

Anti-inflammatory Activity - Supplied Data

Experiment 14 - 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 calculate an endpoint reduction from supplied data

Principle

A defined swelling or inflammatory endpoint can compare groups, with baseline correction and common measurement conditions.

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 baseline-corrected swelling or assigned inflammatory measure and its units or scale definition.

2. Read and compare

Use the matched endpoint and time; distinguish reduction in the model from a general safety or efficacy claim.

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.

- Inhibition (%) = (control change – treated change) / control change × 100.
- Example: control change 0.8 mL-equivalent and treated change 0.4 give 50% inhibition in that dataset.

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?

Baseline-corrected swelling or assigned inflammatory measure.

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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