# An interesting case of type 2 myocardial infarction



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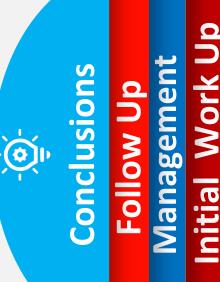
Conclusi

### **Stacey Stewart**

Cardiology Research Nurse & PhD Student University of Edinburgh,

UK





Presentati

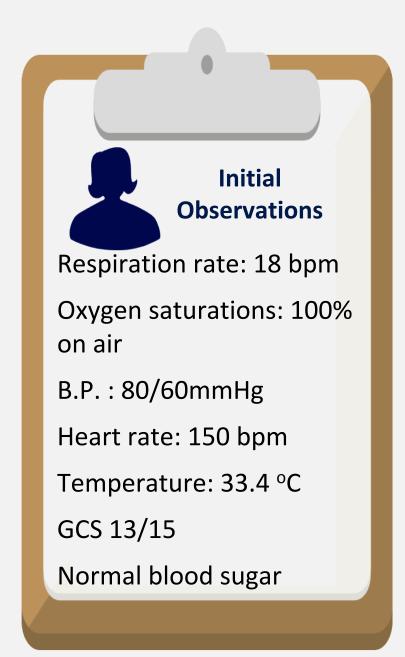
Patient

## **Declaration of Interest:**

I have nothing to declare



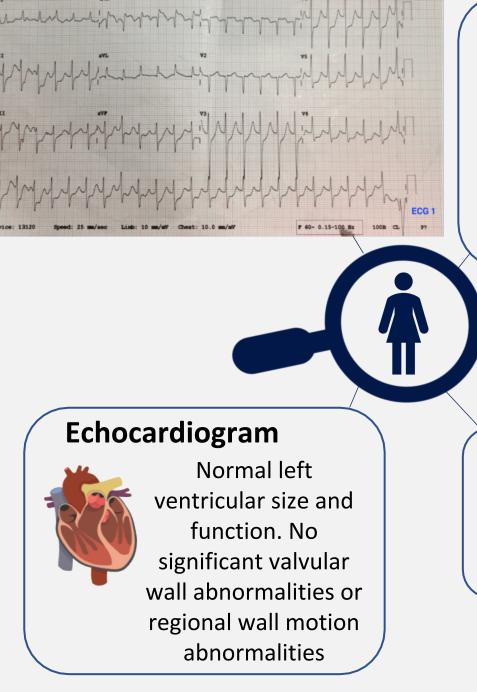
# Conclusions Follow Up Management



- 55-year-old female presented to the Emergency Department with light-headedness
  - Woke during the night with palpitations and was found collapsed on cold bathroom floor by partner.
    - Complaining of palpitations earlier that day
  - History of chest palpitations since aged 10 and Reynaud's syndrome
  - Regular medication was SSRI







