transfusions or in patients with renal problems) Paresthesia of extremities Bradycardia Apprehension	
renal problems) Bradycardia	
Approhancian	
Apprehension	
Cardiac arrest	
Delayed Reactions	
Transmission of Signs of infection Blood is tested for antibodies to HIV, hepatiti	s C virus,
infection (e.g., jaundice) and hepatitis B core antigen; in addition, blo	ood is
Hepatitis Toxic reaction: tested for hepatitis B surface antigen and ale	anine
HIV infection High fever, aminotransferase, and a serologic test is per	formed
Malaria severe for syphilis. Units that test positive are dest	royed.
Syphilis headache or Individuals at risk for carrying certain virus	ses are
Other bacterial or substernal pain, deterred from donation.	
viral infection hypotension, Report any sign of infection, and if it occurs of	luring
intense transfusion, stop transfusion immediately, s	
flushing, sample for culture and sensitivity testing, as	nd notify
vomiting or practitioner.	,
diarrhea	
Alloimmunization Increased risk of Use limited number of donors.	
Antibody hemolytic, febrile, Observe carefully for signs of reactions.	
formation and allergic	
Occurs in patients reactions	
receiving	
multiple	
transfusions	
Delayed hemolytic Destruction of Observe for posttransfusion anemia and decre	easing
reaction RBCs and fever 5 benefit from successive transfusion.	
to 10 days after	
transfusion	

Flaccid paralysis

massive

1

DIC, Disseminated intravascular coagulation; *HIV*, human immunodeficiency virus; *RBC*, red blood cell.

Although hemolytic reactions are rare, ABO incompatibility remains the most common cause of death from blood transfusion, and human error (e.g., administration of the wrong type to the patient or mislabeling of the blood product) is usually responsible (Lavoie, 2011; Tondon, Pandey, Mickey, et al, 2010). Hemolysis can also cause the release of large quantities of phospholipids, which are capable of stimulating DIC. Acute kidney shutdown and eventual renal failure are a result of renal vasoconstriction from antigen–antibody complexes derived from the RBC surface.

Blood is usually administered to children by infusion pump; therefore, the usual precautions and management related to pumps apply. When the blood infusion begins with a standard transfusion set, the filter chamber is filled to allow the total filter to be used. The drip chamber is partially filled with blood to permit counting of the drops. In adjusting the flow rate, it is important to remember that blood administration sets do not use microdrops (60 drops/ml) but