

NIST Decision Tree Report

Summary

Include	Laboratory	Result	Uncertainty	DegreesOfFreedom
TRUE	Lab 1	-2.4434	0.0789	10
TRUE	Lab 2	-0.9023	0.0357	10
TRUE	Lab 3	-0.0688	0.1611	10
TRUE	Lab 4	1.0293	0.3688	10
TRUE	Lab 5	0.2822	1.0251	10

Date: 2022-07-19

Selected Procedure: Adaptive Weighted Average

Consensus estimate: -0.5318

Standard uncertainty: 0.5102

Standard uncertainty (using parametric bootstrap): 0.5407

95% coverage interval: (-1.722, 0.72)

95% coverage interval (using parametric bootstrap): (-1.684, 0.6203)

Dark uncertainty (tau): 1.068

Decision Tree Hypothesis test results

Cochran's test for Homogeneity:

p-value: $p < 0.001$

$Q = 396.7$ (Reference Distribution: Chi-Square with 4 Degrees of Freedom)

tau est. = 1.068

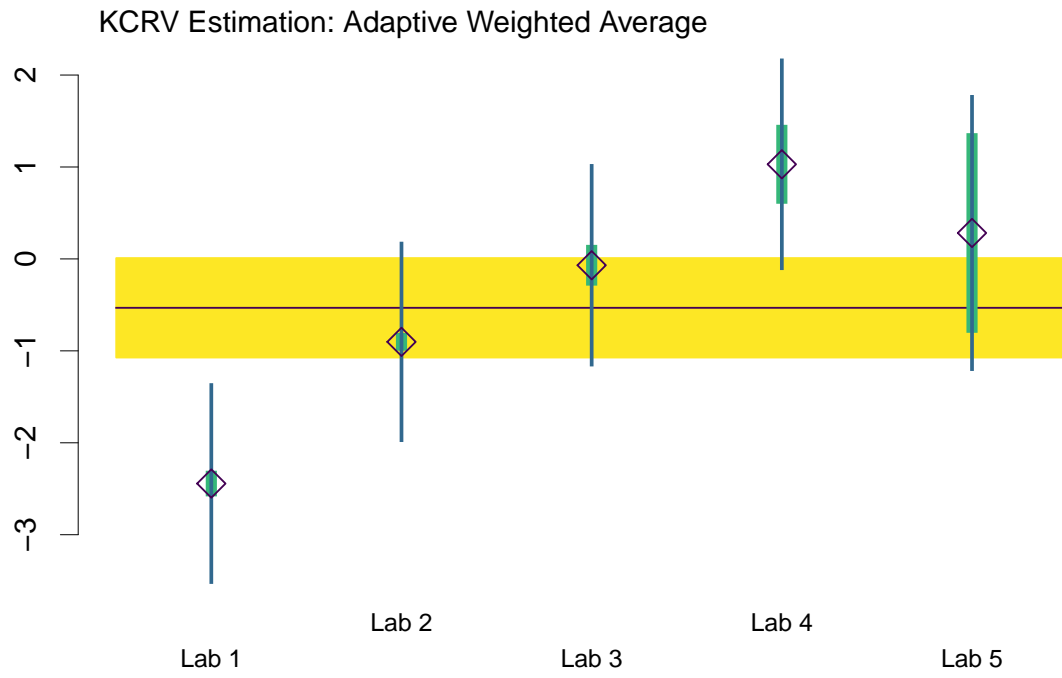
tau/median(x) = -15.53

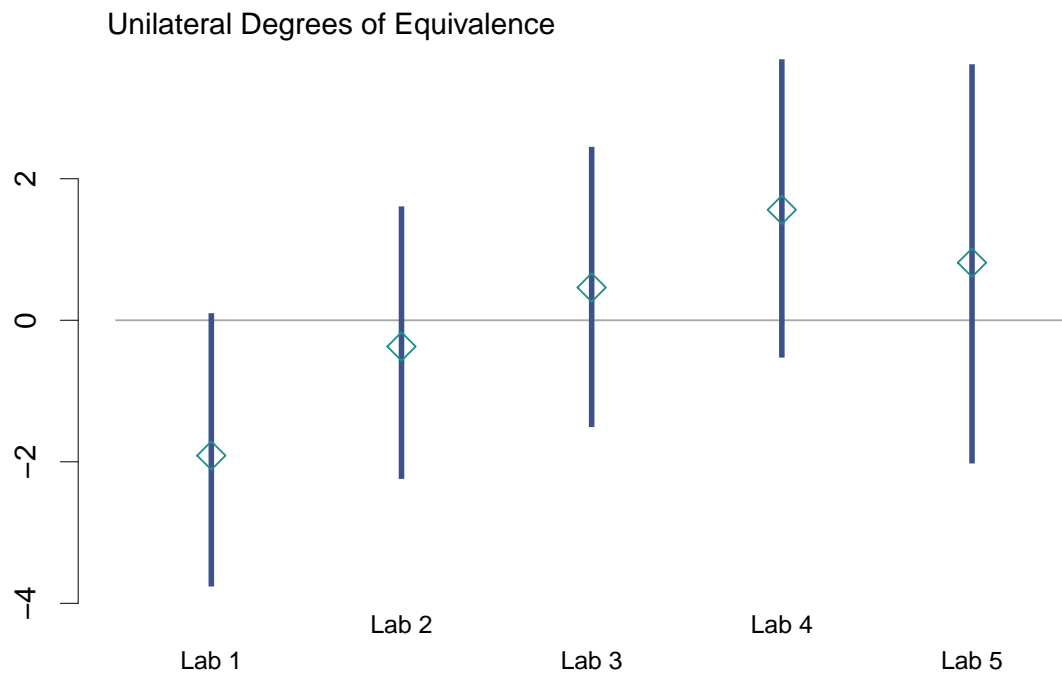
tau/median(u) = 6.632

Shapiro-Wilk test for Normality: $p = 0.08324$

Miao-Gel-Gastwirth test of Symmetry: $p = 0.3638$

Plots





	Lab	DoE.x	DoE.U95	DoE.Lwr	DoE.Upr
Lab 1	Lab 1	-1.9120	1.904	-3.7230	0.06098
Lab 2	Lab 2	-0.3705	1.872	-2.2020	1.57000
Lab 3	Lab 3	0.4630	1.939	-1.4700	2.41100
Lab 4	Lab 4	1.5610	2.070	-0.4881	3.64900
Lab 5	Lab 5	0.8140	2.783	-1.9840	3.57900