2025/06/25 15:59 1/2 ∏ Kappa Value

] Kappa Value

The **Kappa value** (Cohen's Kappa) is a **statistical measure of interrater agreement** for **categorical data**, adjusted for the amount of agreement that could occur by chance.

It quantifies how consistently two or more observers classify the same items beyond random coincidence.

- Ranges from -1 to 1:
 - **1** = Perfect agreement
 - **0** = Agreement equivalent to chance
 - < 0 = Worse than chance (systematic disagreement)</p>
- More robust than simple percent agreement because it accounts for expected agreement due to randomness.

☐ Interpretation Guide

Карра (к) Value	Strength of Agreement
< 0	Poor (less than chance)
0.01 - 0.20	Slight agreement
0.21 - 0.40	Fair agreement
0.41 - 0.60	Moderate agreement
0.61 - 0.80	Substantial agreement
0.81 - 1.00	Almost perfect agreement

☐ Example

If two neuroradiologists independently evaluate MRI scans for presence of DVA and reach the same conclusion 76% of the time, but much of that agreement is expected by chance, the **Kappa** might only be **0.51**, indicating **moderate agreement**.

☐ Best Practice

- Use Kappa to **assess reliability** of diagnostic tools or observer consistency.
- Always report Kappa with **confidence intervals** and **p-values** for context.
- For ordinal scales, consider using weighted Kappa.

Last update: 2025/06/14 15:23

From:

https://neurosurgerywiki.com/wiki/ - Neurosurgery Wiki

Permanent link:

https://neurosurgerywiki.com/wiki/doku.php?id=kappa_value

Last update: 2025/06/14 15:23

