

Antidepressant Activity - Supplied Data

Experiment 16 - 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 compare a supplied behavioural-screen result

Principle

Behavioural-screen endpoints are indirect and can be confounded by general activity; they cannot establish a clinical diagnosis or response by themselves.

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 assigned immobility or behavioural score and its units or scale definition.

2. Read and compare

Compare the predefined score and separate locomotor findings; discuss 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.

Observations and Record

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

Pharmacology II

Worked Example

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

- Difference in group mean = treated mean – control mean.
- Example: means of 80 and 100 assigned score units give a difference of –20 units, with uncertainty still requiring assessment.

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?

Assigned immobility or behavioural score.

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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