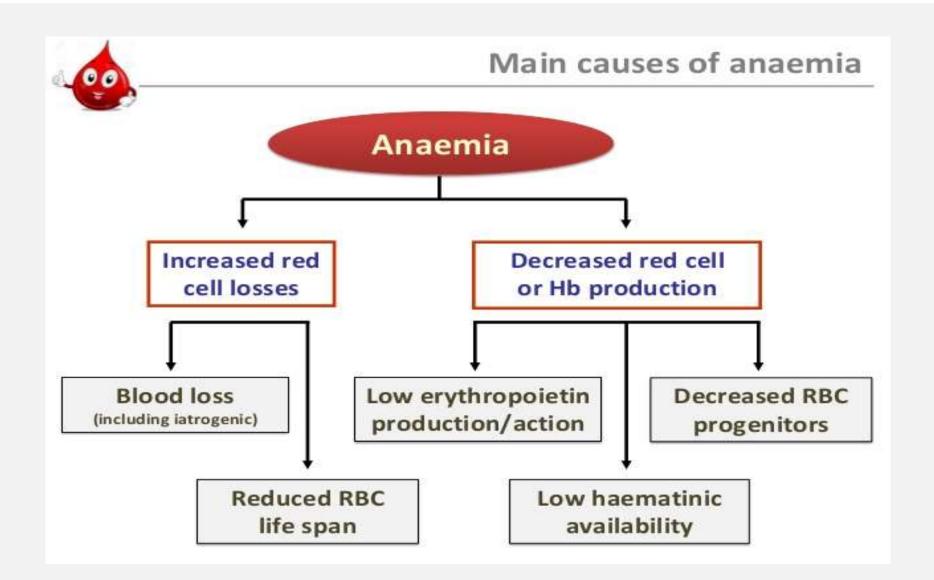
MANAGEMENT OF ANAEMIA

Mai Khalifa

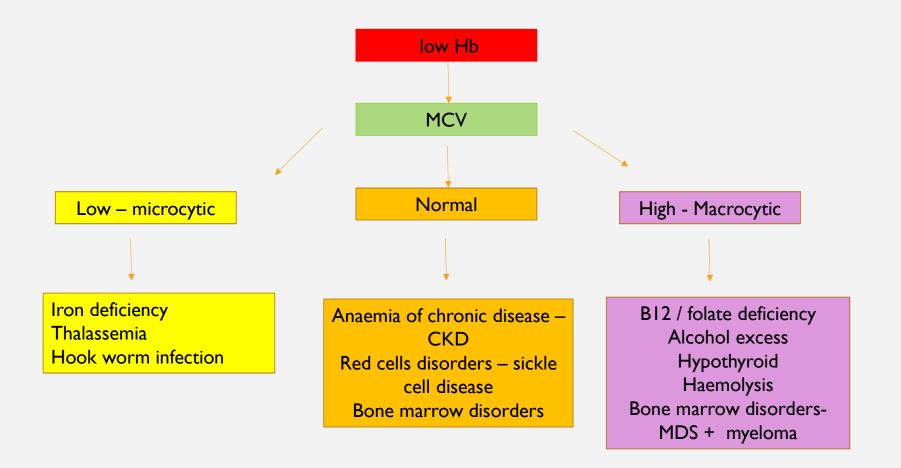
BY THE END OF TODAY...

- Can define the types of anaemia
- Knows when to refer patients for further investigation and treatment
- Knows how to order appropriate investigations
- Understands the different types of therapies as alternatives to transfusions for each type of anaemia



