







Change Notification UK National Blood Services No. 16 - 2013

Guidelines for the Blood Transfusion Services in the United Kingdom – 8th Edition 2013

Errata

Amended pages

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Platelets, Pooled, Buffy Coat Derived, Leucocyte Depleted

7.9.1 Technical information

- Donations of whole blood where the bleed time exceeded 15 minutes are not suitable for platelet production.
- The buffy coats must be prepared at ambient temperature from whole blood where the surface temperature of packs has not dropped below 18°C.
- Initial separation of buffy coat must occur within 24 hours of venepuncture (unless supported by additional validation), with a minimum buffy coat rest period of 2 hours before secondary pooling and processing of buffy coats to produce the final component, which is generally completed before the end of Day 1.
- The volume of suspension medium must be sufficient to maintain the pH within the range 6.4–7.4 at the end of the shelf life of the component.
- The production process transfers the final component into a pack that was not part of the original pack assembly. Therefore a secure system must be in place to ensure a full audit trail and that the correct identification number is put on the final component pack.
- Where the production method requires the use of a single unit of plasma for resuspension, the plasma from group O donors should be tested for high-titre anti-A and anti-B and 'high-titre negative' units labelled. The testing method and acceptable limits should be defined (see also Chapter 9). Plasma should be selected from male donors as a TRALI risk reduction strategy.
- Platelets, Pooled, Buffy Coat Derived, Leucocyte Depleted, should be transfused through a 170– 200 µm filter.

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Platelets in Additive Solution and Plasma, Leucocyte Depleted

7.11.1 Technical Information

- The component is manufactured as a primary component and not as a remanufactured secondary component.
- Donations of whole blood where the bleed time exceeded 15 minutes are not suitable for platelet production.
- Where prepared from buffy coats, the buffy coats must be prepared at ambient temperature from whole blood where the surface temperature of packs has not dropped below 18°C.
- Where prepared from buffy coats, initial separation of buffy coat must occur within 24 hours of venepuncture (unless supported by additional validation), with a minimum buffy coat rest period of 2 hours before secondary pooling and processing of buffy coats to produce the final component, which is generally completed before the end of Day 1.
- Screening of female apheresis donors for HLA/HNA antibodies should be considered as a TRALI risk reduction strategy.
- The volume of suspension medium must be sufficient to maintain the pH within the range 6.4–7.4 at the end of the shelf life of the component.
- Where the production process transfers the final component into a pack that was not part of the
 original pack assembly, a secure system must be in place to ensure the audit trail and the correct
 identification number is put on the final component pack.
- Platelets in Additive Solution and Plasma, Leucocyte Depleted, should be transfused through a 170–200 µm filter.

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Platelets in Additive Solution, Leucocyte Depleted

7.12.1 Technical information

- Donations of whole blood where the bleed time exceeded 15 minutes are not suitable for platelet production.
- Where prepared from buffy coats, the buffy coats must be prepared at ambient temperature from whole blood where the surface temperature of packs has not dropped below 18°C.

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- Where prepared from buffy coats, initial separation of buffy coat must occur within 24 hours of venepuncture (unless supported by additional validation), with a minimum buffy coat rest period of 2 hours before secondary pooling and processing of buffy coats to produce the final component, which is generally completed before the end of Day 1.
- The volume of suspension medium must be sufficient to maintain the pH within the range 6.4–7.4 at the end of the shelf life of the component.
- Where the production process transfers the final component into a pack that was not part of the
 original pack assembly, a secure system must be in place to ensure a full audit trail and that the
 correct identification number is put on the final component pack.
- Platelets in Additive Solution, Leucocyte Depleted, should be transfused through a 170–200 µm filter.

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9.5.3.1 Single-test system

- 1. Platelet components are held for at least 36 hours after collection.
- 2. Minimum 8-mL samples are inoculated into each aerobic and anaerobic bottle.
- 3. If samples are negative after a minimum of 6 hours of incubation, release product on a negative-to-date basis with 7-day shelf life and continue incubation and monitoring for the shelf life of the product.
- 4. A suitable protocol must be in place for confirmation of the presence of contamination.
- 5. Discard unused platelets on Day 8. (Time-expired units may be referred to the relevant bacteriology laboratory for surveillance testing.)

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12.11.2 Blood and blood components from group O donors with high titres of anti-A, anti-B and/or anti-A,B

- Red cells, platelets and fresh frozen plasma from group O donors with high titres of anti-A, anti-B and/or anti-A,B can result in haemolytic transfusion reactions (HTRs) when given to non-group O patients. Such group O donors are generally termed 'high-titre group O donors'.
- Reactions are more likely to occur when:
 - the serological titre of the anti-A, anti-B and/or anti-A,B in the component is high
 - the plasma volume of the transfused product is high

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- the blood volume of the recipient is small.
- Each Blood Establishment should have a testing and issuing policy to avoid the use of high-titre anti-A and/or anti-B in instances where a significant adverse clinical reaction is likely. The policy should cover the following components:
 - whole blood and plasma reduced red cells (excluding red cells in additive solution)
 - fresh frozen plasma
 - apheresis platelet donations
 - pooled platelets containing plasma from a single 'high-titre' group O donor
 - blood/components for neonatal use, and infants under one year.
- Where high-titre anti-A/B testing is deemed necessary, a saline agglutination test (performed as detailed in Chapter 11) should give a negative result, at a dilution of 1/128, or an equivalent dilution by other techniques.
- There should be a procedure in place to collect and review testing and patient outcome data and to implement changes in policy in the light of continuing clinical experience with the plasmacontaining blood products issued.
- Components from group O donors with 'low titres' of anti-A, anti-B and/or anti-A,B can cause intravascular haemolysis in non-group O recipients if given in sufficiently large volumes.
- It is important to recognise that, although testing for high-titre ABO antibodies in blood donors
 may reduce the risk of HTR in 'out of group transfusion', it cannot be entirely eliminated through
 this route. Group O platelets can cause HTR even when tested and labelled negative for hightitre haemolysins. They should only be used for non-group O patients (particularly paediatric
 patients) as a last resort.

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