

REAPPRAISED checklist can detect research integrity issues

REAPPRAISED adds value to research as a standard checklist at every stage of the project

Pre-Submission Checklists: Application of the REAPPRAISED checklist in a higher education setting

1. Introduction

- REAPPRAISED checklist (Grey et al 2020¹) aimed at editorial staff
- Can also be used at pre-submission of the manuscript stage, and/or post-publication evaluation
- LSHTM has no current central oversight of manuscript submission

2. Research Question

Could the REAPPRAISED checklist reduce the potential for breaches of research integrity in a higher education setting, and improve the institution's confidence in the research it produces?

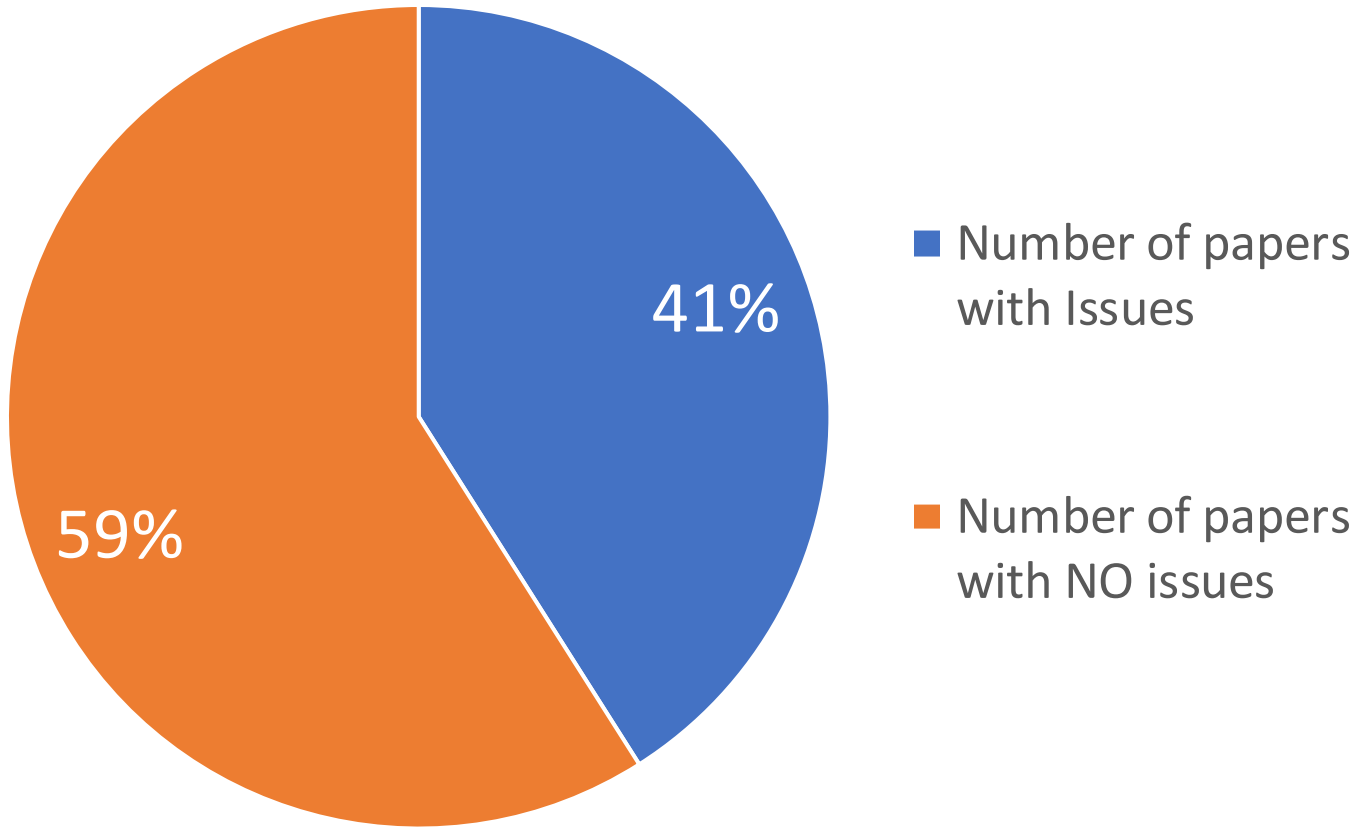
3. Methods

- REAPPRAISED checklist applied retrospectively to 100 health-related research publications
- Included: primary and secondary data projects
- Excluded: Non-human projects, systematic reviews and modelling publications
- Qualitative and quantitative analyses

