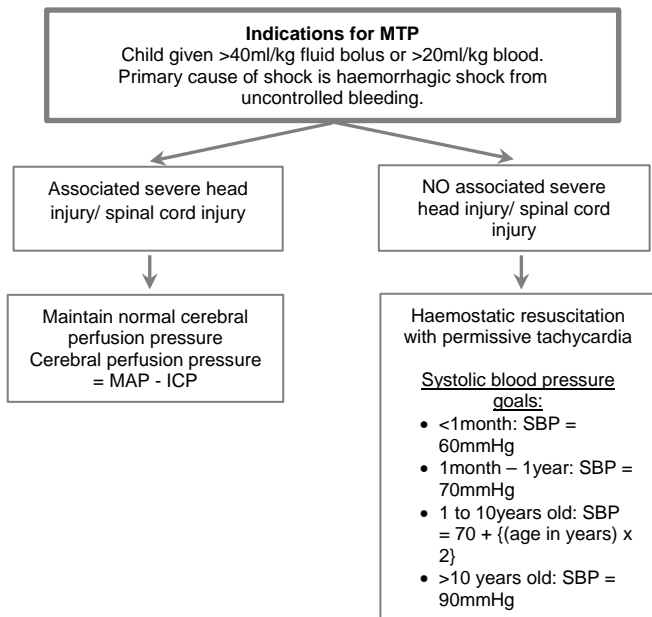


KKH Paediatric Massive Transfusion Protocol (MTP)

Massive transfusion in children is defined as transfusion of >40ml/kg (blood volume in children >1month old is approximately 80ml/kg)

MTP hotline to KKH blood bank: dial extension **8718** (only from CE/ CICU/ OT/ Angio suite).

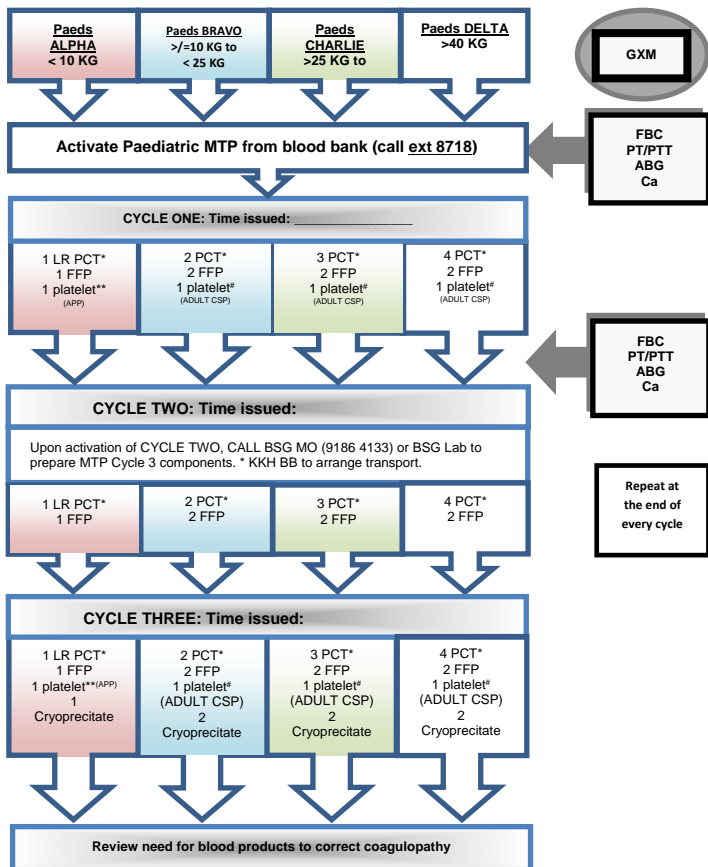
See below for MTP activation chart.



Monitor for:

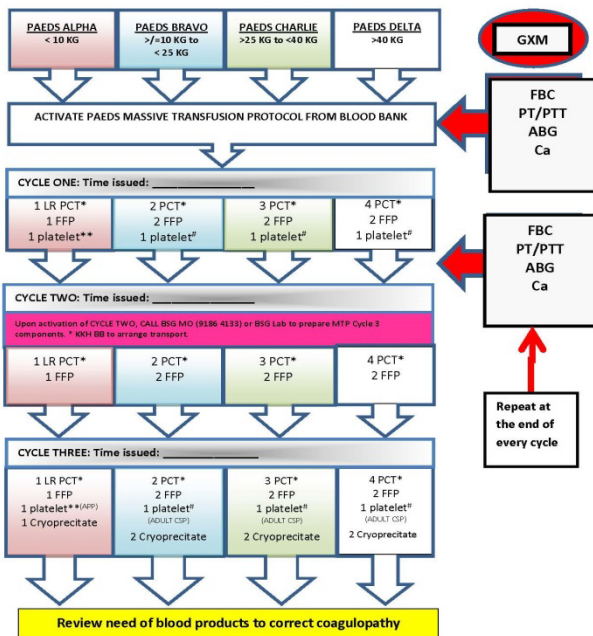
1. Temperature >35 and treat hyperthermia aggressively
2. Treat hypotension aggressively in children with head injury or spinal cord injury
3. Platelets
 - Keep platelets $\geq 50 \times 10^9/L$ if NO significant head injury present
 - Keep platelets $\geq 100 \times 10^9/L$ in presence of significant head injury
4. Blood gases/ electrolytes
 - pH >7.2
 - Base excess < -6
 - Ca $2+ > 1.1\text{mmol/L}$
 - Monitor for hyperkalemia
5. Coagulation profile
 - PT/ aPTT $< 1.5\times$ normal
 - INR ≥ 1.5
6. Fibrinogen $>1\text{g/L}$
7. Lactate $< 3\text{mmol/L}$

PAEDIATRIC ANAESTHESIA



MTP (Paeds) Workflow Sheet (For Blood Bank Use)

Affix Patient's Label	Name of Doctor: _____ Clinical Area: CE / CICU / OT / HD (circle 1) Extension No.: _____
Date & Time of specimen received: _____ Date & Time of activation: _____	Dial 8718 for MTP activation ONLY



For CE/CICU/OT

Affix Patient Label

Paeds MTP Response Time

Date: _____

Time of code activation: _____ h

Name of doctor activating: _____

Diagnosis: _____

Most senior surgeon present: _____/NA

Most senior anaesthetist present: _____/NA

Time at 1st MTP Pack **RECEIVED**:

Time at 1st MTP Pack **ADMINISTRATED**:

PCT _____ h

PCT _____ h

FFP _____ h

FFP _____ h

PLT _____ h

PLT _____ h

Time of code Cessation: _____ h

Name of staff who informed cessation time: _____

Discharge status within 24 hours : Alive / Dead

Discharge status after 24 hours: Alive/ Dead

Wastage of blood product(s) : Yes/ No

Instructions for staff:

1. Send a duplicate copy to Blood Bank attention to MTP in charge via internal mail
2. For CE/CICU, file the original copy in the patient casenotes for trauma coordinator to collect
3. For OT, trauma coordinator to collect the duplicate form from AU NM in charge