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Hemolytic anemia caused by chemicals and toxins

Hemolytic anemia caused by chemicals and toxins is a lack of red blood cells that occurs when red blood cells are excessively damaged by certain chemicals or toxins.

Causes

Possible substances that can cause hemolytic anemia include:

- Anti-malaria drugs (quinine compounds)
- Arsenic
- Dapsone
- Intravenous water infusion (not half-normal saline or normal saline)
- Metals (chromium/chromates, platinum salts, nickel compounds, copper, lead, cis-platinum)
- Nitrites
- Nitrofurantoin
- Penicillin
- Phenazopyridine (Pyridium)
- Rho immune globulin (WinRho)
- Ribavirin
- Snake bites (some snake venom contains hemolytic toxins)
- Sulfonamides
- Sulfones

This list is not all-inclusive.

Alternative Names

Anemia - hemolytic - caused by chemicals or toxins

References

Little M. Anaemia. In: Cameron P, Little M, Mitra B, Deasy C, eds. *Textbook of Adult Emergency Medicine*. 5th ed. Philadelphia, PA: Elsevier; 2020:chap 13.1.

Mentzer WC, Schrier SL. Extrinsic nonimmune hemolytic anemias. In: Hoffman R, Benz EJ, Silberstein LE, et al, eds. *Hematology: Basic Principles and Practice*. 8th ed. Philadelphia, PA: Elsevier; 2023:chap 48.

Michel M. Autoimmune and intravascular hemolytic anemias. In: Goldman L, Cooney KA, eds. *Goldman-Cecil Medicine*. 27th ed. Philadelphia, PA: Elsevier; 2024:chap 146.

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