

Intestinal Motility - Frog Oesophagus Data

Experiment 19 - Practical Notes

Name: _____ Roll no.: _____ Date: _____

Teaching mode: use approved simulation, prepared demonstration records or supplied experimental data.
No live-animal dosing, surgery or challenge is prescribed in these notes.

Aim

To interpret the supplied oesophageal motility demonstration

Principle

The assigned motility record represents a defined smooth-muscle or transport endpoint. Movement rate and contractile force are not the same quantity.

Requirements

- Instructor-provided labelled diagrams, traces or data for this activity.
- Calculator, graph paper or spreadsheet, and the activity record.

Procedure

1. Define the endpoint

Record transit distance/time or assigned trace amplitude and its units or scale definition.

2. Read and compare

Measure the endpoint named in the supplied record, compare control and treatment, and state model limitations.

3. Present the evidence

Create a labelled table or graph with all supplied groups and time points; preserve replicate values.

4. Assess the conclusion

State the direction/magnitude of the observed change, variation and the limitation of the model.

Pharmacology II

Observations and Record

Record item	Entry
Activity / material identifier	_____
Measurement or visible feature	_____
Comparison / calculated outcome	_____
Interpretation and limitation	_____

Worked Example

The numbers below are illustrative; enter your own observations in the record.

- Transport rate = distance / time.
- Example: 12 mm in 4 minutes gives 3 mm/min in the assigned teaching record.

Result

The recorded finding is ____; the supporting observation or calculation is _____. The main limitation is _____.

Precautions

- Use the supplied teaching material; distinguish a measured observation from an assumed value.
- Keep units, axes, labels and measurement conditions consistent.
- Record limitations and seek instructor review before applying a conclusion to a live case.

Viva Questions and Answers**1. What is the measured endpoint?**

Transit distance/time or assigned trace amplitude.

2. What prevents an overstatement?

Use the defined model, valid controls, variation and known confounders; do not generalise beyond the supplied evidence.

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