



FOR NON-TRAUMA PATIENTS

ADULT MAJOR HAEMORRHAGE CALL SOP

ACTIVATION CRITERIA: (ANY of the below)

1. Overt or Suspected bleeding with a SBP below 90 mmHg **OR**
2. Haemodynamic instability due to blood loss **OR**
3. Bleeding more than 150mls/min

ACTIVATION PROCESS:

1. Call 2222 and state: Adult Major Haemorrhage Call on "Location" at Royal London Hospital.
2. Call Blood Bank on **61108** to request blood packs. **Blood will NOT come automatically.**
3. Runner collects RBC from fridges. Porter collects FFP, Cryo and Plts from Blood Bank.

BEFORE MHC TEAM ARRIVES

LOCAL RESPONSE

1. Reduce or stop obvious bleeding. Provide BLS/ILS/ALS.
2. Bring Resuscitation Trolley close to patient. Check suction. Do Obs every 5 min.
3. Ensure 360 access to the patient. Create space for MHC team.

MHC TEAM ON SCENE

ROLE ALLOCATION: (Go through the MHC arrival checklist.)

Team Leader assigns Communication Lead, Vascular access, Runner, Assessor, and Scribe roles.

Comms Lead will coordinate the communication with the Runner, Porter and Blood Bank.

Runner collects RBC from fridges. **Porter** collects FFP, Cryo and Plts from Blood Bank.

Assessor will examine patient and communicate findings. (See Action cards for all roles)

C-ABCDE ASSESSMENT performed by **Assessor**

1. Compress external bleeding. Consider CELOX or Tourniquets (in MHC red trolley)
2. For surgery in the neck -> risk of airway obstruction. Senior anaesthetic and surgical help ASAP.
3. Consider Sengstaken-Blackmore tube placement in upper GI bleeding.
4. Intubate if airway is at risk. Anticipate poor views. Anticipate haemodynamic instability.
5. **Vasc. access role** to secure two wide-bore cannulas and/or RIC line and/or wide-bore CVC.
6. Consider IO needle in extremis as a temporising measure. Use pressure bag to give blood.
7. Collect baseline bloods: FBC, U&Es, Clotting, Fib, LFTs, 2 G&S, **VBG/ABG and ROTEM**

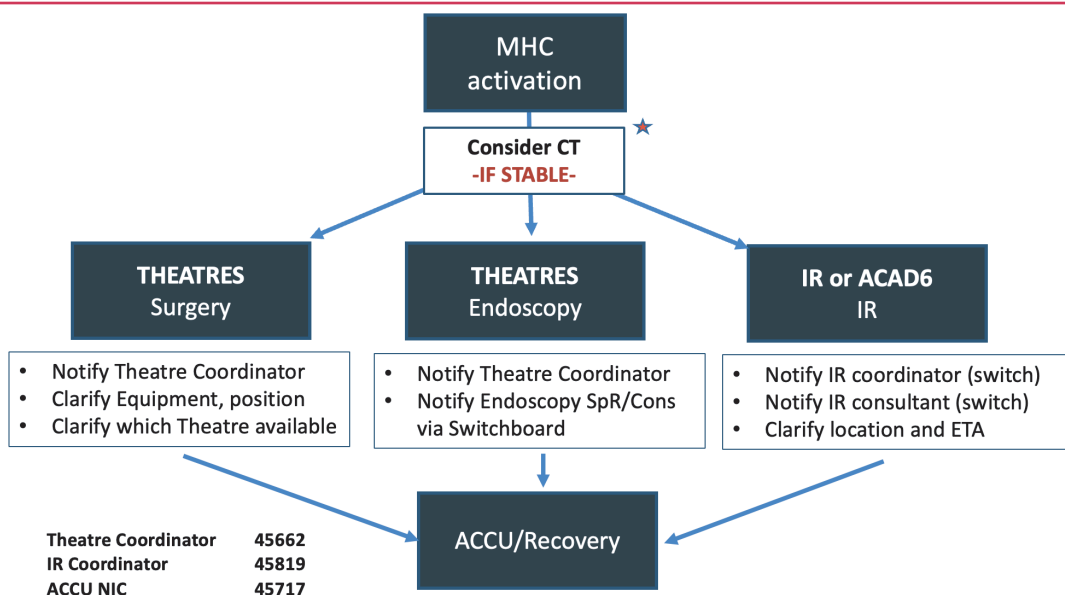
VOLUME REPLACEMENT AND COAGULOPATHY MANAGEMENT

1. Avoid infusing cold crystalloid.
2. Use group specific blood if G&S available. Otherwise, use emergency blood.
3. Do not delay transfusion to wait for G&S to be processed.
3. **Comms Lead** call **61108** to request **Pack A** (4FFP and 4RBC) ASAP.
4. Request **Pack B** (6RBCs, 6FFPs, 2Cryos, 1Plt) early if needed. It takes 30-45 min.
5. **Runner** collects **RBCs from hospital blood fridges. Porter collects FFPs, Cryo and Plts from the main blood transfusion lab** (pathology and pharmacy building-level 4).
6. Transfuse **warmed RBCs & FFPs on a ratio of 1:1. Target SBP= 80-90 mmHg.**
7. See "**Over-Anticoagulation**" Trust Guideline for specific anticoagulation reversal agents.
8. In complex cases, discuss management with Haematology SpR/Consultant.
9. Give all fluids via a fluid warming device. Use pressure bags if needed.
10. Consider specific therapies: Terlipressin.
11. Give 1 gram Tranexamic IV STAT. Avoid in upper GI Bleed.

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ONGOING MANAGEMENT AND DEFINITIVE TREATMENT

1. TAG Consultant/ACCU/1220 SpRs should use ROTEM to guide further transfusion.
2. Team Leader, go through **BASTE algorithm regularly** with the entire team. **See below.**
3. **Start transfer preparations early.** CCOT, ODP, ACCU and Anaesthetic SpR to organise.
4. The general surgery SpR will be the primary surgical responder. They should **notify the oncall Vascular Consultant if surgical arrest of bleeding might be required.**
5. Call the oncall IR or Endoscopy Consultants via Switchboard if they are needed.
6. Clarify treatment destination, equipment, ETAs. Inform coordinators ASAP.
7. Go through the **transfer checklist** before departure.
8. **Handover** to Team Leader in new treatment area. **Stand down** MHC call at the end.



★ Carefully consider the benefits/risks of transferring a potentially unstable patient to CT. This should be decided between senior ACCU/Surgical/Anaesthetic clinicians.



FEEDBACK

BASTE ALGORITHM

B

Blood

Think ahead. Order Pack B early.
 Transfuse warmed RBCs and FFPs on a ratio of 1:1.
 Target SBP= 80-90 mmHg.
 Consider 1 g TXA. Avoid if Upper GI bleed.
 Consider specific reversal agents. Speak to haematology.

A

Acid-Base

Repeat ABG
 Use trend in pH, BE, and Lactate as markers of resuscitation.
 Give Bicarbonate 8.4% if extreme acidosis or hyperkalemia.

S

Strategy

Clarify progress with team.
 Clarify treatment destination, equipment, ETAs.
 Share mental model and infos with team.

T

Temperature

Use a fluid warmer and Bair hugger.
 Cover the patient to minimise heat loss.

E

Electrolytes

Monitor and Treat K and Ca regularly.
 Ensure CaCl and Insulin Dextrose available.