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Abstract

Objective To determine whether a short course of traditional acupuncture improves longer term outcomes for patients with persistent non-specific low back pain in primary care. Design Pragmatic, open, randomised controlled trial. Setting Three private acupuncture clinics and 18 general practices in York, England. Participants 241 adults aged 18-65 with non-specific low back pain of 4-52 weeks’ duration. Interventions 10 individualised acupuncture treatments from one of six qualified acupuncturists (160 patients) or usual care only (81 patients). Main outcome measures The primary outcome was SF-36 bodily pain measured at 12 and 24 months. Other outcomes included reported use of analgesics, scores on the Oswestry pain disability index, safety, and patient satisfaction. Results 39 general practitioners referred 289 patients of whom 241 were randomised. At 12 months average SF-36 pain scores increased by 33.2 to 64.0 in the acupuncture group and by 27.9 to 58.3 in the control group. Adjusting for baseline score and for any clustering by acupuncturist, the estimated intervention effect was 5.6 points (95% confidence interval −0.2 to 11.4) at 12 months (n = 213) and 8.0 points (2.8 to 13.2) at 24 months (n = 182). The magnitude of the difference between the groups was about 10%–15% of the final pain score in the control group. Functional disability was not improved. No serious or life threatening events were reported. Conclusions Weak evidence was found of an effect of acupuncture on persistent non-specific low back pain at 12 months, but stronger evidence of a small benefit at 24 months. Referral to a qualified traditional acupuncturist for a short course of treatment seems safe and acceptable to patients with low back pain. Trial registration ISRCTN80764175.

Introduction

Non-specific low back pain is typically intermittent and recurrent and associated with high health, social, and economic costs. About 16% of the adult population in the United Kingdom consult their general practitioner yearly for back pain, and most episodes are managed in primary care with drugs or other non-surgical treatments. Cochrane reviews exist for 13 different non-surgical treatments for back pain, including acupuncture, but the evidence is largely inconclusive and the best way to manage simple low back pain remains unclear. For chronic low back pain there is evidence of short term pain relief and functional improvement using acupuncture compared with no treatment or sham therapy, but evidence for long term effectiveness is sparse.

Acupuncture is used by an estimated 2% of adults in the United Kingdom each year for a range of conditions, including back pain. Less than 10% of provision is through the United Kingdom’s health service, mostly in primary care. The largest single group of professional acupuncturists in the United Kingdom are registered with the British Acupuncture Council, which requires three years’ training or equivalent, and these acupuncturists practise traditional acupuncture based on the principles of Chinese medicine.

We determined whether referral to a short course of traditional acupuncture delivered in a non-NHS setting improves longer term outcomes for patients with non-specific low back pain in primary care. We also monitored safety and acceptability of acupuncture to patients. A cost effectiveness study was carried out alongside this pragmatic, open, randomised controlled trial.

Participants and methods

We recruited to our study patients aged 18-65 with non-specific low back pain of 4-52 weeks’ duration who were assessed as suitable by their general practitioner for primary care management. We excluded patients who were receiving current acupuncture treatment, who had possible spinal disease (for example, carcinoma), severe or progressive motor weakness, prolapsed central disc, past spinal surgery, bleeding disorders (for example, haemophilia), or pending litigation. Thirty nine general practitioners from 16 practices identified suitable patients at consultation. The study researcher (LT) assessed eligibility, obtained consent, and recruited patients to the trial.

Outcome measures

Our primary outcome was the bodily pain dimension of the SF-36 at 12 months, scored on a 0 to 100 (no pain) scale. This assesses pain experienced in the past four weeks and has been validated for use in primary care and in patients with back pain. After a progress review and analysis of partial data for three months, we amended the protocol to include economic data at 24 months, along with an additional clinical end point at 24 months.

Our secondary outcomes were scores on the Oswestry pain disability index, the McGill present pain index, and the seven remaining dimensions of the SF-36 health status questionnaire.
Research

Each was administered at baseline and at 3, 12, and 24 months. Satisfaction with treatment was assessed at three months. We included questions on concerns about back pain and current use of analgesics at 12 and 24 months. At 24 months we collected patient reports of back pain in the past year. Follow-up was carried out by post; when this was unsuccessful we sought main outcomes by telephone.

