Adult Massive Haemorrhage Pathway

Massive Bleeding PLUS Shock Signs or HR > 120 or SBP < 90



1 Platelet*

Coagulation Targets	If Not, Give
PR < 1.5 APTT < 40	4 U FFP
Fibrinogen > 2g/L	3 U Cryoprecipitate
Platelets > 75 x 10 ⁹ /L	1 U Platelets**
lonised Ca ²⁺ > 1.1 mmol/L	1g Calcium

Obstetric Haemorrhage

- Manage Tone, Trauma, Tissue, Thrombin causes of haemorrhage
- Repeat TXA 1g 30 min after initial dose if significant ongoing bleeding

*See notes on page 2



CODE Red - ABC Score

- Penetrating mechanism = 1
- **SBP ≤ 90** mmHg = 1

- Positive eFAST*** = 1
- HR ≥ 120 bpm = 1

Code Red requires senior clinician approval and input, as activation identifies the highest risk trauma patients and needs a multi-service approach.

***eFAST scan accuracy relies on the skill level of the practitioner

Team Leader of the Resuscitation

- The team leader is the decision maker including activation of the MHP once the stat packs have been transfused
- Send urgent group & screen to blood bank
- Ensure Tranexamic Acid is administered, as a bolus through a fast flowing IV line

MHP Coordinator (e.g. Guardian, Coordinator) -

- Supports the team leader
- Once the MHP has been activated, communicate with the blood bank team

Tasks (Delegated as Necessary)

- Once Stat Packs have been transfused reassess the patient in conjunction with the team leader
- If required after stat pack activate MHP, state which MHP pathway (i.e. code crimson/standard/obstetric MHP)
- If senior clinician requests MHP activation immediately, stat pack is still issued while the blood bank prepares pack 1/pack 2
- Ensure blood bank have your name and contact number
- Organize adequate orderly/health care assistant support
- Repeat MHP bloods every 30mins
- Ensure 1g Calcium given with every MHP pack (10mL CaCl 10% or 30mL Ca²⁺ Gluconate 10%) as a bolus through fast flowing line
- Hand-over coordination role if patient location changes; ensure blood bank notified of new coordinators name and number
- Cease MHP once the patient is clinically stable, inform blood bank, move to targeted therapy
- Ensure transfusion documentation / checklists maintained; all swing labels retained
- ****Smaller Centres should** check Full Blood Count BEFORE giving platelets, avoid transfusing if PLT > 75 x 10 // L

Blood Bank Tasks – Blood Bank – ext 8174

- Process group & screen ASAP
- Liaise with MHP coordinator
- Release Stat Pack and MHP Packs as per protocol / SOP
- Notify NZBS TMS as per SOP & manage inventory
- Maintain Blood Bank Tracking Sheet / Checklist documentation and eTraceline records

Smaller Centres BEFORE releasing Pack 3, liaise with MHP coordination role to confirm PLT count is < 75 x 109/L and platelets clinically indicated

Infusion Standards

• RBC, FFP, Cryoprecipitate: • warmed



Clinical Targets

- Surgical/radiological control of bleeding ASAP
- Normal **pH/base deficit**



- standard blood infusion set
- Platelets:
 - warmed or room temp
 - new infusion set preferred, not essential

Normal body temperature
A lower MAP may be tolerated until bleeding slowed - unless brain injury

MHP Runner

Identified by MHP runner and works with MHP coordinator

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Contacts:

- Blood Bank ext 8174
- Orderlies ext 8004
- Anaesthetist/theatre ext 8180
- ED ext 8139
- NZBS TMS via Blood Bank

