Transfusion Reactions

Туре	Timing	Symptoms	Cause
Anaphylactic	Minutes- 3hrs	Urticaria, wheeze, hypoT	Type 1 HSR against plasma proteins in transfused blood, IgA-deficient pts.
Acute hemolytic	<1 hr	Fever, hypoT, tachy, flank pain, jaundice, hemoglobinuria	Can be intra or extravascular hemolysis. ABO incompatability is intravasc w/ hemoglobinuria, host atb against donor RBC atgs is extravasc w/ jaundice
Febrile nonhemolytic	1-6hrs	Fever, HA, chills, flushing	Host atbs against donor HLA/WBCs or cytokines from storing blood
TRALI	<6 hrs	Noncardiogenic pulm edema, SOB	Donor atbs again recipient's neutrophils and lung cells

Fever with hemodynamic changes = acute hemolytic Fever while HDS = febrile nonhemolytic

Hemolytic Transfusion Reaction





Management

Dark urine Hypotension

- Stop the transfusion
- 2 Immediate vigorous crystalloid infusion
- 3 Diuretic therapy to maintain urine output 1 to 2 mL/kg/hr