We assessed safety by monitoring adverse events reported by patients at each acupuncture session and at follow-up of those who did not complete treatment. We also collected standardised information on responses to treatment directly from patients. Acceptability was assessed through the uptake of acupuncture, dropout rates, and patient completed items on satisfaction with aspects of care and willingness to try acupuncture again.

Intervention

We randomised patients to receive either a short course of traditional acupuncture or usual care only. The six participating acupuncturists were registered with the British Acupuncture Council, and each had at least three years’ experience. The first appointments were held in one of two non-NHS clinics in York, usually within two weeks of randomisation. Acupuncture care comprised up to 10 individualised treatment sessions over three months. Acupuncturists determined the content and the number of treatments according to patients’ needs. The acupuncture needles were disposable. All patients remained under the care of their general practitioner.

Patients in the usual care group received NHS treatment according to their general practitioner’s assessment of need. We collected information from patients at 3, 12, and 24 months on treatments received for low back pain.

Randomisation and blinding

The study statistician (MJC) provided a computer generated, blocked randomisation sequence. After consent and baseline measures had been obtained, the study researcher (LT) was told the individual treatment assignments by telephone. The number of cases in each randomisation block was not revealed to the researcher. Allocation to practitioner was by availability of appointments and convenience to patients. As this was an open trial, neither participants nor researchers were blind to treatment assignment. However, analysis of the primary outcome was repeated by a second statistician (SJW) who was blind to treatment allocation.

Statistical analysis

On the basis of a pilot study, and allowing for a 10%–15% drop-out rate, we determined that we needed 100 patients in each arm to detect a difference in outcome between the groups of 10 (SD 19.3) points for the SF-36 pain score at 12 months, at 90% power and a two sided 5% significance level. The number of patients in each randomisation block was not revealed to the researcher. Allocation to practitioner was by availability of appointments and convenience to patients. As this was an open trial, neither participants nor researchers were blind to treatment assignment. However, analysis of the primary outcome was repeated by a second statistician (SJW) who was blind to treatment allocation.

Results

Overall, 241 patients were recruited to the trial between August 1999 and January 2001. Two patients subsequently withdrew (fig 1). Table 1 shows the baseline personal and clinical characteristics of patients in each group. Both groups had on average recurrent episodes of back pain for four months and about half the patients reported more than five previous episodes of back pain. With the exception of inability to work because of low back pain, no significant differences were observed between the groups at baseline.

Treatments

All patients randomised to acupuncture accepted the referral. Pain resolved in nine patients before treatment; the remaining patients received an average of 8.1 treatments. Adjunctive care received from acupuncturists or general practitioners included massage and advice on diet, rest, and exercise (fig 2). Details of the acupuncture treatments are published elsewhere. Usual care comprised a mix of interventions. Half the patients randomised to usual care received physiotherapy or manipulation during the first three months. Other interventions included drugs and recommended back exercises (fig 2).

Follow-up

The dropout rate was within the range expected at 12 months. The rate was higher at 24 months, but similar in both groups. Those lost to follow-up were younger and had poorer SF-36 pain scores at three months. This pattern was observed in both groups, indicating no evidence of a difference between the groups in those lost to follow-up.

Clinical outcomes

Table 2 shows pain scores for patients completing follow-up at 12 and 24 months. Table 3 shows the adjusted differences between groups. An intervention effect of 5.6 points (95% confidence interval – 0.2 to 11.4) was found on the primary outcome SF-36 pain dimension in favour of the acupuncture care group at 12 months. At 24 months a statistically significant difference was found between the groups, with an estimated effect of 8.0 points (2.8 to 13.2). The acupuncture group had better scores on the Oswestry pain disability index and the McGill present pain intensity measure. These differences failed to reach statistical significance in most analyses (table 3).

