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- **Conditions characterized by non-regenerative anemia include:**

- Anemia of inflammation, which is mild to moderate anemia.

- Renal disease, due to the lack of erythropoietin and consequently decrease erythrocyte synthesis by the bone marrow.

- Iron deficiency anemia, which characterized by
  - ◆ microcytic hypochromic anemia.

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**Infectious and inflammatory diseases**

- As part of the immune response that occurs with infection and noninfectious inflammatory diseases, cells of the immune system release proteins called cytokines. These proteins help heal and defend the body against infection. But they can also affect normal body functions. Cytokines interfere with the body's ability to absorb and use iron. Cytokines may also interfere with the production and normal activity of erythropoietin (EPO), a hormone made by the kidneys that stimulates bone marrow to produce RBCs.

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