

# Paediatric Major Haemorrhage Protocol

## Activate Paediatric Major Haemorrhage Protocol

Please see reverse for activation process

### Initial Management

**Haemorrhage Control:** e.g. direct pressure, pelvic binder, prepare theatres / activate Damage Control Surgery pathway - Manager 41178 & Anaesthetist 41179 / bleep 6000

**Tranexamic Acid (TXA):** 15mg/kg bolus (max 1g) followed by infusion 2mg/kg/hr

**Blood Samples:** Crossmatch, FBC, Coag, U&E, LFTs, Calcium, Blood Gas, consider ROTEM

**Warming:** Prepare & prime Belmont/fluid warmer if available

### Receive Pack 1 *(see below for contents based on weight)*

Give PRC and FFP in 5-10ml/kg aliquots (1:1 ratio) via fluid warmer or Belmont

Patient has received 40 mls/Kg of blood products  
(20ml/kg PRC, 20ml/Kg FFP) and bleeding ongoing

### Request Pack 2

**with platelets**

*Platelets only provided upon request*

### Receive Pack 2 *(see below for contents based on weight)*

**Platelets:** Give 10ml/kg of platelets

**PRC & FFP:** Give further products based on results OR continue 5ml/kg PRC and 5ml/kg FFP in 1:1 ratio

**Calcium:** Give Calcium Chloride 10% 0.1ml/kg to keep ionised calcium > 1

**Samples:** Send further samples – FBC, coagulation, fibrinogen, blood gas – hourly

**Advice:** Contact Haematologist for advice (Consultant Paediatric Haematologist is not available 24/7)

### Stand down Blood Bank

Provide full patient details, **Return traceability labels**

#### Pack 1

	<5 Kg	5 – 9 Kg	10 – 39 Kg	≥ 40 Kg
<b>Red Cells</b>	3 x Paedi packs	1 unit	2 units	2 units
<b>FFP</b>	<i>Octaplas (Requires 20 mins defrosting - request FFP if required sooner)</i>	1 unit	2 units	2 units

#### Pack 2

	<5 Kg	5- 9 Kg	10 – 39 Kg	≥ 40Kg
<b>Red Cells</b>	3 x Paedi packs	2 unit	2 units	4 units
<b>FFP</b>	<i>Octaplas</i>	2 unit	2 units	4 units
<b>Platelets On request</b>	1 unit	1 unit	1 unit	1 unit

#### Transfusion targets

Hb >100g/l  
PT or APTT <1.5 x normal  
Platelets >75  
Fibrinogen >1.5 g/l

#### Other targets

Normothermia  
Ionised Calcium > 1  
K+ < 6  
pH > 7.20

# Paediatric Major Haemorrhage Protocol

## Activation Within Emergency Unit

Allocate nurse to Activate MHP (See Departmental Activation Protocol)

- 1) Senior nurse in Resus to be **Co-ordinator**
- 2) Book in patient as 'Unknown Male' or 'Unknown Female'
- 3) Contact Blood Bank '**Activate Paediatric Major Haemorrhage Protocol**'  
Mon-Fri 08.45-17.15 Ext. 41229.  
Out of hours call 3333 state '**Fast bleep Blood Bank on 5268 – major haemorrhage**'  
State **WEIGHT** or estimated weight

Division: UHW – Wales Cardiff  
Task type: MHPRES – Massive Haemorrhage...  
Transport type: W - Walk  
From location: BB – Blood bank  
To location: RES – Resuscitation Emergency...  
Category: Priority  
Identifier: N/A

- 4) Complete request on **Portertrac** →

- 5) Send EU 'runner' to lab with 'Unknown' patient **ADDRESSOGRAPH**

## Activation Within All Other Areas (UHW & CHfW)

Designate clinical coordinator (Role can be delegated)

- 1) Contact Blood Bank '**Activate Paediatric Major Haemorrhage Protocol**' State:
  - a) Weight or estimated weight
  - b) Patient's full details
  - c) Your name, role & contact number
  - d) LocationMon-Fri 08.45-17.15 Ext. 41229.  
Out of hours call 3333 state '**Fast bleep Blood Bank on 5268 – major haemorrhage**'  
Give location & extension number

- 2) Either: **Portertrac** – 'New Task', select 'MH (Massive Haemorrhage)' in task templates.

Complete Portertrac →

To location: Enter your location  
Identifier: N/A  
Ward requestor: Coordinator's name & number  
Comments:

- a) Patient's first and last name
- b) DOB
- c) 1<sup>st</sup> line of address
- d) Patient's hospital number

Or: Call Porter: 42667 / 42668 (Portering Control Room), (CHfW Theatres: 47357)  
(UHW Main theatres: 43096/43097, bleep 5045) – **give addressograph**