Please note – this learning resource has been produced by the GUMS Academic Team. There may be some minor errors in the questions/answers, and other possible answers that are not included below. Make sure to check with other resources.

**What are the likely morphological classification of anaemia seen in the following cases (e.g. Macrocytic, microcytic and normocytic) and discuss why:**

1. **A 20-year-old woman complaining of fatigue, lethargy and occasional shortness of breath, has just found out she is pregnant, she eats a vegetarian diet and has suffered from heavy menstrual bleeding.**
2. **A 6-year-old boy of Mediterranean descent with Beta- Thalassaemia as diagnosed by haemoglobin electrophoresis.**
3. **A 30-year-old woman diagnosed with Crohn’s disease (*an inflammatory bowel disease that affects transmural gastrointestinal tract and impairs absorption*) that is particularly affecting her terminal ileum *(hint (this is covered in systems): (Iron is absorbed in the duodenum) (folate in jejunum) (bile and B 12 in terminal ileum)***
4. **A 50-year-old man brought in by ambulance to the ED with multiple abdominal stab wounds who is bleeding profusely.**
5. **A 70-year-old woman who is currently receiving dialysis for failing kidneys**

**Name as many differential diagnoses as possible for the different classifications of anaemia below**Diagram

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