Reduced-Dose Apheresis Platelets - Information for hospital clinical teams.

| Why are NHSBT issuing reduced-dose |
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| apheresis platelets? |
| The introduction of a new reduced-dose |
| apheresis platelet component will increase the |
| temperany massure during a sovere shortage. It |
| will be implemented when: |
| a red alert for platelets has been called, without this measure being implemented a |
| red alert level for platelet shortage would be |
| called within 7 days. |
| This change will increase the platelet supply by approximately 18% and optimise the supply of available platelets for as many patients as possible. |
| |

How do we distinguish between reduced and standard dose platelets?

Reduced dose platelets are **only produced from apheresis collections**. Therefore, pooled platelets will always be standard-dose components. Reduced-dose apheresis platelets will be identifiable as this will be stated on the component label. A unique barcode will also enable your hospital transfusion laboratory to identify and record these reduced dose platelets on the Laboratory Information Management System (LIMS).



Examples of the component labels that are affixed to reduced-dose apheresis platelets – Non-Irradiated and Irradiated

Note: When this measure is first being introduced, and when these contingency reduced dose apheresis platelets are being withdrawn [when red alert has been stood down], your hospital transfusion laboratory may have both standard-dose and reduced dose apheresis platelets in stock, for a short period of time

When to use reduced-dose apheresis platelets?

Reduced-dose apheresis platelets will only be used when there is a significant platelet shortage that is affecting patient care. For detailed guidance see - <u>Guidance Notes for Reduced-Dose Apheresis</u> <u>Platelets</u> and the National Blood Transfusion Committee [NBTC] <u>Platelet Shortage Plan.</u>

During a red alert, patients who should not be transfused platelets at this time [as set out in <u>Red Alert</u> <u>platelet shortage guidance</u>], should not receive this component.

Research and work by NHSBT show that it is acceptable to use a <u>reduced-dose apheresis platelet</u> <u>component</u> instead of a <u>standard-dose apheresis platelet component</u> in a severe platelet shortage, for older children and adults requiring prophylactic platelet transfusions.

Prophylaxis

Use reduced dose-apheresis platelets preferentially for patients who are not bleeding and are given platelets as prophylaxis as per <u>red alert platelet shortage guidelines</u> for children and adults.

When are standard-dose platelets still required? Bleeding

Compatible standard-dose platelets should be used for major haemorrhage/ patients with bleeding due to low platelets (either pooled or standard apheresis platelets).

If standard dose platelets are not available, where indicated, 3 units of reduced- dose apheresis platelets are comparable to 2 units of standard dose platelets. Use the minimum number of platelet units to reach the required increment

Prior to an urgent, emergency, or major procedure with a moderate or high risk of bleeding If an urgent or emergency procedure cannot be delayed, and no alternatives to platelet transfusion are available then use the platelet count thresholds as set out in the <u>Red Alert platelet shortage</u> <u>guidance</u>, in line with the NBTC <u>Platelet Shortage Plan</u>.

Do not use these components if it is a procedure with a low risk of bleeding –proceed without any platelet support and give platelets if bleeding occurs.

| What about patients with special | What do you need to think about in practice? |
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| requirements & platelets for neonates? | Familiarise yourself with your organisation's |
| Irradiated reduced-dose apheresis | Emergency Blood Management |
| platelets will be available for patients who | Arrangements. |
| have this requirement | Clear communication to the transfusion |
| Neonatal platelets will not be affected by | laboratory of the indication for the platelet |
| this change. | transfusion is vital (prophylaxis, prior to |
| • HLA / HPA selected platelets There will be | procedure (state procedure), bleeding |
| very limited access to these components | (severity of bleeding). This ensures the patient |
| during a severe shortage. All requests will | gets the most appropriate component. |
| need to be approved by a consultant | Document in the patient's record, and on the |
| haematologist at your organisation. If HLA or | prescription chart whether a reduced or |
| HPA selected components are not available | standard-dose component is required. |
| despite an appropriate request, use ABO- | You do not need to re-check platelet count |
| matched random-donor platelet components | post transfusion, over and above routine |
| instead. If HLA or HPA selected platelet | practice. |
| components are available, they may be either | Incorporate a check for the type of platelet |
| a standard or a reduced-dose apheresis | component [reduced or standard dose] at the |
| component, depending on availability. | point of transfusion and document in the |
| Washed platelets Where stock allows, | patients record. |
| requests for washed platelets will be fulfilled | Report any incidents, delays, or patient |
| with a standard dose component | adverse events/ reactions related to this |
| | change to your Hospital Transfusion Team. |

What do we need to tell patients?

For patients having a one-off platelet transfusion, the information needed will not vary from the information that patients should be receiving prior to transfusion. Information on the risks. benefits and any alternatives to transfusion, being standard elements of the consent process. Patients requiring regular prophylactic transfusions should, where possible, be informed of this change and the reason for it. This change may increase the number and/ or frequency of platelet transfusions required, if the platelet increment is insufficient or the platelet count not maintained due to reduced dose transfusion.

Your Hospital Transfusion Team can provide more information on this new component and other measures in place during the platelet shortage.