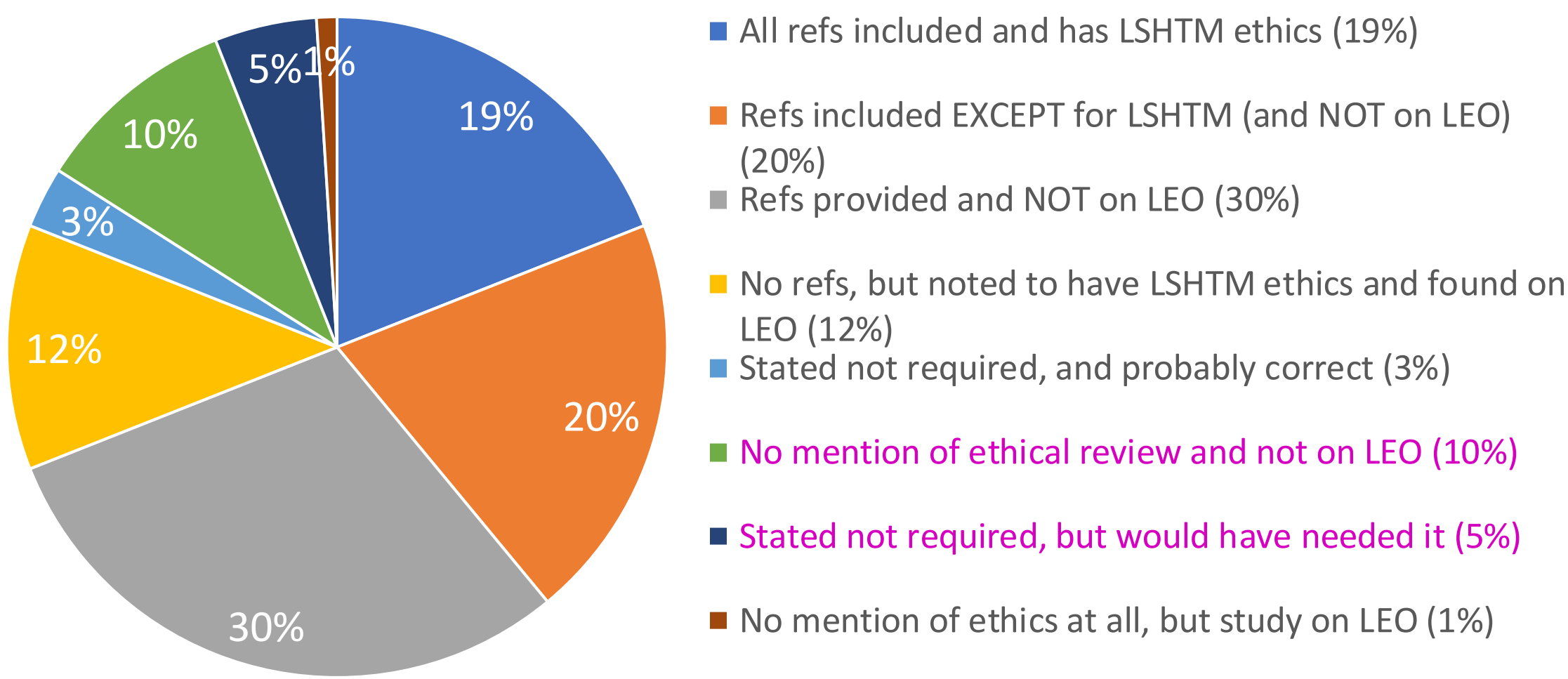
4. Results

Topic	Results Highlights
Research Governance	19% RCT/cRCT were not pre-registered
Ethics	7% concerns about ethical practice
Authorship	9% no contributorship statement
Productivity	65% gave insufficient detail in paper to make a judgement on staffing levels
Plagiarism	3% evidence of text recycling
Research conduct	39% insufficient information regarding plausibility of pt recruitment
Analyses and methods	9% likely or definitely missing data
Image manipulation	1% evidence image manipulation
Statistics and data	9% discrepancies between data reported in figures, tables and text
Errors	7% incorrect calculations of proportions and percentages
Data duplication and reporting	3% duplication of figures

