

**Massive Blood Loss in Adults**  
**> 40% Loss of Total Blood Volume**

4 Litres in 24 Hours 2 Litres in 3 Hours > 150mL/min

**Get senior help**

**Contact Transfusion Laboratory**

Contact senior member of clinical team  
Contact senior ward nurses.  
Contact portering services.

**Ask Transfusion to 'initiate massive blood loss protocol'**

**Important Phone Numbers**

Contact Transfusion

**Assess ABC**

**IV Access**

Contact Transfusion Ext 2905/2906  
  
Bleep 0670

Check patient identification  
2 large cannula  
Send blood samples, cross match, FBC, coagulation, biochemistry  
Consider arterial blood gas measurement

Blood loss >40% blood volume  
mLs loss

**MBL may manifest as**

Pulse > 110, RR > 30  
Hypotensive in trauma  
Systolic BP <90mmHG  
Urine <20mLs/h

**Resuscitate**

IV warm fluids-crystalloid or colloid

**Give blood**

Transfusion  
Check patient ID  
Use wristbands

**Blood loss > 40% is immediately life-threatening**

Give 4 units via fluid warmer.

Aim for Hb>80g/L

Give Group O if immediate need and/or blood group unknown

When laboratory results available

**Prevent coagulopathy**

Primary MBL Pack

- RBC 5 Units
- FFP 4 Units

Alternate RBC and FFP and Aim for RBC:FFP ratio 1:1

Anticipate need for platelets and FFP after 4 units blood replacement and continuing bleeding

Give Primary Massive Blood Loss (MBL) Pack

If	Give
Falling Hb	Red cells
APTT and/or PT ratio > 1.5	FFP 15-20ml/kg
Fibrinogen <1.5g/l and obstetrics <2g/L	Cryoprecipitate (2 pools), or fibrinogen concentrate 4g in Obstetric patients
Platelet count <50 x 10 <sup>9</sup> /l	Platelets 1 adult dose Order when <100 x 10 <sup>9</sup> /L”

If Trauma give Platelets early

Order Secondary Massive Blood Loss

Secondary MBL Pack

- RBC 5 units

- RBC 5 Units
- FFP 4 Units
- Platelets 1

Reassess and document

(MBL) Pack Correct hypothermia

Correct hypocalcaemia

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

Give tranexamic acid for trauma patients and consider its use in non-traumatic bleeding Dose: 1g over 10 minutes then 1g over 8 hours

Contact Haematologist

- FFP 4 units
- Platelets
- Cryoprecipitate

If bleeding continues repeat secondary pack

Contact surgeons, gastroenterologists obstetricians as appropriate

**Get help to stop bleeding**