



Pharmaceutical Care

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Definition

- Affecting health more than 3 months
- Kidney structural abnormalities or dysfunctions



Stages

- ***Based on GFR***
- Stage 1
- Stage 2
- Stage 3
- Stage 4
- Stage 5



Anemia

- 200 mg/day elemental iron is required to eliminate iron deficiency
- Example: Fe fumarat



Diagnosis and Laboratory Test Targets of Anemia

- Anemia in male CKD patients: Hb < 13 g/dL
- TSAT
- Serum ferritin



Reasons of Anemia

- *Some examples:*
- Iron deficiency
- Blood loss
- Reduced erythrocyte survival time



Follow-up Tests

- In CKD patients with anemia
- Stage 3-5, every 3 months
- Stage 5 and HD every month



Drug Interactions

- Ca carbonate, Pantoprazole and Fe fumarate
- Calcium carbonate and pantoprazole will decrease the level or effect of Fe fumarate by increasing gastric pH.