Contact details for

On generation of

information.

For any further

07580 971 564

Before transfusion Check patient ID

Use wristbands

communication with

blood bank during the MH contact via the MH

mobile phone number

Major Haemorrhage Alert (MH) the blood bank will contact the

Transfusion Laboratory

clinical area for patient



# Major Haemorrhage in Adults

≥ 40% loss of total blood volume

4 litres in 24 hours 2 litres in 3 hours

# **Get senior help**

Contact Switchboard on 2222 **Activate Adult Major Haemorrhage** and state your location

## Assess ABC

# IV access

### Check patient identification

2 large cannula

Send blood samples, cross-match, FBC, coagulation, biochemistry

Consider arterial blood gas measurement

# Resuscitate

IV warm fluids - crystalloid or colloid Give oxygen

## Give blood

Blood loss >40% blood volume is immediately life-threatening

Give 2 units via fluid warmer. Aim for Hb>80g/l Give Group O if immediate need and/or blood group unknown

# Prevent coagulopathy

Anticipate need for platelets and FFP after 2 units blood replacement and continuing bleeding

Give Primary Major Haemorrhage (MH) Pack

Order Secondary Major Haemorrhage (MH) Pack

Correct hypothermia

Correct hypocalcaemia (keep ionised Ca >1.13mmol/L)

Send FBC and coagulation samples after every 3-5 units of blood given

Give tranexamic acid for trauma patients and consider it's use in non traumatic bleeding

**Contact Haematologist** 

### Blood loss >40% blood volume

• 1500-2000mls loss

#### MH may manifest as

- Pulse > 110, RR > 30
- Hypotensive in trauma systolic BP<90 mmHg
- Urine < 20mls/h

When laboratory results available	
IF	GIVE
Falling Hb	Red cells
APPT and/or PT ration >1.5	FFP 15–20ml/kg
Fibrinogen <1.5g/l and obstetrics <2g/l	Cryoprecipitate (2 pools)
Platelet count <50 x 10%	Platelets 1 adult dose order at 100 x 10 <sup>9</sup> /l

### Secondary MH pack

- RBC 5 units
- FFP 4 units
- Platelets
- Cryoprecipitate

### Trauma Secondary Pack Only

- RBC 5 units
- FFP 4 units
- Cryoprecipitate
- Aim for RBC:FFP Ratio 1:1

If bleeding continues repeat secondary pack

Contact surgeons, gastroenterologists, obstetricians as appropriate

# Alternate RBC and FFP

### **Primary MH pack**

- RBC 5 units
- FFP 4 units

### **Trauma Primary Pack Only**

- RBC 5 units
- FFP 4 units
- 1 pool platelets
- Aim for RBC:FFP Ratio 1:1

### Reassess and document

# Get help to stop bleeding