

Clinical Skills Development Service

Advanced Life Support

Scenario Pack

CSDS

**Metro North
Health**



**Queensland
Government**



Clinical Skills Development Service and Metro North Health acknowledges the Traditional Custodians of the Land upon which we live, work and walk, and pay our respects to Elders both past and present.

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Contents

Sharon Jones – VF then PEA – Ward	4
Julie McPherson – PEA – Surgical Ward	9
Marion Jones – VF then Asystole – Medical Ward.....	15
Meredith Rivera – PEA – Surgical Ward.....	21
Bob Brown – VT/VF – Emergency Department	27
Harold Foot – VT/VF – Surgical Ward	35
Barry Goodman – PEA (Contrast Reaction) – Radiology	41
Edward Chubb – VF (Hyperkalaemia) – Emergency Department	47
Brent Fletcher – VF (Heroin Overdose/STEMI) – Emergency Department	53
Eugene Pennington – VF (Irukandji Sting) – Emergency Department.....	59
Colin Mackeral – VT/VF (Marine Envenomation) – Emergency Department	66
Harry Hardy – PEA (Trauma: Tension Pneumo/Hypovolaemia) – Emergency Department.....	73
Ted Bundaberg – PEA (Chest Stabbing) – Emergency Department	80
Phil Hardiman – PEA (Blunt Trauma: Tension & Surgical Abdomen) – Emergency Department	85

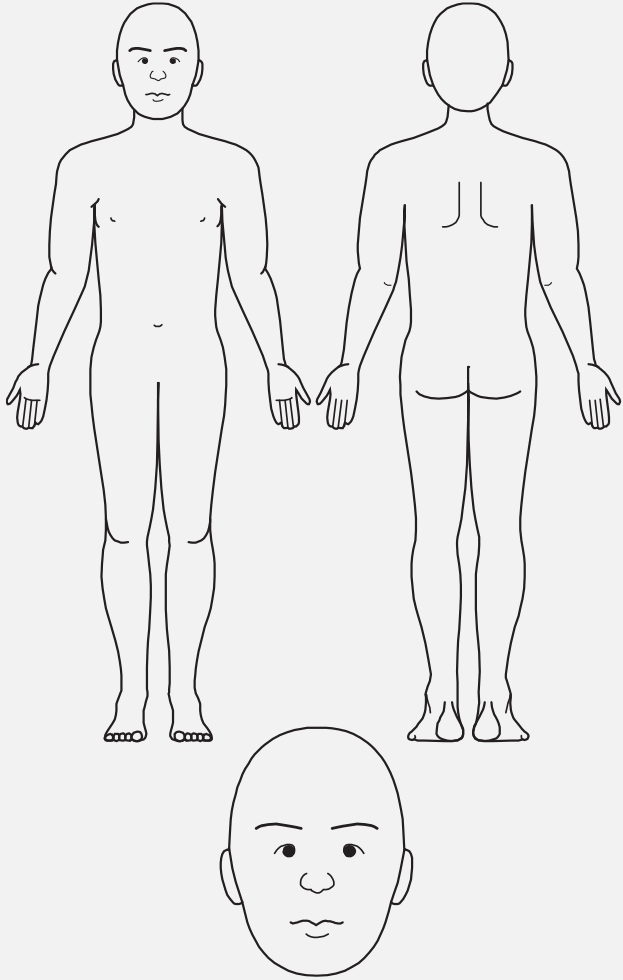
Sharon Jones – VF then PEA – Ward

TYPE OF SIMULATION	Immersive
TARGET AUDIENCE	<ul style="list-style-type: none"> • Medical staff • Nursing staff • Allied health staff
SCENARIO OVERVIEW	31 year old female, 20 weeks pregnant (G3P2) admitted to ward with left lower leg DVT. On return to the ward, following a cigarette, she complains of chest pain and collapses onto the bed. Patient's initial rhythm is a shockable rhythm, however, goes into a non-shockable rhythm after the 1 st shock. Patient does not recover.
LEARNING OUTCOMES	<p>By the end of the scenario the learners should:</p> <ul style="list-style-type: none"> • Follow the ANZCOR ALS algorithm utilising the principles of crisis resource management • Discuss consideration of administration of fibrinolytic therapy or Surgical embolectomy and percutaneous mechanical thrombectomy
APPROXIMATE RUN TIME	30 mins including debrief

SET UP AND RESOURCES REQUIREMENTS

HUMAN RESOURCES	
FACULTY	1 x faculty to operate manikin and debrief
SIMULATION COORDINATORS	1 x to play confederate role
CONFEDERATES	Junior nurse
OTHER	

PHYSICAL RESOURCES	
ROOM SET UP	Ward
SIMULATOR/S	ALS Advanced
SIMULATOR/S SET UP	Manikin with female wig, in hospital gown, lying on a bed. TEDS stockings applied to both legs.
CLINICAL EQUIPMENT	Emergency trolley with defibrillator
ACCESS	2 x IV access: <ul style="list-style-type: none"> • 1 x IVC insitu • 1 with no IV stickers applied
ADDITIONAL PROPS	TEDS stockings Nicotine patch
OTHER	

INJURIES / MOULAGE	
LIMBS Nicotine patch right arm	
TORSO Prosthetic belly to simulate 20/40	
LIMBS TEDS on bed as removed by patient	

HANDOVER CARD / PATIENT DETAILS	
NAME: Sharon Jones	AGE / SEX / WEIGHT: Age: 31 Sex: female Weight: 90 kg
ALLERGIES: Penicillin	MEDICATIONS: Nicotine Patch
MEDICAL / SURGICAL HISTORY: 20/40 G3P2 Post-natal depression Asthma (ICU admissions for asthma) Known heavy smoker.	SOCIAL HISTORY / EMPLOYMENT: Accountant

START – 3 MINS	STATE ONE					
	Commencement of resuscitation					
	VITAL SIGNS		SCRIPT		DETAILS	EXPECTED ACTIONS
	ECG	VF	Handover	I saw Sharon coming back from a cigarette, I told her earlier on that she wasn't allowed to go, but she didn't listen. She looked pale and short of breath. I just had to quickly finish what I was doing and by the time I got here she wasn't breathing.	Provide further history only if asked. <u>Trending</u> After 1 st defibrillation move to state 2	<div><input type="checkbox"/> Commence BLS algorithm</div> <div><input type="checkbox"/> Remove nicotine patch</div> <div><input type="checkbox"/> Commence ALS algorithm</div> <div><input type="checkbox"/> Attach defibrillator and assess rhythm immediately with minimal interruptions to CPR</div> <div><input type="checkbox"/> Safely defibrillate and recommence CPR for 2 minutes</div> <div><input type="checkbox"/> Call for help</div>
	HR	Nil				
	SPO ₂	Nil				
	BP/ART	Nil				
	RR	0				
	TEMP	36.0	Further history	Another patient said she was complaining of chest pain.		
	CO ₂	5				
	BSL	3.8				
	GCS	3/15				
E, V, M	1, 1, 1					
Other						

STATE TWO						
Consider reversible causes						
3 MINS – 15 MINS	VITAL SIGNS		SCRIPT		DETAILS	EXPECTED ACTIONS
	ECG	Asystole				<input type="checkbox"/> Continue to follow the ALS algorithm <input type="checkbox"/> Discuss reversible causes <input type="checkbox"/> Consider definitive treatment as appropriate – administration of fibrinolytic therapy or surgical embolectomy and percutaneous mechanical thrombectomy <input type="checkbox"/> Demonstrate CRM principles
	HR	Nil				
	SPO ₂	Nil				
	BP/ART	Nil				
	RR	0				
	CVP	N/A				
	TEMP	35.8				
	CO ₂	5				
	BSL	3.8				
	GCS <i>E, V, M</i>	3/15				
	Other					

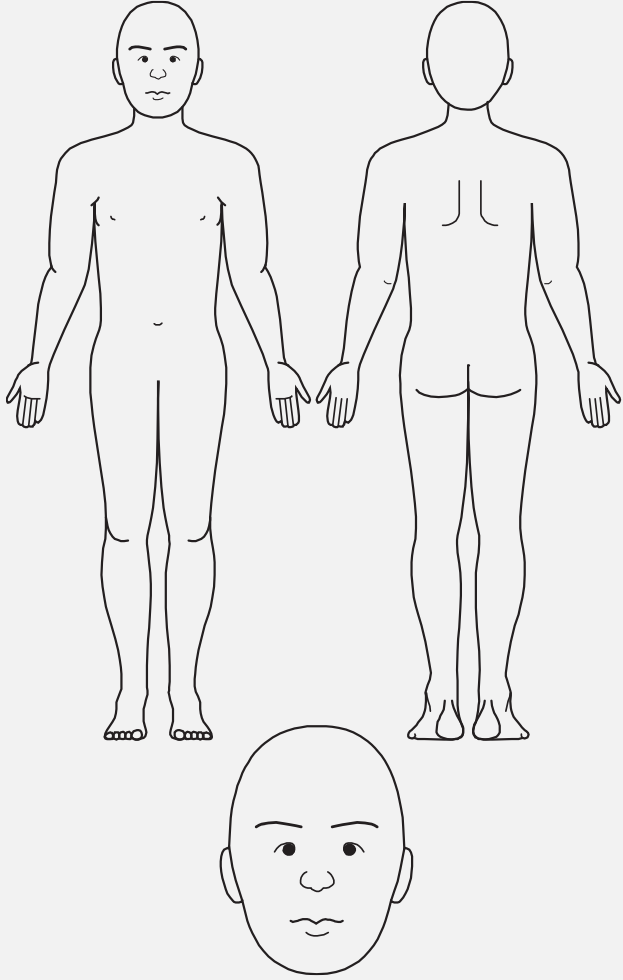
Julie McPherson – PEA – Surgical Ward

TYPE OF SIMULATION	Immersive
TARGET AUDIENCE	<ul style="list-style-type: none">• Medical staff• Nursing staff• Allied health staff
SCENARIO OVERVIEW	79 year old woman in a surgical ward is found unresponsive in bed. Patient has a 2 day history of abdominal pain and is awaiting an ultrasound/CT scan. Monitoring reveals that the patient has Pulseless Electrical Activity (PEA). Patient progresses quickly into asystole and CPR continues. Possible causes are investigated, and it is observed that the patient's abdomen is distended, probably with a catastrophic bleed. The patient does not recover.
LEARNING OUTCOMES	By the end of the scenario the learners should: <ul style="list-style-type: none">• Demonstrate principles of ARC ALS algorithm – non-shockable• Demonstrate principles of crisis resource management
APPROXIMATE RUN TIME	10 minute scenario and 15 minutes to debrief

SET UP AND RESOURCES REQUIREMENTS

HUMAN RESOURCES	
FACULTY	Participants on SPC to be lead debriefer and co-debriefer
SIMULATION COORDINATORS	Manikin Control Voice of patient
CONFEDERATES	Junior nurse
OTHER	

PHYSICAL RESOURCES	
ROOM SET UP	<ul style="list-style-type: none"> Surgical Ward Patient on bed
SIMULATOR/S	ALS Advanced
SIMULATOR/S SET UP	Patient in patient gown
CLINICAL EQUIPMENT	<ul style="list-style-type: none"> Clinical equipment/ consumables found on a ward setting Emergency trolley with defibrillator
ACCESS	2 x IV access, 1 with no IV sticker insitu 1 x IV fluid running
ADDITIONAL PROPS	
OTHER	

INJURIES / MOULAGE	
HEAD / FACE Wig	
TORSO Abdomen distended	

HANDOVER CARD / PATIENT DETAILS	
NAME: Julie McPherson	AGE / SEX / WEIGHT: Age: 79 Sex: Female Weight: 65 kg
ALLERGIES: KNDA	MEDICATIONS: Nil
MEDICAL / SURGICAL HISTORY: Two (2) day history of abdominal pain Recently admitted to surgical ward, awaiting ultrasound/CT scan	SOCIAL HISTORY / EMPLOYMENT: Retired accountant. Lives with husband.

