A nested randomised controlled trial of a newsletter and Post-it® note did not increase postal questionnaire response rates in a falls prevention trial [version 1; referees: 1 approved with reservations]

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Abstract

Background: Attrition (i.e. when participants do not return the questionnaires) is a problem for many randomised controlled trials. The resultant loss of data leads to a reduction in statistical power and can lead to bias. The aim of this study was to assess whether a pre-notification newsletter and/or a handwritten or printed Post-it® note sticker, as a reminder, increased postal questionnaire response rates for participants of randomised controlled trials.

Method: This study was a factorial trial embedded within a trial of a falls-prevention intervention among men and women aged ≥65 years under podiatric care. Participants were randomised into one of six groups: newsletter plus handwritten Post-it®; newsletter plus printed Post-it®; newsletter only; handwritten Post-it® only; printed Post-it® only; or no newsletter or Post-it®. The results were combined with those from previous embedded randomised controlled trials in a meta-analysis.

Results: The 12-month response rate was 803/826 (97.2%) (newsletter 95.1%, no newsletter 99.3%, printed Post-it® 97.5%, handwritten Post-it® 97.1%, no Post-it® 97.1%). Pre-notification with a newsletter had a detrimental effect on response rates (adjusted odds ratio (OR), 0.14; 95% CI, 0.04 to 0.48; p<0.01) and time to return the questionnaire (adjusted hazard ratio, 0.86; 95% CI, 0.75 to 0.99; p=0.04). No other statistically significant differences were observed between the intervention groups on response rates, time to response, and the need for a reminder.

Conclusions: Post-it® notes have been shown to be ineffective in three embedded trials, whereas the evidence for newsletter reminders is still uncertain.

Keywords
Randomised controlled trial; randomisation; embedded trial; newsletter; Post-it® note; response rate
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Author roles: Rodgers S: Conceptualization, Data Curation, Methodology, Project Administration, Writing – Original Draft Preparation, Writing – Review & Editing; Sbizzera I: Formal Analysis, Methodology, Writing – Original Draft Preparation, Writing – Review & Editing; Cockayne S: Conceptualization, Investigation, Methodology, Project Administration, Writing – Original Draft Preparation, Writing – Review & Editing; Fairhurst C: Conceptualization, Methodology, Writing – Review & Editing; Lamb SE: Methodology, Writing – Review & Editing; Vernon W: Methodology, Writing – Review & Editing; Watson J: Methodology, Writing – Review & Editing; Hewitt C: Methodology, Writing – Review & Editing; Torgerson D: Conceptualization, Formal Analysis, Methodology, Writing – Original Draft Preparation, Writing – Review & Editing

Competing interests: No competing interests were disclosed.

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### Introduction

Postal questionnaires represent a cost-effective and convenient way of collecting participant-reported outcome data in health research, such as in randomised controlled trials (RCTs). However, attrition (i.e. when participants do not return the questionnaires) is a problem for many RCTs. The resultant loss of data leads to a reduction in statistical power and can lead to bias. Although a number of strategies have been found to reduce attrition, few of these have been evaluated in the context of healthcare RCTs. A recent systematic review highlighted the need for further research into methods of retaining participants in RCTs.

A Cochrane systematic review evaluating 110 different strategies to improve response rates to postal questionnaires in randomised controlled trials identified pre-notification as an effective strategy. The odds of response were increased by nearly half when participants were pre-notified of the impending arrival of the questionnaire (odds ratio (OR), 1.45; 95% CI, 1.29 to 1.63). Although there have been several studies evaluating different methods of pre-notification (such as letters, postcards or telephone calls) very few of these have been conducted in a healthcare setting. Only one RCT has evaluated the effectiveness of a pre-notification newsletter to increase response rates. This study found a statistically significant increase in response rates (OR, 1.45; 95% CI, 1.01 to 2.10) among participants allocated to receive the pre-notification newsletter.

The Cochrane review also reported that the appearance of the questionnaire (e.g., making questionnaire materials more personal by using handwritten signatures) can affect response rates. For example, the odds of response increased by a quarter when addresses were handwritten compared to using computer-printed labels (OR, 1.25; 95% CI, 1.08 to 1.45). We are also aware of six studies that evaluated the effectiveness of attaching a Post-it® note to questionnaires to increase response rates; four of these were undertaken within an academic setting and reported a statistically significant increase (p<0.05) in responses rates when personalised Post-it® notes were used.

