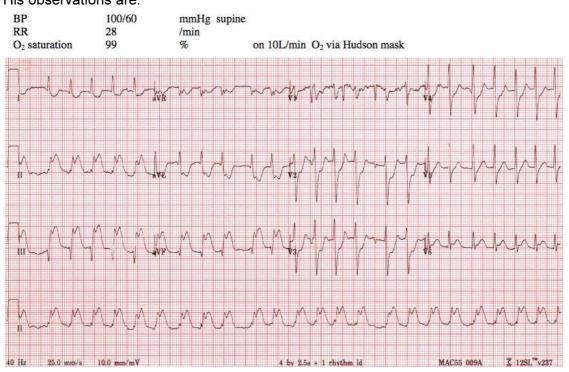
## VAQ 2010.1.1 (ECG)

A 54 year old man with no prior medical history presents to your emergency department with one hour of chest pain. He is anxious and diaphoretic. His observations are:



Describe and interpret his ECG (100%)

This ECG shows rapid AF, significant inferior ST elevation in keeping with inferior myocardial infarction, and significant ST depression in leads V1-4 suggestive of posterior wall infarction.

This ECG meets criteria for thrombolysis.

Of note he is hypotensive which could represent extensive infarct with cardiogenic shock, right ventricular involvement, or be a rate related phenomenon compounding his cardiac ischaemia. He will require analgesia, antiplatelet agents, likely fluid resuscitation, and revascularisation.

Rate - 110-150 Rhythm - atrial fibrillation Axis - normal

## Waves

- P n/a
- Q in III, aVF
- R prominent R in V1-3 could represent 'inverted Q' of posterior infarction
- S no diagnostic features
- T inverted I, aVR, aVL
- U not seen

## Intervals

PR – n/a

- QRS narrow complex
- ST 5-8mm elevation II, III, aVF consistent with inferior MI
  - 1-2mm elevation in V6, consider high lateral infarction

depression in I, aVL, V1-5 in keeping with reciprocal changes, possible posterior MI QTc – approx 350

Consistent with: AF, inferior MI, possible posterior wall MI, possible high lateral wall MI Thrombolysable STEMI both on ECG criteria and symptoms/time since onset or PTCA. Hypotension also suggests RV involvement in context of inferior MI