STATE ONE						
Alert participants to collapsed patient						
START - 2 MINS	VITAL SIGNS		SCRIPT		DETAILS	EXPECTED ACTIONS
	ECG	Sinus Tachy	Handover	This is Julie, a 79 year old lady who presented two (2) days ago with abdominal pain. She was fasting awaiting an ultrasound, is now unresponsive in bed.	Patient remains in a PEA rhythm	<input type="checkbox"/> Assess patient <input type="checkbox"/> Commencement of BLS algorithm <input type="checkbox"/> Attach defibrillator <input type="checkbox"/> Assessment of arrhythmia <input type="checkbox"/> Identification of non-shockable rhythm and disarms defibrillator <input type="checkbox"/> Continues CPR <input type="checkbox"/> Use of CRM principles
	HR	140				
	SPO ₂	Not readable				
	BP/ART	Not readable				
	RR	0				
	CVP	N/A				
	TEMP	36.0				
	CO ₂	N/A				
	BSL	3.8				
	GCS V, M, E	3				
	Other					

STATE TWO						
Commencement of ALS algorithm						
2 MINS – 5 MINS	VITAL SIGNS		SCRIPT		DETAILS	EXPECTED ACTIONS
	ECG	Sinus Tachy	Faculty	Respond as appropriate to questions from participants regarding 4H and 4T	<ul style="list-style-type: none"> Towards end of state faculty to prompt: <ul style="list-style-type: none"> The patient's abdomen is becoming distended Last bloods normal except Hb 95 	<input type="checkbox"/> Continues the ALS algorithm – non-shockable side <input type="checkbox"/> Administer 1 mg Adrenaline <input type="checkbox"/> Consider 4 H's and 4 T's <input type="checkbox"/> Use of CRM principles <input type="checkbox"/> Call for help
	HR	140				
	SPO ₂	Not readable				
	BP/ART	Not readable				
	RR	0				
	CVP	N/A				
	TEMP	36.0				
	CO ₂	N/A				
	BSL	3.8				
	GCS <i>V, M, E</i>	3				
	Other					

5 MINS – 10 MINS	STATE THREE						
	Patient goes into asystole						
	VITAL SIGNS		SCRIPT		DETAILS	EXPECTED ACTIONS	
	ECG	Asystole	Faculty	Respond as appropriate to questions from participants regarding 4H and 4T		<div><input type="checkbox"/> Continue CPR algorithms</div> <div><input type="checkbox"/> Team review of management of reversible causes</div> <div><input type="checkbox"/> Review of the treatment in light of probable catastrophic abdominal bleed</div>	
	HR	0					
	SPO ₂	Not readable					
	BP/ART	Not readable					
	RR	0					
	CVP	N/A					
	TEMP	36.0					
	CO ₂	5					
	BSL	4.0 mmol					
	GCS V, M, E	3					

Marion Jones – VF then Asystole – Medical Ward

TYPE OF SIMULATION	Immersive
TARGET AUDIENCE	<ul style="list-style-type: none">• Medical staff• Nursing staff• Allied health staff
SCENARIO OVERVIEW	<p>Patient lying on the bed unconscious. A 3 day history of vomiting and diarrhoea. Patient will present with VF. GTN patch insitu which needs to be removed prior to defibrillation. After first shock the patient's rhythm will be asystole. The defibrillator will be charged in readiness of delivery of shock but on analysis will need to be disarmed. Patient does not recover.</p>
LEARNING OBJECTIVES	<ul style="list-style-type: none">• By the end of the scenario the learners should:• Demonstrate principles of ARC ALS algorithm – non-shockable• Demonstrate principles of crisis resource management
APPROXIMATE RUN TIME	30 minutes including debrief

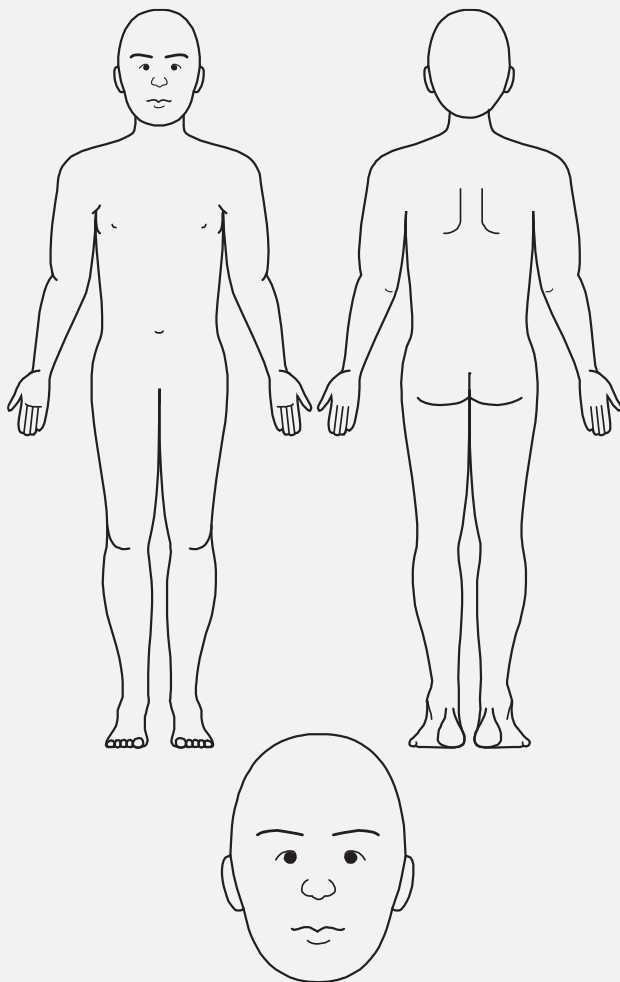
SET UP AND RESOURCES REQUIREMENTS

HUMAN RESOURCES	
FACULTY	1 x Facilitator for manikin control and debrief
SIMULATION COORDINATORS	1 – control room
CONFEDERATES	1 x junior nurse
OTHER	

PHYSICAL RESOURCES	
ROOM SET UP	Medical ward
SIMULATOR/S	ALS Advanced
SIMULATOR/S SET UP	Patient in gown GTN patch insitu
CLINICAL EQUIPMENT	Emergency trolley with defibrillator
ACCESS	1 x IV access insitu with fluids running
ADDITIONAL PROPS	
OTHER	

INJURIES / MOULAGE

**RIGHT UPPER CHEST
– GTN PATCH**



HANDOVER CARD / PATIENT DETAILS

NAME:

Marion Jones

AGE / SEX / WEIGHT:

Age: 83

Sex: Female

Weight: 65kg

ALLERGIES:

NKDA

MEDICATIONS:

GTN patch

Atenolol

Perindopril

MEDICAL / SURGICAL HISTORY:

3/7 hx of vomiting and diarrhoea

Admitted for re-hydration.

Angina

HTN

SOCIAL HISTORY / EMPLOYMENT:

Retired teacher

STATE ONE

Alert participants to collapsed patient

VITAL SIGNS		SCRIPT		DETAILS	EXPECTED ACTIONS
ECG	VF	Handover	Marion lying on the bed unconscious. 3/7 hx of vomiting and diarrhoea. Admitted for rehydration.	<ul style="list-style-type: none"> • Patient lying on the bed in VF • Patient will go into asystole after first shock 	<input type="checkbox"/> Assess patient <input type="checkbox"/> Commence BLS <input type="checkbox"/> Attach Defib <input type="checkbox"/> Assessment arrhythmia <input type="checkbox"/> Identification of shockable rhythm and deliver shock <input type="checkbox"/> Continue CPR <input type="checkbox"/> Use CRM principles
HR	Unreadable				
SPO ₂	Unreadable				
BP/ART	Unreadable				
RR					
CVP					
TEMP	35.8				
CO ₂					
BSL	3.8				
GCS V, M, E	3				

STATE TWO

Identification of non-shockable rhythm

VITAL SIGNS		SCRIPT		DETAILS	EXPECTED ACTIONS
ECG	Asystole			<ul style="list-style-type: none"> Patient remains in asystole 	<input type="checkbox"/> Continues the ALS algorithm <input type="checkbox"/> Identification of non-shockable rhythm <input type="checkbox"/> Administer 1mg adrenaline <input type="checkbox"/> Use CRM principles <input type="checkbox"/> Continue CPR
HR					
SPO ₂	Unreadable				
BP/ART					
RR	nil				
CVP					
TEMP	35.8				
CO ₂	60				
BSL	3.8				
GCS <i>V, M, E</i>	3				
Other					

15 MINS – 20 MINS

STATE THREE					
Discussion of reversible causes.					
VITAL SIGNS		SCRIPT		DETAILS	EXPECTED ACTIONS
ECG	Asystole			Blood results: <ul style="list-style-type: none">K+ 2.0 mmol/L (3.5 – 5.0 mmol/L)Na 160 (135 – 145mEq/L)Other results pending.	<div><input type="checkbox"/> Continue ALS algorithm.</div> <div><input type="checkbox"/> Team review management of reversible causes</div> <div><input type="checkbox"/> Administer potassium</div> <div><input type="checkbox"/> Continue CPR</div>
HR					
SPO ₂	Unreadable				
BP/ART					
RR	nil				
CVP					
TEMP	35.8				
CO ₂	60				
BSL	3.8				
GCS <i>V, M, E</i>	3				
Other					

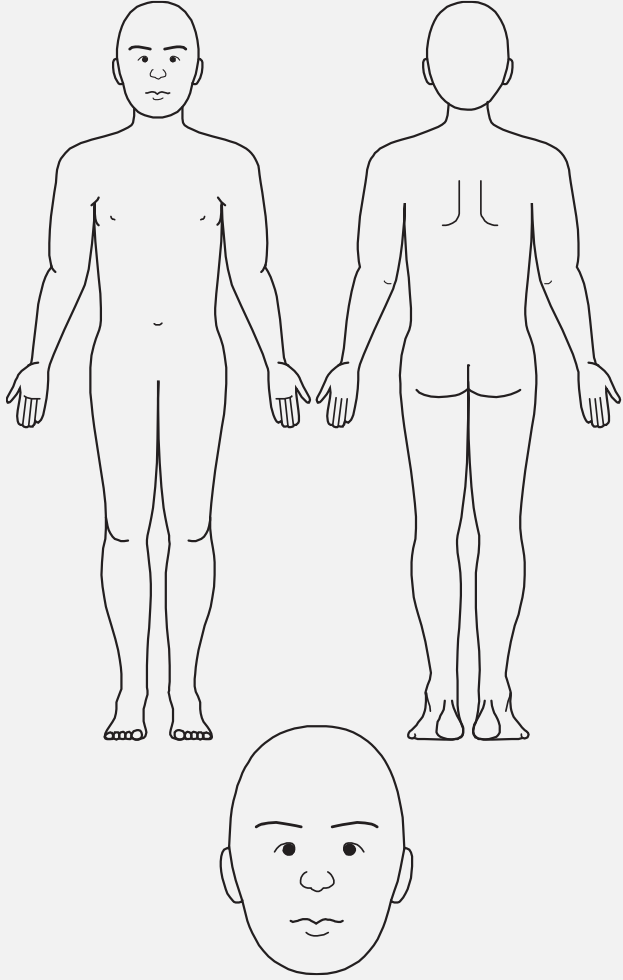
Meredith Rivera – PEA – Surgical Ward

TYPE OF SIMULATION	Immersive
TARGET AUDIENCE	ALS Patients
SCENARIO OVERVIEW	79-year-old woman in a surgical ward is found unresponsive in bed. Patient has a 2-day history of abdominal pain and is awaiting an ultrasound. Monitoring reveals that the patient has Pulseless Electrical Activity (PEA). Patient progresses quickly into asystole and CPR continues. Possible causes are investigated, and it is observed that the patient's abdomen is distended, probably with a catastrophic bleed, from which the patient does not recover
LEARNING OBJECTIVES	Learning outcome: Demonstrate principles of ARC ALS algorithm – non-shockable Demonstrate principles of crisis resource management
APPROXIMATE RUN TIME	30 mins including debrief

SET UP AND RESOURCES REQUIREMENTS

HUMAN RESOURCES	
FACULTY	2 x Faculty Assessing
SIMULATION COORDINATORS	Manikin Control
CONFEDERATES	
OTHER	

PHYSICAL RESOURCES	
ROOM SET UP	Surgical Ward
SIMULATOR/S	ALS Advanced
SIMULATOR/S SET UP	Patient in patient gown
CLINICAL EQUIPMENT	Emergency trolley with defibrillator Patient chart
ACCESS	PT has 20g cannula insitu with fluid running
ADDITIONAL PROPS	

INJURIES / MOULAGE	
Nil	

HANDOVER CARD / PATIENT DETAILS	
NAME: Meredith Rivera	AGE / SEX / WEIGHT: Age: 79 Sex: F Weight: 65 kg
ALLERGIES: NKDA	MEDICATIONS: Nil
MEDICAL / SURGICAL HISTORY: Presented two (2) days ago with abdominal pain. No surgical history	SOCIAL HISTORY / EMPLOYMENT: Retired accountant. Lives with husband.

