



**Healthy
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18th Annual Child Health Research Days
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ABSTRACT SUBMISSION FORM

CHR D 2022: Abstract & Poster Submission Form

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Presenter Status

- Undergraduate Students
- Masters Student
- PhD Student
- Post-Doctoral Fellows
- Residents
- Non-Trainee

Research Category

- Basic Science
- Clinical
- Community Health / Policy

Role in the project

- Design
- Perform Experiments
- Analyze Data
- Write Abstract
- Data extraction

Title

Usefulness of Randomized-Control Trials in Child Health Research Published in 2007 and 2017

Background

Research waste can cause billions in wasted funds annually. Lack of clinical usefulness may be a cause of research waste.

Objective

Using a research tool composed of clinical usefulness criteria, 600 pediatric randomized control trials (RCTs) were analyzed to examine how clinical usefulness in pediatric research has changed over 10 years.

Methods

We leveraged an existing sample of child health RCTs published in 2007, used by our team previously. Using the same methods, a librarian executed a literature search in the Cochrane Central Register of Controlled Trials to create the 2017 cohort, creating two cohorts of 300 publications each in 2007 and 2017. Data regarding primary and secondary outcomes, as well as 11 unique criteria of clinical usefulness were extracted from each RCT. Each publication was then graded using a grading tool created by our research team. We performed a descriptive analysis after data quality review.

Results

All unique criteria increased from 2007 to 2017 as shown in Figures 1 and 2. The mean score increased from 6.07 in 2007 to 9.20 in 2017 ($P < 0.001$). Criteria that saw the largest increase in reporting were context placement, increasing from 75 studies in 2007 to 139 in 2017, funding source statements, increasing from 80 studies in 2007 to 226 in 2017, and conflict of interest statements, going from 81 in 2007 to 251 in 2017. Areas that need improvement are patient centeredness which had 2 studies in 2007 and 7 in 2017, value for money which had 3 studies in 2007 and 4 in 2017, and raw data availability which had 1 study in 2007 and 21 in 2017.

Conclusion

Our results demonstrate that clinical usefulness of pediatric research improved over this 10-year period. There are areas that need a great deal of improvement to maximize clinical usefulness and reduce research waste.

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Abstract Figures.pdf

Authors

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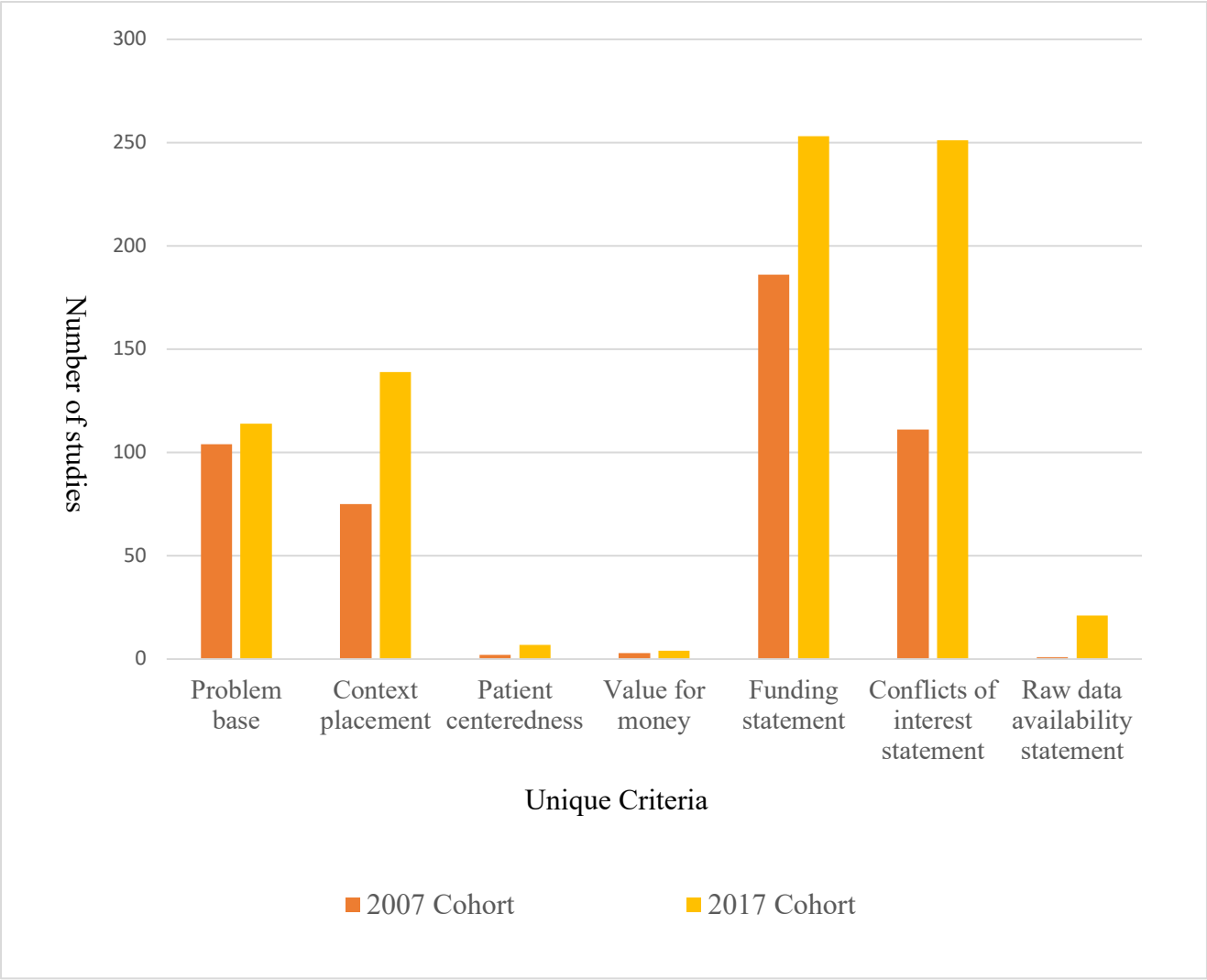


