

Unit 86: Preparing Equipment for Ambulatory 24 Hour Monitoring, including pH and Combined pH/Impedance Studies

Level:	4
Unit type:	Optional (Gastrointestinal Physiology)
Credit value:	6
Guided learning hours:	52

Unit summary

In this unit, you will develop the understanding and skills needed to prepare equipment for ambulatory pH and impedance tests. In addition, you will be able to undertake routine maintenance and calibration procedures on the equipment used. You will be expected to build your patient-centred professional practice and practise safely in the workplace, seeking advice and referring as appropriate to your scope of practice.

Unit assessment requirements

There are no specific assessment requirements for this unit, however **learners completing this unit must also complete *Unit 81 Introduction to Gastrointestinal Physiology***. Please refer to the assessment strategy in *Annexe B*.

Additional information

AC1.1 includes:

- standard pH
- combined pH/impedance
- telemetric pH bile reflux monitoring.

AC1.2 includes:

- the impact of incorrect calibration on the individual, the investigation, and the results
- identification of common faults and remedial action required
- safety testing
- routine maintenance in accordance with the manufacturer's recommendations.

AC1.4 includes:

- typical gastro-oesophageal symptoms:

- heartburn
- regurgitation
- chest discomfort
- cough
- atypical:
 - hoarseness
 - tooth wear
 - dysphonia
 - aerophagia.

AC2.1 includes the:

- potential risks of using defective equipment and measures to resolve problems
- factors influencing the choice of equipment for the investigation.

AC2.2 includes:

- the requirements for the investigation environment
- ensuring that all consumables are available
- the principles of measurement for the range of equipment used
- identifying common faults and taking remedial action
- explaining the measurements that are required pre-investigation
- explaining the impact of incorrect calibration on the individual, the investigation and the results.

AC2.3 includes:

- the Standard Operating Procedure for the equipment used
- checking that equipment complies with all current safety standards, e.g., biomedical engineering/clinical engineering (BME) commissioning number
- checking that equipment is safety-tested and regularly maintained in accordance with the manufacturer's recommendations
- withdrawing externally damaged recorders from individual use and completing required documentation
- selecting the correct catheter
- using appropriate infection control and hand-washing methods
- checking use-by dates and the pH of the buffer solutions
- using single-use catheters according to the manufacturer's guidance.

AC3.2 includes:

- disposing of catheters appropriately
- cleaning and disinfecting equipment appropriately.

Learning outcomes and assessment criteria

To pass this unit, learners need to demonstrate that they can meet all the learning outcomes for the unit. The assessment criteria outline the requirements that the learner is expected to meet **in own area of work and in accordance with Standard Operating Procedures (SOPs)** to achieve the learning outcomes and the unit.

Learning outcomes		Assessment criteria		Evidence type	Portfolio reference	Date
1	Understand the underpinning principles of ambulatory 24-hour pH monitoring and impedance studies	1.1	Explain the principles of measurement for the range of equipment used			
		1.2	Explain the purpose of equipment calibration			
		1.3	Explain the factors influencing the choice of equipment for each investigation			
		1.4	Know the indications and contraindications for each investigation			
2	Be able to prepare equipment and environment for ambulatory 24-hour pH monitoring and impedance studies	2.1	Demonstrate the ability to select suitable equipment for the investigation in accordance with the requirements of the test			
		2.2	Prepare the environment and equipment for investigations			
		2.3	Perform the calibration of equipment at the beginning of every test according to the manufacturer's instructions			

Learning outcomes		Assessment criteria		Evidence type	Portfolio reference	Date
3	Be able to clean equipment, and leave the room in a suitable condition for reuse	3.1	Demonstrate the ability to decontaminate all non-single use only equipment, dispose of any single-use items appropriately, restock consumables and leave room in a suitable condition			

Learner name: _____

Date: _____

Learner signature: _____

Date: _____

Assessor signature: _____

Date: _____

Internal verifier signature: _____

Date: _____

(if sampled)