

A board game board with various pieces and tokens. The board is colorful and features a central area with a grid of numbers. There are several pieces, including a red one, a blue one, a yellow one, and a green one. There are also several blue gemstones scattered on the board. The background is a blurred image of the board game.

*Your authors will
love you*
*Classifying search results to
reduce numbers to screen*

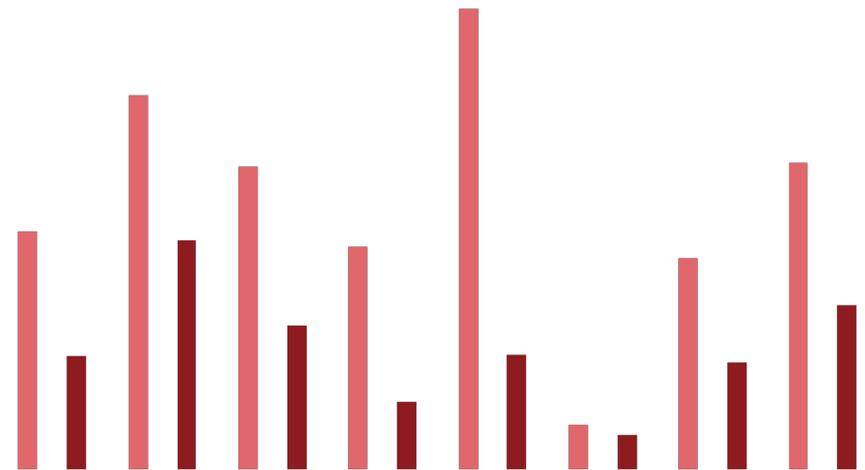
Anne Parkhill

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8th July 2019

Your authors will love you

And here is why....

■ Search results
■ After classification

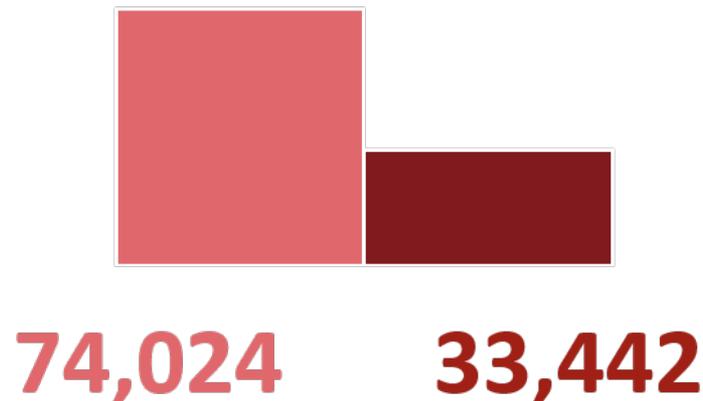


(in 8 recent review searches)

Cochrane Consumers and Communication Group

- Cochrane Collaboration Systematic reviews are seen as the gold standard
- Searches need to map all high level evidence available on a given topic = be highly sensitive
- Our reviews are naturally complex, hard to pin down and large
- The criteria for inclusion may be qualitative or more inclusive than RCT format alone
- Significant time savings can be achieved if authors have fewer references to screen from the initial search

So for those 8 recent review searches...



- *Classifying search results to reduce numbers to screen.*

- Discriminating between (randomized controlled trials) RCTs and non-RCTs than traditional database search filters
- Using machine learning (ML) algorithms
- Increasingly progressed beyond a beta release
- Available within Cochrane Collaboration and also Open Source



Robot Reviewer

<https://robotsearch.vortext.systems/>

Just the RCTs, please.

Upload an RIS file, and we will filter out articles that do not describe RCTs using our (highly accurate) machine learning model (details and validation [here](#)). Powered by by RobotReviewer.

Choose File

No file chosen

Upload

- Maximise sensitivity (use for systematic reviews)
- Maximise precision

6,082 references



3,154 refs Sensitive



767 refs Precise

Thank you



“While model performance lags human accuracy....Future methodological improvements are likely to close the gap between automated and human performance.”

RobotReviewer: evaluation of a system for automatically assessing bias in clinical trials.
Iain Marshall et.al. [J Am Med Inform Assoc.](#) 2016;23: 193-201 p. 200

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18th July 2019