



MOOD'S MEDIAN TEST

HYPOTHESIS TESTING

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TOPIC OUTLINE

Mood's Median Test



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Mood's Median test is a nonparametric statistical test used to determine if there are statistically significant differences between the medians of three or more independent samples.

Null Hypothesis

$$H_0: M_1 = M_2 = M_3 = \dots M_n$$

$$H_a: \text{at least 1} \neq (\text{p-value} \leq \alpha)$$

Assumptions

- Continuous or ordinal data
- Non-normal data
- Comparing medians, especially with outliers

syntax

```
from scipy import stats

mod_stat, p_value, median, table =
stats.median_test(
    sample_1, sample_2,
    sample_3, ..., sample_n)
```



LABORATORY