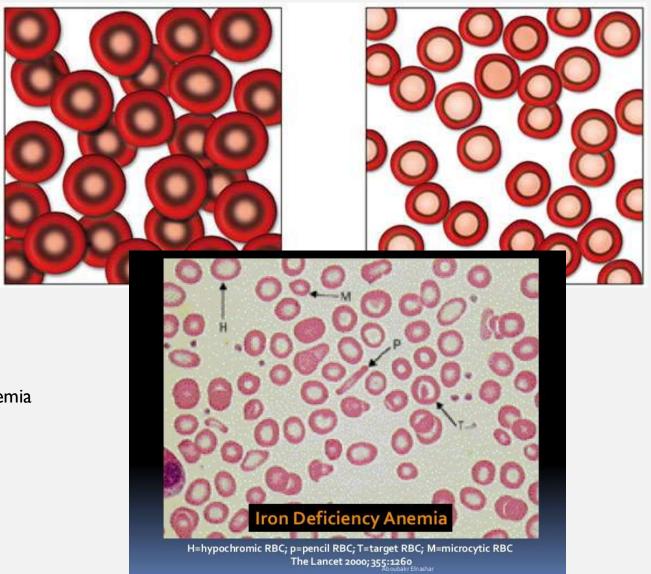
PATIENT BLOOD MANAGEMENT (2012)

- Patient and staff education
- Active management of anaemia
- Minimise the volume of blood samples taken
- Use restrictive threshold values
- In non-bleeding patients transfuse one dose of blood component, then reassess
- Active management of abnormal haemostasis
- Use alternatives to transfusion where appropriate
- Surgical Patients
- a. Detect and treat pre-operative anaemia
- b. Minimise blood loss and bleeding
- c. Be aware of drug interactions that can increase risk of anaemia



CASE I

- Ms Purple 25
- Hb 70g/l (female: 115
- WCC 4.6
- Plt 400
- MCV 65
- MCH 25
- List the abnormalities?
- Further tests?



Microcytic anaemia

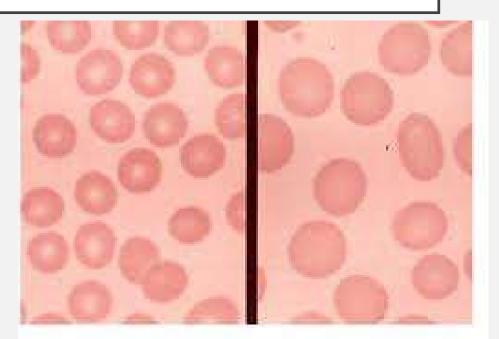
IRON DEFICIENCY IS NOT A DIAGNOSIS

- Female periods
- BLOOD LOSS –GI blood loss
- U&E, LFTs, Ferritin (false normal)
- GI investigations
- Diet
- Start oral iron/ IV Fe
- Vitamin C to enhance absorption
- Exclude malabsorption symptoms



- Mr Green 40
- Hb 84g/l
- WCC 4
- Plt 100
- MCV 105
- MCH 30
- List the abnormalities ?
- Further tests ?

- Macrocytic anaemia
- Thrombocytopenia
- B12, folate, LFTS, TFT
- Replace if low B12/ folate
- Diet
- Alcohol intake



normal red cells macrocytic red cells

- Mr yellow admitted with a pyrexia and bleeding from the gums.
- Hb 65 g/l
- WCC 0.4
- Plt 10
- MCV 70
- MCH 27

- Anaemia normochromic normocytic
- Leucopenia
- Thrombocytopenia
- Pancytopenia
- Routine blood tests U&E, LFT, CRP, Ferritin, B12 folate
- Haematology referral

- 45 year old lady attended pre- op clinic as she is due to have a cholecystectomy
- Her FBC shows Hb 112/IWCC 6 Plt 350 MCV MCH normal
- She is not keen to have a blood transfusion when she has surgery as she wants to continue to donate blood and she is worried about the risks of transfusions.
- What measures will you take to prevent anaemia and reduce this lady's risk of receiving a transfusion?

PRE / INTRA/ POST OP CARE

- Check haematinics optimize
- Review drugs Aspirin, NSAIDs, anti-coagulation.
- Cell salvage, tranexamic acid
- Iron supplements (PO/ IV)
- EPO
- Reduce the volume/ frequency of blood tests taken
- Discuss potential need for transfusion pre op
- Leaflets and consent