

hermia

Situational awareness

Decision making

	Name:	M Hall	RR:		Ventilated	CRT:	2s
	D.O.B.	01/09 (53Y)	ETCO2:		6.2	Temp:	37.2
	Address:	(Insert local address)	Sats:		95%	BM:	5.6
			Heart Ra	ite:	125	Weight:	77Kg
	Hospital ID:		BP:		140/65	Allergy	NKDA
	Ward:	5 5					
		Background to scenario				oecific set up)
elec	tive operati	going a shoulder arthrosco on) under general anaestl nant hyperthermia		Intuba Cann	equin on theat ated and conn ulated with flui sthetic drugs a	ected to vei d running	ntilator
	Requi	red embedded faculty/ac	tors		Requ	ired particip	ants
Junior anaesthetist					Anaesthetist		
Surg	eon			ODP, theatre staff, surgeons in MDT sim			
			Past Medic				
		n, otherwise well. Suffers fro		smoker	and drinks occ	asional alco	hol
ио р	nevious ana	nesthetics. No airway cond	erns			rugs Hospite	
	- III'	Drugs Home		Drugs Hospital			
	alline riscon PRN			Induction drugs Antibiotics (as per local protocol)			
			Brief to par	ticipant	S		
A	Scenario Direction Stage 1, 0– 5 minutes Intubated						
В	ETCO2 6.2 and rising, sats 95% and dropping						
С	HR 125 and rising, BP 140/65 and rising						
DE	Temp 37.2 (only give if checked, rises but late sign) Anaesthetised with inhalational agent MAC >1 Surgery not started yet, surgeons requesting Time-out to be carried out, unaware of anaesthetic issue						
Rx	Handover and assessment of situation Systematically identify potential causes Declare critical incident, call for help (appropriate for level of participant) Start symptomatic treatment						
^			Stage 2, 5-1	10 minut	es		
<u> </u>	Intubated						
3	ETCO2 12.4 Sats 90%						
С		HR 155, BP 168/88					
	Temp 40.9	Temp 40.9					
DE	Identification of MH as a cause Treatment with dantrolene (and allocation of team to draw up) Eliminate causative agent (vapour free machine), consideration of alternative anaesthetic Active cooling Additional monitoring, investigations Treat complications Discussion of need for surgery (elective, non cancer), destination of ongoing care, need for family update and further investigations including referral to Leeds MH Unit Scenario can be ended when appropriate level of management is completed, patient condition can						
DE Rx	Eliminate of Active coor Additional Treat compliscussion update ar	oling monitoring, investigations plications of need for surgery (electing and further investigations inc	ve, non cance cluding referral	er), desti to Leec	Is MH Unit		_

Guidelines							
https://anaesthetists.org 112713-987		perative hyperthermia Perioperative hyperthermia v1.pdf?ver=2018-07-25- Malignant_hyperthermia_crisis_v2.pdf?ver=2021-01-05					
	Guidance fo	or Patient Role					
Opening lines/questions Anaesthetised	s/cues/key responses						
Guidance for ODP role		Guidance for Surgeon					
Actions If not checked, can ren Competent, but needs allocation	nind temperature monitoring reassurance and task	Unaware of anaesthetic incident until specifically declared, keen to get surgery going. Can ask, shall I call your consultant if you aren't happy to start surgery.					
Guidance for Role e.g.	ITU/Anaesthetic Senior	Guidance for other role					
Expectations/actions Support as necessary departicipant	epending on level of						
Session Objectives							
Clinical	Identification and treatment	of malignant hyperthermia					
Non-technical skills							
Teamworking	Coordinating team activity – role allocation when numerous roles need to happen simultaneously, exchanging information at handover, assertiveness if necessary, supporting members of team						
Task management	Planning for next steps as situation changes, prioritising and utilising resources to complete tasks, following guidelines						

Gathering information in an acute/unfamiliar situation, recognising and

Identifying options and balancing risks and benefits of treating different potential

understanding cause of deterioration, anticipating next steps

conditions, continuous re-evaluation