

## Erythropoiesis “Red Formation”

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- Stimulated by erythropoietin (EPO) from kidney (which is stimulated by thyroxine and low blood volume)
- **Anemia “no blood” may occur:**
  - if there is a lack of iron (iron deficiency anemia)
  - a lack of Vitamin B12 (pernicious anemia)
  - Mutation in hemoglobin (sickle cell anemia)
  - hypothyroidism
  - occult “hidden” blood loss
- **Polycythemia “too much blood” can occur**
  - In blood doping