STATE ONE						
Initial state						
START - 2 MINS	VITAL SIGNS		SCRIPT		DETAILS	EXPECTED ACTIONS
	ECG	Sinus Tachy		Handover: This is Meredith Rivera, a 79-year-old lady who presented two (2) days ago with abdominal pain. She was fasting awaiting an ultrasound, is now unresponsive in bed.		<input type="checkbox"/> Team assembly and role allocation <input type="checkbox"/> CPR continued <input type="checkbox"/> Attach defibrillator and rhythm check as soon as possible. Narrow complex tachycardia. No pulse. <input type="checkbox"/> Continue CPR
	HR	140				
	SPO ₂	Not readable				
	BP/ART	Not readable				
	RR	0				
	CVP					
	TEMP					
	CO ₂					
	BSL					
	GCS	3				
	V, M, E	1, 1, 1				
	Other					

STATE TWO

Patient in PEA

2 MINS – 6 MINS

VITAL SIGNS		SCRIPT	DETAILS	EXPECTED ACTIONS
ECG	Sinus Tachy	Faculty respond as appropriate to questions from participants regarding 4H and 4T. Towards end of state faculty prompt: <i>The patient's abdomen is becoming distended</i> Last bloods normal except Hb 95	<ul style="list-style-type: none"> Last lot of bloods OK, except Hb was 95 Patient's condition deteriorates at the end of state into asystole 	<ul style="list-style-type: none"> <input type="checkbox"/> Continue CPR (Non-shockable algorithm) <input type="checkbox"/> Give Adrenaline 1mg immediately and repeat every 3-5 minutes <input type="checkbox"/> Consider intubation when appropriate <input type="checkbox"/> IV fluid loading <input type="checkbox"/> Charge defibrillator, assess rhythm (may check for pulse) disarm defibrillator <input type="checkbox"/> Team consideration of reversible causes of PEA arrest and treatment <input type="checkbox"/> H – Hypovolaemia/blood loss D fluid loading <input type="checkbox"/> H – Hypoxia D ventilation with 100% oxygen <input type="checkbox"/> H – Hyper/hypokalaemia D bloods, chart review <input type="checkbox"/> H – Hyper/hypothermia D unlikely <input type="checkbox"/> T – Tension pneumothorax (Assess for evidence clinically. Consider needle decompression.) <input type="checkbox"/> T – Thrombosis (PE/cardiac. Continue CPR. No role for thrombolysis.) <input type="checkbox"/> T – Toxins (Clinically unlikely. Empiric treatment not indicated. ECG is narrow complex, rather than broad complex, suggesting toxic cause.) <input type="checkbox"/> T – Tamponade (Clinically unlikely.) <input type="checkbox"/> Pericardiocentesis may be considered but unlikely of benefit
HR	140			
SPO ₂	No reading			
BP/ART	0/0			
RR	0			
CVP				
TEMP				
CO ₂				
BSL				
GCS V, M, E	3 1, 1, 1			
Other				

STATE THREE				
6 MINS – 10 MINS	Patient goes into asystole			
	VITAL SIGNS		SCRIPT	EXPECTED ACTIONS
	ECG	Asystole	Faculty respond as appropriate to questions from participants	<input type="checkbox"/> Continue CPR algorithms <input type="checkbox"/> Team review of management of reversible causes <input type="checkbox"/> Review of the treatment in light of probable catastrophic abdominal bleed
	HR	0		
	SPO ₂	Not readable		
	BP/ART	Not readable		
	RR	0		
	CVP			
	TEMP			
	CO ₂			
	BSL			
	GCS	3		
	V, M, E	1, 1, 1		

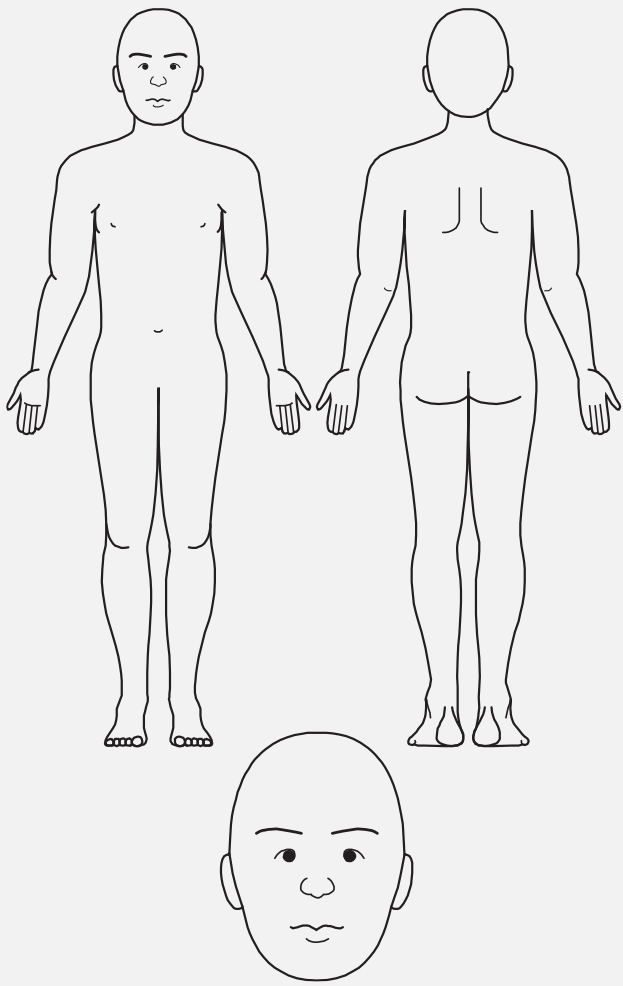
Bob Brown – VT/VF – Emergency Department

TYPE OF SIMULATION	Immersive
TARGET AUDIENCE	<ul style="list-style-type: none">• Medical staff• Nursing staff• Allied health staff
SCENARIO OVERVIEW	Bob Brown, 57, a landscape gardener presents with chest pain. Patient is to be found collapsed on the ground with a laceration to head. Patient develops VT without a pulse. Re-verts to VF following first defibrillation. Reverts to SR following third defibrillation and administration of Adrenaline and Amiodarone. Discussion of differential diagnosis. Post ROSC ECG shows – extensive anterior STEMI (acute).
LEARNING OBJECTIVES	<ul style="list-style-type: none">• Demonstrate principles of ARC ALS algorithm – shockable• Demonstrate principles of crisis resource management
APPROXIMATE RUN TIME	10 minute scenario and 15 minutes to debrief

SET UP AND RESOURCES REQUIREMENTS

HUMAN RESOURCES	
FACULTY	Participants on SPC to be lead debriefer and co-debriefer
SIMULATION COORDINATORS	Manikin Control Voice of patient
CONFEDERATES	Nurse to handover
OTHER	

PHYSICAL RESOURCES	
ROOM SET UP	Emergency department Patient on bed
SIMULATOR/S	ALS Advanced
SIMULATOR/S SET UP	Patient on monitor
CLINICAL EQUIPMENT	Cardiac Monitoring Emergency trolley with defibrillator
ACCESS	No IV access
ADDITIONAL PROPS	12 lead ECG post arrest
OTHER	

INJURIES / MOULAGE	
AD / FACE Wig Laceration to forehead	
TORSO	
LIMBS Abrasions to hands	

HANDOVER CARD / PATIENT DETAILS	
NAME: Bob Brown	AGE / SEX / WEIGHT: Age: 57 Sex: Male Weight: 70kg
ALLERGIES: NKDA	MEDICATIONS: Nil regular
MEDICAL / SURGICAL HISTORY: Nil	SOCIAL HISTORY / EMPLOYMENT: Landscape gardener Smokes 25 cigarettes a day Lives at home with wife

STATE ONE						
Initial handover and assessment						
START - 2 MINS	VITAL SIGNS		SCRIPT		DETAILS	EXPECTED ACTIONS
	ECG	VT	Triage nurse handover	Bob Brown, 57 year old landscape gardener, driven to hospital by co-worker who found him collapsed on the ground. His is complaining of severe, central chest pain, radiating to left his shoulder, present for 1 hour. No past medical history of note. No allergies. Smoker 25 a day. I've changed him in a gown. I've got to get back to triage.	<ul style="list-style-type: none"> • Patient lying on ground conscious, pale and clammy. • Looks like patient has tried to stand and fallen over • On arrival of team patient develops pulseless VT 	<input type="checkbox"/> Receive handover <input type="checkbox"/> Perform assessment/observations <input type="checkbox"/> Identify a crisis situation <input type="checkbox"/> Call for help <input type="checkbox"/> Clear space to allow for personnel to help.
	HR	200				
	SPO ₂	97%				
	BP/ART	85/45				
	RR	12				
	CVP	N/A				
	TEMP	36.8	Patient	I feel dizzy. I have a chest pain.		
	CO ₂	35				
	BSL	4.0				
	GCS <i>E, V, M</i>	15/15				
	Other					

STATE TWO					
Commencement of pulseless VT					
2 MINS – MINS	VITAL SIGNS		SCRIPT		EXPECTED ACTIONS
	ECG	VT			<ul style="list-style-type: none"> □ Allocate roles □ Commencement of CPR □ Attach defibrillator □ Assessment of arrhythmia □ Defibrillate at 200 joules □ Continue CPR for 2 minutes □ Use of CRM principles
	HR	200			
	SPO ₂	Unreadable			
	BP/ART	Nil			
	RR	Nil			
	CVP	N/A			
	TEMP	36.8			
	CO ₂	20			
	BSL	4.0			
	GCS <i>V, M, E</i>	3			
	Other				

STATE THREE

ALS algorithm continues

VITAL SIGNS		SCRIPT		DETAILS	EXPECTED ACTIONS
ECG	VF			<ul style="list-style-type: none"> Patient remains in VF after second shock 	<input type="checkbox"/> Continues to follow the ALS algorithm <input type="checkbox"/> Perform ECC <input type="checkbox"/> Obtain IV access <input type="checkbox"/> Administer 1mg Adrenaline <input type="checkbox"/> Use of CRM principles
HR	Nil				
SPO ₂	Unreadable				
BP/ART	Nil				
RR	0				
CVP	N/A				
TEMP	36.8				
CO ₂	20				
BSL	4.0				
GCS V, M, E	3				
Other					

15 MINS – 20 MINS	STATE FOUR						
	Discussion of reversible causes.						
	VITAL SIGNS		SCRIPT		DETAILS	EXPECTED ACTIONS	
	ECG	SR			After third shock and administration of amiodarone, patient returns to SR.	<input type="checkbox"/> Continue ALS algorithm <input type="checkbox"/> Discuss reversible causes <ul style="list-style-type: none"> <input type="checkbox"/> Hypovolaemia <input type="checkbox"/> Toxins <input type="checkbox"/> Thrombosis <input type="checkbox"/> Administer 300mg IV Adrenaline after third shock	
	HR	67					
	SPO ₂	93%					
	BP/ART	94 / 46					
	RR	8					
	CVP						
	TEMP	36.0					
	CO ₂	30					
	BSL	4.0 mmol					
	GCS <i>V, M, E</i>	9 / 15					
	Other						

STATE FIVE

Return of spontaneous circulation.