#### **Admission blood results**

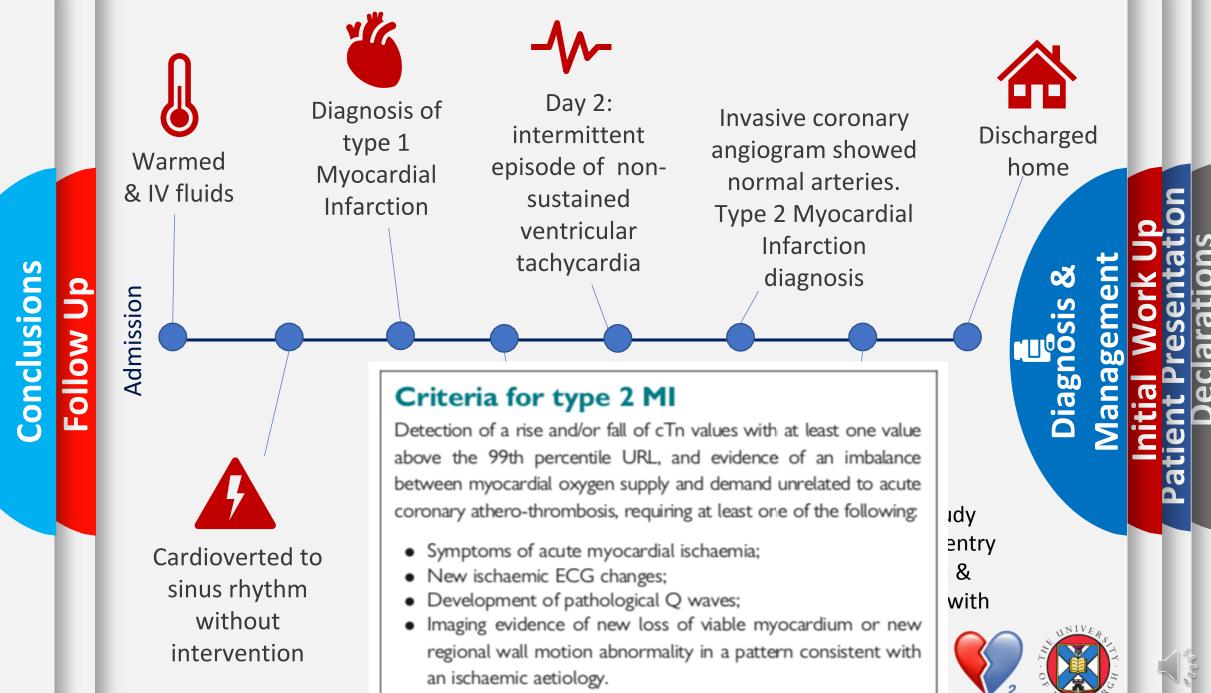
Abnormal results included raised creatinine (123 umol/L).

High-sensitivity cardiac troponin concentration was raised 478 ng/L and her peak troponin at 12 hours was 22,845 ng/L (normal range 1-16ng/L)

#### **CT Pulmonary Angiogram**



No evidence of pulmonary embolus



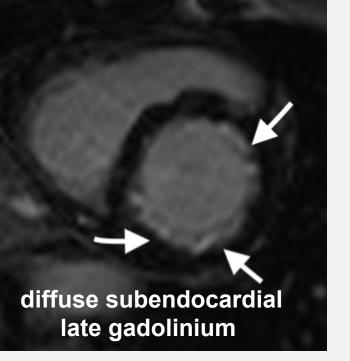


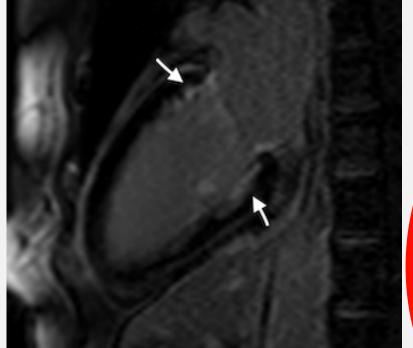
#### DEMAND-MI Research Study investigating type 2 myocardial infarction



Cardiac Magnetic Resonance Imaging (MRI) scan

Conclusions





It is likely that this was caused by global ischaemia as a result of her haemodynamic compromise and her arrhythmia

Treatment of type 2 myocardial infarction = identifying & managing supply and demand imbalance

Advised not to drive for 1 week and was followed up by local cardiology team

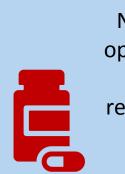


High-sensitivity cardiac troponin assays have improved the diagnosis of myocardial infarction &

identify patients with

**ESC** 

European Society doi:10.1093/eurheartj/ehy462 of Cardiology



No compelling data for optimal treatment due to heterogeneity in responsible mechanisms.

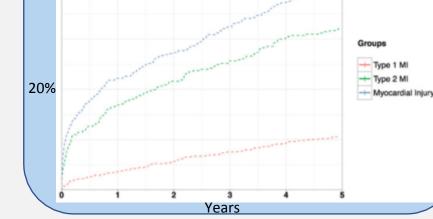
Manage underlying

EXPERT CONSENSUS DOCUMENT

# Fourth universal definition of myocardial infarction (2018)

Making timely and accurate definitions in the clinical settings can be challenging due to overlap of diagnostic criteria. A coronary angiogram is not always

clinically indicated or required.





Chapman et al 2017 Long-Term Outcomes in Patients with Type 2 Myocardial Infarction and Myocardial Injury. Circulation 137 pp.1236- 1245