

- **Diagnostic Tests:** Blood test
- **Treatment:** Iron supplements

Anemia in New Born

- **Definition:** is a condition where the baby's body has a lower red blood cell count than normal
- **Cause:** baby is premature, the red blood cells break down too quickly, the body doesn't create enough red blood cells or the baby loses too much blood, Feta maternal transfusion, internal hemorrhage
- **Symptoms:** Pale skin, feeling sluggish, poor feeding or getting tired while feeding, fast heart rate & respiratory rate during rest
- **Diagnostic Tests:** Hb level, Hematocrit check, Reticulocytes count, CBC, Coombs test
- **Treatment:** Treatment with recombinant human erythropoietin, Blood transfusion

Acute versus Chronic versus hemorrhagic anemia

- **Acute anemia** occurs when there is an abrupt drop in RBCs, most often by hemolysis or acute hemorrhage.
- **Chronic anemia**, on the other hand, is generally a gradual decline in RBCs and causes include iron or other nutritional deficiencies, chronic diseases, drug induced, and other causes
- **Hemorrhagic anemia** is a condition that develops when there is loss of large amount of blood quickly

Anemia due to underlying Condition

Anemia due to any underlying conditions such as Cancer, Chronic kidney disease & chemotherapy.

Anemia due to neoplasm

- Anemia is a common complication of malignancies.
- Occur as a direct effect of the neoplasm, it may be due to products of the cancer, or it may develop as a result of the cancer treatment itself.
- Commonly occurs in cancer involving bone marrow, leukemia, lymphoma, and myeloma interfere with or destroy the marrow's ability to make healthy blood cells.
- The treatment for this is treating the underlying cancer & medicines, blood transfusion etc.

Anemia due to CKD

- When the kidneys are diseased or damaged, they do not make enough Erythropoietin. As a result, the bone marrow makes fewer red blood cells, causing anemia. The common type of anemia associated with CKD is Iron deficiency anemia.
- Treatment would be treating the CKD and iron supplements