		SCRIPT		DETAILS	EXPECTED ACTIONS
ECG	SR	Patient	Moans	<ul style="list-style-type: none">Patient will revert to Sinus rhythm after the second shock and 30 seconds of CPR.	<input type="checkbox"/> ECG post ROSC
HR	65				
SPO ₂	96%				
BP/ART	100 / 60				
RR	12				
CVP					
TEMP	36.0				
CO ₂					
BSL					
GCS V, M, E	15 / 15				

Harold Foot – VT/VF – Surgical Ward

TYPE OF SIMULATION	Immersive
TARGET AUDIENCE	Medical, Nursing, Allied Health
SCENARIO OVERVIEW	Harold is one day post knee replacement. He is found unconscious with no cardiac output. He presents with pulseless ventricular Tachycardia (VT). Following the first defibrillation patient will go into ventricular fibrillation (VF). Patient will revert to a sinus rhythm and get ROSC after the second shock and administration of adrenaline. Diagnosis: Pulmonary embolus resulting in a cardiac arrest.
LEARNING OBJECTIVES	<p>By the end of the scenario the learner should:</p> <ul style="list-style-type: none">• Demonstrate the application of ALS algorithm – shockable• Demonstrate principles of crisis resource management
APPROXIMATE RUN TIME	30 mins including debrief

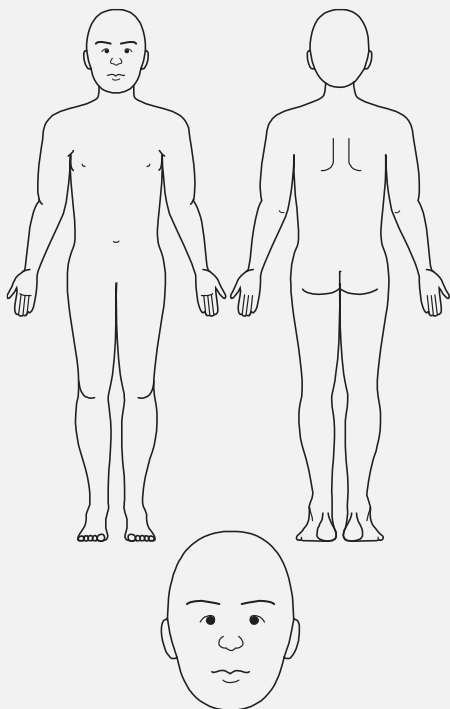
SET UP AND RESOURCES REQUIREMENTS

HUMAN RESOURCES	
FACULTY	1 x Facilitator
SIMULATION COORDINATORS	Manikin Control
CONFEDERATES	Junior Nurse
OTHER	

PHYSICAL RESOURCES	
ROOM SET UP	Surgical Ward
SIMULATOR/S	ALS Advanced
SIMULATOR/S SET UP	Right knee bandaged, patient in hospital gown. Patient sweaty, spray face and torso with water.
CLINICAL EQUIPMENT	Emergency trolley with defibrillator Patient chart
ACCESS	1 x 20g cannula with fluids running 1 x IV setup with no IV sticker applied
ADDITIONAL PROPS	

INJURIES / MOULAGE

**Left Knee bandaged
with wound drain.
Minimal output <50mL**



HANDOVER CARD / PATIENT DETAILS

NAME:

Harold Foot

AGE / SEX / WEIGHT:

Age: 64

Sex: M

Weight: 65 kg

ALLERGIES:

NKDA

MEDICATIONS:

Nil

MEDICAL / SURGICAL HISTORY:

1 day post knee replacement

SOCIAL HISTORY / EMPLOYMENT:

Taxi driver

STATE ONE					
START - 2 MINS	Initial state				
	VITAL SIGNS		SCRIPT		EXPECTED ACTIONS
	ECG	VT		<p>Patient lying on bed.</p> <p>Patient will go into VF after first shock</p>	<input type="checkbox"/> Assess patient <input type="checkbox"/> Commencement of BLS algorithm <input type="checkbox"/> Attach defibrillator <input type="checkbox"/> Assessment of arrhythmia <input type="checkbox"/> Defibrillate at 200j <input type="checkbox"/> Continue CPR <input type="checkbox"/> Use of CRM principles
	HR	200			
	SPO ₂	Not readable			
	BP/ART	Not readable			
	RR	0			
	CVP				
	TEMP				
	CO ₂				
	BSL				
	GCS V, M, E	3 1, 1, 1			
	Other				

2 MINS – 6 MINS

STATE TWO				
Commencement of ALS Algorithm				
VITAL SIGNS		SCRIPT	DETAILS	EXPECTED ACTIONS
ECG	VF		<ul style="list-style-type: none">• Patient will revert to Sinus rhythm after the second shock• and 30 seconds of CPR	<ul style="list-style-type: none"><input type="checkbox"/> Commencement of ALS Algorithm<input type="checkbox"/> Continue CPR for 2 mins<input type="checkbox"/> Charge defibrillator whilst continuing compressions<input type="checkbox"/> Analyse rhythm – recognition of shockable rhythm and<input type="checkbox"/> Defibrillate<input type="checkbox"/> Administer 1 mg Adrenaline<input type="checkbox"/> Use of CRM principles
HR	unreadable			
SPO ₂	No reading			
BP/ART	0/0			
RR	0			
CVP				
TEMP				
CO ₂				
BSL				
GCS	3			
V, M, E	1, 1, 1			
Other				

STATE THREE				
6 MINS – 10 MINS	Recovery			
	VITAL SIGNS		SCRIPT	EXPECTED ACTIONS
	ECG	SR	Patient moans	<input type="checkbox"/> Provide supportive cares
	HR	50		
	SPO ₂	93%		
	BP/ART	94/46		
	RR	8		
	CVP			
	TEMP	36.0		
	CO ₂	30		
	BSL	4.0		
	GCS <i>V, M, E</i>	9		
	Other			

Barry Goodman – PEA (Contrast Reaction) – Radiology

TYPE OF SIMULATION	Immersive
TARGET AUDIENCE	Medical staff Radiologists
SCENARIO OVERVIEW	Barry Goodman is a 59-year-old male who has presented to his GP with 3 days of R) LQ abdo pain. Barry has not had a CT scan before. The participants are called into the CT room mid procedure post patient complaining of lip tingling. The patient will be drowsy with a decreasing GCS on arrival. The patient will then become unconscious and be in PEA. Patient will then revert to sinus rhythm after three cycles of the ALS algorithm.
LEARNING OBJECTIVES	By the end of the scenario the learner should: <ul style="list-style-type: none">• Demonstrate the application of ALS algorithm – non-shockable• Demonstrate principles of crisis resource management• Demonstrate how to elicit appropriate handover
APPROXIMATE RUN TIME	30 minutes including debrief

SET UP AND RESOURCES REQUIREMENTS

HUMAN RESOURCES	
FACULTY	Faculty for debrief
SIMULATION COORDINATORS	1 x for manikin voice and control.
CONFEDERATES	1 x handover (Radiographer)
OTHER	

PHYSICAL RESOURCES	
ROOM SET UP	Outpatient / private radiology
SIMULATOR/S	ALS Advanced on trolley
SIMULATOR/S SET UP	Patient in gown
CLINICAL EQUIPMENT	Emergency trolley with defibrillator
ACCESS	20g cannula L) arm for contrast
ADDITIONAL PROPS	
OTHER	

INJURIES / MOULAGE

LOCATION

Description

LOCATION

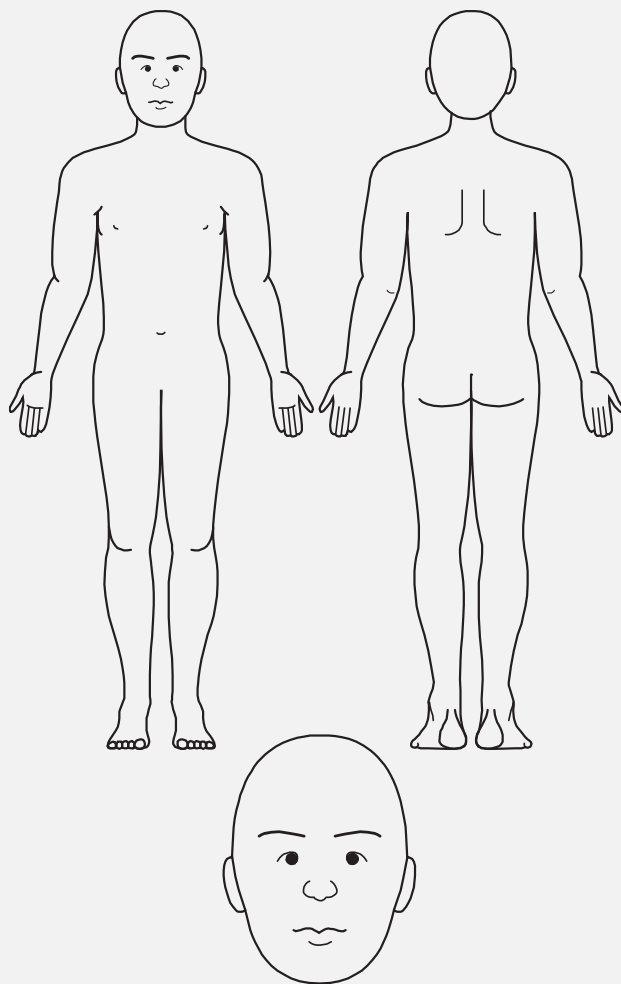
Description

LOCATION

Description

LOCATION

Description



HANDOVER CARD / PATIENT DETAILS

NAME:

Barry Goodman

AGE / SEX / WEIGHT:

Age: 59

Sex: Male

Weight: 95kg

ALLERGIES:

Ramipril (Anaphylaxis)

MEDICATIONS:

Metoprolol

MEDICAL / SURGICAL HISTORY:

3 days of R) LQ abdo pain sharp in nature.

History of HTN and fatty liver.

SOCIAL HISTORY / EMPLOYMENT:

Electrical linesman

STATE ONE						
Patient lying on CT table post emergency stop						
VITAL SIGNS		SCRIPT		DETAILS	EXPECTED ACTIONS	
ECG	SR	Patient	"I just had a bit of tingling in my lips and want to throw up"	<ul style="list-style-type: none">Pt lying on CT TableNil monitoring attached	<ul style="list-style-type: none">Identify patient, allergies, history, imaging etc.Identify allergic reactionPotentially give adrenaline as per protocolApply monitoring ECG, BP, O2	
HR	140					
SPO ₂	93		Do not state patient has had contrast unless directly asked for.			
BP/ART	90/60					
RR	24		Pt becomes increasingly wheezy			
CVP						
TEMP			Pt will become unconscious after two minutes.			
CO ₂						
BSL						
GCS V, M, E	15 (V 5, M 6, E 4)					
Other						

STATE TWO

PEA

VITAL SIGNS		SCRIPT		DETAILS	EXPECTED ACTIONS
ECG	PEA (Sinus)	Patient	Patient becomes unconscious	<ul style="list-style-type: none"> Pt to remain in PEA for three cycles before reverting into SR 	<input type="checkbox"/> Identify deterioration
HR	150				<input type="checkbox"/> Identification of rhythm
SPO₂					<input type="checkbox"/> Commence ALS Pathway
BP/ART					<input type="checkbox"/> Identify need to not shock
RR	0				<input type="checkbox"/> Identify cause of arrest (Contrast)
CVP					<input type="checkbox"/> Early CPR
TEMP					Call for help
CO₂					
BSL					
GCS <i>V, M, E</i>	3 (V1, M1, E1)				
Other					

STATE THREE						
Resolution						
15 MINS – 20 MINS	VITAL SIGNS		SCRIPT		DETAILS	EXPECTED ACTIONS
	ECG	SR		Patient will start to groan and wake up	Patient returns to Sinus rhythm ALOC GCS12	<input type="checkbox"/> Continue to monitor
	HR	135				
	SPO ₂	94				
	BP/ART	100/70				
	RR					
	CVP					
	TEMP					
	CO ₂					
	BSL					
	GCS <i>V, M, E</i>	12 (V3, M5, E4)				
	Other					

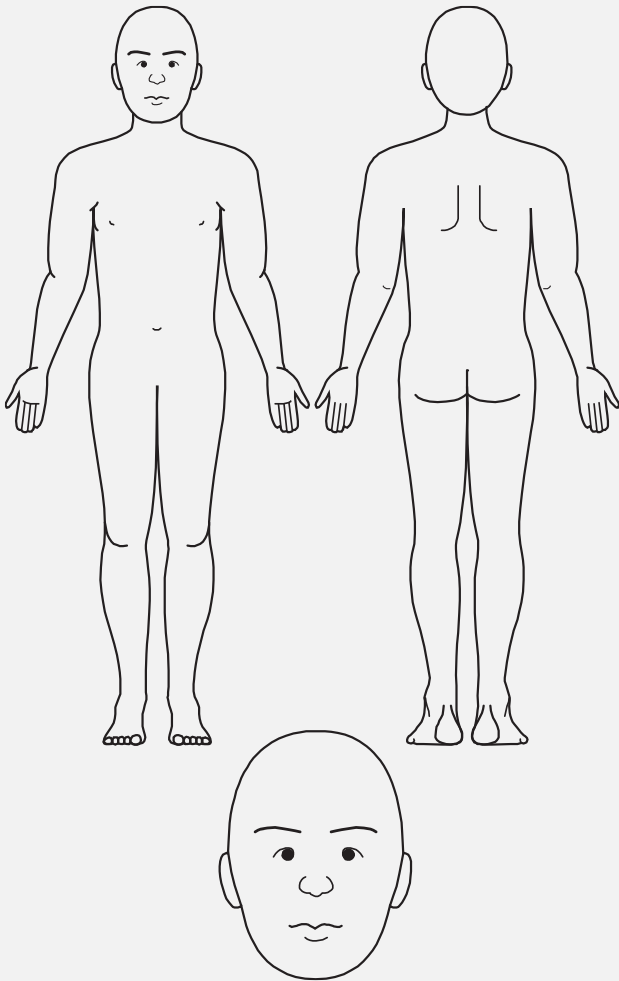
Edward Chubb – VF (Hyperkalaemia) – Emergency Department

TYPE OF SIMULATION	Immersive Scenario
TARGET AUDIENCE	<ul style="list-style-type: none">• Medical staff• Nursing staff• Allied health staff
SCENARIO OVERVIEW	A 40 year old man (130 kgs) presents with central chest pain to the emergency department. Past medical history of hypertension. He is currently using Optifast to lose weight. Patient has a VF arrest due to hyperkalaemia. Patient recovers following recognition and treatment of the reversible cause.
LEARNING OUTCOMES	<p>By the end of the scenario the learners should:</p> <ul style="list-style-type: none">• Demonstrates appropriate Primary survey and commences BLS• Follow the ANZCOR ALS algorithm utilising the principles of crisis resource management
APPROXIMATE RUN TIME	30 min including debrief.

