

Pre-transfer Type A dissection:

Set-up:	
Lines/access:	RIJ CVC & left radial arterial line
Infusions:	None
Airway:	Own
Ventilator:	Nasal cannulas
Other:	Syringe drivers
	Syringes with iv antihypertensive medications
	Sedatives
	Airway trolley

Clinical Setting:

I: You are the ICU registrar on a nightshift

S: Outreach/Outliers registrar calls and says that she/he is transferring a hypertensive crisis to the unit straight from the CT scan

B: 52M patient, smoker, otherwise fit and healthy presented to A&E 2 hours ago with sudden onset chest pain. Lines inserted while awaiting transfer to CT.

A: Normal ECG, awaiting CTPA report

R: Called as the patient has just arrived to the unit.

Potential Clinical Course:

- Initially A own, B SpO₂ 92% on 4L NC. C HR100 bpm, SR, BP 200/96, D awake, oriented, complaining of pain in the centre of his chest
- Starts becoming more tachycardic. If assessed- bilateral upper limb weakness 3/5.
- Radiology consultant on call calls- type A dissection involving ascending aorta, carotid arteries and aortic arch.
- Contact vascular surgeons and tertiary centre start organising the emergency transfer
- Can call in a second registrar for help
- Continues to stabilize the patient- appropriate infusions and interventions before transfer (short acting iv beta blockers, short acting iv antihypertensives)
- If appropriate blood pressure control not achieved- patient starts to drop blood pressure with rising lactate and dropping Hb.
- Calls the on call consultant for help.

This Simulation Scenario has been written by Dr Lina Grauslyte, the document has been produced by Dr Melia and approved by the FICM Education Sub-Committee. If you have any queries, please contact FICM via contact@ficm.ac.uk.



Info Sheet For Faculty

- Initial settings:
 - o SpO₂ 92% on 4L NC
 - RR 18/min
 - o HR100 bpm SR
 - o BP 200/96
- Progress to:
 - SpO₂ 90% on 4L NC
 - o RR 20/min
 - o HR 110bpm SR
 - o BP 210/100
- If beta blockers and antihypertensives started:
 - o SpO₂ 92% on 4L NC
 - RR 20/min
 - o HR 70 bpm SR
 - o BP 160/70
- If appropriate medications not commenced:
 - o SpO₂ 88% on 4L NC
 - o RR 28/min
 - HR 120 bpm SR
 - BP to 100/40
- Further observations depend upon actions

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Faculty Roles

Bedside Nurse 1:

- You are a critical care nurse
- You have teaken handover from a resus nurse of a patient who is complaining of chest pain. Handed over to you as a hypertensive crisis and was brought to ICU straight from CT.
- The registrar is at the bedside with you.
- You are concerned because the patient looks pale and sweaty, unlike a hypertensive crisis patient.
- You take direction well, and can perform tasks asked if you in a timely fashion
- You are helpful and prompt the candidate 'is there anything else we should do?', 'should I run a gas?', 'has the line been x-rayed and is safe to use?'.

Bedside Nurse 2:

- You are a new starter you have never seen someone so hypertensive before
- You are quite startled when asked questions/given directions, requiring instructions to be repeated to you
- If the candidate names equipment using technical terms then you inform them that you don't know what that is; you are also not familiar with the IV medications as you have never used them before
- You are keen to help, but are unwilling to do anything beyond your skill set

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