At the York Trials Unit we have a programme of undertaking studies within a trial (SWATs) that aim to evaluate simple interventions to increase response rates to postal questionnaires. Methods of pre-notification and Post-it® notes are relatively inexpensive, so even a small benefit is likely to be cost-effective. A single embedded trial will often not have the statistical power to detect a modest difference if there truly was one present; therefore, we have a strategy of repeating our SWATs in order to conduct meta-analyses to strengthen the evidence base. With respect to pre-notification, our previous trial showed a small absolute difference in favour of the intervention, which was borderline statistically significant (p=0.05), whereas our two previous studies of Post-it® notes produced identical, non-statistically significant ORs (0.97) favouring the control group (no Post-it® note).

We conducted a SWAT to evaluate the effectiveness of a pre-notification newsletter and/or applying a handwritten or printed Post-it® note as a means of increasing response rates to the 12-month follow-up questionnaire sent to participants in the REFORM trial. This paper presents the results of this sub-study. We also present the results of a meta-analysis of the three ‘Post-it® notes’ and two ‘pre-notification using a newsletter’ studies to increase questionnaire response rates in RCTs of health treatments.

### Methods

#### Ethical approval

This trial was embedded within the National Institute for Health Research Health Technology Assessment (NIHR HTA) programme funded REFORM (REducing Falls with ORthoses and a Multifaceted podiatry intervention) study (registration number ISRCTN68240461; registration date, 1st July 2011; http://www.isrctn.com/ISRCTN68240461), which aimed to evaluate the clinical and cost effectiveness of a podiatry intervention for the prevention of falls in older people. Ethical approval for the REFORM study and this embedded sub-study was given by National Research Ethics Service East of England – Cambridge East Research Ethics Committee (REC reference 11/EE/0379) and the University of York, Department of Health Sciences Research Governance Committee.

#### Participants

Participants in the REFORM study who were due to be sent their 12-month follow-up questionnaire were included in this nested RCT. Participants who had asked to be withdrawn from the REFORM study or who did not wish to receive a questionnaire at this time point were excluded. Supplementary File 1 contains the full trial protocol of the REFORM study.

#### Design and randomisation

We undertook a three-by-two SWAT. Participants were allocated to one of six arms using block randomisation with a block size of 18, stratified by REFORM treatment group allocation. An independent data manager who was not involved in the recruitment of participants generated the allocation sequence by computer and allocated participants in a 1:1:1:1:1:1 ratio.

#### Interventions

Participants were assigned to one of the following six groups: pre-notification newsletter plus handwritten Post-it® note applied to the questionnaire; newsletter plus printed Post-it® newsletter only; handwritten Post-it® note only; printed Post-it® note only; or neither newsletter nor Post-it® note. The newsletter contained information regarding trial progress, including the geographical location and number of participants recruited, anonymised quotes from participants about what they thought of the study, and a reminder about the importance of the trial and of completing and returning postal questionnaires. The newsletter was tailored to the main trial treatment groups, with the newsletter sent to the intervention group addressing issues raised by participants about undertaking exercises and wearing orthotics. The newsletter was posted to participants 3 weeks prior to posting the 12-month questionnaire. Those participants randomised to not receive the pre-notification newsletter were sent the newsletter eight weeks after the questionnaire was sent.
out. The wording on the Post-it® note was “Please take a few minutes to complete this for us. Thank you! Sarah”. In order to minimise the possibility of heterogeneity, the wording (except for the name), text size and font on the Post-it® note was the same as that used for the studies by Tilbrook et al. and Lewis et al. and the Post-it® note was placed in the same location, on the top right hand corner of the questionnaire. Two researchers and three trial secretaries wrote the text of the handwritten Post-it® notes and every effort was made to ensure the format of the message was consistent. Participants also received an unconditional £5 note with their final follow up.

Management of the postal questionnaires

The date participants were sent and returned their postal questionnaires was recorded. Participants who did not return their follow-up questionnaire within 2 weeks were sent up to two postal reminders, 2 weeks apart by post, text or email, according to the participant’s preference, followed by a telephone reminder 1 week later.

Primary outcome

The primary outcome was questionnaire response rate defined as the proportion of participants that returned their 12-month postal follow-up questionnaire to York Trials Unit.