SET UP AND RESOURCES REQUIREMENTS

HUMAN RESOURCES	
FACULTY	1 x faculty to operate manikin and debrief
SIMULATION COORDINATORS	1 x to play confederate role
CONFEDERATES	Triage nurse
OTHER	

PHYSICAL RESOURCES	
ROOM SET UP	Resus bay in ED
SIMULATOR/S	ALS Simulator
SIMULATOR/S SET UP	Manikin on bed in hospital gown
CLINICAL EQUIPMENT	Emergency trolley with defibrillator
ACCESS	2 x IV access: <ul style="list-style-type: none"> • 1 with no IV sticker in situ • 1 x 18-gauge IV access available
ADDITIONAL PROPS	H2O spray bottle
OTHER	

INJURIES / MOULAGE	
HEAD Pale and sweaty	
TORSO Sweaty	
LOCATION Description	
LOCATION Description	

HANDOVER CARD / PATIENT DETAILS	
NAME: Edward Chubb	AGE / SEX / WEIGHT: Age: 44 years old Sex: Male Weight: 130 kgs
ALLERGIES: Nil known	MEDICATIONS: Coveram
MEDICAL / SURGICAL HISTORY: Hypertension	SOCIAL HISTORY / EMPLOYMENT: Married Real Estate agent – on holiday in Torres Strait visiting relatives

START – 2 MINS

STATE ONE					
Initial handover and commencement of resuscitation					
VITAL SIGNS		SCRIPT		DETAILS	EXPECTED ACTIONS
ECG	VT	Initial handover	I've just asked Edwin to hop into a gown while I went to get the ECG machine and when I came back he wasn't breathing.	A – Difficulty ventilating with BVM-consider early intubation to prevent aspiration. Block lungs to prevent ventilation. <ul style="list-style-type: none">Removed blocked lungs following insertion of an advanced airwayProvide history (state 2) only if asked. <u>Trending</u> After the first two minutes move to state two.	<div><input type="checkbox"/> Commence BLS algorithm</div> <div><input type="checkbox"/> Commence ALS algorithm</div> <div><input type="checkbox"/> Attach defibrillator and assess rhythm immediately with minimal interruptions to CPR</div> <div><input type="checkbox"/> Safely defibrillate and recommence CPR for 2 minutes</div>
HR	Nil				
SPO ₂	Nil				
BP/ART	Nil				
RR	0	Santa	Difficulty with bilateral rise and fall of the chest due to excess weight.		
CVP	N/A				
TEMP	36.5	Confederate	Following insertion of advance airway – See bilateral rise and fall of chest		
CO ₂	N/A				
BSL	4.5				
GCS <i>E, V, M</i>	3/15				
Other	CRT 3 sec				

STATE TWO

Recognition and management of cardiac arrest – VT

2 MINS – 14 MINS

VITAL SIGNS		SCRIPT		DETAILS	EXPECTED ACTIONS
ECG	VT	Further history when asked	Edwin Chubb presented with chest pain and dizziness. He was complaining that his heart was racing. When I felt his pulse, it was bounding and fast, too fast to count. He is overweight at 130 kgs holidaying in Torres Strait. Previous medical history – HTN on Coveram and he is using Optifast to lose weight.	<p>A – Able to be ventilated with the use of an airway adjunct</p> <p>B – No breathing. No spO2 trace</p> <p>C – No cardiac output</p> <p>D – Unconscious, 3 ERL</p> <ul style="list-style-type: none"> Blood results: <ul style="list-style-type: none"> K+ 8.0 mmol/L (3.5 – 5.0 mmol/L) Na 120 (135 – 145mEq/L) <p>Other results pending</p> <p><u>Trending</u></p> <p>Following consideration or administration of medication to treat hyperkalaemia move to state 3.</p>	<input type="checkbox"/> Follows ALS algorithm <input type="checkbox"/> Systematic review of reversible causes <input type="checkbox"/> Team review of management of reversible causes <input type="checkbox"/> Review of the treatment considering blood results
HR	150				
SPO ₂	Nil reading				
BP/ART	Nil				
RR	0				
CVP	N/A				
TEMP	35.8				
CO ₂	15				
BSL	4.8				
GCS E, V, M	3/15				
Other					

STATE THREE						
Return of spontaneous circulation						
14 MINS – 15 MINS			SCRIPT		DETAILS	EXPECTED ACTIONS
	ECG	ST	Patient	Patient vomiting and moaning	A – Coughing / moaning B – Spontaneously breathing C – ECG rhythm shows hypokalaemia	<input type="checkbox"/> Discuss 4 H's and 4 T's <input type="checkbox"/> Discuss post resus care <input type="checkbox"/> Organise definite care Treatment <ul style="list-style-type: none"> • Calcium Chloride • Glucose (50ml D50) and insulin (10 units) • Sodium Bicarbonate 50mEq
	HR	110				
	SPO ₂	96				
	BP/ART	80/45				
	RR	12				
	CVP	N/A				
	TEMP	36.0				
	CO ₂	35				
	BSL	4.8				
	GCS V, M, E	11				
	Other					

Brent Fletcher – VF (Heroin Overdose/STEMI) – Emergency Department

TYPE OF SIMULATION	Immersive
TARGET AUDIENCE	<ul style="list-style-type: none">• Medical staff• Nursing staff• Allied health staff
SCENARIO OVERVIEW	Brent Fletcher, 28, a homeless IV drug user with past medical history of polysubstance abuse and Hepatitis C presents to QAS with drowsiness post IV heroin use. After transport to hospital he is left unattended in ED triage and a junior nurse notices that he isn't breathing. Pt is hypothermic, dyspnoeic and unresponsive. Pt goes into (STEMI) followed by VF. After 10 minutes of CPR, intubation, active warming, and fluid resuscitation the patient achieves ROSC.
LEARNING OUTCOMES	<p>By the end of the scenario the learners should:</p> <ul style="list-style-type: none">• Follow the ANZCOR ALS algorithm utilizing the principles of crisis resource management• Demonstrate systematic review of reversible causes of arrest
APPROXIMATE RUN TIME	30 minutes including debrief

SET UP AND RESOURCES REQUIREMENTS

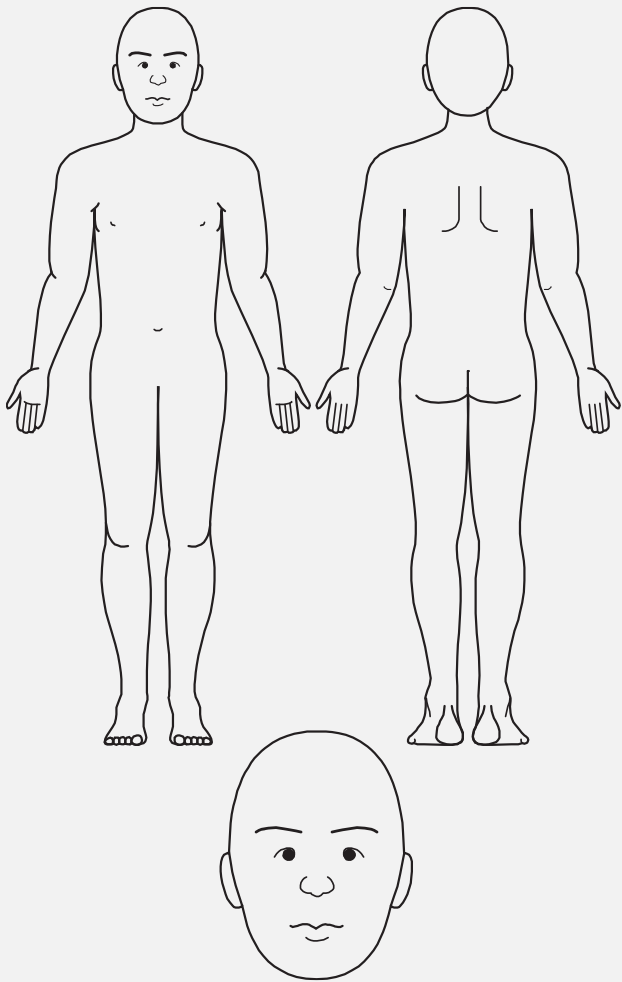
HUMAN RESOURCES	
FACULTY	1 x Facilitator for manikin control and debrief
SIMULATION COORDINATORS	1 – to play confederate
CONFEDERATES	1 x junior nurse
OTHER	

PHYSICAL RESOURCES	
ROOM SET UP	Emergency department Patient on bed
SIMULATOR/S	ALS Advanced
SIMULATOR/S SET UP	Patient on monitor
CLINICAL EQUIPMENT	Emergency trolley with defibrillator
ACCESS	2 x IV access: 1 with no IV sticker in situ 1 x 18-gauge IV access available
ADDITIONAL PROPS	12 lead ECG post arrest
OTHER	Moulage – makeup wheel

INJURIES / MOULAGE

LIMBS

Numerous injection sites on arms



HANDOVER CARD / PATIENT DETAILS

NAME:

Brent Fletcher

AGE / SEX / WEIGHT:

Age: 28

Sex: Male

Weight: 70kg

ALLERGIES:

KNDA

MEDICATIONS:

Nil regular

MEDICAL / SURGICAL HISTORY:

Polysubstance abuse

Hepatitis C

SOCIAL HISTORY / EMPLOYMENT:

Unemployed, previous arrests for assault / drug trafficking

START - 2 MINS

STATE ONE					
Initial patient assessment					
VITAL SIGNS		SCRIPT		DETAILS	EXPECTED ACTIONS
ECG	Inf. AMI	Handover	This is Brent Fletcher, a 28y/o homeless IV drug user with past medical history of polysubstance abuse and HEP C. He presented to ambulance with drowsiness post suspected IV heroin use. He was left unattended here in the ED triage area and I (junior nurse) just noticed that he isn't breathing very well.	<ul style="list-style-type: none">Patient lying on bed, unresponsive, pale, dyspnoeic, bradycardic.Rhythm progresses to asystole <30sec of participants entering room <u>Trending</u> Prior to administration of naloxone, patient arrest, move to state 2.	<ul style="list-style-type: none"><input type="checkbox"/> Assess patient<input type="checkbox"/> Commencement of BLS algorithm<input type="checkbox"/> Airway management – BVM high flow O2<input type="checkbox"/> Attach defibrillator / monitor<input type="checkbox"/> Assessment of cardiac rhythm<input type="checkbox"/> Use of CRM principles<input type="checkbox"/> Consider administration of naloxone
HR	55				
SPO ₂	87				
BP/ART	80/40				
RR	8				
CVP	N/A				
TEMP	35.8				
CO ₂	50				
BSL	4.0				
GCS V, M, E	3				
Other					

STATE TWO

Recognition and commencement of ALS algorithm

2 MINS – 8 MINS

VITAL SIGNS		SCRIPT		DETAILS	EXPECTED ACTIONS
ECG	VF			<ul style="list-style-type: none"> CPR and oxygenation for 10 minutes – ROSC <p><u>Trending</u></p> <p>Post administration of adrenaline and naloxone the patient had ROSC (state 3).</p>	<ul style="list-style-type: none"> <input type="checkbox"/> Commencement of ALS algorithm <input type="checkbox"/> Continue CPR <input type="checkbox"/> Charge defibrillator whilst continuing compressions <input type="checkbox"/> Analyse rhythm – recognition of non-shockable rhythm and dump charge <input type="checkbox"/> Obtain IV access <input type="checkbox"/> Warming of patient <input type="checkbox"/> Administer naloxone <input type="checkbox"/> Use of CRM principles
HR	Nil				
SPO ₂	Unreadable				
BP/ART	Nil				
RR	Nil				
CVP	N/A				
TEMP	35.1				
CO ₂	20				
BSL	4.0				
GCS V, M, E	3				
Other					

STATE THREE						
Discussion of reversible causes						
8 MINS – 15 MINS	VITAL SIGNS		SCRIPT		DETAILS	EXPECTED ACTIONS
	ECG	Inf. AMI			ROSC	<input type="checkbox"/> Post resuscitation care, including ECG <input type="checkbox"/> Discuss differential diagnosis (respiratory arrest or cardiac thrombus/inferior MI) End of scenario In debrief discuss frequency gambling.
	HR	70				
	SPO ₂	93%				
	BP/ART	88 / 46				
	RR	8				
	CVP	N/A				
	TEMP	36.0				
	CO ₂	40				
	BSL	4.0 mmol				
	GCS <i>V, M, E</i>	9 / 15				