Patient perceived treatment benefits

At three months patients in the acupuncture group were significantly more likely to be “very satisfied” with their treatment and with their overall care compared with patients receiving usual care but showed no such difference in satisfaction with information received. At 24 months the acupuncture group were more likely to report fewer concerns about their back pain, less likely to report current use of analgesics for their pain, and more likely to report no pain for the past 12 months (table 4).
Adverse events
No serious adverse events (an event resulting in admission to hospital or permanent disability, or both, or death) were reported by patients in the acupuncture care group. Four of the 16 patients who withdrew from acupuncture care mentioned specific minor adverse events, including transient pain at the site of needling. Of the patients who received at least one acupuncture treatment and who provided data at three months, 23% (30/133) reported a temporary worsening of low back pain during the treatment phase that bothered them “a lot” or “a great deal” at the time. However, 86% (112/133) experienced acupuncture treatment as relaxing, and 91% (126/139) were willing to have acupuncture again.

Prior expectations and beliefs
Comparison of groups classified according to expectations of improvement in back pain and belief that acupuncture might help, both stated before randomisation, showed evidence that expectations of improvement had a positive treatment effect, and weak evidence of an interaction effect whereby positive belief was associated with less benefit than neutral belief. (table 5).

Discussion
Weak evidence was found of an effect of acupuncture care on non-specific low back pain at 12 months, but stronger evidence of a small benefit at 24 months.

On the basis of pilot data our study was designed to detect a larger difference of 10 points, which was not achieved at either 12 or 24 months. A difference of at least five points in the mean score of the SF-36 bodily pain dimension is, however, considered to represent a clinically worthwhile benefit and a difference of between five and nine points can be viewed as a moderate

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**Table 1** Baseline characteristics of patients with non-specific low back pain who were randomised to acupuncture care or to usual care only. Values are numbers (percentages) unless stated otherwise

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Acupuncture care (n=159)</th>
<th>Usual care (n=80)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mean (SD) age (years)</td>
<td>42.0 (10.8)</td>
<td>44.0 (10.4)</td>
</tr>
<tr>
<td>Range</td>
<td>20 to 64</td>
<td>26 to 64</td>
</tr>
<tr>
<td>Mean (SD) weeks with back pain, range</td>
<td>17.1 (13.5), 4-48</td>
<td>16.7 (14.6), 4-48</td>
</tr>
<tr>
<td>Mean (SD) SF-36 physical functioning score</td>
<td>55.5 (25.2)</td>
<td>60.0 (21.8)</td>
</tr>
<tr>
<td>Male</td>
<td>60 (38)</td>
<td>34 (43)</td>
</tr>
<tr>
<td>Female</td>
<td>99 (62)</td>
<td>46 (58)</td>
</tr>
</tbody>
</table>

Work status:
- Works full time 82 (52) 45 (56)
- Works part-time 40 (25) 22 (28)
- Housewife 13 (8) 7 (9)
- Retired 7 (4) 4 (5)
- Student 3 (2) 1 (1)
- Permanently unable to work owing to low back pain 11 (7) —
- Permanently unable to work for other health reason 3 (2) 1 (1)

No of previous episodes of low back pain:* 25 (16) 13 (16)
1-5 97 (63) 23 (29)
>5 77 (49) 44 (55)

Presence of leg pain 106 (67) 59 (74)

Expectation of back pain in six months:
- Better 80 (50) 30 (38)
- Same or worse 78 (49) 49 (61)
- Don’t know 1 (1) 1 (1)

Thinks acupuncture will help with back pain 111 (70) 51 (64)

Drugs for low back pain in past four weeks 140 (88) 72 (90)

Major health problems in addition to back pain 44 (28) 25 (31)

Ever used private acupuncture for any reason 20 (13) 7 (9)

*Period of low back pain separated by at least three months of being pain free.

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**Fig 1** Flow of patients through trial
In this study the magnitude of the effect extends to eight points at 24 months, a difference between groups of about 10%–15% of the final pain score in the control group, and achieves statistical significance. We found no evidence of functional improvement. Other patient relevant outcomes included patient satisfaction with acupuncture care, reduced concerns about back pain, and reduced use of analgesics.

