Adult Massive Transfusion Protocol (MTP) Checklist

Medical decision to initiate MTP

ED, OT, ICU, BS CALL 777: State “MTP” & your LOCATION

All other areas CALL 777: State “Clinical Emergency”

☐ 1. Complete a QMR022A form, write EMERGENCY BLOOD Guide: 3 Units for Adults
☐ 2. Write MTP BOX 1 on a second QMR022A form AND on a QMR022B form
☐ 3. Sign the ‘Requested by’ boxes on ALL 3 FORMS

Send ALL 3 FORMS via RUNNER to Blood Bank

☐ Instruct runner to wait for emergency blood
☐ Send runner back to Blood Bank to await Box 1

Runners can be: Nurses, Midwives, Orderlies, Hospital Aides, Operating Theatre Assistants, Medical Staff, Anaesthetic Technicians

Call Blood Bank on 80310, State “I am activating the MTP”

☐ Confirm your location and contact number
☐ Identify yourself, AND the name and designation of the Clinical Team Leader initiator
☐ Identify patient: Full name and NHI
☐ Name of the guardian of the box (Notify Blood Bank of any change)
☐ Provide brief patient diagnosis, relevant information e.g. anticoagulant
☐ CLARIFY the mode of delivery, who is the runner?

Clarify with Blood Bank

☐ Is there a valid group and screen?
☐ If not, send a new sample
☐ Blood Bank can supply emergency blood or group specific blood while the sample is being tested

Received too many blood components?

Send the most recently received blood components back to Blood Bank

Return to controlled storage within 30 minutes of issue to minimise wastage

MTP Ceased? Notify Blood Bank on 80310

Initiate and Prepare Forms
Adult Massive Transfusion Protocol (MTP) Flow Chart

Clinical Team Leader Responsibilities
- Refer to CDHB MTP Checklist
- **Initiate** and prepare QMR022A/B forms
- Send forms via runner
- **Activate** MTP
- Decision made to cease MTP: Call Blood Bank Ext 80310

Blood Bank Responsibilities
- Ensure X-match sample is processed ASAP after O neg release
- Notify NZBS Transfusion Medicine Specialist after issuing MTP Box 4 or earlier if requested
- Thaw next box in advance and await request forms
- Ensure supply of platelets

Contacts
- Blood Bank - Ext 80310
- Coagulation Lab - Ext 80374
- Transfusion Medicine Specialist details available from Blood Bank - Ext 80310

Additional Treatment Thresholds
- If PR >1.5 or APTT >40 consider additional 4 units FFP
- If fibrinogen <1 g/L consider additional 3 units Cryoprecipitate
- If platelets <75 x10^9/L consider an additional unit of platelets
- If ionized calcium <1 mmol/L give 10 mLs calcium gluconate IV 10 mL of a 10% solution over 5 minutes
- The Transfusion Medicine Specialist may override protocol

Massive bleeding AND shock or coagulopathy

**INITIATE** MTP and prepare forms

Give 3 units (guide) O-neg or type specific RBC if cross-matched blood not available

**ACTIVATE** Massive Transfusion Protocol

Request, deliver and tranfuse as below

**MTP BOX ONE**
- 2 units RBC
- 2 units FFP

**MTP BOX TWO**
- 4 RBC
- 4 FFP
- 3 units Cryoprecipitate

**MTP BOX THREE**
- 4 RBC
- 4 FFP
- 1 unit Adult Platelets

**MTP BOX FOUR**
- 4 RBC
- 4 FFP
- 3 units Cryoprecipitate

Alternate 3 and 4

Check:
- INR/APTT/
- Fibrinogen/Platelets/FBC/
- ABGs/Calcium/TEG if available

Tranexamic Acid 1g

Repeat every 30 mins

Check:
- INR/APTT/
- Fibrinogen/Platelets/FBC/
- ABGs/Calcium/TEG if available