

SCENARIO

Maternal Collapse- Amniotic Fluid Embolism

LEARNING OBJECTIVES

Demonstrate team working and communication skills

Use SBAR handover

Recognition of the collapsed patient

Initiate ABCDE assessment and resuscitation

Be aware of the mortality and morbidity associated with AFE for mother

and baby

Anticipate the AFE sequel – coagulopathy/ obstetric haemorrhage

EQUIPMENT LIST

Noelle/ Baby Hal Peri-mortem LSCS kit
Arrest trolley Blood Bottles/request forms

Fluids / giving sets Phone

Monitor for manikin Neonatal Resus Bag

PERSONNEL FACULTY

MINIMUM: 6 MINIMUM: 5

ROLES: Facilitator (act as first MW)

Obstetrics 2 Observer x2
Anaesthetics 2 Debrief Lead

Paeds 1-2 Scribe

Midwives 1-2

TIME REQUIRMENTS TOTAL 1.5hours

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



INFORMATION TO CANDIDATE

PATIENT DETAILS

Name: Anita Singh Phx: Gestational Diabetes

Age: 40yrs Allergies: nil Weight/BMI: 55kg/24 Rhesus +ve

SCENARIO BACKGROUND

Location: Labour Ward

Situation: You are crash bleeped to LW

Anita is G2P1 40+10 gestation in spontaneous labour The midwife has just perfomed an ARM for delayed

progress in second stage

She has now become unresponsive, gasping and cyanosed.

Task: Please assess the patient

RCOG CURRICULUM MAPPING

Module: 10 Management of labour Ward

Maternal Collapse Liaise with Staff



INFORMATION FOR ROLEPLAYERS BACKGROUND NA Patient unresponsive

RESPONSES TO QUESTIONS

INFORMATION TO FACILITATOR

SCENARIO DIRECTION

Assessment and ABCDE resuscitation

Confirmation Obstetric Emergency 2222

Confirm Obs/Anaesthetic Consultants are informed to attend

(STAGE 1) 02 assist ventilation, IV acess, 1L Hartmanns stat, vasopressors, left lateral

Consider differential dianosis? Amniotic fluid embolism, pulmonary embolism, air embolism.

Decison to intubate room vs OT

(STAGE 2) She has a PEA arrest on induction

Commence CPR and ALS

After the first 3 minutes and 1mg adrenaline there is no return of circulation Consider Perimortem section.

(STAGE 4) Perimortem section performed in room at 5 minutes. After a second cycle of 3 minutes a pulse felt. Major Obstetric Haemorrhage Protocol to be initiated

Adress 4Hs 4Ts

Ongoing management

(STAGE 4) Further resuscitation , stabilisation, investigations, invasive monitoring and arrangement of T/F Ot to complete section and to Intensive Care

SCENARIO OBSERVATIONS/ RESULTS

| | BASELINE | STAGE 1 | STAGE 2 | STAGE 3 | STAGE 4 |
|-------------|------------|---------------|--------------|-----------|-------------|
| | Initial | Post Initial | PEA arrest | Post Peri | Transfer to |
| | Assessment | Resuscitation | | Mortem | OT>GA |
| | LW | | | section | complete |
| | | | | | Section |
| RR | 8 | 8 | 0 | 15 BVM | 18 |
| | | | | | Intubated |
| chest sound | Shallow | Shallow | Nil | Equal | Equal |
| SpO2 | 75% | 80% | 70% | 95% | 97% |
| HR | 155 | 130 | 50 PEA | 155 | 115 |
| Heart sound | Tachy | Tachy | Absent | Tachy | Normal |
| BP | 60/30 | 85/40 | Unrecordable | 65/30 | 110/60 |
| | | | | | Adrenaline |
| Temp | 36.0C | 36.0C | 35.2C | 35.1C | 35.5 |
| Central CRT | 8 secs | 8 secs | >8secs | 7secs | 5secs |
| GCS/AVPU | U | 3 | U | U | U |

Arterial Gas/Lactate:



SCENARIO DEBRIEF

TOPICS TO DISCUSS

Team work and communication under stressful clinical situation Pathophysiology behind Amniotic fluid embolism Complications of amniotic fluid embolism DIC/coagulopathy/Obstetric Haemorrhage

Neonatal/Maternal mortality from AFE

How to diagnose and how clinically it differs from pulmonary embolus/analphylaxis

REFERENCES

D.J. Tuffnell UK Amniotic Fluid Embolism Register BJOG: an International Journal of Obstetrics and Gynaecology, December 2005, Vol. 112, pp. 1625–1629

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