One limitation of our study is the possibility of an effect of clustering by practitioner (six acupuncturists delivered the treatment) on the statistical significance of the outcome. In this case, cluster analysis made little difference to the primary outcome of bodily pain at 12 and 24 months. Sensitivity analysis taking into account baseline covariates increased the intervention effect but did not alter the main results. Groups were well balanced at base-

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**Table 2** Observed mean pain outcome scores over time by acupuncture or usual care groups

<table>
<thead>
<tr>
<th>Variable</th>
<th>Baseline</th>
<th>Acupuncture care</th>
<th>Usual care</th>
<th>12 months</th>
<th>Acupuncture care</th>
<th>Usual care</th>
<th>24 months</th>
<th>Acupuncture care</th>
<th>Usual care</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mean (SD)</td>
<td>No of patients</td>
<td>Mean (SD)</td>
<td>No of patients</td>
<td>Mean (SD)</td>
<td>No of patients</td>
<td>Mean (SD)</td>
<td>No of patients</td>
<td>Mean (SD)</td>
</tr>
<tr>
<td>All cases:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SF-36 bodily pain score*</td>
<td>30.8 (16.2)</td>
<td>159</td>
<td>30.4 (18.6)</td>
<td>80</td>
<td>64.0 (25.6)</td>
<td>147</td>
<td>58.3 (22.2)</td>
<td>68</td>
<td>67.8 (24.1)</td>
</tr>
<tr>
<td>Oswestry pain disability index†</td>
<td>33.7 (15.4)</td>
<td>159</td>
<td>31.4 (14.2)</td>
<td>80</td>
<td>20.6 (19.3)</td>
<td>134</td>
<td>19.6 (15.4)</td>
<td>57</td>
<td>18.3 (16.5)</td>
</tr>
<tr>
<td>McGill present pain index‡</td>
<td>2.64 (1.0)</td>
<td>159</td>
<td>2.70 (1.0)</td>
<td>80</td>
<td>1.43 (1.1)</td>
<td>135</td>
<td>1.53 (0.9)</td>
<td>57</td>
<td>1.42 (1.1)</td>
</tr>
</tbody>
</table>

*Scored on a 0 to 100 (no pain) scale.
†Scored on a 0 (no pain) to 100 scale.
‡Scored on a 0 (no pain) to 5 scale.

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**Table 3** Difference in outcome scores between acupuncture and usual care groups at 12 and 24 months

<table>
<thead>
<tr>
<th>Variable</th>
<th>12 months</th>
<th>24 months</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No of patients</td>
<td>Difference* (95% CI)</td>
</tr>
<tr>
<td>SF-36 bodily pain score:</td>
<td>215</td>
<td>5.7 (−1.4 to 12.8)</td>
</tr>
<tr>
<td>Unadjusted difference</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Difference adjusted for baseline pain score and clustering by acupuncturist</td>
<td>213</td>
<td>5.6 (−0.2 to 11.4)</td>
</tr>
<tr>
<td>Difference adjusted for baseline pain score and other baseline covariates†</td>
<td>212</td>
<td>6.0 (−0.6 to 12.6)</td>
</tr>
<tr>
<td>Oswestry pain disability index:</td>
<td>191</td>
<td>0.8 (−3.8 to 5.6)</td>
</tr>
<tr>
<td>Unadjusted scores</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Difference adjusted for baseline pain score and clustering by acupuncturist</td>
<td>191</td>
<td>−0.5 (−5.1 to 4.2)</td>
</tr>
<tr>
<td>McGill present pain index:</td>
<td>192</td>
<td>−0.1 (−0.4 to 0.2)</td>
</tr>
<tr>
<td>Unadjusted scores</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Difference adjusted for baseline pain score and clustering by acupuncturist</td>
<td>192</td>
<td>−0.1 (−0.4 to 0.3)</td>
</tr>
</tbody>
</table>

*Improvement is indicated by negative change for Oswestry and McGill present pain index and by positive change on SF-36.
†Baseline covariates include duration of current episode of low back pain in weeks, expectation of back pain in six months, SF-36 physical functioning, and reported pain in legs.

