GENERAL GUIDE TO SAFE TRANSFUSION PRACTICE

Always confirm the identity of the recipient and check the unit as well as the expiry date, before commencing the transfusion. Consent is required prior to transfusion.

OBSERVATIONS
- Read baseline temperature, pulse, respiratory rate and blood pressure before the start of each unit.
- Closely observe the patient for the first 5 minutes after the start of the transfusion.
- Monitor the patient throughout the transfusion for evidence of adverse reactions.
- Record observations on the patient's chart, including start and stop time of each unit.
- Report all adverse reactions.

BLOOD TRANSFUSION THERAPY - BLOOD COMPONENT & BLOOD PRODUCT ADMINISTRATION

RED CELL COMPONENTS

| Component | Volume | Uf dose
<table>
<thead>
<tr>
<th></th>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>Red Cells Resuspended</td>
<td>220-340mL</td>
<td>1 unit</td>
</tr>
<tr>
<td>Neonatal Red Cells Resuspended</td>
<td>55-85mL</td>
<td>1 unit</td>
</tr>
<tr>
<td>Autologous White Blood Cells</td>
<td>440-540mL</td>
<td>1 unit</td>
</tr>
</tbody>
</table>

PLATELET COMPONENTS

| Component | Volume | Uf dose
<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>Platelets</td>
<td>180-400mL</td>
<td>1 unit</td>
</tr>
<tr>
<td>Platelets (four donors)</td>
<td>200-350mL</td>
<td>1 unit</td>
</tr>
<tr>
<td>Platelets</td>
<td>30-65mL</td>
<td>1 unit</td>
</tr>
</tbody>
</table>

PLASMA & CRYOPRECIPITATE COMPONENTS

| Component | Volume | Uf dose
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Fresh frozen plasma</td>
<td>180-340mL</td>
<td>12.5mL/kg</td>
</tr>
<tr>
<td>Thawed plasma</td>
<td>180-340mL</td>
<td>12.5mL/kg</td>
</tr>
<tr>
<td>FFPE-EL</td>
<td>120 hours (apheresis or whole blood derived)</td>
<td></td>
</tr>
</tbody>
</table>

GRANULOCYTE COMPONENTS

| Component | Volume | Uf dose
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Apheresis Granulocytes</td>
<td>200-500mL</td>
<td>1 unit</td>
</tr>
<tr>
<td>Buffy Coat</td>
<td>35-65mL</td>
<td>4-6 units</td>
</tr>
</tbody>
</table>

BLOOD GROUP COMPATIBILITY

ABO

- Red cell component compatibility is as follows:
  - ABO compatible: A, B, AB, O
  - ABO incompatible:
    - A/A: A, AB
    - A/B: A, B
    - A/AB: A, AB
    - A/O: A
    - B/B: B, AB
    - B/AB: B, AB
    - B/O: B
    - AB/AB: A, B, AB
    - AB/O: A, B
    - O/O: O

RHD

- RHD identical red cells are normally compatible.
- RHD negative red cells may be given to RHD positive recipients without causing harm.
- In the therapeutic emergencies, RHD positive red cells may be given to an RHD negative recipient but there is a risk that this will stimulate the production of anti-D.
- The blood bank will provide guidance and the clinician must be notified.

CRYOPRECIPITATE

- Cryoprecipitate is intended for provision to patients who have ABO and RHD compatibility.

STORAGE TEMPERATURE

- Stored in a refrigerator (2-6°C) for 5 days to 30 days.
- Return the component to the blood bank immediately for appropriate storage, if the transfusion cannot be started within 30 minutes.

INFUSION SETS/FILTER/SPECIAL PRECAUTIONS

- Use a standard blood infusion set that has a 170-200 micron filter.
- Use a standard blood infusion set that has a 170-200 micron filter.
- Use gravity flow infusion sets or validated volumetric infusion pumps.
- Platelets must not be transfused through an infusion set that has already been used for red cell components.

MEDICATIONS

- Do NOT add medication to red cell components.

