Identifying patients' beliefs about treatments for chronic low back pain in primary care: a focus group study
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Identifying patients’ beliefs about treatments for chronic low back pain in primary care: a focus group study

Abstract

**Background**
Current evidence-based guidelines for low back pain (LBP) recommend multiple diverse approaches to treatment and suggest considering patient preferences when formulating a treatment plan.

**Aim**
To explore patient preferences and to identify patients’ beliefs about LBP treatments.

**Design and setting**
Qualitative study using focus groups in primary care in South-West England.

**Method**
Thirteen focus groups were organised with a purposive sample of 75 adults with LBP. Group discussions of LBP treatments were facilitated, audiorecorded, and the verbatim transcripts thematically analysed.

**Results**
Eight themes were identified, four related to treatment beliefs and four to seeking treatment. Treatment beliefs comprised participants’ expectations and appraisals of specific treatments, which were underpinned by four distinct dimensions: credibility, effectivenes, concerns and individual fit. Treatment beliefs were expressed in the broader context of treatment seeking: participants’ primary concern was to obtain a clear explanation of their LBP which went beyond a diagnostic label and provided an understanding of the cause(s) of their LBP. They described engaging in self-management activities and claimed they were willing to try anything if it might help them. Participants wanted an empathic and expert practitioner who could deliver a suitable treatment (for them) on to someone else and help them to negotiate the challenges of the healthcare system.

**Conclusion**
These findings highlight the importance of helping patients develop coherent illness representations about their LBP before trying to engage them in treatment-decisions, uptake, or adherence. Addressing patients’ illness and treatment perceptions in clinical practice could improve shared decision making and patient outcomes.

**Keywords**
back pain, health knowledge, attitudes, practice; illness behaviour; patient preference; primary health care; qualitative research.

INTRODUCTION

Low back pain (LBP) is experienced by up to 84% of the population and is often accompanied by substantial personal, social, and economic consequences.²⁻⁴ No single treatment is universally effective; the challenge for patients and clinicians is to identify the optimum treatment for the individual. This is reflected in current evidence-based recommendations for LBP management which incorporate not only medical and psychological approaches but also physical treatments, exercise, and complementary and alternative medicines (CAMs).⁵⁻⁷

Recent models of stratified primary care based on risk of poor prognosis offer new approaches to matching patients to suitable treatments.⁸ Another approach is to consider patient preferences, in line with increasing awareness of the need to promote shared decision making in health care.⁹ Qualitative methods are ideally suited to patients’ perspectives in an open and non-directive manner.¹⁰ Prior qualitative research in LBP has focused on patients’ lived experiences, including desires for clear diagnosis, adequate explanations, instructions and pain relief, access to a range of diagnostic and treatment services, and partnerships with clinicians.¹¹⁻¹⁵ Others have highlighted the psychological burden of LBP and struggles for understanding and legitimisation.¹⁶⁻²⁰ Few have focused on patients’ perspectives on treatment. A qualitative study was conducted to explore patients’ beliefs about LBP treatments.

METHOD

**Design**
Focus groups were used to collect qualitative data because they: efficiently elicit qualitative data from multiple participants; produce data that reflect socially acceptable experiences, beliefs, and language, allow researchers to observe interactions between participants and thus reflect participants’ own understandings.²¹⁻²² The topic guide (Appendix 1) elicited discussion of multiple LBP treatments, with a focus on those named in the current UK clinical guidelines (medication, exercise, manual therapy, acupuncture, combined psychological and physical treatment programmes, and spinal surgery); these overlap with other international guidelines.²³⁻²⁷

**Participants**
The inclusion criteria were: adult (≥18 years), conversant in English, history of LBP at least 6 weeks, not caused by fracture, infection, inflammatory disorder, cancer, or nerve root compression. Participants best placed to help explore beliefs about
and experiences of LBP treatments were purposively sampled. As there was interest in how patients go about evaluating different treatments (not whether a treatment is evaluated positively or negatively), some participants who had and some who had not experienced each treatment, and some who had and had not found each treatment helpful were sampled. Diversity was also ensured in sex, age, and location.

Potential participants across South-West England were identified from a) lists of patients who had recently consulted their family doctor or CAM practitioner because of LBP and b) members of a chronic pain patient support group. They were informed about the study and invited to participate. Seventy-five responders participated in 13 focus groups. Participants were between 29 and 85 years old (median = 62 years), 66% were female, and approximately two-thirds had pain for more than 3 years (Table 1). Each focus group included 4–10 participants (median = 6) and lasted 70–90 minutes (mean/median 80). Groups were held during 2011 at doctors’ premises and were audiorecorded (with prior written informed consent), transcribed verbatim, and anonymised. Data analysis and collection proceeded iteratively; focus groups were stopped when participants with diverse experiences and characteristics had been sampled, when no new themes were apparent, and when existing themes were well-elaborated.

Data analysis
Thematic analysis was conducted and NVivo (version 9) was used for data management and coding. After repeated reading of transcripts and listening to audiorecordings, participants’ talk was analysed at the level of meaning unit (a statement that expresses a single meaning). First, talk was deductively categorised as related to a recommended treatment (medication, exercise, manual therapy, acupuncture, combined psychological and physical treatment programmes, or spinal surgery), to other treatments, or to clinical management of LBP. Then, an inductive approach was taken to identify dimensions underlying participants’ perceptions of particular treatments (treatment beliefs) and themes related to the clinical management of LBP (collectively labelled treatment seeking). Strategies to enhance analytic rigour included constant comparison of categories, themes, and talk between and within focus groups and about the same and different treatments, coding led by one researcher reviewed by a second, and discussion of the emerging analysis by the research team (Appendix 2). Illustrative quotes presented below were selected from the coded transcripts for typicality and eloquence in illustrating the themes.

