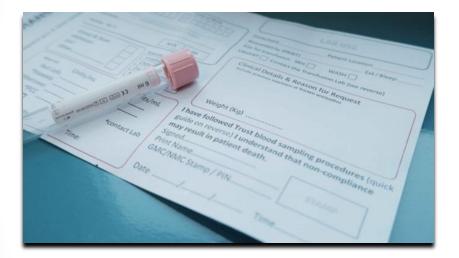
### Eisenmenger Syndrome & Blood Transfusion

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## Scenario at St Richard's Hospital



- 2 units RBC's requested for a patient on Emergency Floor with a HB 166 no bleeding
- BMS informed TP, as reluctant to issue

# Patient

#### <u>PMH</u>

- 45 Female
- Eisenmenger Syndrome
- Down syndrome
- Cardiac arrest 2015

#### Presenting Complaint

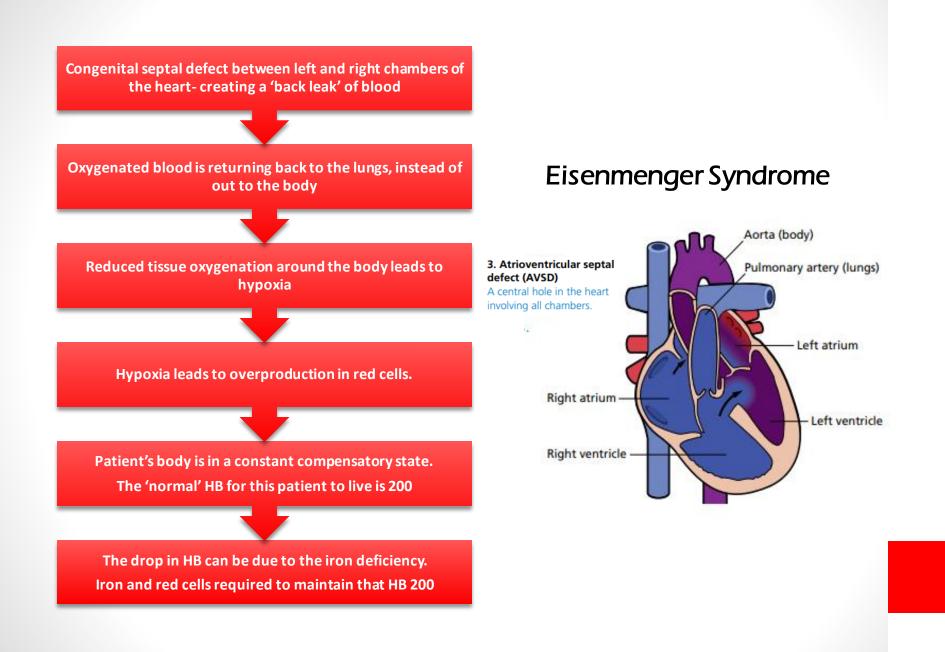
- Unwell for 4 days
- Choked on food recently
- Cyanosis lips & limbs blue
- SATS 52% on air hypoxic
- Temp 37.7c
- BP 81/62
- Resp 27
- CO<sub>2</sub> ↑
- CRP 49
- HB 166
- HCT 0.51
- MCV 82

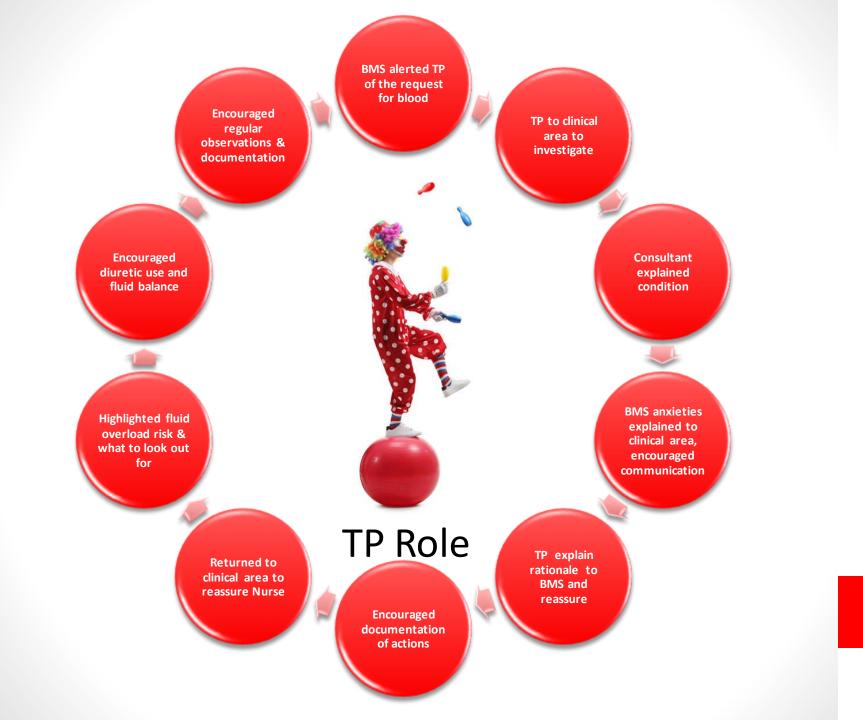
# Diagnosis

- Aspiration Pneumonia
- Iron Deficiency Anaemia ? Clopidogrel induced

## Treatment

- ► IV ABX, Fluids
- > High O<sub>2</sub> requirement
- > Aim HB 200 Transfuse 2 units RBC's with Furosemide
- Iron infusion when infection improved
- Red cell units each transfused over 3h with iv furos 20mg inbetween
- HB after 2 units reached 180 from 166
- HB after iron infusion 194
- Patient recovered and discharged after 2 weeks.





## **On reflection**

- Staff at St Richards hospital were presented with a rare disease
- We had to be flexible and open to change to work outside the 'norms'
- Staff involved in this case were multi professional, each with their own anxieties.
- Maintaining a positive link between lab and clinical area encouraged a quicker understanding of the condition and met the needs of the patient sooner
- Gaining that Consultant rationale behind treatment decisions justified actions and reassured all members of the team involved
- The TP should be able to de-escalate staff conflicts of opinion, respect the views of various professions, have effective communication skills, be patient and bring the team together to reach the needs of the patient
- Diagnosis and treatment plans for this case could easily have been influenced by cognitive bias. The patient had sepsis, iron deficiency anaemia and a complex medical history. Consideration of patient history and previous lab results prevented error.

#### Thankyou for listening

Condliffe, R. Erythrocytosis and iron status in Eisenmenger syndrome: an illustrative case study. *J Congenit Heart Dis* **4** (Suppl 1), 11 (2020). https://doi.org/10.1186/s40949-020-00045-9

University Hospital Southampton NHS Foundation Trust 2020. Eisenmenger syndrome: Long term care and information for patients. Available at: <u>Eisenmenger syndrome-patient information (uhsnhsuk)</u> Last Accessed 13/10/23.