RATE AND DURATION OF TRANSFUSION

- Transfuse within 4 hours from time of issue.
- Transfuse within 1 hour from time of issue.
- Transfuse cryoprecipitate within 4 hours from time of issue.
- Transfuse FFP (24hr) & thawed plasma (FFP-EL, 120hr) within 4 hours from time of issue.
- Transfuse within 4 hours from time of issue.
- Transfuse slowly (over 2-4 hours).

IMMUNOLOGICS

- Intravenous Immunoglobulin (IVig)
  - Intravenous Immunoglobulin (IVig) (1g/kg)
  - Intravenous Immunoglobulin (IVig) (2g/kg)
  - Intravenous Immunoglobulin (IVig) (3g/kg)

COAGULATION FACTORS

- Hemostaseflor VIIa (VIIa) 500 U (500 U) I 2000 U (2000 U)
- FVIIa (VIIa) 500 U (500 U) I 2000 U (2000 U)
- FVIII (VIII) 500 U (500 U) I 2000 U (2000 U)
- FIX (IX) 500 U (500 U) I 2000 U (2000 U)
- PLL (Plasma) 500 U (500 U) I 2000 U (2000 U)

ALBUMIN

- Albunet (4) (Albumet 4%) 350 mL, 500 mL
- Albunet (20) (Albumet 20%) 10mL, 100mL

MEDICATIONS

- Do NOT add medication to plasma or cryoprecipitate concentrates.
- Do NOT add medication to granulocyte concentrates.

PLASMA & CRYOPRECIPITATE COMPONENTS

- Fresh frozen plasma | 180-340mL | 12.5mL/kg
- Thawed plasma | 180-340mL | 12.5mL/kg
- FFPE-EL 120 hours (apheresis or whole blood derived)

GENERAL GUIDE TO FRACTIONAL PLASMA PRODUCTS

- Ensure baseline observations are recorded.
- Observe the product bottle for lability and sediment before administration.
- Monitor the patient for evidence of adverse reactions.
- Report all adverse reactions.
- Report all faults and return product to blood bank.

BLOOD GROUP COMPATIBILITY

- ABO & RHD compatibility are not required for plasma fraction products.

RATE OF INFUSION & PRECAUTIONS

- Rates vary according to product type and clinical status; refer to manufacturers package insert guidelines and local policy.
- Each bottle of Albumin or IVig product should be infused within 4 hours of spiking.
- Coagulation factors should be administered at 3mL/min and infused within 3 hours of reconstituted.
- Never add medications to fractionated plasma products.

ADMINISTRATION AND FILTERS

- Use a standard IV infusion set, a filter is not required.
- Allow product bottles and vials to reach room temperature prior to administration.
- Vent glass bottles to administer via filter; if coagulation factors are administered as an IV push or via a syringe pump.

SPECIAL INSTRUCTIONS

- Evaporate 16% - 0.6g, 1.6g or 3.2g

IMMUNOLOGICS

- Intravenous Immunoglobulin (IVig)
  - Intravenous Immunoglobulin (IVig) (1g/kg)
  - Intravenous Immunoglobulin (IVig) (2g/kg)
  - Intravenous Immunoglobulin (IVig) (3g/kg)
  - Intravenous Immunoglobulin (IVig) (4g/kg)

Coagulation factors

- Hemostaseflor VIIa (VIIa) 500 U (500 U) I 2000 U (2000 U)
- FVIIa (VIIa) 500 U (500 U) I 2000 U (2000 U)
- FIX (IX) 500 U (500 U) I 2000 U (2000 U)
- PLL (Plasma) 500 U (500 U) I 2000 U (2000 U)

ALBUMIN

- Albunet (4) (Albumet 4%) 350 mL, 500 mL
- Albunet (20) (Albumet 20%) 10mL, 100mL

MEDICATIONS

- Do NOT add medication to plasma or cryoprecipitate concentrates.
- Do NOT add medication to granulocyte concentrates.
- Do NOT add medication to red cell components.