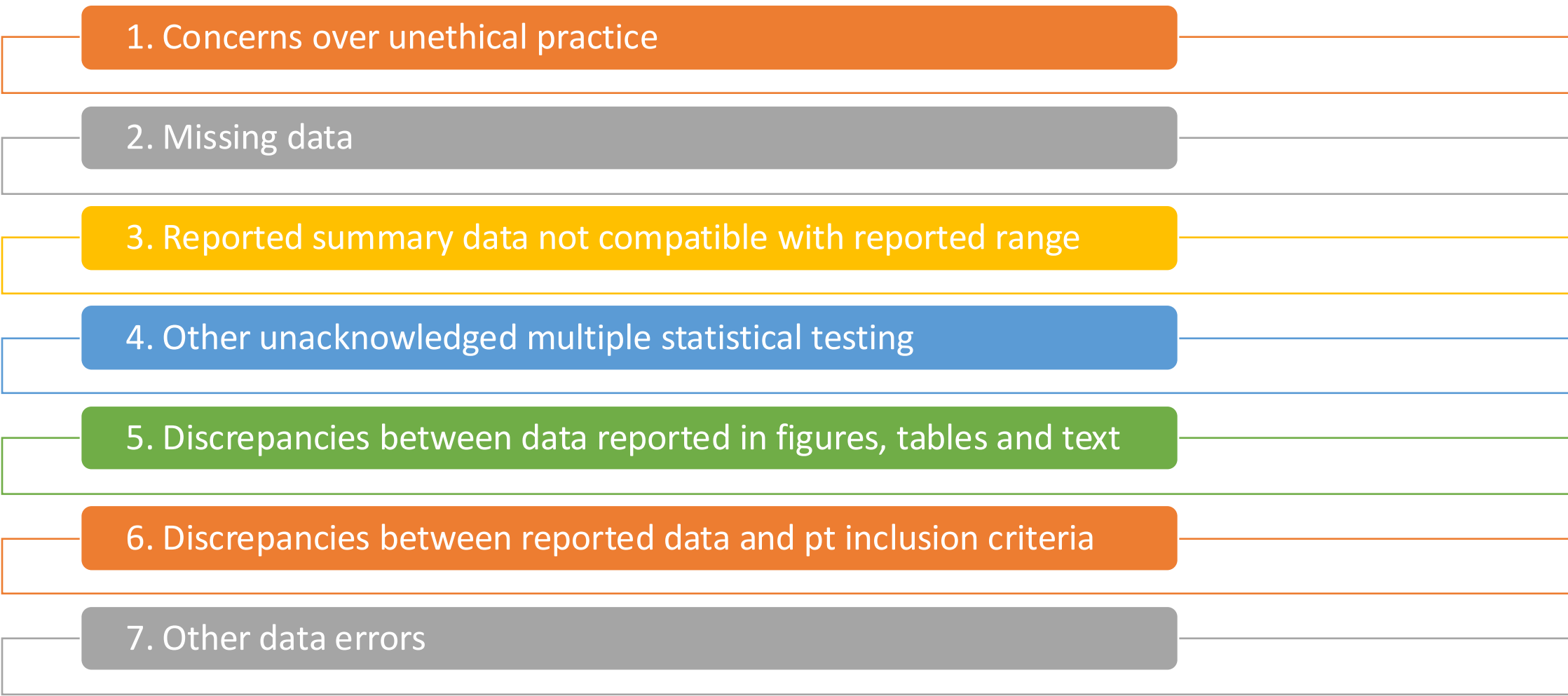
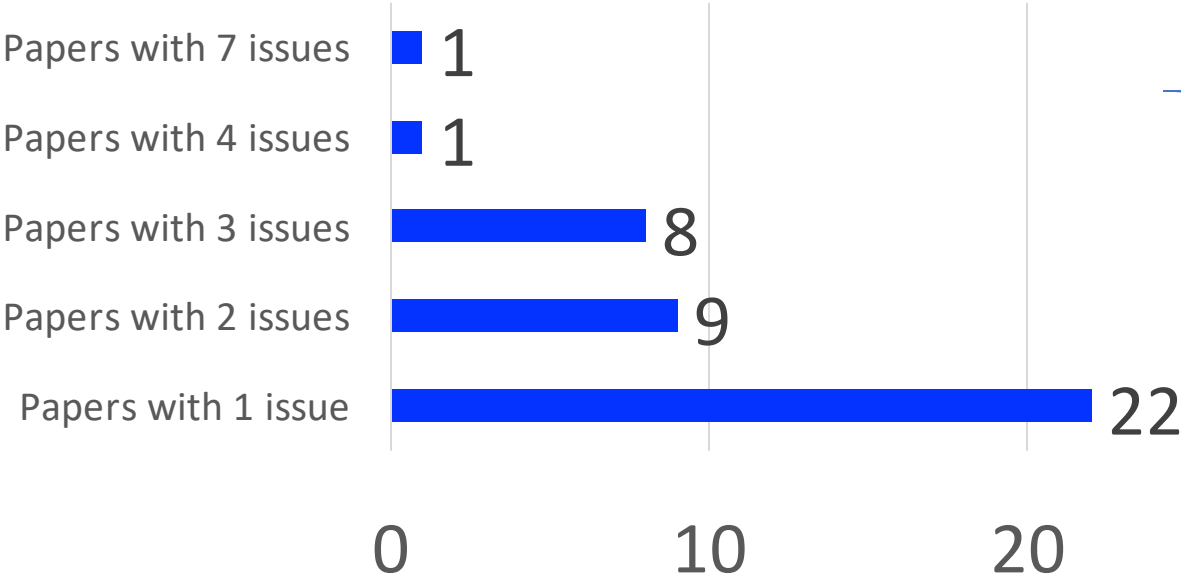
Does it Detect Research Integrity Issues?