Figure 1. Single question criteria receiving “Yes”

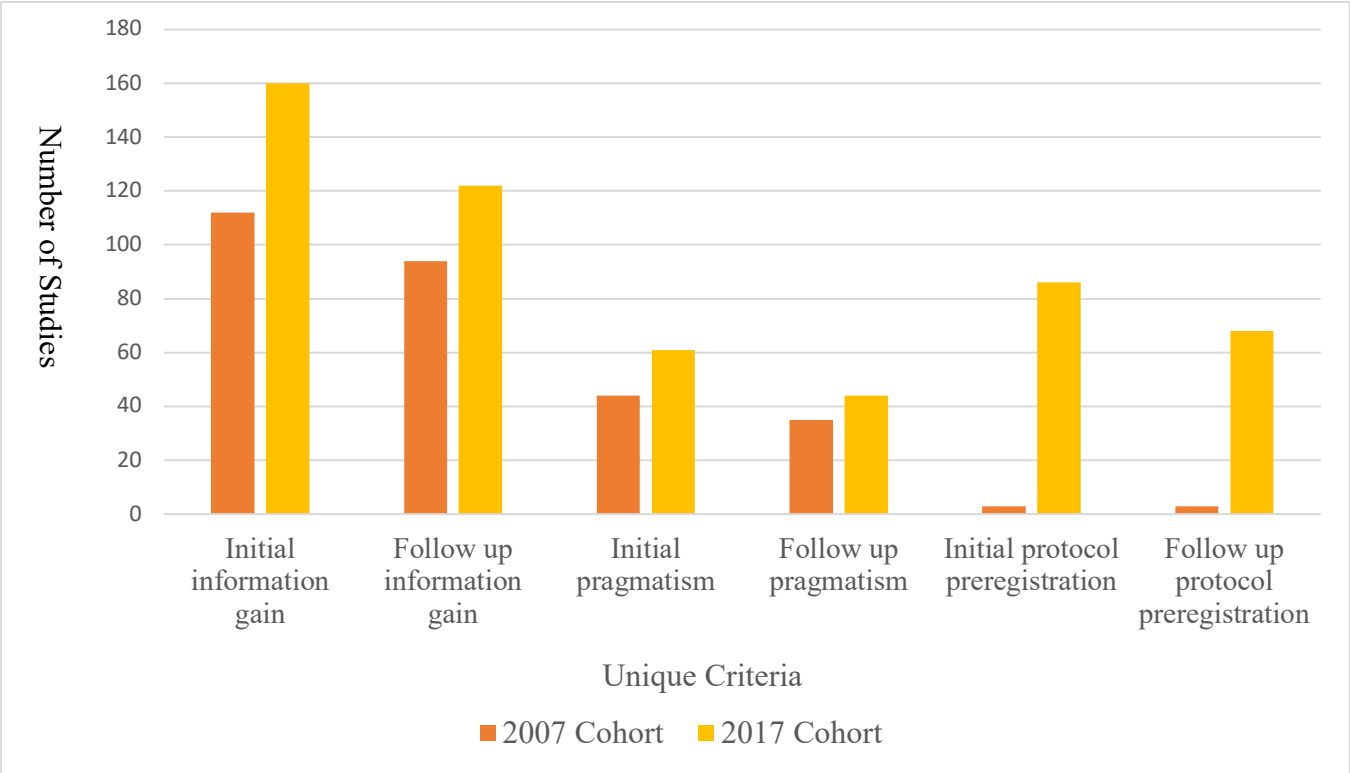


Figure 2. Multiple question criteria receiving "Yes"