

# Paediatric Blunt Traumatic Cardiac Arrest Treatment Pathway

- Gather Information
- Ensure Safety using PPE
- Activate Trauma Team ( Consultant presence)
- Perform calculations based on estimated weight
- Call For Help Early
- Set up To receive Patient and designate Roles
- **CODE RED– Activate MHP**
- Predetermine age / weight specific interventions

Cardiac Arrest/ peri-arrest situation in a Trauma Patient

If non– traumatic cause leave pathway and follow APLS guidelines, and de-escalate team

Simultaneously address reversible causes and perform life saving interventions:

## Hypovolaemia

Control external exsanguinating haemorrhage- apply pelvic binder/splints as necessary

Rapid volume replacement (IV/IO) with blood. ( 10ml/kg Hartmann's if no blood available)

## Hypoxia

Control airway and maximise oxygenation and ventilation.

## Tension Pneumothorax

Bilateral thoracostomies ( formal drain not required)

## Tamponade

BEDSIDE US– Is tamponade present???

De-prioritise  
Chest compressions  
Perform LSI first

SHOCKABLE RHYTHM  
Simultaneously perform  
LSI and Cardioversion

If you are considering a **Resuscitative Thoracotomy for haemorrhage control.**

Do you have the expertise to perform the procedure??

Do you have surgical assistance??

Did you witness the cardiac arrest/loss of vital signs?- **if no do not perform**

Is there evidence of severe head injury? **If yes do not perform**

Do not consider thoracotomy if more than 10 mins post arrest or loss of vital signs

## ROSC Achieved

- Consider Imaging
- Transfer to theatre for Damage Control Surgery if haemorrhage control required
- Arrange ITU transfer (liaise with NECTAR/GNCH early)

## ROSC not Achieved

consider the following to aid decision making re terminating resuscitation.

- Duration of cardiac arrest
- ETCO2 level
- Lack of response to interventions
- Cardiac Standstill on US

# Paediatric Penetrating Traumatic Cardiac Arrest Treatment Pathway

- Gather Information
- Ensure Safety using PPE
- Activate Trauma Team ( Consultant presence)
- Perform calculations based on estimated weight
- Call For Help Early
- Set up To receive Patient and designate Roles
- **CODE RED– Activate MHP**
- Predetermine age / weight specific interventions

Cardiac Arrest/ peri-arrest situation in a Trauma Patient

If non– traumatic cause leave pathway and follow APLS guidelines, and de-escalate team

Simultaneously address reversible causes and perform life saving interventions:

## Hypovolaemia

Control external exsanguinating haemorrhage

Rapid volume replacement (IV/IO) with blood. ( 10ml/kg Hartmann's if no blood available)

## Hypoxia

Control airway and maximise oxygenation and ventilation.

## Tension Pneumothorax

Bilateral thoracostomies ( formal drain not required)

## Tamponade

BEDSIDE US– Is tamponade present???

De-prioritise  
Chest compressions  
Perform LSI first

SHOCKABLE RHYTHM  
Perform LSI first. De-  
prioritise cardioversion

If you are considering a **Resuscitative Thoracotomy.**

Is there evidence of severe head injury? **If yes do not perform**

Do not consider thoracotomy if more than 15 mins post arrest or loss of vital signs.

## ROSC Achieved

- Consider Imaging
- Transfer to theatre for Damage Control Surgery if haemorrhage control required
- Arrange ITU transfer (liaise with NECTAR/GNCH early)

## ROSC not Achieved

consider the following to aid decision making re terminating resuscitation.

- Duration of cardiac arrest
- ETCO2 level
- Lack of response to interventions
- Cardiac Standstill on US