

Study of Saline Purgative Effect on Frog Intestine

Practical 07 | Pharmacology III

Aim

To study Saline Purgative Effect on Frog Intestine, and interpret the recorded observations.

Principle

- The supplied model illustrates osmotic movement associated with a poorly absorbed solute. Water movement, net fluid change and motility are distinct endpoints.
- This exercise uses a software/video simulation or an instructor-provided dataset.
- A response depends on the model, intervention, controls and observation period; comparisons must use the same endpoint.
- Record only supplied observations. Distinguish illustrative or simulated values from results obtained in an actual study.

Materials and Apparatus

- Assigned software/video, prepared teaching records and completed control/test data.
- Assigned pharmacology simulation/video and completed observation dataset.
- Computer, graphing or calculation software and a structured record sheet.

Method

1. Identify the simulated preparation, control group and response being measured.
2. Record the model settings and treatment labels supplied in the exercise.
3. Review the baseline or control trace before comparing the intervention traces.
4. Read the stated response endpoint using the same definition for every group.
5. Tabulate the completed simulation observations and calculate the assigned comparison.
6. Explain the mechanism, control response and any limitation of the model.

Observation Record

Complete this record using actual laboratory findings or the provided teaching data.

Observation / parameter	Record / finding
Model condition	_____
Initial fluid measure	_____
Final fluid measure	_____
Time	_____
Control change	_____

Calculations and Interpretation

- Net fluid change = final measured fluid quantity - initial quantity.
- Compare with the control over the same observation interval.

Result

Report the supplied simulated response, its defined comparison and the mechanism supported by the model. Label the observations as simulated.

Finding: _____

Conclusion: _____

Precautions

- Keep software units, treatment labels and endpoint definitions consistent.
- Use supplied simulation data and distinguish an illustration from an observed outcome.
- A model demonstrates an experimental principle; it does not establish an individual patient treatment.

Viva Questions

1. Why use a control response?

It separates the intervention effect from baseline variation in the simulated model.

2. Why define the endpoint before comparison?

Changing the endpoint after reviewing results can bias the interpretation.

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