



**North East
& Yorkshire**

Completing the prescription chart

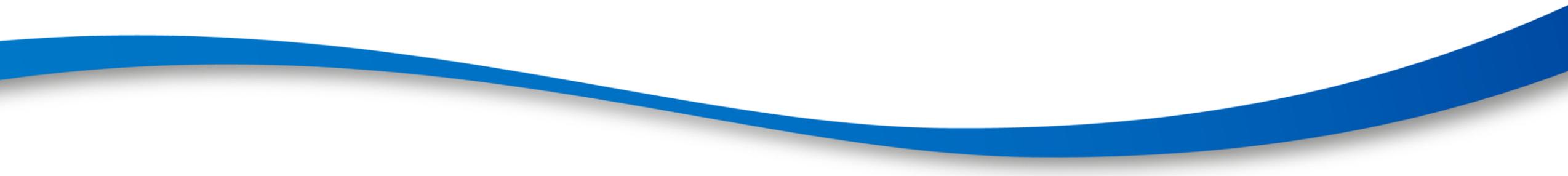
Presented by the North East & Yorkshire
Non-Medical Authorisation working group

Caring Expert Quality

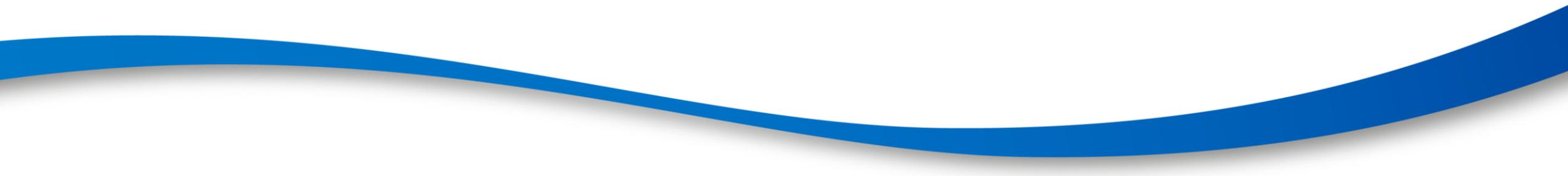
Core principles of authorising the blood product

- Thorough clinical assessment has been undertaken and patient is fit for transfusion
- Stay within your agreed area of competency

Then ...

- Patient ID
 - Documentation
 - Communication
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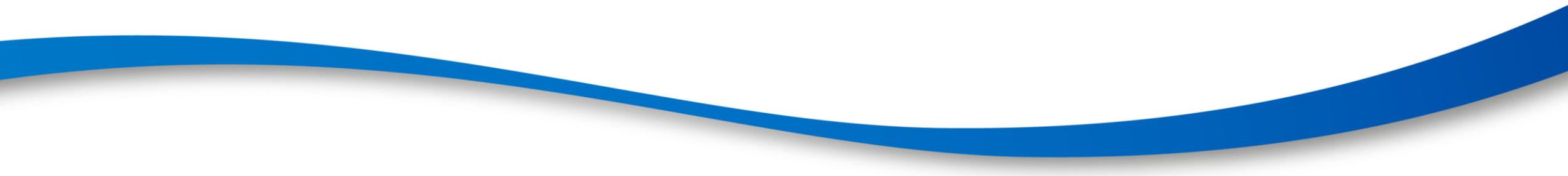
Core patient identification

- Ensure the patient ID is completed:
 - First name, last name.
 - Date of birth.
 - Unique identification number (NHS or Hosp No.)
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Consent and TACO assessment

- Ensure you have completed the consent process and documented the patient's consent to receive a transfusion.
 - Is the consent a long term consent?
 - Is it an emergency – patients' best interests?
 - Is it for this in patient episode only?
 - Have you completed the TACO risk assessment?
 - Risk factors to take into account and mitigate?
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Transfusion specific

- Special requirements:
 - Indicate whether these apply or not.
 - Date & time of transfusion.
 - Type of components
 - Red cells - FFP
 - Platelets – Cryoprecipitate
 - Signature and contact details
- 

Volume Adults

Red cells

Adult = 4ml/kg will typically give a Hb increment of 10g/L.

Platelets

1 adult dose (4-6 donors) or apheresis unit (1 donor)

FFP

15-20ml/kg

- This is often equivalent to 4 units in adults
- In a MHP transfuse 1:1 with RBC

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 - 60 mins

•FFP

- Stat to 30 mins (10-20 ml/kg/hr)

•Cryoprecipitate

- Stat to 30 mins (10-20 ml/kg/hr)
- 

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

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

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

Platelets volume and rate formula

<15 kg child

10–20 ml/kg over 1 or 2 hours

>15 kg child

Single apheresis unit over 1 or 2 hours

FFP volume and rate formula

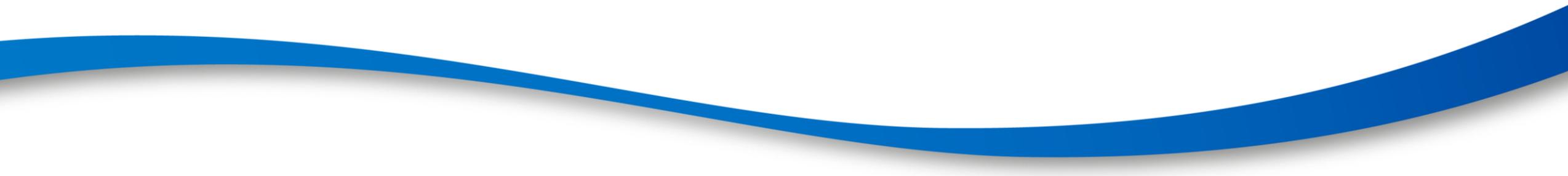
10 to 20 ml/kg over 1 or 2 hours

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 medication?
 - Do you need to challenge this prior to transfusion?
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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.

Pretransf age	Threshold	On oxygen/APP/PPH	Off oxygen
1st 24 hours	<120	<120	<100
2week 1-14w 1-2h	<120	<100	<100

Any Questions ?

