

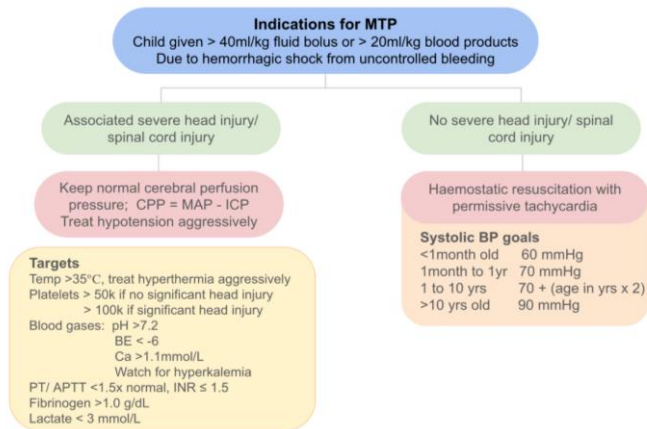
Paediatric Massive Transfusion Protocol (MTP)

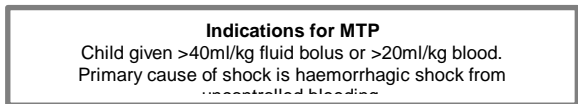
Massive transfusion in children is defined as transfusion of >40 ml/kg (blood volume in children >1 month old is approximately 80 ml/kg)

MTP hotline blood bank: dial extension _____ (check with your own institution)

See below for eg of a MTP activation chart.

Paediatric Massive Transfusion Protocol





Associated severe head injury/ spinal cord injury

Maintain normal cerebral perfusion pressure
Cerebral perfusion pressure
MAP 100

NO associated severe head injury/ spinal cord injury

Haemostatic resuscitation with permissive tachycardia

Systolic blood pressure goals:

<1month: SBP = 60mmHg
1month –
1year: SBP = 70mmHg
1 to 10years
old: SBP = 70 + (1/3 age)

Monitor for:

1. Temperature >38 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 $< 3 \text{ mmol/L}$