Secondary outcomes

The secondary outcomes were: time to response, defined as number of days between the questionnaire being mailed out to a participant and the questionnaire being recorded as returned to York Trials Unit; and the proportion of participants that needed a reminder.

Statistical analysis

All statistical analyses were conducted in Stata version 14 (StataCorp. 2015. Stata Statistical Software: Release 14. College Station, TX: StataCorp LP) using two-sided tests at the 5% significance level on an intention-to-treat basis. Age at randomisation into the main REFORM trial, gender and main trial allocation are summarised by randomised sub-study group. This factorial trial is reported as recommended by Montgomery et al. Response rates were calculated for each intervention. A logistic regression model containing the two interventions (Post-it® note and newsletter), age, gender and REFORM treatment allocation was performed. Adjusted ORs and corresponding 95% CIs were obtained from this model. The presence of an interaction between the two interventions was also tested by introducing the interaction term of the intervention into the logistic model.

Time to return the 12-month follow-up questionnaire was calculated as the number of days from the date the questionnaire was sent out, to the date it was returned. Median time to return was calculated for all participants who returned their questionnaire. For the time-to-event analysis, questionnaires that were not returned or returned 6 weeks (42 days) or more after being sent were treated as censored. Time to questionnaire return was plotted for both interventions using Kaplan-Meier survival curves, and the log-rank test was used to compare the randomised groups within each intervention. A Cox proportional hazards regression model containing the two interventions, age, gender and REFORM treatment allocation was performed; adjusted hazard ratios (HR) and corresponding 95% CIs were obtained. The proportion of participants requiring a reminder was analysed using a similarly adjusted logistic model.

An aggregated fixed effect meta-analysis of this study with the study reported by Mitchell et al. evaluated the effect of sending a newsletter before receiving the questionnaire to improve response rates. A second aggregated data meta-analysis was conducted incorporating the results of this study and those by Tilbrook et al. and Lewis et al. in order to evaluate the effect of receiving a questionnaire with an attached Post-it® note on response rates.

Supplementary File 2 contains a completed CONSORT checklist for this study.

Results

A total of 1010 participants were recruited into the REFORM study and randomised to receive a multifaceted podiatry intervention or usual care. In total, 917 (90.8%) reached the 12-month time point and were sent a follow-up questionnaire, of which 826 (90.1%) were randomised into the nested RCT (due to a delay in the start of the sub-study): 135 to receive the newsletter and the handwritten Post-it® note; 138 to receive the newsletter and the printed Post-it® note; 137 to receive the newsletter only; 137 to receive the handwritten Post-it® note only; 136 to receive the printed Post-it® note only; and 143 to receive neither the newsletter nor the Post-it® note (Figure 1). Participants had a mean age of 78 years (range, 65 to 96 years), and were predominantly female (n=509, 61.6%). Age and main trial allocation were balanced between the six groups, whereas a small chance imbalance for gender can be seen in the groups receiving the newsletter compared to those not receiving it: the presence of women tended to be higher in the groups not receiving the newsletter (65.6% vs 57.7%) (Table 1).

Questionnaire response rate

The total number of participants returning the 12-month follow-up questionnaire was 803 of 826 (97.2%), 390 of 410 (95.1%) of those who received the newsletter, and 413 of 416 (99.3%) of those who did not receive it. The difference in response rates between these two groups was statistically significant (adjusted OR, 0.14; 95% CI, 0.04 to 0.48; p<0.01) (Table 2). With respect to the Post-it® note intervention, 272 of 280 (97.1%) participants who received no Post-it® note, 267 of 274 (97.5%) participants who received the printed Post-it® note, and 264 of 272 (97.1%) who received the handwritten Post-it® note returned their questionnaire. The Post-it® note intervention did not show a statistically significant effect on the response rate (printed Post-it® vs no Post-it®: adjusted OR, 1.06; 95% CI, 0.37 to 3.01; p=0.92; handwritten Post-it® vs no Post-it®: adjusted OR, 0.91; 95% CI, 0.33 to 2.49; p=0.85). There was no statistically significant interaction between the interventions.
Table 1. Baseline characteristics of participants.

