

## DRUG ALLERGY DIAGNOSIS USING EPICUTANEOUS PATCH TESTS: INSIGHTS FROM A TWO-YEAR RETROSPECTIVE STUDY

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### BACKGROUND AND IMPORTANCE

Patch testing is a key diagnostic tool for delayed cutaneous hypersensitivity (DCH), but its application is limited by the need for individualized preparation, usually compounded in hospital pharmacies. This study aimed to analyze preparation patterns and clinical results of patch tests (PTs).

### AIM AND OBJECTIVES

- 1- To analyze the composition of epicutaneous PTs prepared for the diagnosis of DCH to drugs.
- 2- To identify the most frequently requested drugs to optimise preparation.
- 3- To evaluate patch test outcomes across therapeutic groups.

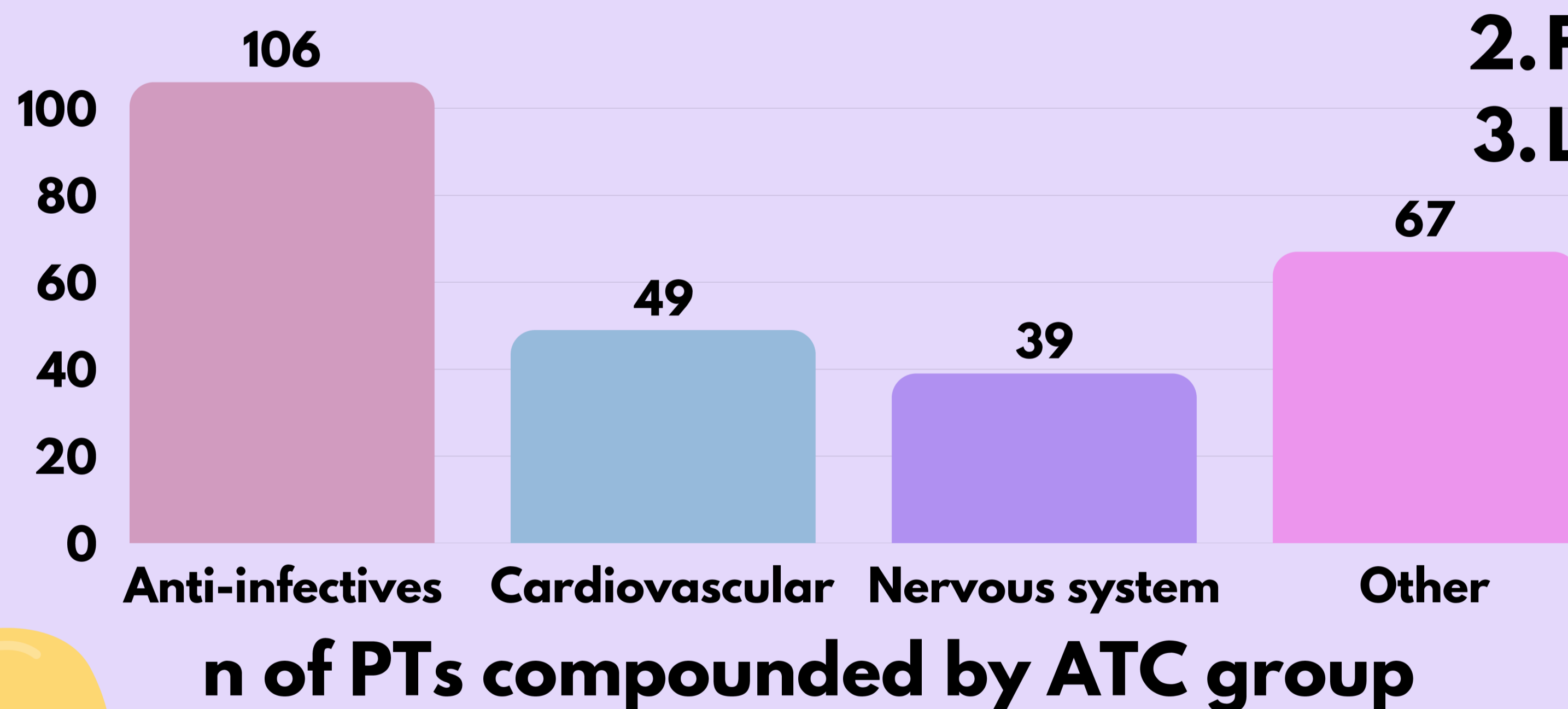
### MATERIALS AND METHODS

Two-year observational, descriptive, and retrospective study (April 2023 – March 2025)

- Variables: demographics (age and sex), data on prepared PTs (preparation date, drug and ATC group) and test results after 96 hours (positive/negative).
- Data were obtained from pharmacy compounding records and electronic medical records and later analyzed using Excel.
- A descriptive statistical analysis was performed.