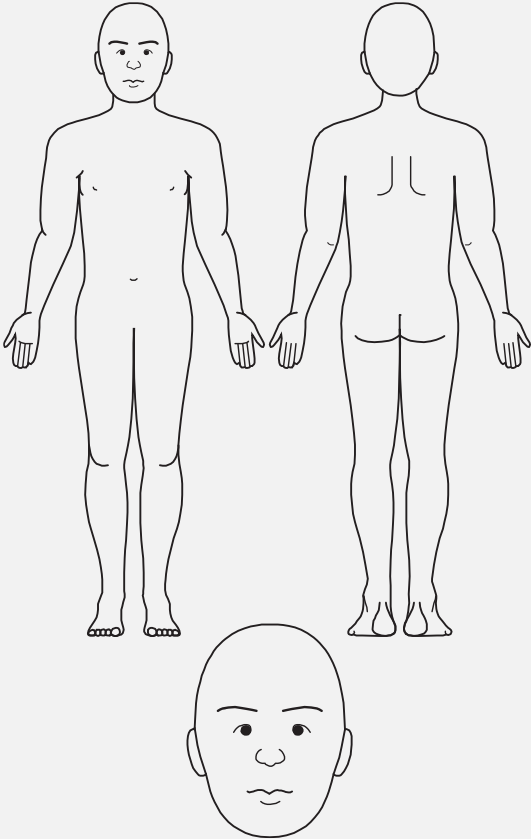
Eugene Pennington – VF (Irukandji Sting) – Emergency Department

TYPE OF SIMULATION	Immersive
TARGET AUDIENCE	<ul style="list-style-type: none">• Medical staff• Nursing staff• Allied health staff
SCENARIO OVERVIEW	58 year old M tourist Eugene Pennington self presents to Cairns ED after feeling something sting him across the face, neck and chest while swimming. The patient complains of severe muscular cramping pains, sweating, anxiety, and nausea. The patient has sinus tachycardia and hypertension, and will deteriorate to VF (optional – if treated correctly within the first 5 minutes, patient recovers).
LEARNING OUTCOMES	<p>By the end of the scenario the learners should:</p> <ul style="list-style-type: none">• Demonstrate management principles of low frequency high acuity envenomation including medication and precautions• Follow the ANZCOR ALS algorithm utilising the principles of crisis resource management
APPROXIMATE RUN TIME	30 mins including debrief

SET UP AND RESOURCES REQUIREMENTS

HUMAN RESOURCES	
FACULTY	1 x Faculty to operate the manikin and debrief
SIMULATION COORDINATORS	1 x to play the confederate role
CONFEDERATES	Junior nurse
OTHER	

PHYSICAL RESOURCES	
ROOM SET UP	Surgical Ward
SIMULATOR/S	ALS Advanced
SIMULATOR/S SET UP	Patient in swimming clothes
CLINICAL EQUIPMENT	Emergency trolley with defibrillator ABG collection tubes and forms 12 lead ECG
ACCESS	2 x IV access with no IV stickers applied
ADDITIONAL PROPS	
OTHER	Bloods results

INJURIES / MOULAGE	
	

HANDOVER CARD / PATIENT DETAILS	
NAME: Eugene Pennington	AGE / SEX / WEIGHT: Age: 58 Sex: Male Weight: 80 kg
ALLERGIES: KND A	MEDICATIONS: 8mg warfarin
MEDICAL / SURGICAL HISTORY: Previous cardiac surgery (patient poor historian)	SOCIAL HISTORY / EMPLOYMENT: Tourist from UK

START – 5 MINS

STATE ONE							
Initial presentation							
VITAL SIGNS		SCRIPT		DETAILS	EXPECTED ACTIONS		
ECG	Sinus Tachy	Handover	This is Eugene, he is a 58-year-old male. He was swimming in the bay out here in Cairns, and was stung by something on his face, neck and chest. We think that it is an Irukandji envenomation. He was very tacky and his pulse feels bounding.	A – Patent	<div><input type="checkbox"/> Assess patient</div> <div><input type="checkbox"/> High flow O2</div> <div><input type="checkbox"/> Monitoring – ECG, SPO2, BP</div> <div><input type="checkbox"/> Obtain IV access</div> <div><input type="checkbox"/> Draw blood for – FBE, U&E, Mg, TnI</div> <div><input type="checkbox"/> Perform 12 lead ECG</div> <div><input type="checkbox"/> Administer analgesia (Morphine, 0.05mg/kg) (Fentanyl, 0.5mcg/kg)</div> <div><input type="checkbox"/> Administer GTN – sublingual tablet</div> <div><input type="checkbox"/> Administer MgSO4 – 0.15mmol/kg over 15 mins then start infusion</div> <div><input type="checkbox"/> Call for help (ICU consultant, retrieval as appropriate)</div>		
HR	143			B – Laboured, SOB, speaking short sentences, widespread crackles			
SPO ₂	93 → 97%			C – Pulse weak, fast and regular			
BP/ART	260/160			D – Alert, eyes open to speech, complaining of severe pain			
RR	28			E – Nil stings or bites			
CVP	N/A	Patient	In severe abdominal pain, nausea. Severe headache. Anxiety Complaining. Laboured heavy breathing. – Pulmonary oedema	<u>Trending</u>			
TEMP	37.5			<div><ul style="list-style-type: none">• Increase spO2 to 97 if oxygen given• IF GTN + analgesia + MgSO4 given – pt. BP, HR recovers (state 3)• If no GTN given within 5 mins progress to VF (state 2)</div>			
CO ₂	N/A						
BSL	3.8	Santa	Nil stings or bites				
GCS V, M, E	14 eyes						
Other							

STATE TWO						
Cardiac arrest						
5 MINS – 15 MINS	VITAL SIGNS		SCRIPT		DETAILS	EXPECTED ACTIONS
	ECG	VF			Patient becomes unresponsive	<input type="checkbox"/> Commence BLS <input type="checkbox"/> Follow ALS Algorithm <input type="checkbox"/> Utilise CRM principles <input type="checkbox"/> Call for help (ICU consultant, retrieval as appropriate)
	HR	Nil			<u>Trending</u>	
	SPO ₂	Nil			Continue resuscitation however patient does not achieve ROSC	
	BP/ART	Nil				
	RR	0				
	CVP	N/A				
	TEMP	36.0				
	CO ₂	10 → 5				
	BSL	3.8				
	GCS V, M, E	3				
	Other					

10 MINS – 5 MINS	STATE THREE					
	Return of spontaneous circulation					
	VITAL SIGNS		SCRIPT		DETAILS	EXPECTED ACTIONS
	ECG	Sinus Tachy	Patient	c/o pain	A – Patent	<input type="checkbox"/> Post resuscitation cares
	HR	143 → 100			B – Mildly SOB, speaking full sentences, mild crackles	<input type="checkbox"/> Re-assess patient
	SPO ₂	97%			C – Mildly	<input type="checkbox"/> Monitor vital signs
	BP/ART	260/160 → 200/100			D – Alert, complaining of pain	<input type="checkbox"/> Administer analgesia (Morphine, 0.05mg/kg) (Fentanyl, 0.5mcg/kg)
	RR	28 → 24			E – Nil stings or bites	<input type="checkbox"/> Call for help (ICU consultant, retrieval as appropriate)
	CVP	N/A				
	TEMP	37.5				
	CO ₂	N/A				
	BSL	3.8				
	GCS	15				
E, V, M						
Other						

OTHER

BLOOD RESULTS

INR – 4.9

Troponin T – 0.27ug/L

White blood cell count – $17.6 \times 10^9/L$

Aspartate aminotransferase – 51 U/L

Colin Mackeral – VT/VF (Marine Envenomation) – Emergency Department

TYPE OF SIMULATION	Immersive Scenario
TARGET AUDIENCE	<ul style="list-style-type: none">• Medical staff• Nursing staff• Allied health staff
SCENARIO OVERVIEW	A 24-year-old man is brought in by QAS following marine envenomation. Patient has been liberally doused with vinegar. Tentacles visible on chest. Patient initially responsive and complaining of severe pain. Monitoring reveals sinus tachycardia and low BP. Patient rapidly deteriorates to unconsciousness with pulseless VT. Reverts to VF after first defibrillation. Remains in VF after 2 nd defibrillation and administration of adrenaline. Reverts to SR following 3 rd defibrillation.
LEARNING OUTCOMES	<p>By the end of the scenario the learners should:</p> <ul style="list-style-type: none">• Demonstrates adherence to BLS algorithm – DANGER – Dons PPE and removes tentacles. Wipes away vinegar from chest• Follow the ANZCOR ALS algorithm utilizing the principles of crisis resource management
APPROXIMATE RUN TIME	30 min including debrief.

SET UP AND RESOURCES REQUIREMENTS

HUMAN RESOURCES	
FACULTY	1 x faculty to operate manikin and debrief
SIMULATION COORDINATORS	1 x to play confederate role
CONFEDERATES	QAS officer or Nurse
OTHER	

PHYSICAL RESOURCES	
ROOM SET UP	Resus bay in ED
SIMULATOR/S	ALS Simulator
SIMULATOR/S SET UP	Manikin on bed. Spontaneously breathing, Strips of clear plastic glad wrap across chest to simulate tentacles. Spray chest with diluted vinegar in spray bottle.
CLINICAL EQUIPMENT	Emergency trolley with defibrillator
ACCESS	2 x IV access: 1 with no IV sticker in situ 1 x 18-gauge IV access available
ADDITIONAL PROPS	Moulage – make-up wheel Cling wrap Vinegar
OTHER	

INJURIES / MOULAGE

ORSO

Strips of cling wrap
across chest to
simulate tentacles,
spray chest with
dilute vinegar

TORSO

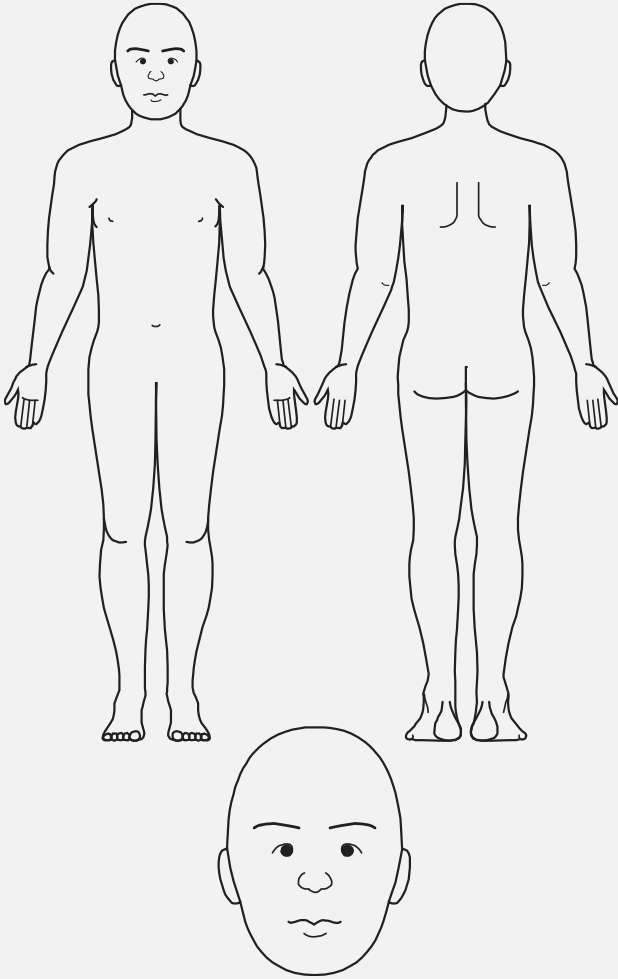
Red marks across
chest from tentacles

LOCATION

Description

LOCATION

Description



HANDOVER CARD / PATIENT DETAILS

NAME:

Colin Mackeral

AGE / SEX / WEIGHT:

Age: 24 years old

Sex: Male

Weight: 90 kgs

ALLERGIES:

Nil known

MEDICATIONS:

Nil

MEDICAL / SURGICAL HISTORY:

Nil

SOCIAL HISTORY / EMPLOYMENT:

