

## SCENARIO

Fetal Blood Sample

## LEARNING OBJECTIVES

Aware of indications and contraindications for FBS  
Become familiar with FBS kit and how to assemble instruments  
Safely perform procedure with the correct stepwise approach

## EQUIPMENT LIST

FBS kit	PROMPT pelvis/ model pelvis
Instructions for model	
Video link	

## PERSONNEL

MINIMUM: 1  
Obstetric Trainee

## FACULTY

MINIMUM: 1  
Facilitator

## TIME REQUIRMENTS

30mins

**INFORMATION TO CANDIDATE****PATIENT DETAILS**

Name: Mrs Broadbent

Phx: nil

Age: 32yrs

Allergies: nil

Weight/BMI: 90kgs/33

**SCENARIO BACKGROUND**

Location: Labour Ward

Situation:

You have reviewed Mrs Broadbent in room 4 on labour ward. She has had a low risk pregnancy and is in spontaneous labour. You have categorised her CTG as abnormal for the past 45mins. Her examination findings are; VE- 6cm dilated, presenting part at spines. OT position with 1+ caput and clear liquor, she has an epidural and is contracting 4/10 having made good progress in the first stage on labour.

Task:

Perform an FBS.

**RCOG CURRICULUM MAPPING**

Module 10 Management of Labour

Perform fetal blood sampling

Manage fetal acidemia

INFORMATION FOR ROLEPLAYERS

BACKGROUND

NA- facilitator only

RESPONSES TO QUESTIONS

## INFORMATION TO FACILITATOR

### SCENARIO DIRECTION

Candidate given history:

Mrs Broadbent is in room 4 on labour ward. She has had a low risk pregnancy and is in spontaneous labour. You have categorised her CTG as abnormal for the past 45mins. Her examination findings are; VE- 6cm dilated, presenting part at spines. OT position with 1+ caput and clear liquor, she has an epidural and is contracting 4/10 having made good progress in the first stage on labour. Your plan is to perform an FBS

Observe trainee performing an FBS on model  
Discuss the three results given below:

### SCENARIO OBSERVATIONS/ RESULTS

FBS Result:

**Example One:**

	pH	BE
<b>Sample One</b>	7.28	-4.3
<b>Sample Two</b>	7.31	-5.1

**Example Two:**

	pH	BE
<b>Sample One</b>	7.22	-6.5
<b>Sample Two</b>	7.23	-6.9

**Example Three:**

	pH	BE
<b>Sample One</b>	7.19	-8.6
<b>Sample Two</b>	7.16	-9.1

**SCENARIO DEBRIEF****TOPICS TO DISCUSS**

Verbal Consent

Contraindications to FBS

Assemble Equipment

Confirm FBS machine working/ Ensure staff available to take sample

Communication with Team/OT

Position of women –left lateral VS Lithotomy

Technical Aspects-

    Aseptic Technique

    Insert lubricated amnioscope directed posteriorly then swept anteriorly

    Remove obturator and attach light source

    Clear view of fetal scalp obtained

    Clean scalp with swap

    Spray Ethyl Chloride

    Apply thin layer of paraffin

    Insert guarded blade – do not stroke

    Collect blood droplet into capillary tube x2

    Apply pressure with cotton wool

    Reposition mother

Trouble shooting

Explain results and plan

Review RCOG Video: [https://youtu.be/hxy0\\_Sz6pXQ](https://youtu.be/hxy0_Sz6pXQ)

**REFERENCES**

National Institute of Health and Clinical Excellence. *Intrapartum care. Care of Healthy women and their babies during Childbirth*. NICE Clinical Guideline (CG190) 2014

RCOG. *Fetal scalp blood sampling and Ph estimation StratOG Technical Skills module*