### RESULTS

261 PTs were compounded for 96 patients (58.3% female, age  $58.9 \pm 18.7$ ).

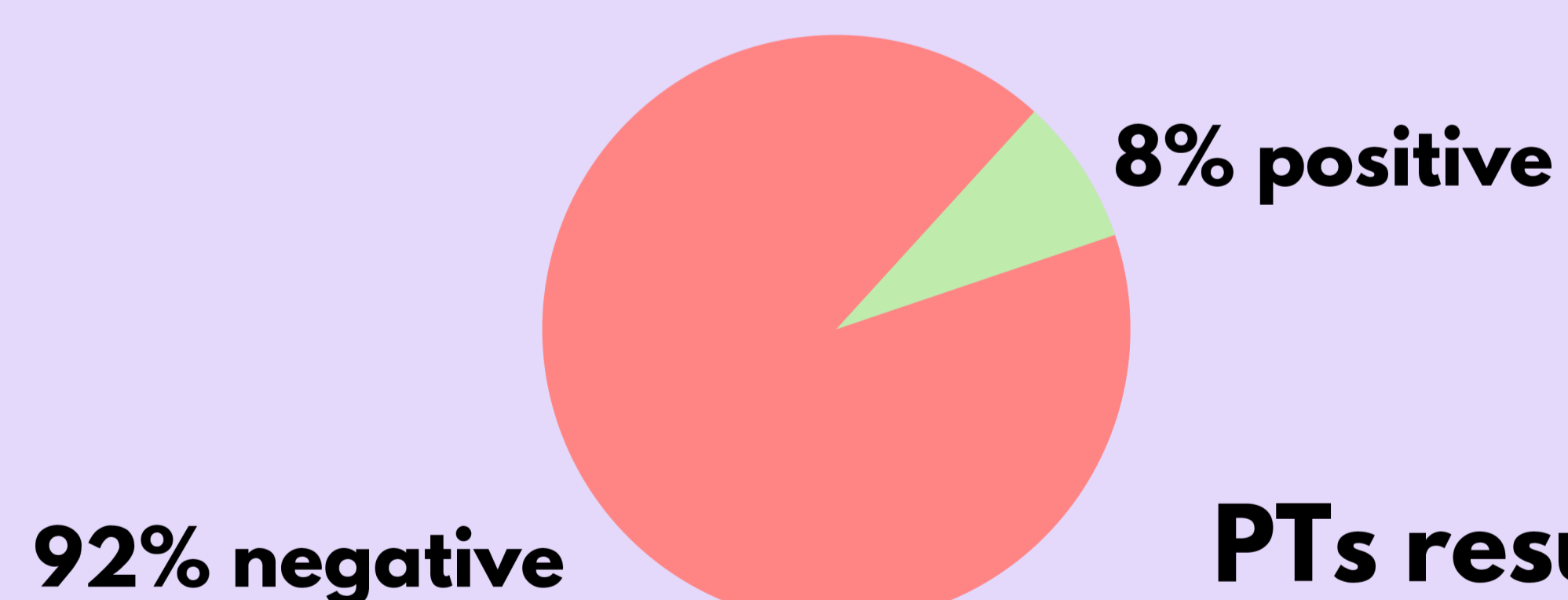


Most tested drugs:

1. Amoxicillin (14)
2. Furosemide (9)
3. Levofloxacin (8)

Highest positivity rate by ATC group:

1. Nervous system (20.5%)
2. Cardiovascular (12.2%)



### CONCLUSION AND RELEVANCE

Compounded PTs covered a wide range of drugs, reflecting diverse clinical demand for allergy assessment.

Amoxicillin, furosemide, and levofloxacin accounted for nearly one-quarter of preparations.

Although the overall positivity rate was low, nervous system and cardiovascular drugs showed the highest frequency of delayed hypersensitivity, suggesting a greater risk within these groups.