---

**Table 4** Other outcomes reported at 24 months’ follow-up after acupuncture care or usual care. Values are numbers (percentages) unless stated otherwise

<table>
<thead>
<tr>
<th>Outcome</th>
<th>Acupuncture group</th>
<th>Usual care group</th>
<th>% Difference (95% CI)</th>
<th>P value*</th>
</tr>
</thead>
<tbody>
<tr>
<td>In the past 12 months you had low back pain or leg pain?:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yes</td>
<td>90 (82)</td>
<td>46 (92)</td>
<td>10 (−10 to 20)</td>
<td>0.06†</td>
</tr>
<tr>
<td>No</td>
<td>21 (18)</td>
<td>4 (8)</td>
<td>(−20 to 2)</td>
<td></td>
</tr>
<tr>
<td>During the past four weeks have you used any medicine for low back pain?:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yes</td>
<td>45 (40)</td>
<td>29 (59)</td>
<td>19 (−35 to −3)</td>
<td>0.03†</td>
</tr>
<tr>
<td>No</td>
<td>68 (60)</td>
<td>20 (41)</td>
<td>(−35 to −3)</td>
<td></td>
</tr>
</tbody>
</table>

*Chi square test.  
†1 df.
‡2 df.
widely reported relaxing experience of the treatment itself. Non-specific effects observed in acupuncture trials. Positive patient beliefs about how acupuncture might owing to prior patient beliefs about how acupuncture might be vulnerable to confounding or bias. Non-restrictive treatment protocol that allowed acupuncturists to successful patient recruitment, wide eligibility criteria, and a missing values with prior observations did not change the characteristics of missing cases, and sensitivity analysis substituting negative expectations of improvement in back pain that was not observed in the usual care group. A qualitative investigation is indicated to explore the meaning to patients of this reduction in worry, its relation to patient coping strategies, and its implications for the care and management of this group of patients. We evaluated a package of care and cannot isolate the components of acupuncture treatment that are associated with the outcomes observed in the acupuncture group. Beyond the needling itself, several aspects of acupuncture care in this trial could contribute to its observed effectiveness, including the individualising of treatment, the interaction effect generated by the combination of specific effects, the practitioner’s skills at developing good therapeutic relationships, process benefits such as protected time and attention from the practitioner, and the widely reported relaxing experience of the treatment itself. An open pragmatic trial avoids the potential problems associated with using sham acupuncture as the control. Such a design may, however, be vulnerable to confounding or bias owing to prior patient beliefs about how acupuncture might help, especially when using subjectively assessed outcome measures, such as perceived pain. Positive patient beliefs about acupuncture have been cited as a possible mechanism for non-specific effects observed in acupuncture trials. Our exploratory analysis does not seem to support this hypothesis. Patients in the acupuncture group with a prior positive belief in the effectiveness of acupuncture fared little better than those randomised to usual care. In contrast, patients with neutral prior belief gained relatively more benefit from acupuncture care. In addition, positive expectations of improvement in back pain seem to reinforce the effect of acupuncture care. Overall, 76% of our participants were followed up at 24 months. We detected no difference between groups in the known characteristics of missing cases, and sensitivity analysis substituting missing values with prior observations did not change the main findings, but the effect of the missing data is unknown. The strengths of our study were the pragmatic randomised design, successful patient recruitment, wide eligibility criteria, and a non-restrictive treatment protocol that allowed acupuncturists to treat patients as they would do in everyday practice. The acupuncturists were selected through reproducible criteria, and the ratio of six practitioners to 16 general practices is similar to the national ratio of acupuncturists registered with the British Acupuncture Council to general practices. All these factors enhance the relevance of the results by replicating conditions under which an acupuncture service might be offered and used in NHS primary care. Recruitment to the trial suggests that general practitioners are able to identify suitable patients for referral. In a retrospective survey, participating general practitioners estimated that they had identified about half the eligible patients seen in the recruiting period. No evidence was found of reluctance by general practitioners to refer patients for acupuncture. The results from this trial on the safety and possible benefits of acupuncture care for low back pain will be of interest to general practitioners who are asked about such treatment by their patients, and to patients considering acupuncture care outside the NHS. However, the generalisability of our findings rests on the assumption that participating acupuncturists, general practitioners, and patients in York are similar to those found elsewhere. Studies of interventions for low back pain are particularly susceptible to effects arising from a regression to the mean; patients will tend to seek help at the point when the pain is at its worst or least bearable, and the clinical course of the condition is that the pain will reduce substantially for most people, with or without treatment. Commentators have indicated a need for more evidence of longer term effects, particularly related to discrete, short term interventions delivered early in an episode of persistent low back pain, that result in a reduction in recurrence and persistence of symptoms. Our study contributes evidence for a short term acupuncture intervention compared with usual general practitioner care for non-specific low back pain. Further clinical research is indicated to investigate the optimum timing for such an acupuncture treatment package, and to assess the value of repeated courses of acupuncture for patients experiencing recurrent episodes of low back pain. To address the question of whether the clinical benefits observed justify the cost of the therapy, we report the cost effectiveness of this intervention in the accompanying economics paper.