<table>
<thead>
<tr>
<th>Variable</th>
<th>Newsletter and handwritten Post-it® note (n=135)</th>
<th>Newsletter and printed Post-it® note (n=138)</th>
<th>Newsletter only (n=137)</th>
<th>Handwritten Post-it® note only (n=137)</th>
<th>Printed Post-it® note only (n=136)</th>
<th>No newsletter or Post-it® note (n=143)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age, years Mean (SD)</td>
<td>78.0 (7.0)</td>
<td>76.9 (6.9)</td>
<td>79.0 (7.0)</td>
<td>77.6 (7.2)</td>
<td>77.5 (6.9)</td>
<td>76.3 (7.0)</td>
</tr>
<tr>
<td>Median</td>
<td>78</td>
<td>77</td>
<td>80</td>
<td>78</td>
<td>77</td>
<td>77</td>
</tr>
<tr>
<td>Gender, n (%)</td>
<td>Male</td>
<td>Female</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>39 (28.9)</td>
<td>48 (34.8)</td>
<td>54 (39.0)</td>
<td>52 (38.0)</td>
<td>61 (44.9)</td>
<td>63 (44.1)</td>
</tr>
<tr>
<td></td>
<td>Female</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>96 (71.1)</td>
<td>90 (65.2)</td>
<td>83 (61.0)</td>
<td>85 (62.0)</td>
<td>75 (55.1)</td>
<td>80 (55.9)</td>
</tr>
<tr>
<td>Main trial allocation, n (%)</td>
<td>Control</td>
<td>Intervention</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>71 (52.6)</td>
<td>64 (47.4)</td>
<td>69 (50.0)</td>
<td>66 (48.2)</td>
<td>65 (47.4)</td>
<td>67 (49.3)</td>
</tr>
</tbody>
</table>

Time to return
Time to return ranged from 3 to 101 days. Among the participants who responded, the median time taken to return the 12-month questionnaire was 11 days, both overall and in each intervention group (i.e. no newsletter sent, newsletter sent, no Post-it® note, printed Post-it® note, and handwritten Post-it® note). In total, 793 (96.0%) participants returned the questionnaire within 6 weeks (no newsletter: n=407, 97.8%; newsletter: n=386, 94.2%; no Post-it® note: n=271, 96.8%; printed Post-it® note: n=263, 96.0%; and handwritten Post-it® note: n=259, 95.2%). There was evidence of a difference in time to return between those who received the newsletter and those who did not (adjusted HR, 0.86; 95% CI, 0.75 to 0.99; p=0.04) (Figure 2; Table 2). The Post-it® note intervention did not appear to have
Table 2. The effect of the newsletter and Post-it® note interventions on trial outcomes.

<table>
<thead>
<tr>
<th>Intervention</th>
<th>OR/HR</th>
<th>Adjusted statistic (SE)</th>
<th>95% CI</th>
<th>p-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Questionnaire return (Y/N)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Newsletter vs no newsletter</td>
<td>OR</td>
<td>0.14 (0.09)</td>
<td>(0.04, 0.48)</td>
<td>&lt;0.01</td>
</tr>
<tr>
<td>Printed Post-it® vs no Post-it®</td>
<td>OR</td>
<td>1.06 (0.56)</td>
<td>(0.37, 3.01)</td>
<td>0.92</td>
</tr>
<tr>
<td>Handwritten Post-it® vs no Post-it®</td>
<td>OR</td>
<td>0.91 (0.47)</td>
<td>(0.33, 2.49)</td>
<td>0.85</td>
</tr>
<tr>
<td>Time-to-return (days)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Newsletter vs no newsletter</td>
<td>HR</td>
<td>0.86 (0.06)</td>
<td>(0.75, 0.99)</td>
<td>0.04</td>
</tr>
<tr>
<td>Printed Post-it® vs no Post-it®</td>
<td>HR</td>
<td>0.95 (0.08)</td>
<td>(0.80, 1.13)</td>
<td>0.55</td>
</tr>
<tr>
<td>Handwritten Post-it® vs no Post-it®</td>
<td>HR</td>
<td>0.90 (0.08)</td>
<td>(0.76, 1.07)</td>
<td>0.22</td>
</tr>
<tr>
<td>Reminder required (Y/N)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Newsletter vs no newsletter</td>
<td>OR</td>
<td>1.30 (0.26)</td>
<td>(0.88, 1.91)</td>
<td>0.19</td>
</tr>
<tr>
<td>Printed Post-it® vs no Post-it®</td>
<td>OR</td>
<td>1.20 (0.30)</td>
<td>(0.74, 1.94)</td>
<td>0.47</td>
</tr>
<tr>
<td>Handwritten Post-it® vs no Post-it®</td>
<td>OR</td>
<td>1.47 (0.35)</td>
<td>(0.92, 2.36)</td>
<td>0.11</td>
</tr>
</tbody>
</table>

1 Logistic regression; 2 Cox regression. All models contained both the newsletter and Post-it® note intervention terms and were adjusted for age, gender and main trial allocation. SE, standard error; OR, odds ratio; HR, hazard ratio.

