

JASP

❑ Overpromised Accessibility, Underdelivered Depth

JASP markets itself as a user-friendly GUI for statistical analysis, but this ease of use comes at the cost of **limited methodological depth and flexibility**.

- The simplified interface encourages **black-box application** of statistics without fostering true understanding.
- Advanced users find the software **restrictive**, lacking support for custom models, complex data structures, and scripting.
- The default settings and automated procedures may **lead novices to misuse or misinterpret results**.

❑ Limited Statistical and Meta-Analytic Features

- While JASP supports basic meta-analysis, it **lacks advanced capabilities** such as network meta-analysis, multivariate models, and robust meta-regression.
- The Bayesian methods implemented are **simplistic** and do not cover the breadth needed for nuanced inference.
- Diagnostic tools for heterogeneity, publication bias, and influence analyses are **basic or missing**.

❑ No Integration with Automation or Data Extraction Tools

- JASP operates in isolation, with **no built-in support for literature screening, data extraction, or risk of bias assessment**.
- It offers **no API or scripting interface**, limiting reproducibility and workflow automation.
- Collaboration features are minimal or nonexistent.

❑ Reproducibility and Transparency Issues

- Although JASP allows export of analysis scripts, the lack of full scripting limits transparency compared to command-line alternatives.
- Version control and project management features are weak, hindering collaborative reproducible research.
- Output reports are standardized but **offer limited customization**.

⚠ Accessibility vs. Professionalism Trade-Off

- JASP's low barrier to entry can foster **overconfidence among inexperienced users**, increasing risk of analytical errors.
- Professional statisticians and methodologists often reject JASP due to its **limited scope and control**.
- The software's popularity in teaching may not translate to rigorous research environments.

□ Final Verdict

JASP is a **convenient tool for introductory statistics and teaching**, but it is **unsuitable for complex, high-stakes meta-analyses or advanced research**. Its **simplistic interface, limited features, and poor integration** hinder rigorous evidence synthesis and reproducibility.

Recommendation: Use JASP for learning or exploratory data analysis only. For robust meta-analytic work, prefer more flexible and transparent tools like R packages or advanced workflow platforms.

From:

<https://neurosurgerywiki.com/wiki/> - **Neurosurgery Wiki**

Permanent link:

<https://neurosurgerywiki.com/wiki/doku.php?id=jasp&rev=1751388058>

Last update: **2025/07/01 16:40**

