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

SCENARIO
Fetal Blood Sample

EQUIPMENT LIST
FBS kit
Instructions for model
Video link

PROMPT pelvis/ model pelvis

PERSONNEL
MINIMUM: 1
Obstetric Trainee

FACULTY
MINIMUM: 1
Facilitator

TIME REQUIREMENTS
30mins
INFORMATION TO CANDIDATE

PATIENT DETAILS
Name: Mrs Broadbent
Age: 32yrs
Weight/BMI: 90kgs/33
Phx: nil
Allergies: nil

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:

<table>
<thead>
<tr>
<th>Sample</th>
<th>pH</th>
<th>BE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sample One</td>
<td>7.28</td>
<td>-4.3</td>
</tr>
<tr>
<td>Sample Two</td>
<td>7.31</td>
<td>-5.1</td>
</tr>
</tbody>
</table>

Example Two:

<table>
<thead>
<tr>
<th>Sample</th>
<th>pH</th>
<th>BE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sample One</td>
<td>7.22</td>
<td>-6.5</td>
</tr>
<tr>
<td>Sample Two</td>
<td>7.23</td>
<td>-6.9</td>
</tr>
</tbody>
</table>

Example Three:

<table>
<thead>
<tr>
<th>Sample</th>
<th>pH</th>
<th>BE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sample One</td>
<td>7.19</td>
<td>-8.6</td>
</tr>
<tr>
<td>Sample Two</td>
<td>7.16</td>
<td>-9.1</td>
</tr>
</tbody>
</table>
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

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