Figure 2. Kaplan-Meier survival curve of time to return for the newsletter intervention.
any effect on time to return (printed Post-it® vs no Post-it®: adjusted HR, 0.95; 95% CI, 0.80 to 1.13; p=0.55; handwritten Post-it® vs no Post-it®: adjusted HR, 0.90; 95% CI, 0.76 to 1.07; p=0.22) (Figure 3; Table 2). There was no statistically significant interaction between the interventions.

Reminders sent
Overall 125 (15.1%) participants required a reminder following 2 weeks of questionnaire non-response (newsletter: n=69, 16.8%; no newsletter: n=56, 13.5%; no Post-it® note: n=36, 12.9%; printed Post-it® note: n=41, 15.0%; handwritten Post-it® note: n=48, 17.7%). There was no evidence of a difference in the proportion of participants requiring a reminder between the groups (newsletter vs no newsletter: adjusted OR, 1.30; 95% CI, 0.88 to 1.91; p=0.19; printed Post-it® vs no Post-it®: adjusted OR, 1.20; 95% CI, 0.74 to 1.94; p=0.47; handwritten Post-it® vs no Post-it®: adjusted OR, 1.47; 95% CI, 0.92 to 2.36; p=0.11) (Table 2).

Meta-analysis
We combined the two previous Post-it® note studies with the study described in this paper. Because there was no material difference in response rates between the printed and handwritten Post-it® note (i.e., 97.5% vs 97.1%) in this study we combined these two groups in the meta-analysis (Post-it® note vs no Post-it® note: adjusted OR, 0.98; 95% CI, 0.40 to 2.37). The pooled OR was 0.97 (favouring no Post-it® note) but was not statistically significant (95% CI, 0.70 to 1.35; p=0.87) (Figure 4). No heterogeneity was observed (I²=0%). For the prior notification by newsletter, the meta-analysis (Figure 5) showed significant heterogeneity (I²=92%) with a non-statistically significant effect estimate favouring the intervention (pooled OR, 1.19; 95% CI, 0.84 to 1.70; p=0.33).

Discussion
We undertook a three-by-two randomised SWAT of pre-notification using a study newsletter and of attaching Post-it® notes (printed or handwritten) to postal questionnaires to improve response rates. The trial was embedded at the final (12-month) follow-up time point of the NIHR HTA-funded REFORM RCT. There was evidence that sending a study newsletter 3 weeks prior to the 12-month questionnaire had a detrimental effect on the response rate (adjusted OR, 0.14; 95% CI, 0.04 to 0.48; p<0.01) and time to return the questionnaire (adjusted HR, 0.86; 95% CI, 0.75 to 0.99; p=0.04); however, the raw difference in response rates was small (95.1% vs 99.3%). A small imbalance in gender among the six groups was observed at randomisation, but gender was adjusted for in all analyses. A previous SWAT of a pre-notification newsletter, conducted in an older female population, showed a positive finding, which was in line with the Cochrane review of pre-notification approaches.
to enhance survey returns. A meta-analysis combining that trial with ours produced a small, non-statistically significant effect favouring pre-notification; however, there was significant heterogeneity in the results.

Response rates across the groups receiving a printed Post-it® note on their questionnaire, a handwritten Post-it® note and no Post-it® note were all very similar (97.5, 97.1 and 97.1%, respectively). There was no statistically significant difference between the groups in terms of response rate, time to return the questionnaire, and requiring a reminder. This lack of effect on response rates has now been demonstrated across three separate trials. The first trial was among patients with neck pain (mean age, 53 years), the second trial was among older patients (mean age, 74 years) at risk of depression with the current trial among a similar age group (mean age, 76 years), but no risk/diagnosis of depression. The consistent results suggest that it is not worthwhile undertaking further trials of this intervention among a middle-aged or older population. There may be merit, however, in testing this intervention in a younger population where response rates may be lower.

