <li>Challenge derogatory behaviour and discussion around how to do this</li> </ul>				
servations B)				
The scenario can come to an end once the patient has improved (observations B) and the IMTs have addressed the conflict highlighted within the scenario. If the				
patient relative is added in for complexity, the scenario will end once the plan has been explained to the relative.				
y y				

Participant briefing	You are the medical registrars on call tonight (ward cover and take) and the arrest bleep has gone off. One ward SHO is off sick, so both IMT3s attend the arrest.
Patient Briefing	Patient is drowsy throughout the whole scenario. He/she is not able to answer questions and reports he "cannot breathe" when he is asked questions. Very short of breath and wheezy throughout. He/she may state they "feel like they are drowning" if asked how they feel. If asked about ceiling of care patient is not sure and feels too unwell to answer.
Patient PMHx	Information available in end of bed notes: Day 4 of admission with decompensated heart failure on background of CCF, CKD, T2DM and frailty. His social history: carers BD, able to mobilise to toilet on same level living. Had been responding to diuretics but had blood test noting worsening renal function so this has been held for 48 hours.





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Investigations & results	ABG: pH 7.23 CO2 2.4 O2 7.4 HCo3 18 K 5.6 Na 152 Hb 104 Lactate 4.7				
& Tesuits	Blood results from that morning: Hb 108 WCC 7.1 Plts 187 Na 150 K 6.9 Creatinine 230 (Baseline 185) eGFR 34 INR 1.2 CRP 14 BNP 800				
	Drug chart: Aspirin 75mg OD Atorvastatin 40mg nocte Bisoprolol 5mg BD Dapagliflozin 10mg OD Eplerenone 50mg OD Furosemide 40mg IV infusion Losartan 50mg OD Metformin 1g BD				
Plant Briefing	<b>Embedded FY1 (Plant 1):</b> When scenario starts, you will be trying to attempt an ABG. On arrival of team, this frees you up and you give them a handover. You are very worried that you have caused the patient to deteriorate and this is your fault. You are not sure what to do so you called for help. As a result you are second-guessing yourself and feel you are not good enough. When comments are made about you, you understandably become very upset and may leave the room or become withdrawn. You try to be helpful where possible for the IMT3s.				
	<ul> <li>Embedded anaesthetist (Plant 2): You are a senior anaesthetist, who finds the crash team role the least enjoyable part of your job. You are very academic and are happy to share opinions about the appropriateness of resuscitation in certain situations.</li> <li>When you realise that the patient is quite frail, you are reluctant to intubate him and make comments that we should halt intervention, particularly when you realise he doesn't have a DNACPR.</li> <li>You are derogatory towards female doctors in authority and you have a belief that FY1s are "too junior to make decisions or care for sick patients". You are vocal towards the FY1 who is female and make comments which upset them. If you are ignored you continue to make these comments.</li> </ul>				
	Embedded family member (Pla You are patients son/daughter w he has been improving since add unwell today. Relative is very wo caused this. Understands that hi resuscitation if asked. Wants the	tho has been very mission and are s prried about deteri s/her father is frai	v involved in his care. You think hocked to discover he is more ioration and asks what has il and would not have wanted		

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	doctor, not the previously, but	ogatory if the IM nurse. You are n you are amenabl not want to go t	ot aware of any e to this if its is e	previous DNACP explained well. Yo	R discussions
On		А	В	С	D
Examination	Colour	Pallor			
	Skin	Normal			
	CRT	5			
	GCS	13/15			
	Pain Score	None			
	Abdomen	Normal			
Life Savers	Anaesthetist of	an suggest callir	ng the medical co	onsultant for adv	ice.
		est simple invest	-		
	bloods and fu		0	0	
	Family memb	ers can prompt c	eiling of care dis	cussion stating t	hat they wouldn't
		suscitated or go t		0	
Telephone	Medical cons				
Assistance	You are happy	to discuss the pa	tient. You think t	hat the peri-arre	st is potentially
	reversible with	diuretic therapy a	and you advise to	o try this despite	the renal
		patient's primary			
	have a DNACP	R and a ward ba	sed level of care	. You are not sur	e the patient will
tolerate cPAP but you want them to try medical intervention first.					
Debriefing	<ul> <li>Clinical discussion around the management of acute pulmonary oedema in a frail patient with multiple comorbidities including CKD.</li> <li>Discussion regarding leadership and assertiveness in managing an acute</li> </ul>				
	medical emergency.				
		<ul> <li>Discussion around the recognition and challenge of derogatory behaviour in the workplace and it's impact on team effectiveness and dynamics.</li> </ul>			
	<ul> <li>Discussion of the support strategies for the team following a challe arrest include debriefing and supporting your team.</li> </ul>				g a challenging
	<ul> <li>Communication with relatives in high pressure situations and discu</li> </ul>			and discussion	
	of appropriate ceilings of care.				
References	ALS algorithm				
	https://www.bma.org.uk/media/4487/sexism-in-medicine-bma-report.pdf (sexism				
	in medicine BMA report)				
	Signpost to active bystander training resources.				
Curriculum	Generic CiP 2: Able to deal with ethical and legal issues related to clinical				o clinical
mapping	practice.		0		
(IMT stage 2	Generic CiP 3:	Communicates e	ffectively and is	able to share de	cision making,
curriculum)	while maintaining appropriate situational awareness, professional behaviour and				
	professional judgement.				
	Clinical Cip 2: Managing the acute care of patients within a medical specialty				
	service.				
	Clinical Cip 7: Delivering effective resuscitation and managing the acutely				
deteriorating patient.					
Written by:	Dr Kathryn Price, King's college hospital				
Date:	Adapted from scenario written by Dr Jimstan Periselneris, King's college hospital				
Review date:	Overseen by Dr Nadia Short, GSTT				
	04/07/2022				



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Ward round entry for the day:

NHS Number: 4226587451 Hospital Number: R256635 D.O.B: 14/07/1949 F. Granger

Consultant WR Wilson

Problems:

Acute pulmonary oedema on background of CCF (LVEF 28%)

Multiple other comorbidities

Frailty

#### D4 of admission

Feels less breathless, no longer oxygen dependent

Weight decreasing, 68kg, admission 76kg

Chest clear

HS PSM

Minimal ankle oedema

Sats 95% air, RR 18, pulse 96, BP 102/58, Glucose 9.4

Noted worsening CKD (250 on background of 180) due to diuretic therapy

Plan Hold furosemide Daily weights and fluid balance chart - aim weight loss 1kg/day Daily U&Es Can restart if improving renal function Mobilise with PT/OT Meet with family to discuss increase POC EDD 72 hours



Image courtesy of radiopaedia.org