

Major haemorrhage in adult trauma

≥ 40% loss of total blood volume

4 litres in 24 hours 2 litres in 3 hours >150ml/min

Major Haemorrage (MH) may manifest as:

- Heart rate > 110
- Systolic BP <90mmHg

Contact Transfusion Laboratory

Important phone numbers

Get senior help

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

Contact Transfusion

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 4 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 4 units blood replacement and continuing bleeding

Give Trauma 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

Contact Haematologist

When laboratory

Ask Transfusion to

'initiate major

haemorrhage

Check if tranexamic acid

given, if not give as

soon as possible at a

• 1g over 8 hours

• 1g intravenously over

10 minutes followed by

protocol'

dose of:

results available	
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)
Platelet count <50 x 10 ⁹ /l	Platelets 1 adult dose order at

Secondary MH pack

100 x 10⁹/l

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

If bleeding continues repeat secondary pack

Trauma Primary MH pack

Before transfusion

Check patient ID

• Use wristbands

- RBC 5 units
- FFP 4 units
- Platelets 1 unit
 Aim for RBC:
 FFP of 1:1

Standard MH Primary pack

- RBC 5 units
- FFP 4 units

Aim for RBC:FFP of 2:1

Reassess and document

Get help to stop bleeding

Contact surgeons, and clinical colleagues from other specialisms as appropriate