We thank the patients, primary care staff, acupuncturists, and members of the trial advisory group, particularly Trevor Sheldon, Sally Bell-Sayer, and David Laverick our patient representative. © Crown copyright 2006. Contributors: KJT was principal investigator and grant holder. She is guarantor. KJT, HMacP, MF, JB, JPN, and MJC developed the protocol, secured initial funding, and implemented the study. HMacP, LT, and JB secured funding for the 24 months’ follow-up. LT recruited patients and managed the trial. MR advised and helped recruit the general practitioners. HMacP supervised the clinical intervention. KJT, MJC, and JPN carried out the statistical analysis. SJW undertook independent statistical analysis of the primary outcomes. KJT wrote the original draft with HMacP. All authors

### Table 5: Exploratory analyses of baseline expectations of improvement to back pain and belief that acupuncture might help, with SF-36 pain scores at 24 months’ follow-up after acupuncture care or usual care

<table>
<thead>
<tr>
<th>Baseline question</th>
<th>No of patients</th>
<th>Mean scores for SF-36 bodily pain at 24 months</th>
<th>Estimated treatment effect adjusted for baseline pain score</th>
<th>P value for interaction</th>
</tr>
</thead>
<tbody>
<tr>
<td>How do you expect your back pain to be in six months?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Much better or better</td>
<td>82</td>
<td>66.4</td>
<td>62.8</td>
<td>3.3</td>
</tr>
<tr>
<td>Same or worse</td>
<td>97</td>
<td>71.0</td>
<td>52.6</td>
<td>18.2</td>
</tr>
<tr>
<td>Do you think your back problem may be helped by acupuncture?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yes</td>
<td>128</td>
<td>73.1</td>
<td>56.9</td>
<td>16.7</td>
</tr>
<tr>
<td>Don’t know or no</td>
<td>56</td>
<td>62.7</td>
<td>60.6</td>
<td>1.2</td>
</tr>
</tbody>
</table>

*Only one patient stated “no.”*
What is already known on this topic

Non-specific low back pain is typically a recurrent condition associated with high health and social costs

Many people with back pain seek acupuncture treatment; however, evidence for long term effectiveness is sparse

What this study adds

Weak evidence was found of an effect of acupuncture care on non-specific low back pain at 12 months, but stronger evidence of a small benefit at 24 months

Referral to a qualified acupuncturist seems safe and acceptable to patients with low back pain

Research

commented on the draft and contributed to the interpretation of the findings.

Funding: This study was funded by the UK NHS Executive health technology programme. The views and opinions expressed do not necessarily reflect those of the NHS Executive. York Health Authority funded the treatment costs of the acupuncture. The National Coordinating Centre for Health Technology Assessment reviewed the protocol and the final report but had no direct involvement in the research process. KJT and JB joined the commissioning group of the National Coordinating Centre for Health Technology Assessment after funding for this study was awarded. Jon Nicholl is currently chair of the National Coordinating Centre for Health Technology Assessment commissioning group.

Competing interests: None declared.

Ethical approval: This study was approved by York research ethics committee.

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