How do Papers Fare in Terms of Ethics Submissions?



Number of Issues found in 'Problematic Papers' during Application of REAPPRAISED Checklist

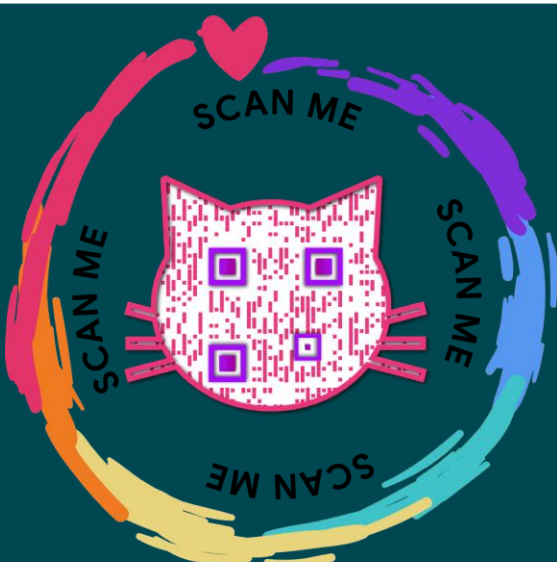


5. Conclusions

The REAPPRAISED checklist contains valuable questions that researchers and their institutions should consider prior to undertaking any research project. The retrospective review highlighted issues across several publications, issues ranging from minor errors in calculations to questions raised on ethical conduct of the research. In an ideal world, the

checklist would be deployed prior to commencing any research project to ensure ethical conduct. Alternatively, institutions could implement the checklist as a safeguard prior to submitting manuscripts.

1: Grey A, Bolland MJ, Avenell A, Klein AA, Gunesius CK (2020) Check for publication integrity before misconduct. Nature 577:167-169



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