

## Instructor's Guide

### Scenario: Arterial Decannulation

Initial Set-Up

Action: **Refer to video for syringe set up under manikin. Gauze at cannulation site**

History: Day 1 for a 2 month old who had a witnessed arrest on the floor. Visitor with many dangling pieces of jewelry just left the bedside after giving the patient a kiss.

ECMO Mode: VA

Patient: (hypovolemia)

Temp	37	
HR	140	50
BP	68/44 (52)	44/20 (28)
CVP	4	0
Saturation	96%	38%

CDI 7.45 / 37 / 318 / 24 / BE 2  
 H/H 35% / 12  
 SvO2 43%

**Fake circuit pressures with simulator cables (see suggested pressures below) – cause venous chirp alarm**

Available data: **(If participant asks this data is available)**

Physical Exam:

Quiet. No spontaneous movements. Mottled. Cyanotic. BS equal. Heart sounds normal. Abdomen soft. Peripheral refill delayed. Extremities cool

Pressures	Venous	- 15
	Pre-memb	160 to 100
	Post-memb	154 to 95

Blood gases: Blood gas machine in calibration mode. Results pending. Color blood in circuit tubing – color differentiation seen

CXR: ordered, but tech is busy and not answering their page

Chem: Previous labs normal. Sample sent to lab. Results pending.

Heme: Previous labs normal. Sample sent to lab. Results pending.

ACT: 180 sec

**Student assessment and Key Concepts: Arterial Decannulation**

Time to accomplish: 60 seconds

Desired Responses

## Technical

- Give volume
- Circuit check
- Apply pressure to site
- Recognizes bleeding at cannulation site
- Clamps circuit

## Cognitive

- Give volume
- Opens bridge to recirculate
- Verbalizes arterial versus venous Decannulation
- Resuscitation of patient

## Communication

- Call for help
- Emergency vent settings
- Call surgeon

## Discouraged interventions

- Attempts to hand crank

**COMMENTS**