

## Information for facilitators

This teaching session is designed to be delivered by the roadside to a small group. It generally runs for 20 minutes followed by a debrief of approximately 20-25 minutes (40-45 mins total).

## Aim

The aims for this session is to provide management of chest penetrating trauma and the management of traumatic cardiac arrest in this context.

## What you will need

There are THREE components to this session:

Page 2 contains **background information** that can be read to the group and an expected sim progression.

Page 3 contains **details of the scenario** with expected progression for the sim technician.

Page 4 contains the **checklist for facilitators** to fill out during the scenario and a list of equipment required.

## Introduction

*“You are responding to a Category 1 call of a individual who has been stabbed.*

*Police are on scene and report the attacker is under arrest.”*

## Expected Progression

- To provide rapid assessment and packaging.
- Recognise peri-arrest state and requirement for resuscitative thoracotomy.
- Perform a simulated prehospital resuscitative thoracotomy.

<b>Case title</b>	Chest stabbing			<b>Sim no.</b>	PRU 9
<b>Setting</b>	Street	<b>Patient age</b>	17	<b>Patient sex</b>	M
<b>Diagnosis</b>	Right ventricle single stab wound and cardiac tamponade			<b>Curriculum code</b>	
<b>Injuries</b>	<ul style="list-style-type: none"> <li>• Single stab wound to the left side of the sternum at the 4th ICS</li> <li>• Cardiac Tamponade leading to TCA</li> </ul>				
<b>Staff required</b>	1 x PRU Paramedic, 1 x PRU Doctor, 2 x Ambulance staff, Police				
<b>Learning objectives</b>	<ol style="list-style-type: none"> <li>1. To gain familiarity with dynamic risk assessments</li> <li>2. Understand the need for RAPID transfer to hospital</li> <li>3. Recognise indication and perform a resuscitative thoracotomy</li> </ol>				

## INITIAL SETUP

<b>Observations</b>				<b>Arrival route</b>	N/A
<b>HR</b>	160	<b>GCS</b>	E 4 V 3 M 5 = 12/15	<b>Carers?</b>	None
<b>RR</b>	38			<b>Visible external findings:</b> Single stab wound to the left of the sternum.  <b>Progression:</b> Will quickly deteriorate over the first 5 minutes during packaging to TCA.	
<b>SpO2</b>	93%	<b>Pupils</b>	4mm		
<b>BP</b>	79/55	<b>Temp</b>	36.7°C		
<b>CRT</b>	>5 secs	<b>Weight</b>	70 kg		
<b>Glucose</b>	6.1				
<b>Equipment on arrival</b>	Standard response bags	<b>Additional info</b>		Adult mannequin. Thoracotomy trainer.	

DOMAIN	TASK	TIME	DONE
Preparation	Role allocations		
	Disposition discussions		
Initial Actions	Scene safety		
	Information gathering		
	Introductions to individuals on scene		
	Early update to control		
Assessment	A-E assessment		
	Monitoring applied		
	O2 applied		
Interventions	Dressing to wound		
	IV access		
	Fluid bolus		
	Intubation		
	Thoracostomy		
	Tranexamic Acid (TXA)		
	Thoracotomy		
	Sedation/Paralysis/IV Abx		
Decision-Making	Decision on appropriate physiological targets		
	Plan for rapid transfer		
	Destination for thoracotomy		