East of England Regional Transfusion Committee

Major haemorrhage in adults Pulse>110, RR>30 Urine <20mls/h Hypotensive in trauma, systolic BP< 90mmHg ≥ 40% loss of total blood volume 4 litres in 24 hours 2 litres in 3 hours Get senior help Initiate major haemorrhage protocol by contacting relevant staff members and teams e.g. resus Important phone numbers **Contact Transfusion Laboratory** and prompts to tell the laboratory Assess ABC IV access Check patient identification - ID / Wristbands 2 large cannula Send blood samples: cross match, FBC, coagulation, biochemistry Consider arterial blood gas measurement • Give tranexamic acid for trauma and obstetric patients and consider for others. Dose: 1g IV over 10 minutes then 1g over 8 hours Resuscitate IV warm fluids - crystalloid or colloid Give oxygen **Give Blood** Give up to 4 units via blood warmer. Aim for Hb>80g/L Give Group O if immediate need and/or blood group unknown **Prevent coagulopathy** Primary MH Pack Anticipate need for platelets and FFP after 4 units blood Secondary MH Pack RBC 4 units **RBC 4 units** replacement & continued bleeding FFP 4 units FFP 4 units Alternate RBC & FFP If you use TEG/ROTEM please follow local policy Platelets Aim for RBC:FFP ratio Give Primary Major Haemorrhage (MH) Pack Cryoprecipitate • Order Secondary Major Haemorrhage Pack Correct hypothermia . Correct hypocalcaemia (keep ionised Ca>1.13mmol/l) • When lab results available: **Trauma Primary MH** IF GIVE Send FBC & coagulation samples after every 3 – 5 pack APTT and/or FFP 15-20 ml/kg units of blood given **RBC 4 units** PT ratio>1.5 FFP 4 units Fibrinogen Cryoprecipitate

- **Contact Haematologist**
 - If bleeding continues repeat secondary pack

Platelets 1 unit Aim for RBC:FFP 1:1

2:1

- Get help to stop bleeding

<1.5g/L &

Obstetrics

<50 x 10⁹/l

<2g/L Platelets (2 pools)

Platelets 1 unit.