

OSCE**Candidate information**

You have been asked to teach your medical student how to do a brief screening examination for stroke in ED.

The medical student also has questions on management of stroke in ED. Please answer them.

Domain	%
Medical expertise	50
Prioritisation and decision making	
Communication	
Teamwork and collaboration	
Leadership and management	
Health advocacy	
Scholarship and teaching	50
Professionalism	

Stroke exam and thrombolysis**Actor (medical student) information**

You have asked the consultant to show you how to do a brief screening examination for stroke in ED. This is NOT to be a full neurological examination, but a brief screening test.

You are also to ask about management of stroke:

- What stroke patients should be thrombolysed?
- What are the risks of thrombolysis?
- What are the contraindications for thrombolysis?
- What drugs are used for thrombolysis? (preferably including dose)
- What is the evidence for thrombolysis in CVA?
- What is the ACEM viewpoint on thrombolysis for CVA?

Marking:

- What stroke patients should be thrombolysed? What is the evidence for thrombolysis in CVA?
 - *Either way – as long as give reasons for or against.*
 - *For: experts from many fields support its use. Any disability reduction is significant given stroke burden.*
 - *Against: no benefit shown in severe strokes. Only two trials showed benefit, and these were less severe strokes. Not many pts eligible for it (5%) and potential benefit in appx 2.3%.*
- What are the risks of thrombolysis?
 - Bleeding, haemorrhagic transformation, etc etc
- What are the contraindications for thrombolysis?
 - *Age >80*
 - *Resolving neurological deficits*
 - *Seizures*
 - *Low BGL or hyperglycaemia (BGL >22)*
 - *Large deficit >1/3 MCA territory*
 - *BP >185/110*
 - *Unknown time of onset*
 - *Low platelets*
- What drugs are used for thrombolysis? (preferably including dose)
 - tPA 0.9mg/kg up to maximum 90mg. Give 10% as push, the remainder over an hour.
- What is the ACEM viewpoint on thrombolysis for CVA?
 - *“ACEM continues to advocate that IV thrombolysis as an intervention for acute stroke, administered to selected patients early after symptom onset, may increase the odds of a better functional outcome while increasing the risk of intracranial haemorrhage and conferring no mortality benefit”*
2025

	Mark
States at least four contraindications for thrombolysis in stroke	2
Performs appropriate stroke screening test	2
States risk of thrombolysis	1
States drug (ideally with dose) of drug used for thrombolysis	1
Explores evidence for thrombolysis	2
Knows ACEM standpoint on thrombolysis in CVA	1
Approach to teaching med student	1