NORTH EAST & YORKSHIRE REGIONAL

REGIONAL TRANSFUSION COMMITTEE



Completing the prescription chart

Presented by the North East & Yorkshire Non-Medical Authorisation working group

Caring Expert Quality



Core principles of authorising the blood product

- Thorough clinical assessment has been undertaken and patient is fit for transfusion
- Stay within your agreed area of competency Then ...
- Patient ID
- Documentation
- Communication



Minimum Dataset

- Core identifiers
 - Full name
 - Date of birth
 - Unique ID number
- Type of components
 - Red cells FFP
 - Platelets Cryoprecipitate
- Date & time of transfusion
- Special requirements if applicable
- Signature and contact details



Volume Adults

Red cells

Adult = $\frac{4ml/kg}{will}$ will typically give a Hb increment of $\frac{10g/L}{will}$.

Platelets

1 pooled (4 donors) or apheresis unit

<u>FFP</u>

<u>15ml/kg</u>

- 50kg 65kg 3 units
- 70kg 85kg 4 units
- 90kg 100kg 5 units

Cryoprecipitate

If Fibrinogen <1.5g/l (<2g/l in pregnancy)

• 2 pooled packs (10 donors)



Rate

Dependent on clinical condition and co-morbidities

Red cells

•over 90 mins to 3 hours

Platelets

•over 30 minutes

•FFP

•Stat to 30 mins

Cryoprecipitate

•Stat to 30 mins

Paed/neonates Transfusion formulas

 Top-up 10-20 mL/kg, (typically 15 mL/kg over 4 hours)

Desired Hb - Actual Hb x weight x Factor 3 to 5 ÷ 10 ÷ hrs Platelets volume and rate formula<15 kg child</td>10-20 ml/kg over 1 or 2 hours>15 kg childSingle apheresis unit over 1 or 2 hours

15kg child with hb of 70g/dl; target Hb 100g/dl

Desired Hb = 100 - Actual Hb (70) = 30X 15kg = 450 x 3 = 1350mls ÷ 10 =135mls ÷ 3 (hrs) = 45mls/hr Total amount transfused = 135mls **FFP volume and rate formula**

10 to 20 ml/kg over 1 or 2 hours

Cryo volume and rate formula

5ml/kg over 1 or 2 hours





Medication during/pre transfusion

E.G. Frusemide, Hydrocortisone, Piriton, Paracetamol
Determined by local policies/assessment procedure
Assessment should highlight if the patient is fit for transfusion

Has the decision been made to administer medicationDo you need to challenge this prior to transfusion

Apps to help.

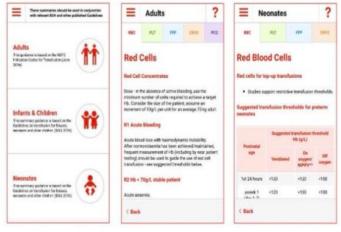




Available on Google Play and at the App Store



The Blood Component Indication App summarises relevant national transfusion guidelines for Adults, Infants & Children and Neonates.





Questions?