

Patient Label

Paediatric MTP

Please refer to protocol CPM.T6.5

Team Leader Responsibilities

- Notify PathLab ensuring coagulation requests and sample are sent.
- Activate MTP - call PathLab and state "I am activating the Paediatric Massive Transfusion Protocol Alpha, Bravo or Charlie."
- Please note: **Whakatane Hospital have no platelets stored on site.** Platelets will be ordered but will take at least 3 hours to arrive.
- PathLab will send the first box when ready.
- Call for each subsequent box as required.
- Alternated infusions of products to avoid swings in HB/coags.
- Making the decision when to cease the MTP and contact PathLab.

PathLab Responsibilities

- Ensure X-match sample is processed ASAP after O Neg release.
- Notify New Zealand Blood Service (NZBS) Medical Officer after issuing MTP Box One.
- Thaw next box in advance and await request.
- Ensure supply of platelets - order 2 units of platelets as soon as MTP is activated.
- Label adult unit with the volume to transfuse.
- Provide red blood cells <14 days old whenever possible.

Contacts

- PathLab Extn 8234 (Tauranga) / 4776 (Whakatane)
- Transfusion Medical Specialist (TMS) call Extn 8234 (Tauranga) / 4776 (Whakatane) and request mobile no.

Calcium

- For 10% Calcium Gluconate, give 3 times the mL / kg of 10% Calcium Chloride (CaCl).
- DO NOT give calcium in same IV line at same time as blood components.

Additional Treatment Thresholds

- Ongoing haemorrhage after box 3 - if INR > 1.5 or APTT > 40 seconds consider additional 20 mL / kg FFP.
- If fibrinogen < 1g / L consider additional 5 mL / kg Cryoprecipitate.
- If platelets < 75 consider additional 10 mL / kg platelets.
- If ionised Ca++ < 1 mmol / L give 0.1 mL / kg Calcium chloride.

Tranexamic Acid (TXA)

- Loading dose: 15 mg / kg (max 1 g)
- Consider maintenance infusion: 2 mg / kg / hour

Typical Component Volumes

- Red cells 300 mL
- FFP 260 mL
- Platelets 260 mL
- Cryoprecipitate 100 mL

Massive bleeding with either shock or abnormal coagulopathy

Ensure delivery of crossmatch sample to PathLab.
Tick which stream is being activated.

ALPHA	BRAVO	CHARLIE
Under 10kg <input type="checkbox"/> Activated	10 - 20kg <input type="checkbox"/> Activated	20 - 44kg <input type="checkbox"/> Activated
1 adult RBC 0 neg or type specific Give 15 mL / kg	1 adult RBC O neg or type specific Give 150 mL	Give 1 adult RBC O neg or type specific

MTP Activated

Date:

Time:

By:

Ring PathLab (8234 TGA / 4776 WHK) to activate Paediatric MTP (Alpha, Bravo or Charlie). Request, collect and transfuse as below

MTP Box 1	MTP Box 1	MTP Box 1	Check
1 Adult RBC 1 Adult FFP 1 Cryoprecipitate 1 Platelet Transfuse 10 mL / Kg of each in the following order: • RBC, FFP • RBC, Cryo • 0.15 mL / kg CaCl • RBC, FFP • RBC, Platelet • 0.15 mL / kg CaCl Beware of K+ (Hyperkalemia) Check Potassium load	1 Adult RBC 1 Adult FFP 0.1 mL / kg CaCl	2 Adult RBC 2 Adult FFP 0.1 mL / kg CaCl	Coags, FBC, ABGs, K+ / Ca++
And repeat	MTP Box 2	MTP Box 2	Tranexamic Acid:
	1 Adult RBC 1 Adult FFP 1 Cryoprecipitate 0.1 mL / kg CaCl	2 Adult RBC 1 Adult FFP 2 Cryoprecipitate 0.1 mL / kg CaCl	Consider repeating with alternate boxes
	MTP Box 3	MTP Box 3	Check
1 Adult RBC 1 Adult FFP 1 Adult platelets (150 mL) 0.1 mL / kg CaCl	2 Adult RBC 2 Adult FFP 1 Adult unit platelets 0.1 mL / kg CaCl	Coags, FBC, ABGs, K+ / Ca++	Repeat every 30 minutes
Beware of K+ (Hyperkalaemia) Check Potassium load	Beware of K+ (Hyperkalaemia) Check Potassium load		
Alternate boxes 2 & 3	Alternate boxes 2 & 3		

MTP ceased by name: _____ Date: ____ / ____ / ____ Time: _____ hours

PathLab notified

Unused boxes/components returned to PathLab