



TRAINING SIM SCENARIO  
“PLEASE RESUSCITATE THIS  
45 YEAR OLD PATIENT WITH  
REFRACTORY VF ARREST” –  
LOW FLOW TIME 35  
MINUTES ON ARRIVAL TO  
ED

Mr Smith  
45 years old  
PMHX – Well  
Collapse at supermarket /  
failed AED, and 4 shocks /  
LUCAS applied

Progress:

Time of arrest 0:00, witnessed, bystander CPR

Ambulance arrival 0:07, effective CPR witnessed, no AED

Attache pades 0:09 - shock x1

ALS management x 3 COACHed, adrenaline

LUCAS deployed 15 mins

Leave scene 23 mins

Expected arrival 35 mins post arrest

# ECMO Sim progress

Handover information

Handover for radio and in person:

RADIO CALL - Start by calling bat phone on 02 88907550, then radio

Start with “exercise, exercise, exercise”

This is car XXX coming to you with:

45 year old male patient in CARDIAC ARREST. He is a potential RESET study patient.

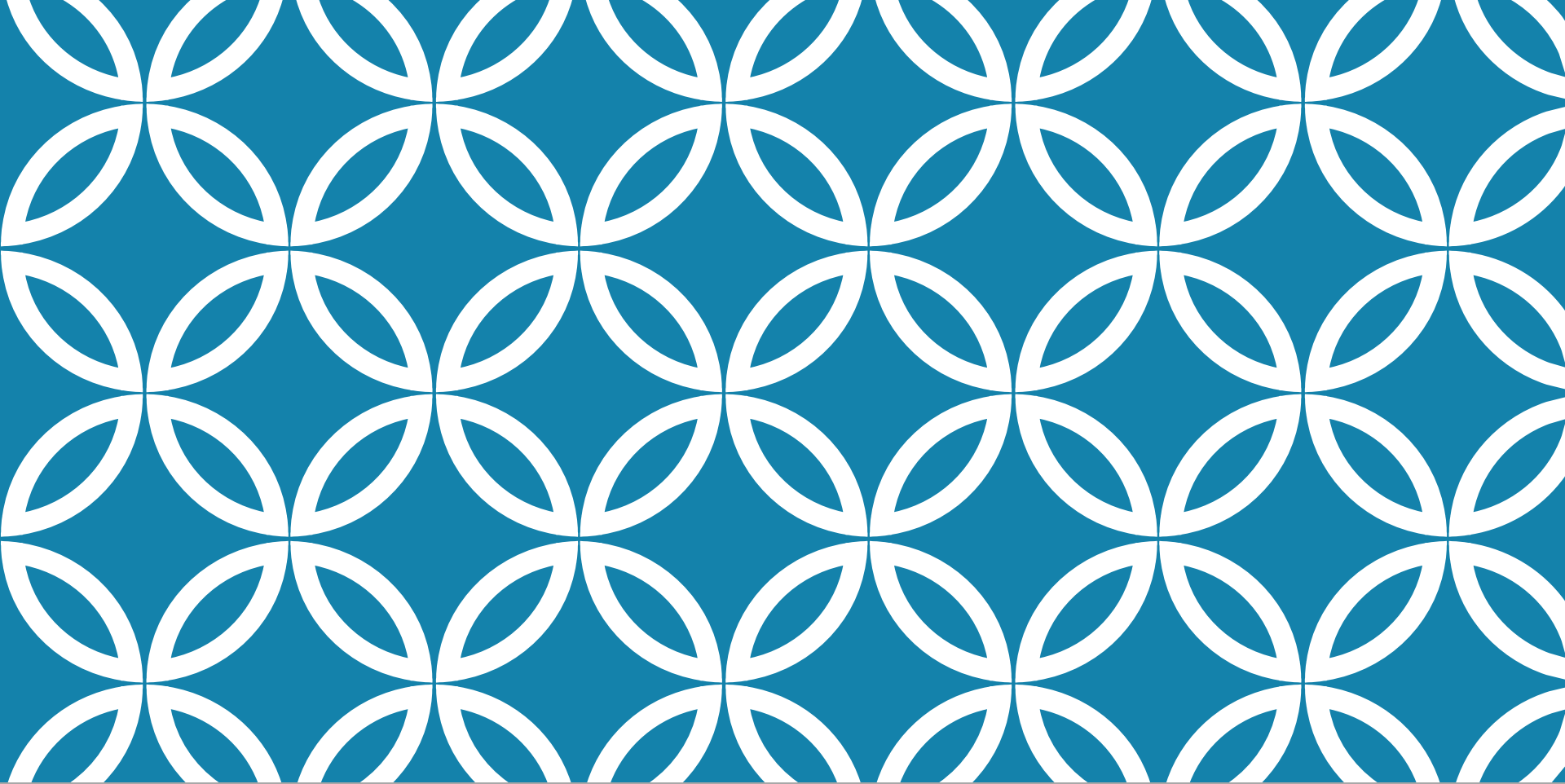
Otherwise well man, witnessed collapse 25 minutes ago.