Recreational fisherman

START - 2 MINS

STATE ONE						
Initial handover and assessment						
VITAL SIGNS		SCRIPT		DETAILS	EXPECTED ACTIONS	
ECG	ST	Handover	This is Colin Mackeral who was brought in by QAS after a jelly fish sting at local beach. Has been complaining of severe pain. Penthrane and Morphine given. No past medical history, no allergies. 18 gauge IV placed by QAS.	Initially spontaneously breathing with increased work of breathing, patient agitated and confused. <u>Trending</u> After finishing the actions for danger move to the next state (state 2)	<div><input type="checkbox"/> Receives handover</div> <div><input type="checkbox"/> Identifies danger<ul style="list-style-type: none">• Don PPE• DRABC• Remove tentacles• Wipe off vinegar• Apply defib pads/monitoring equipment</div> <div><input type="checkbox"/> Continues patient assessment – DRSABC</div>	
HR	200					
SPO ₂	91%					
BP/ART	68/32					
RR	28					
CVP	N/A	Patient	Agitated and moaning in pain. My chest hurts; It’s killing me.			
TEMP	36.5					
CO ₂	N/A					
BSL	4.5					
GCS <i>E, V, M</i>	14/15					
Other	CRT 4 sec					

STATE TWO

Recognition and management of cardiac arrest – VT

2 MINS – 4 MINS

VITAL SIGNS		SCRIPT		DETAILS	EXPECTED ACTIONS
ECG	VT	Patient	No response	A – able to be ventilated with BVM B – No breathing. No spO2 trace C – No cardiac output D – Unconscious, 3 ERL <u>Trending</u> Rhythm changes to VF following 1 st defibrillation (state 3)	<input type="checkbox"/> Recognition of deterioration and emergency <input type="checkbox"/> Commence BLS algorithm <input type="checkbox"/> Commence ALS algorithm <input type="checkbox"/> Attach defibrillator and assess rhythm immediately with minimal interruptions to CPR <input type="checkbox"/> Safely defibrillate and recommence CPR for 2 minutes. <input type="checkbox"/> Consider antivenom
HR	150				
SPO ₂	Nil reading				
BP/ART	Nil				
RR	0				
CVP	N/A				
TEMP	35.8				
CO ₂	N/A				
BSL	4.8				
GCS V, M, E	3/15				
Other					

STATE THREE						
Continual management of ALS shockable algorithm						
4 MINS – 14 MINS	VITAL SIGNS		SCRIPT		DETAILS	EXPECTED ACTIONS
	ECG	VF	Patient	Nil	A – Able to be ventilated with BVM B – No breathing C – Cold, nil cardiac output <u>Trending</u> Option 1- ROSC at 3 rd shock (state 4) Option 2 – ROSC only after administration of antivenom (state 4)	<input type="checkbox"/> Follow ALS algorithm <input type="checkbox"/> Performs effective ECC (two minutes) with minimal interruptions <input type="checkbox"/> Analyse rhythm and shock as required <input type="checkbox"/> Administer 1 mg Adrenaline after 2 nd shock <input type="checkbox"/> Administer 300mg amiodarone after 3 rd shock <input type="checkbox"/> Appropriate attention to airway, initially airway BVM – later advanced airway LMA without distraction from defib and CPR <input type="checkbox"/> Call for advice re: antivenom <input type="checkbox"/> Teamwork and effective communication
	HR	Nil				
	SPO ₂	Nil reading				
	BP/ART	Nil				
	RR	0				
	CVP	N/A				
	TEMP	35.8				
	CO ₂	20				
	BSL	4.8				
	GCS V, M, E	3/15				
	Other					

STATE FOUR						
Return of spontaneous circulation						
		SCRIPT		DETAILS	EXPECTED ACTIONS	
14 MINS – 15 MINS	ECG	ST	Patient	Patient irritable, moaning	A – Coughing / moaning B – Spontaneously breathing C – Weak rapid pulse	<input type="checkbox"/> Discuss post resus care <input type="checkbox"/> Organise definite care <input type="checkbox"/> Discuss 4 H's and 4 T's Debriefing: Treatment of Toxin with antivenom is the only successful treatment option. CPR should continue for one hour.
	HR	110				
	SPO ₂	96				
	BP/ART	80/45				
	RR	12				
	CVP	N/A				
	TEMP	36.0				
	CO ₂	35				
	BSL	4.8				
	GCS V, M, E	11				
	Other					

Harry Hardy – PEA (Trauma: Tension Pneumo/Hypovolaemia) – Emergency Department

TARGET AUDIENCE	<ul style="list-style-type: none">• Medical staff• Nursing staff• Allied health staff
SCENARIO OVERVIEW	24yr old male Harry Hardy brought into ED by friends who appear drunk saying that he fell off the back of a ute. His friends place him on a bed and leave because they are afraid that the Police will be called. Harry has tension pneumothorax and stomach distention from internal haemorrhage. Harry proceeds to PEA arrest. If his exsanguination and pneumothorax is managed, he will respond to ALS measures and achieve ROSC.
LEARNING OUTCOMES	<p>By the end of the scenario the learners should:</p> <ul style="list-style-type: none">• Follow the ANZCOR ALS algorithm utilizing the principles of crisis resource management• Gain an awareness of the ANZCOR trauma guidelines
APPROXIMATE RUN TIME	30 mins including debrief

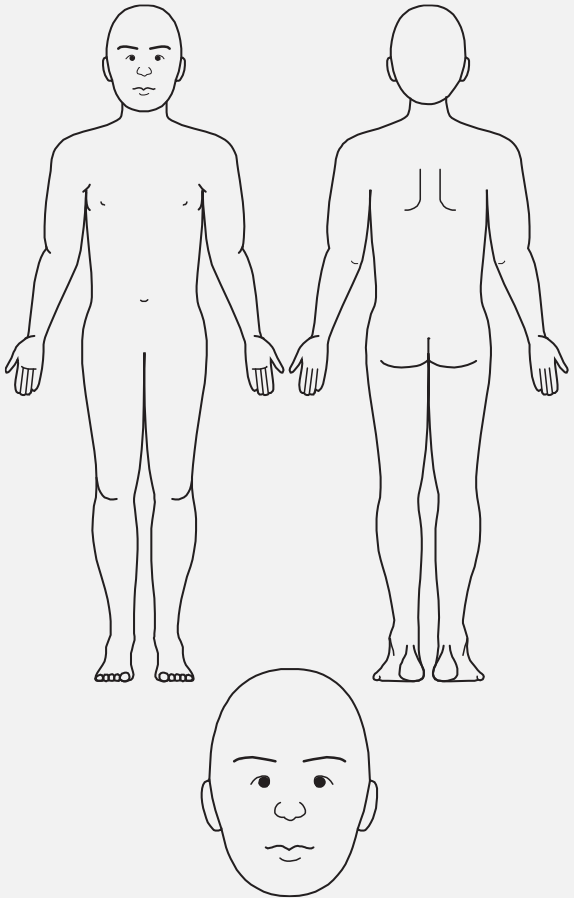
SET UP AND RESOURCES REQUIREMENTS

HUMAN RESOURCES	
FACULTY	1 x faculty to operate manikin and debrief
SIMULATION COORDINATORS	1 x to play confederate role
CONFEDERATES	Junior nurse
OTHER	

PHYSICAL RESOURCES	
ROOM SET UP	Resus bay in ED
SIMULATOR/S	ALS Advanced
SIMULATOR/S SET UP	Pt in bed, spontaneous breathing in street clothes
CLINICAL EQUIPMENT	Emergency trolley with defibrillator Fast scan accessible
ACCESS	2 x IV access: 1 with no IV sticker in situ 1 x 18-gauge IV access available
ADDITIONAL PROPS	Moulage – make-up wheel
OTHER	

HUMAN RESOURCES	
FACULTY	1 x faculty to operate manikin and debrief
SIMULATION COORDINATORS	1 x to play confederate role
CONFEDERATES	Junior nurse
OTHER	

PHYSICAL RESOURCES	
ROOM SET UP	Resus bay in ED
SIMULATOR/S	ALS Advanced
SIMULATOR/S SET UP	Pt in bed, spontaneous breathing in street clothes
CLINICAL EQUIPMENT	Emergency trolley with defibrillator Fast scan accessible
ACCESS	2 x IV access: 1 with no IV sticker in situ 1 x 18-gauge IV access available
ADDITIONAL PROPS	Moulage – make-up wheel
OTHER	

INJURIES / MOULAGE	
	
TORSO Bruising around right side of chest and abdomen	

HANDOVER CARD / PATIENT DETAILS	
NAME: Harry Hardy	AGE / SEX / WEIGHT: Age: 24 Sex: Male Weight: 80 kg
ALLERGIES: KNDA	MEDICATIONS: Nil
MEDICAL / SURGICAL HISTORY: Nil	SOCIAL HISTORY / EMPLOYMENT: Tradie

START - 2 MINS

STATE ONE						
Initial handover and assessment						
VITAL SIGNS		SCRIPT		DETAILS	EXPECTED ACTIONS	
ECG	ST	Handover	This is Harry, he was dropped off by his friends after falling off the back of a ute that was travelling at about 50kph. Impacted on his R side chest and abdo. Have found Nil other injuries. Pt denies head hit / no c-spine tenderness.	A – Patent B – Unilateral chest rise, decrease air entry on left side C – Pale, weak peripheral pulses D – Alert, pupils 3 ERL Post decompression AE improves and SpO2 improves.	<div><input type="checkbox"/> DRSABC</div> <div><input type="checkbox"/> Apply oxygen</div> <div><input type="checkbox"/> Apply soft collar</div> <div><input type="checkbox"/> Perform primary survey</div> <div><input type="checkbox"/> Identify tension pneumothorax and perform needle decompression</div>	
HR	144					
SPO ₂	89%					
BP/ART	95/50					
RR	36					
CVP	N/A	Patient	Harry moans in pain. I can't breathe!	<u>Trending</u> At two minutes patient becomes less response with decrease BP and RR to progress to state 2.		
TEMP	36.0					
CO ₂	N/A					
BSL	8					
GCS <i>E, V, M</i>	15					
Other	CRT 3 sec					

STATE TWO						
Cardiac arrest						
2 MINS – 8 MINS	VITAL SIGNS		SCRIPT		DETAILS	EXPECTED ACTIONS
	ECG	PEA	Faculty	Patient to fade out /become unresponsive Santa to relay info related to 4hs 4ts	<ul style="list-style-type: none"> Patient goes into hypovolemic arrest <u>Trending</u> ALS commenced for 5-10 minutes depending on attention to HHTT – then ROSC (state 3)	<input type="checkbox"/> Follow ALS algorithm – traumatic arrest Treat – HOTT <input type="checkbox"/> Manage airway / hypoxia <input type="checkbox"/> Treat hypovolaemia <input type="checkbox"/> Check air entry post needle decompression <input type="checkbox"/> Perform FAST SCAN – tamponade <input type="checkbox"/> Call to refer patient for immediate surgery / transfer or perform peri cardiocentesis
	HR	Nil				
	SPO ₂	Not readable				
	BP/ART	Not readable				
	RR	Nil				
	CVP	N/A				
	TEMP	36.0				
	CO ₂	20				
	BSL	3.8				
	GCS V, M, E	3				
	Other					

STATE THREE						
ROSC						
8 MINS – 15 MINS	VITAL SIGNS		SCRIPT		DETAILS	EXPECTED ACTIONS
	ECG	SR	Faculty	Santa to relay info related to 4hs 4ts Pt to groan or cough and become GCS 11	<ul style="list-style-type: none"> Post ROSC cares 	<input type="checkbox"/> Post resuscitation care <input type="checkbox"/> Organise definitive treatment <input type="checkbox"/> Aim to meet haemodynamic goals – SBP >100 <input type="checkbox"/> End of scenario
	HR	90				
	SPO ₂	98				
	BP/ART	89/52				
	RR	22				
	CVP	N/A				
	TEMP	36.0				
	CO ₂					
	BSL	7.5				
	GCS V, M, E	11				
	Other					

