

IPEX Questions



Blood and Transplant

Lot Number N083 3102	Expiry Date 2019.04.18
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Patient X is a 44-year-old male, scheduled for a liver transplant and not previously transfused

Patient Y is a 56- year-old female admitted with gastrointestinal bleeding. The patient has previously been transfused on two occasions and has had three previous pregnancies.

Patient Z is a 13-year-old female who has been involved in a road traffic accident, She has not previously been transfused. Blood is not required urgently at this time and this sample should be treated as routine.

Perform a routine serological investigation on these 3 patients.

Questions

1. Comment on the clinical significance and likely immune stimulus of any antibodies found.
2. If required, what red cells should be selected for these patients? Are there any special considerations?
3. With reference to any antibodies found, comment on the genetic and biochemical basis of the corresponding antigen and common alleles by providing the following:
 - The name of the transmembrane protein the antigens are found on
 - The name of the gene and the chromosome it is found on
 - The biochemical basis of the common antigens
 - The position of the antigens on the protein
 - The function of the protein (if known)
 - The effect of proteolytic enzymes on the antigen