

Adult Massive Transfusion Protocol (MTP) Checklist

Medical decision to initiate MTP



Initiate and Prepare Forms

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 forms via runner

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



Activate MTP

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?

Emergency Blood & Group & Screen

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

**MTP Ceased?
Notify Blood Bank
on 80310**

**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

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 x10⁹/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

Tranexamic Acid 1g

MTP BOX ONE

2 units RBC
2 units FFP

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

MTP BOX TWO

4 RBC
4 FFP
3 units Cryoprecipitate

MTP BOX THREE

4 RBC
4 FFP
1 unit Adult Platelets

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

MTP BOX FOUR

4 RBC
4 FFP
3 units Cryoprecipitate

Repeat every
30 mins

alternate 3 and 4

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