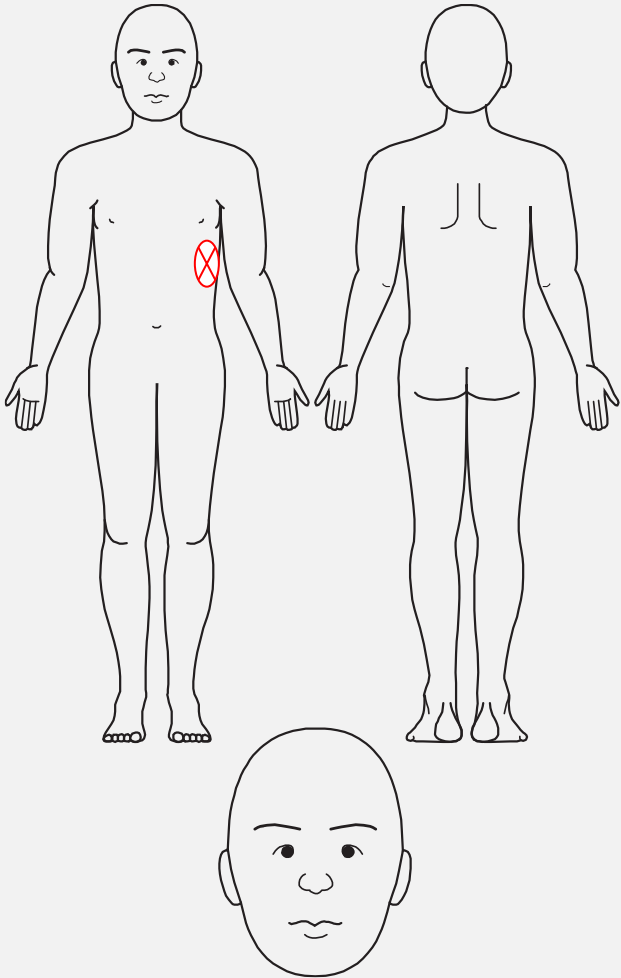
Ted Bundaberg – PEA (Chest Stabbing) – Emergency Department

TYPE OF SIMULATION	Immersive
TARGET AUDIENCE	<ul style="list-style-type: none">• Medical staff• Nursing staff• Allied health staff
SCENARIO OVERVIEW	19 y/o male, patient brought in by friends, presents to ED with a knife embedded into his chest at the left mid axilla following an altercation. Patient develops a PEA arrest and participants are expected to provide treatment using the HOTT algorithm, as well as CRM principles.
LEARNING OUTCOMES	<p>By the end of the scenario the learners should:</p> <ul style="list-style-type: none">• Follow the ANZCOR ALS algorithm utilizing the principles of crisis resource management• Gain an awareness of the ANZCOR trauma guidelines
APPROXIMATE RUN TIME	30 mins including debrief

SET UP AND RESOURCES REQUIREMENTS

HUMAN RESOURCES	
FACULTY	1 x faculty to operate manikin and debrief
SIMULATION COORDINATORS	1 x to play confederate role
CONFEDERATES	Junior nurse
OTHER	

PHYSICAL RESOURCES	
ROOM SET UP	Emergency Department
SIMULATOR/S	ALS Advanced
SIMULATOR/S SET UP	Patient in civilian clothes with knife embedded in chest
CLINICAL EQUIPMENT	Emergency trolley with defibrillator USS/ Fast scan available ABG tubes and forms Chest drain equipment Chest X ray
ACCESS	1 x IV access with N/S running 1 x No IV sticker insitu
ADDITIONAL PROPS	Knife moulage – coban to chest of manikin
OTHER	Blood products

INJURIES / MOULAGE	
TORSO Knife embedded	

HANDOVER CARD / PATIENT DETAILS	
NAME: Ted Bundaberg	AGE / SEX / WEIGHT: Age: 19 Sex: Male Weight: 80 kg
ALLERGIES: KNDA	MEDICATIONS: Nil
MEDICAL / SURGICAL HISTORY: Unknown	SOCIAL HISTORY / EMPLOYMENT: Unknown

START - 5 MINS

STATE ONE						
Initial assessment						
VITAL SIGNS		SCRIPT		DETAILS	EXPECTED ACTIONS	
ECG	ST	Handover	This is Ted, he was involved in an altercation and was stabbed in the chest. He only reported one wound and the knife is still in situ.	Initially stable until the team arrives. <u>Trending</u> Start deteriorating BP to state 2. Pt is developing cardiac tamponade, tension pneumothorax on left side.	<div><input type="checkbox"/> Call for help</div> <div><input type="checkbox"/> Receive handover</div> <div><input type="checkbox"/> Assess patient</div> <div><input type="checkbox"/> Assess airway / breathing</div> <div><input type="checkbox"/> Monitoring – ECG, SPO2, BP</div> <div><input type="checkbox"/> Obtain IV access – fluid resuscitation 20ml/kg</div> <div><input type="checkbox"/> Call for fast track to surgery</div>	
HR	105					
SPO ₂	97					
BP/ART	100/73					
RR	17	Patient	Groaning but responsive to pain, finding it difficult to breathe properly			
CVP	N/A					
TEMP	36.4					
CO ₂	40					
BSL	5					
GCS	13					
V, M, E						
Other						

STATE TWO						
Recognition and treatment of PEA arrest						
5 MINS – 15 MINS	VITAL SIGNS		SCRIPT		DETAILS	EXPECTED ACTIONS
	ECG	PEA	Patient	Ted becomes unresponsive	<ul style="list-style-type: none"> Cardiac arrest due to tamponade / tension pneumo <u>Trending</u> <ul style="list-style-type: none"> If knife removed patient develops asystole 	<input type="checkbox"/> Commence BLS <input type="checkbox"/> Follow ALS Algorithm and/or trauma arrest guideline Traumatic chest injury (HOTT) <input type="checkbox"/> Hypovolaemic – commence IVT/blood products <input type="checkbox"/> 100% O2 – 15LM – bvm <input type="checkbox"/> Tension pneumothorax – decompress on left side. <input type="checkbox"/> Cardiac tamponade – call for surgery or anyone who can perform pericardiocentesis or thoracotomy <input type="checkbox"/> Organise referral / retrieval as appropriate <input type="checkbox"/> Teamwork and CRM principles
	HR	105				
	SPO ₂	Nil reading				
	BP/ART	Nil				
	RR	Nil				
	CVP	N/A				
	TEMP	36.0				
	CO ₂	N/A				
	BSL	5				
	GCS V, M, E	3				
	Other					

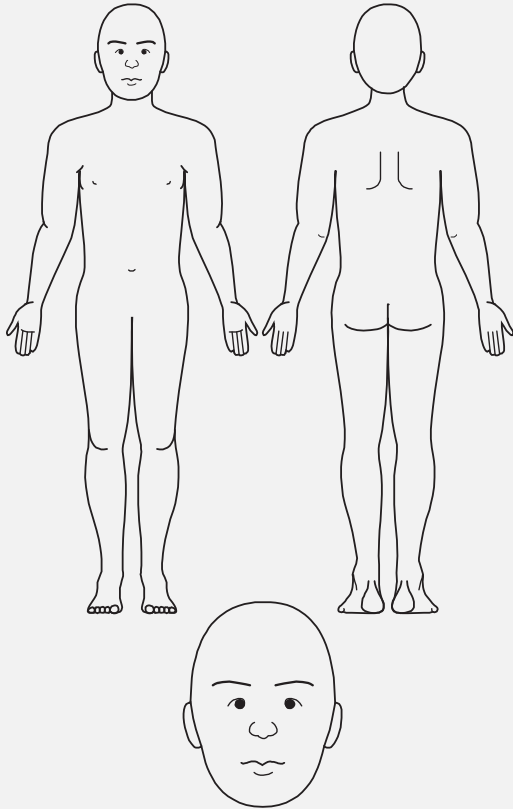
Phil Hardiman – PEA (Blunt Trauma: Tension & Surgical Abdomen) – Emergency Department

TYPE OF SIMULATION	Immersive
TARGET AUDIENCE	<ul style="list-style-type: none">• Medical staff• Nursing staff• Allied health staff
SCENARIO OVERVIEW	38 yr old male Phil Hardiman brought into ED by friends who appear quite drunk saying that he fell off the back of a ute. His friends place him on a bed and leave because they are afraid that the Police will be called. Phil has torn clothing and minor stains but no glaringly obvious injury (Acute Abdomen/ Tension Pneumothorax). Phil proceeds to PEA arrest. Responds to ALS measures CPR and fluid boluses.
LEARNING OUTCOMES	<p>By the end of the scenario the learners should:</p> <ul style="list-style-type: none">• Follow the ANZCOR ALS algorithm utilizing the principles of crisis resource management• Gain an awareness of the ANZCOR trauma guidelines
APPROXIMATE RUN TIME	30 mins including debrief

SET UP AND RESOURCES REQUIREMENTS

HUMAN RESOURCES	
FACULTY	1 x faculty to operate manikin and debrief
SIMULATION COORDINATORS	1 x to play confederate role
CONFEDERATES	Junior nurse
OTHER	

PHYSICAL RESOURCES	
ROOM SET UP	Resus bay in ED
SIMULATOR/S	ALS Advanced
SIMULATOR/S SET UP	Pt in bed, spontaneous breathing in street clothes
CLINICAL EQUIPMENT	Emergency trolley with defibrillator Fast scan accessible
ACCESS	2 x IV access: 1 with no IV sticker in situ 1 x 18-gauge IV access available
ADDITIONAL PROPS	Moulage – make-up wheel
OTHER	

INJURIES / MOULAGE		HANDOVER CARD / PATIENT DETAILS	
TORSO Bruising around right side of chest and abdomen		NAME: Phil Hardiman	AGE / SEX / WEIGHT: Age: 38 Sex: Male Weight: 90 kg
		ALLERGIES: KNDA	MEDICATIONS: Nil
		MEDICAL / SURGICAL HISTORY: Nil	SOCIAL HISTORY / EMPLOYMENT: Fencing contractor

START - 2 MINS

STATE ONE					
Initial handover and assessment					
VITAL SIGNS		SCRIPT		DETAILS	EXPECTED ACTIONS
ECG	ST	Handover	This is Harry, he was dropped off by his friends after falling off the back of a ute that was travelling at about 50kph. Impacted on his R side chest and abdo. Complaining shortness of breath. Pt denies head hit / no c-spine tenderness.	A – Patent	<div><input type="checkbox"/> DRSABC</div> <div><input type="checkbox"/> Apply oxygen</div> <div><input type="checkbox"/> Apply soft collar</div> <div><input type="checkbox"/> Perform primary survey</div> <div><input type="checkbox"/> Identify tension pneumothorax and perform needle decompression</div>
HR	150			B – Unilateral chest rise, decrease air entry on left side	
SPO ₂	89%			C – Pale, weak peripheral pulses	
BP/ART	95/50			D – Alert, pupils 3 ERL	
RR	36			Post decompression AE improves and SpO2 improves.	
CVP	N/A	Patient	<div><div>• Harry moans in pain. I can't breathe!</div><div>• My stomach hurts so much.</div></div>	<u>Trending</u>	
TEMP	36.0			<div><div>• Slowly patient becomes less response with decrease BP and RR</div><div>• Phil complains of abdominal pain and then moans and becomes unconscious (progress to state 2).</div></div>	
CO ₂	N/A				
BSL	8.8				
GCS E, V, M	15				
Other	CRT 3 sec				

STATE TWO						
Cardiac arrest						
2 MINS – 8 MINS	VITAL SIGNS		SCRIPT		DETAILS	EXPECTED ACTIONS
	ECG	PEA	Faculty	Abdomen distended and firm to touch	Patient goes into hypovolemic arrest	<input type="checkbox"/> Recognition of PEA Participant may follow the ANZCOR ALS guidelines or the trauma guidelines
	HR	Nil			A – Able to be ventilated with BVM, spinal precautions remain	<input type="checkbox"/> Commence chest compressions
	SPO ₂	Not readable			B – No breathing. No SpO ₂ trace	<input type="checkbox"/> Follow ALS algorithm 1 st loop
	BP/ART	Not readable			C – No cardiac output	<input type="checkbox"/> Attach defibrillator and assess rhythm immediately with minimal interruptions to CPR.
	RR	Nil			D – Nil response	<input type="checkbox"/> Charge defib to 200 J and check rhythm – Recognise non-shockable rhythm (PEA) – dump shock and recommence CPR for 2 minutes.
	CVP	N/A			<u>Trending</u>	<input type="checkbox"/> Administer Adrenaline 1 mg
	TEMP	36.0			After 3 loops of CPR, 2 doses of adrenaline and administration of adequate IVT, patient regains cardiac output (move to state 3).	<input type="checkbox"/> Find and treat reversible causes
	CO ₂	20				<input type="checkbox"/> Hypovolaemia – will require fluid bolus
	BSL	3.8				<input type="checkbox"/> Call for help – surgical, OT etc.
	GCS V, M, E	3				
	Other					

STATE THREE						
ROSC						
8 MINS – 15 MINS	VITAL SIGNS		SCRIPT		DETAILS	EXPECTED ACTIONS
	ECG	ST	Patient	Pt to groan or cough	<ul style="list-style-type: none"> Post ROSC cares 	<input type="checkbox"/> Post resuscitation care <input type="checkbox"/> Prepare for OT <input type="checkbox"/> Organise definitive treatment End of scenario
	HR	120				
	SPO ₂	96				
	BP/ART	70/52				
	RR	12				
	CVP	N/A				
	TEMP	36.0				
	CO ₂					
	BSL	3.8				
	GCS	11				
	V, M, E					
	Other					