

Statistical Test Result #185 — Analysis Report

Generated 2026-09-21 02:38:05 · 1 run(s) · CAT-G Data Analyzer

1. kruskal wallis (#185)

2026-09-21 02:16:37 · statistical_test · status: completed

The kruskal wallis on value across group groups was statistically significant ($p < 0.001$).

statistic	58.206178
p_value	0.0
significant	True
num_groups	4
value_col	value
group_col	group

group stats

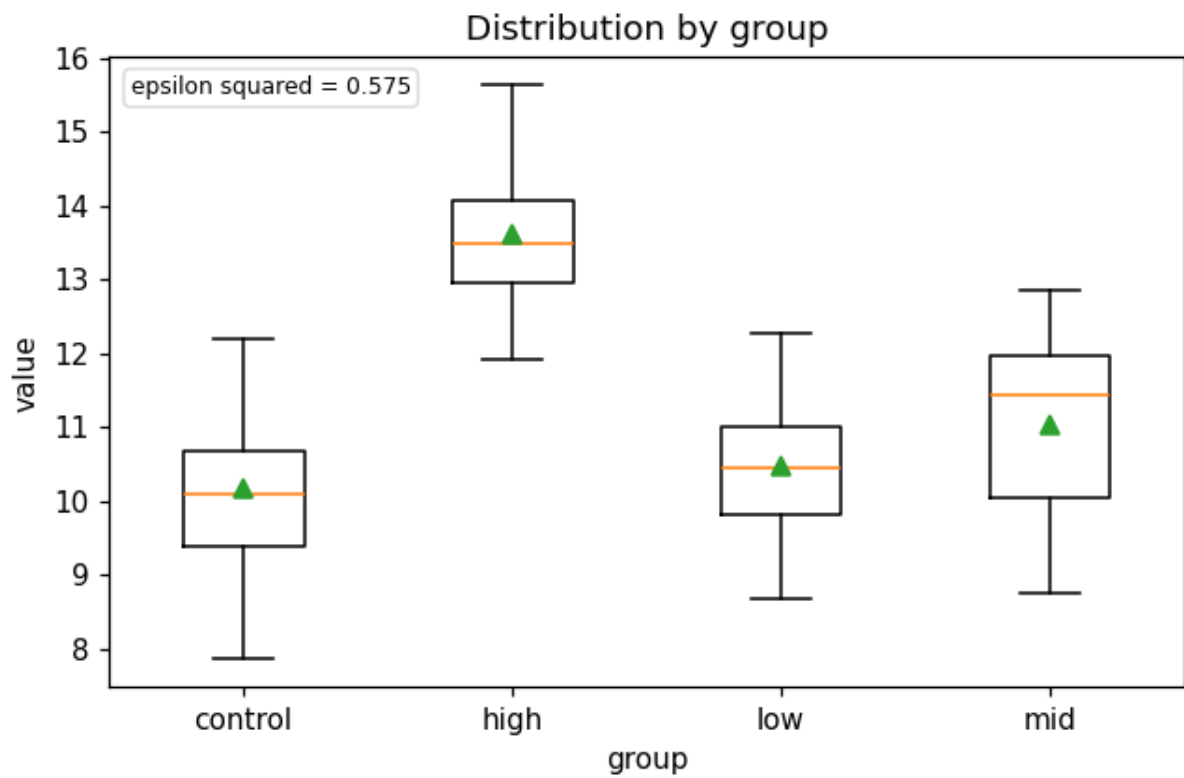
group	n	mean	sd	median	min	max
control	25	10.164134	1.012099	10.097676	7.876104	12.189803
high	25	13.606847	0.877117	13.486133	11.932558	15.628616
low	25	10.471072	0.995267	10.446981	8.686865	12.276171
mid	25	11.045181	1.179363	11.445376	8.760768	12.860748

