

Red blood cell transfusion for patients with non-ABO antibodies

PATIENT ANTIBODY	RECOMMENDATION FOR RED BLOOD CELL TRANSFUSION†	Risk of HDFN
MNS System		
Anti-M	If detectable at 37°C, then units that are crossmatch compatible by IAT at 37°C should be provided. Alternatively, M-negative units that are crossmatch compatible by IAT at 37°C could be provided	Rarely
Anti-Mi(a)	If known to be present, units that are crossmatch compatible by IAT at 37°C should be provided.	Yes
Rh (RH) system		
Anti-C ^w	Red blood cell units that are crossmatch compatible by IAT at 37°C	Yes
Anti-V [‡]	V-negative red blood cell units that are crossmatch compatible by IAT at 37°C	Not reported
Lutheran System		
Anti-Lu ^a	Red blood cell units that are crossmatch compatible by IAT at 37°C	No
Kell system		
Anti-Kp ^{a‡}	Red blood cell units that are crossmatch compatible by IAT at 37°C	Yes
Anti-Js ^{a‡}	Js ^a -negative red blood cell units that are crossmatch compatible by IAT at 37°C	Yes
Lewis System		
Anti-Le ^a	Red blood cell units that are crossmatch compatible by IAT at 37°C	No
Anti- Le ^b	Red blood cell units that are crossmatch compatible by IAT at 37°C	No
Anti-Le ^{ab}	Red blood cell units that are crossmatch compatible by IAT at 37°C	No
Diego System		
Anti-Wr ^a	Red blood cell units that are crossmatch compatible by IAT at 37°C	Yes
Anti-Di ^a	Red blood cell units that are crossmatch compatible by IAT at 37°C	Yes

†Patients with sickle cell disease who develop any one of the antibodies listed here should be provided with antigen-negative red blood cell units for transfusion if available within the time required

‡The recommendation for antigen negative units as well as crossmatch compatible units is a reflection of the prevalence of the related antigens in some populations, the propensity of the antibodies in these blood group systems to cause hemolysis and other adverse effects, and the likelihood of IgG isotype antibodies that are reactive at 37°C.