

IPEX Questions



Blood and Transplant

Lot Number N083 3132*	Expiry Date 2024.03.14
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Patient X is a 57 year old female who has been involved in a road traffic accident, she has been transfused with four units of uncrossmatched O R1r K- red cells uneventfully via local major haemorrhage protocol when she arrives at A&E. Pre transfusion samples sent to the laboratory grouped as O D+ and her antibody screen was negative. Two further units of red cells were electronically issued and transfused once the patient was admitted to a ward and her Hb was checked. No further red cells were transfused as the patient remained stable and her Hb was 98g/L. Five days post transfusion patient X is producing dark coloured urine, her Hb has dropped to 71g/L, bilirubin has risen from 6 to 19umol/L and LDH has risen from 140 to 650IU/L.

When asked about transfusion history, patient X says she was transfused after a caesarean section 22 years ago without complication.

You are provided with pre and five day post transfusion samples from patient X and samples from the two transfused units given on the ward. Perform a serological investigation on the samples provided.

Questions:

1. What serological tests/checks should you routinely perform on these samples?
2. Would you expect the post transfusion sample DAT to be positive or negative? Explain your answer?
3. What antibody specificities are most commonly associated with delayed transfusion reactions?
4. If the patient required more blood, what blood should be selected?

* Please note cell X post transfusion sample is labelled N083 4132 Expiry 2024.03.14

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