

# ECG #22

A 59-year-old man presents to the emergency department with anaphylaxis from a bee sting. Describe and interpret his initial 12-lead electrocardiogram:



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## INTERPRETATION:

- 64 bpm
- Sinus rhythm
- Right axis deviation ( $153^\circ$ )
  - Positive QRS complexes in aVR
  - Global negativity in lead I
- QRS 82 ms
- Low QRS voltages
- Absent R wave progression in precordial leads with dominant S waves throughout
- T wave flattening in precordial and lateral leads

## DIAGNOSIS:

Patient confirms that he has [situs inversus](#), and therefore [dextrocardia](#)!

ECG repeated with right-sided chest electrodes:



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- “Normalisation” of the precordial leads (V1-6) with restoration of R wave progression and T wave axis

- Limb leads remain abnormal as in previous ECG

ECG repeated with right-sided chest electrodes and reversing the left and right limb electrodes:



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**INTERPRETATION:**

- Ventricular rate 62 bpm
- Sinus rhythm
- Normal QRS axis ( $22^\circ$ )
- QRS duration 84 ms
- Normalised QRS voltages throughout the precordial leads with normal R wave progression
- [Low QRS voltages](#) in limb leads
- Non-specific T wave in the inferolateral leads

**DIAGNOSIS:**

Essentially normal 12-lead electrocardiogram in a patient with [Situs Inversus](#).