

## SCENARIO

Maternal Collapse – Uterine Rupture

## LEARNING OBJECTIVES

Effective team working and communication

Use of SBAR to communicate

Coordinating resuscitation and preparation for theatre

Recognition and treatment of uterine rupture maternal collapse and perimortem LSCS

## EQUIPMENT LIST

Noelle/ Baby Hal	Peri-mortem section kit
Arrest trolley	Blood Bottles/request forms
Fluids / giving sets	PPH emergency box
ODP grab bag plus IO needle	Monitor for manikin
Neonatal Resus Bag	Phone

## PERSONNEL

MINIMUM: 6  
ROLES:  
Obstetrics 2  
Anaesthetics 2  
Paeds 1-2  
Midwives 1-2

## FACULTY

MINIMUM: 5  
Facilitator  
Observer x2  
Debrief Lead  
Scribe

## TIME REQUIRMENTS

TOTAL 1.5hours

Set up: 30 mins	Simulation: 20mins
Pre Brief: 10 mins	Debrief: 30mins

## INFORMATION TO CANDIDATE

### PATIENT DETAILS

Name:	Lauren Bolder	Phx: on Aspirin
Age:	41yrs	Allergies: Nil
Weight/BMI:	49kg/18	Rhesus +ve

### SCENARIO BACKGROUND

Location: Triage/Labour Ward

Situation: Ambulance call centre informed LW they are transferring a patient 35/40 IVF pregnancy abdominal pain and PV bleeding.

G3P2 2 previous LSCS (1<sup>st</sup> for breech / 2<sup>nd</sup> for FTP)  
Well during pregnancy  
Started contracting 12pm today with mild red PV loss  
Developed into continuous abdominal pain  
Associated haematuria

Task: She has arrived to triage shocked, pale and unresponsive  
Please assess and manage the patient

### RCOG CURRICULUM MAPPING

Module 10: Management of labour Ward  
Management of Obstetric Antepartum Haemorrhage  
Maternal Collapse  
Liaise with Staff

Module 11: Management of Delivery  
Uterine Rupture a) complicated uterine rupture

INFORMATION FOR ROLEPLAYERS

BACKGROUND

N/A patient unresponsive

RESPONSES TO QUESTIONS

**INFORMATION TO FACILITATOR****SCENARIO DIRECTION**

Identification of collapsed patient

Emergency Obstetric Crash call 2222 -Obstetric team, Neonatal team, consultant anaesthetist and obstetrician.

**STAGE 1**

ABCDE assessment and management of hypovolaemic shock on LW

Unable to obtain IV access to volume resuscitate and treat tachycardia /hypotension establish access via intraosseous access

Consider Diagnosis

**STAGE 2**

Recognition of PEA arrest, start CPR with Uterine displacement, call for theatre team Peri-mortem section IN THE ROOM, uterine rupture extending into the bladder. 3L haemoperitonuem

Activate Major Obstetric Haemorrhage protocol, run through 4H and 4 T's

2x cycle CPR then output returns

**STAGE 3**

Baby delivered pale and flat no breathing, pulse < 60, CPR commenced post assessment. Arrange for transfer to theatre for completion of peri-mortem LSCS.

**STAGE 4**

Ensure continued volume and blood resuscitation via IO access.

Intubate if not already (radically reduced induction drug doses if tone / movement), continued resus with fluid / vasopressors / inotropes establish consultant anaesthetic and obstetric presence, SBAR handover.

Haemorrhage control medical /surgical, complete LSCS- +/-emergency hysterectomy, uterotonics

Invasive monitoring, stabilise. Arrange for post arrest management: critical care admission, cooling, bloods, ABG. Set up sedation and arrange for transport team.

## SCENARIO OBSERVATIONS/ RESULTS

	AMBULANCE BASELINE	STAGE 1- post initial assessment on LW	STAGE 2 PEA Arrest	STAGE 3 Post Perimortem Section	STAGE 4 Transfer to OT>GA complete Section
RR	35	8	0	15 BVM	18 Intubated
chest sound	clear	Shallow	Nil	Equal	Equal
SpO2	92%	90%	70%	95%	97%
HR	140	190	180 PEA	165	115
Heart sound	Normal	Tachy	Absent	Tachy	Normal
BP	80/40	Unrecordable	Unrecordable	75/35	110/60 Adrenaline
Temp	36.5C	36.0C	35.2C	35.1C	35.5
Central CRT	5 secs	8 secs	>8secs	7secs	5secs
GCS/AVPU	P	U	U	U	U

Venous Gas: Hb 60g/L pH 7.15 PCo2 74mmHg

## SCENARIO DEBRIEF

## TOPICS TO DISCUSS

Effectiveness of communication and team working- right personnel and right level of expertise.

SBAR in handover

Early Neonatal involvement

Recognition of peri arrest state

Physiological differences in pregnancy and their effect on resuscitation.

Initiation of ABCDE assessment

Coordination of initial resuscitation

Intra-osseous access as a form of access for volume resuscitation

Recognition of PEA arrest, differential diagnosis 4H 4Ts

Massive Obstetric Haemorrhage protocol activation and peri-mortem section  
Transfer to theatre to complete section.

Understand the nature of uterine rupture management in a patient who is of low body weight and impact on circulating blood volume

## REFERENCES

- RCOG Green-top Guideline Antepartum Haemorrhage No. 63 Nov 2011  
RCOG Green-top Guideline Maternal Collapse in Pregnancy and the Puerperium No. 56 Jan 2011