Currently pulseless, on lucas machine, cannulated, IGEL size 4 deployed

Etco2 17 / VF

Shocks x 6 and adrenaline 2mg IV and amiodarone 300mg IV

ECMO Sim Information for  
CDA



**Westmead ED**  
**ECMO ALS**  
**roles and map**  
**of team**

**SIM ECMO**

Roles Cards and  
Positions

## **ED ALS TEAM**

**Medical Team leader  
(ED Specialist or Fellow)**

Suggested Roles:

- Remain Hands off
- Work with Nurse T/L
- Allocate Roles
- Drive Resuscitation in terms of Disposition/Diagnosis

## **ED ALS TEAM**

**Airway Doctor  
(ED Specialist or Reg)**

Suggested Roles:

- Hands on, (?PPE prn)
- Primary Survey
- Work with ED Nurses
- Intubate
- Tie Tube
- Connect to EtCO2
- Ventilator Mx

## **ED ALS TEAM**

**Circulation Doctor  
(ED Specialist or Reg)**

Suggested Roles:

- Stand right side of room
- Large IV line and VBG
- Radial Arterial Line
- Left IJ central line as required by ECMO team
- Ask T/L for role if above complete

## **ED ALS TEAM**

**Nursing Team leader**

Suggested Roles:

- Remain Hands off
- Work with Medical T/L
- Allocate resources
- Drive Resuscitation in terms of logistics
- Keep noise down

## **ED ALS TEAM**

**Crowd Control Doctor**

Suggested Roles:

- Remain Hands off
- Prevent Chaos
- Ensure safety of Team(s)
- Actively Prevent Noise from Observers/Outside
- Assist with Calls (cardio, ICU) numbers are PTO

## **ED ALS TEAM**

**Nursing Scout Nurse /  
Runner**

Suggested Roles:

- Get non-ALS drugs ready
- Set up procedure trolleys outside room
- Get other equipment PRN
- Assist Nursing T/L and inside nurses with tasks

# **ED ALS TEAM**

## **Nursing Airway**

### **Suggested Roles:**

- Flexible Role
- Work with Nurse T/L
- Provide Assistance with Airway as required
- ALS drugs
- Ask ECMO team when drugs are required

# **ED ALS TEAM**

## **Nursing Defibrillation**

### **Suggested Roles:**

- Operate Defib / COACH
- Operate LUCAS
- Attach Monitoring
- Keep Time
- Connect Ventilator

# **PERFUSIONIST**

### **Suggested Roles:**

- Ensures pump primed and ready
- Passes lines once cannulation successful
- Manages ECMO

# **ECMO**

## **Cannulation (x2)**

### **Suggested Roles:**

- Apply STOP criteria checklist and decide to initiate ECMO
- Cannulate patient
- Instruct Perfusionist and Scrub RN
- Seek Resources from T/L

# **TOE Doctor**

### **Suggested Roles:**

- Source TOE from theatre
- Support airway team, ensure airway secure
- Assessment of:
  - LUCAS position
  - Assess causes (Dissection, Tamponade, Volume)
  - Catheter position

# **Scrub RN**

### **Suggested Roles:**

- Shave Groin
- Prep Groin
- Assists in Cannulation
- Assists Interventional Cardiologists PRN
- Ask T/L for further jobs

