

Adult Massive Transfusion Protocol (MTP) Checklist

Medical decision to initiate MTP



Initiate and Prepare Forms

Call 777: State “This is an MTP, my location is ...”

- 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

Fax forms to Blood Bank

Fax ALL 3 FORMS to Blood Bank (pre-programmed or 80159)

- Orderly will go directly to Blood Bank
- Orderly will bring back blood/MTP box



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
- Clarify what blood and or components required
- Name of the guardian of the blood (Notify Blood Bank of any change)
- Provide brief patient diagnosis, relevant information e.g. anticoagulant

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

- 🔥 **Initiate** (777) and prepare QMR022A/B forms
- 🔥 **Fax** forms to Blood Bank (80159) or pre-programmed
- 🔥 **Activate** MTP (80310)
- 🔥 **Cease** MTP (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, fax 80159
- 🔥 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