effect size

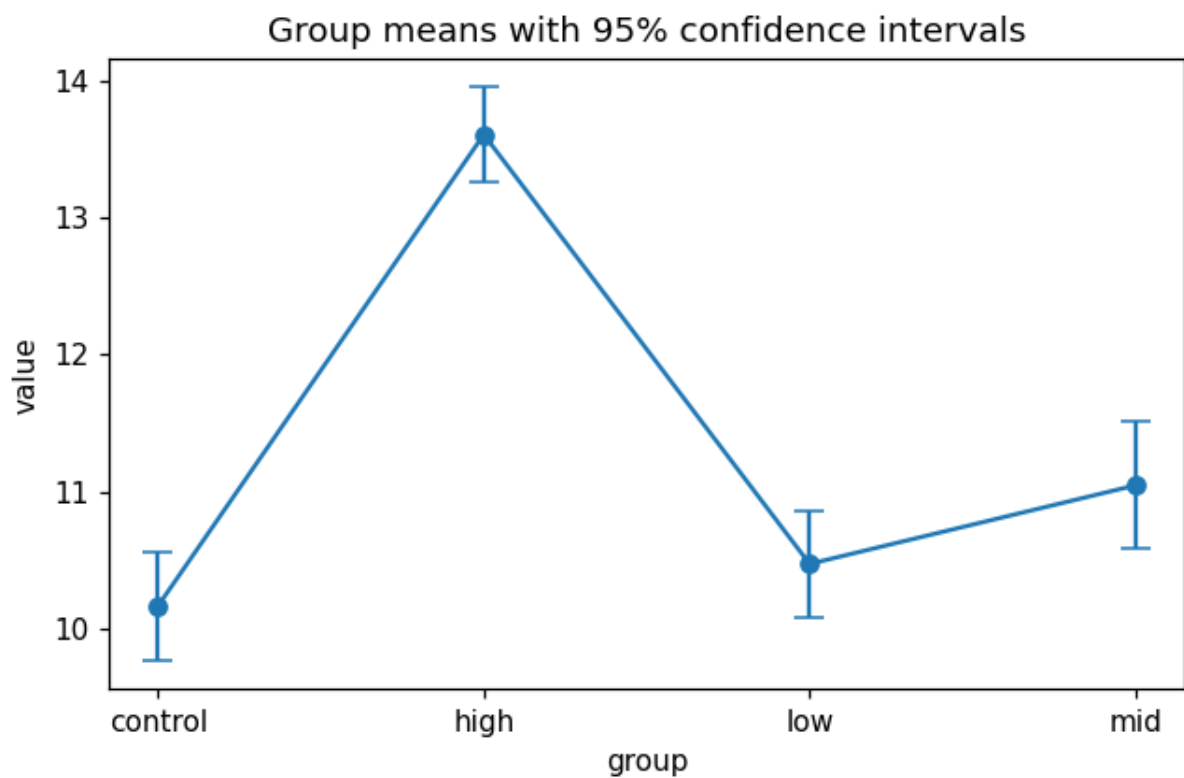
name	value
name	epsilon_squared
value	0.575064

posthoc

group_a	group_b	meandiff	z	p_adj	reject	method
control	high	-56.96	-6.941525	0.0	True	dunn_bonferroni
control	low	-6.32	-0.770197	1.0	False	dunn_bonferroni
control	mid	-17.44	-2.125355	0.201342	False	dunn_bonferroni
high	low	50.64	6.171328	0.0	True	dunn_bonferroni
high	mid	39.52	4.816171	9e-06	True	dunn_bonferroni
low	mid	-11.12	-1.355157	1.0	False	dunn_bonferroni



group boxplot



mean ci

Method & Provenance

method	Kruskal-Wallis H test
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engine	Python · scipy 1.17.1
datasets	gallery — example_posthoc.csv
started	2026-09-21 02:16:37.688121
permanent link	https://cat-g-omxpert.wishartlab.com/results/by-token/460cb7b064cc46bd99472531226

Parameter	Value
test_type	kruskal_wallis
value_col	value
group_col	group

Command history

```
# python
from scipy import stats

# python
stat, p = stats.kruskal(*groups)
```