

METADISC 2.0 SOFTWARE FOR META-ANALYSIS OF TEST ACCURACY DATA

A research group from CIBER, Instituto de Investigación Sanitaria Ramón y Cajal, and Universidad Politécnica de Madrid has developed a comprehensive software for meta-analysis of diagnostic data.

The Need

Systematic reviews and meta-analyses of test accuracy studies are increasingly being recognised as central in guiding clinical practice. However, there is currently no dedicated and comprehensive software for meta-analysis of diagnostic data.

The Solution

Meta-DiSc 2.0 is a Windows-based, user-friendly, freely available (for academic use) software to perform diagnostic meta-analysis. It is an upgraded version of MetaDiSc®.

Innovative Aspects

- Performs statistical pooling of sensitivities, specificities, likelihood ratios and diagnostic odds ratios using current recommendations by means of a bivariate random effects model
- It allows to explore sources of heterogeneity using subgroup and meta-regression analysis
- It computes several measures of heterogeneity to help reviewers to further describe between studies variations
- All computational algorithms have been validated through comparison with different statistical tools and published meta-analyses.



Stage of Development:

It has been developed, piloted, and validated to perform diagnostic meta-analysis.

Intellectual Property:

- Freeware software

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<https://ciberiscii.shinyapps.io/MetaDiSc2/>

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