No statistically significant differences were observed in the proportion of participants requiring a reminder between the groups.

Response rates in the six groups all exceeded 94%, making significant improvement difficult. These simple interventions were relatively inexpensive but not cost-free due to the price of printing the newsletters and the printed Post-it® notes, and staff time to handwrite the Post-it® notes. A cost-effectiveness analysis was not performed since a benefit was not observed.

Conclusions
In summary, in this reasonably sized trial of 826 participants, we found no evidence of a benefit of handwritten or printed Post-it® notes on questionnaire response rates. We also found a negative effect of a pre-notification newsletter; however, a meta-analysis suggests the evidence is still uncertain.

Data availability
Dataset 1. Raw data concerning patient demographics, type of reminder received and the returning of the questionnaire. DOI: 10.5256/f1000research.14591.d20291

Competing interests
No competing interests were disclosed.

Grant information
The REFORM study was funded by the National Institute for Health Research (NIHR) Health Technology Assessment (HTA) Programme (Programme grant number 09/77/01). This SWAT was funded by York Trials Unit.

Acknowledgements
This article has been written by the authors on behalf of the REFORM Study Team.
Supplementary material

Supplementary File 1. Complete trial protocol for the REFORM study.
Click here to access the data.

Supplementary File 2. Completed CONSORT checklist.
Click here to access the data.

References


Open Peer Review

Current Referee Status: ?

Shaun P. Treweek
Health Services Research Unit, Institute of Applied Health Sciences, School of Medicine, Medical Sciences and Nutrition, University of Aberdeen, Aberdeen, UK

This is a well-written article that was great to read. I particularly liked the recommendations in Discussion re: whether it was worth doing more SWAT evaluations. It would be good to see that sort of clarity more often.

I only have a few comments, which are listed below.

**Interventions**
Would it be possible to see the newsletter, or at least the bit relevant to this study? We have the Post-It text but not the newsletters.

**Management of postal questionnaires**
I’m guessing that the content of the reminders was the same for all participants regardless of which arm they were allocated to but could you confirm this?

**Table 1**
The gender imbalance does look odd to me. I know that you say that it is due to chance and that is of course plausible but it differs by up to about 15% across the interventions for women and by up to about 15% for men. These percentages amount to 10 - 20 or so individuals in a total sample size of 135-143. I'm not sure that size of difference would come about just by chance although, of course, it could. Are you sure it's just chance, or a feature of the randomisation/blocking/something else?

**Table 2**
Could you consider giving absolute differences for the primary outcome as well as the OR? ORs are always a bit tricky to interpret.

**Figures 4, 5 and linked text**
Two points. I think it would be good to do two GRADE assessments of the evidence included in the two forest plots. This isn’t as hard as it sounds. Depending on the design quality of the included studies (and the current 2018 one is good) my guess is that if the two other studies in Fig 4 are good studies, GRADE is high and for Fig 5 it’s moderate because of inconsistency, though you might pull it down for imprecision too (1.19 with a CI of 0.84 - 1.70 seems pretty wide to me). Regardless, I do think it would be good to say something about the certainty of the body of evidence and then link that to your recommendations in the
Discussion.

The second point is that I wasn’t sure why you used a fixed effect model for Fig 5 and a random for Fig 4. My guess is that the random effects model is the one to go for (I’d be surprised if the only differences between studies is random error but that interventions, patients, context etc are at play too). Worth thinking about anyway, especially whether the intention was for the two forest plots to use different models.

Is the work clearly and accurately presented and does it cite the current literature?  
Yes

Is the study design appropriate and is the work technically sound?  
Yes

Are sufficient details of methods and analysis provided to allow replication by others?  
Yes

If applicable, is the statistical analysis and its interpretation appropriate?  
Partly

Are all the source data underlying the results available to ensure full reproducibility?  
Yes

Are the conclusions drawn adequately supported by the results?  
Yes

Competing Interests: I am involved in an UK MRC-funded project called PROMETHEUS with one of the authors (David Torgerson) that also focuses on SWATs but was not involved in the work described in this paper.

Referee Expertise: Trial methodology

I have read this submission. I believe that I have an appropriate level of expertise to confirm that it is of an acceptable scientific standard, however I have significant reservations, as outlined above.
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