Development of the Implementation Science Research Project Appraisal Criteria (ImpResPAC) tool

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**BACKGROUND**

- The Implementation Science Research development (ImpRes) tool and supplementary guide provide methodological guidance and recommendations on how to design high-quality implementation research [1].
- We report the development of the Implementation Science Research Project Appraisal Criteria (ImpResPAC) tool, a quantitative appraisal tool, developed based on the structure and content of ImpRes, to evaluate the conceptual and methodological quality of implementation research.

**METHODS**

Stage 1:

- We mapped the 10 domains of the ImpRes tool, guidance and recommendations contained in the supplementary guide and within the literature to ImpResPAC.

Stage 2:

- We recruited an international multi-disciplinary expert group through purposive sampling, to inform the refinement of ImpResPAC, including content, scoring system and user instructions via feedback surveys. Descriptive characteristics for each domain were calculated.

**RESULTS**

Stage 1:

- We developed an initial version of ImpResPAC tool containing 55 items, indicating high-quality implementation research across 10 domains. ImpResPAC tool users assign a global score from 1-5 to each domain, indicating the quality of an implementation project.

Stage 2:

- 69 experts, from 8 countries, reviewed and provided feedback, including modifications and suggestions for improvement, on one or more ImpResPAC domains. Across 10 ImpResPAC domains. We are currently modifying ImpResPAC based on the extensive expert feedback we have received.

**CONCLUSION**

- We have developed a quantitative appraisal tool, ImpResPAC, to allow implementation research stakeholders, primarily grant reviewers and educators, to undertake a comprehensive and transparent appraisal of the quality of implementation research.
- The next step of this research is to complete analysis of ImpResPAC advisory group feedback, gather further feedback on the revised ImpResPAC tool, and evaluate the psychometric properties of ImpResPAC.

**REFERENCES**