RESULTS
Figure 1 illustrates the main themes and their inter-relations.

Treatment beliefs
Participants evaluated treatments holistically

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Table 1. Participants’ characteristics (N = 75)

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>N (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age</td>
<td>29–85 years (median 62 years)</td>
</tr>
<tr>
<td>Females</td>
<td>48 (64)</td>
</tr>
<tr>
<td>Location</td>
<td></td>
</tr>
<tr>
<td>Hampshire</td>
<td>55 (73)</td>
</tr>
<tr>
<td>Dorset</td>
<td>8 (11)</td>
</tr>
<tr>
<td>Wiltshire</td>
<td>6 (8)</td>
</tr>
<tr>
<td>Isle of Wight</td>
<td>6 (8)</td>
</tr>
<tr>
<td>Recruitment source</td>
<td></td>
</tr>
<tr>
<td>Family doctor</td>
<td>66 (88)</td>
</tr>
<tr>
<td>CAM practitioner</td>
<td>5 (7)</td>
</tr>
<tr>
<td>Chronic pain patient support group</td>
<td>4 (5)</td>
</tr>
<tr>
<td>Pain duration</td>
<td></td>
</tr>
<tr>
<td>Persistent LBP (6wks–12 months)</td>
<td>16 (21)</td>
</tr>
<tr>
<td>Chronic/recurrent LBP (12 months–3 years)</td>
<td>9 (12)</td>
</tr>
<tr>
<td>Chronic/recurrent LBP (&gt;3 years)</td>
<td>50 (67)</td>
</tr>
<tr>
<td>Treatments experienced</td>
<td></td>
</tr>
<tr>
<td>Self-management advice</td>
<td>10 (13)</td>
</tr>
<tr>
<td>Pain medication</td>
<td>67 (89)</td>
</tr>
<tr>
<td>Manual therapy</td>
<td>63 (84)</td>
</tr>
<tr>
<td>Exercise</td>
<td>46 (61)</td>
</tr>
<tr>
<td>Acupuncture</td>
<td>18 (24)</td>
</tr>
<tr>
<td>Psychological and physical programme</td>
<td>6 (8)</td>
</tr>
<tr>
<td>Referral for spinal fusion</td>
<td>5 (7)</td>
</tr>
</tbody>
</table>

CAM = complementary and alternative medicine. LBP = low back pain.
Concerns
Self-management

for the sake of operating.'
option they got, they ain't going to operate just  limitations and obviously as you get older, the  come to the end of the road and that's the only  because you've already embarked on having

Spinal fusion Not discussed. Last resort; medium-term solution: Inherent risks of surgery; implications of

matter is …'

but I find it very, very hard to think that mind over  whatever's hurting, I can lay there and really try it  to look after your own back.'

Combined psychological and physical approach

Teaches self-management; improves posture;  releases tension:

When you go to a course like that, everybody's in the  same situation and you know, and it was you know,  and you learn you learn a lot about you know how  to look after your own back.' [Female, FG11]

Spinal fusion Not discussed.

Last resort; medium-term solution:
Surgery is a last resort, you know, you try, like  you say, all of that on there, then you know, you  come to the end of the road and that's the only  option they got, they ain't going to operate just  for the sake of operating.' [Male, FG9]

Inherent risks of surgery; implications of  permanent changes to the spine:  It's a loss almost, it's to me it's almost a sadness  because you've already embarked on having  limitations and obviously as you get older, the  limitations may increase. [Female, FG8]

Table 2. How treatment beliefs were expressed in relation to specific treatments

<table>
<thead>
<tr>
<th>Credibility — perceived mechanisms</th>
<th>Effectiveness and effects</th>
<th>Concerns</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medications</td>
<td>Temporary relief; prevents worsening; enables activity; last resort: 'I don’t think it’s a way of getting over, you know, if it’s not going to fix your back, but it’s a way of helping just make it a little bit easier for yourself.' [Male, FG12]</td>
<td>Side effects; poly-pharmacy; addiction and desensitisation; masks pain and could lead to further damage: You take one tablet but then you have to take two or three tablets to counteract that one tablet that you’re taking.’ [Male, FG13]</td>
</tr>
<tr>
<td>Exercise</td>
<td>Temporary relief; maintenance; enables activity; cure: 'There’s not a cure, because there is no reversing it and that’s what they told me so the only way to do it is to maintain it and to do that is to have exercise.’ [Male, FG2]</td>
<td>Injuring the back; difficulties maintaining motivation: If you start to feel a little bit of an improvement, it’s an encouragement to keep on at it, but then you get a bad day and you just don’t you — just can’t face doing any exercise so you just give up on it in the end.’ [Female, FG11]</td>
</tr>
<tr>
<td>Manual therapy</td>
<td>Temporary relief; maintenance; prevents worsening; cure: 'The only thing I found useful there in a more permanent place is exercise… [j] to strengthen the muscles so that they hold the spine in a more useful position. ‘Male, FG7)</td>
<td>Feeling sore after manipulation; causing further damage; ‘cracking’ bones: You lie on this bed and the first thing he does is crack your back so one part’s up there and one part’s down and all of a sudden he pulls this lever and you think, my god my back’s broken.’ [Female, FG5]</td>
</tr>
<tr>
<td>Acupuncture</td>
<td>Temporary relief; cure: 'Lasted about 4 months, three sessions and it lasted about 4 months and that was you know.' [Male, FG8]</td>
<td>Fear of needles; needling painful: You haven’t got to look at the needles, they are gonna be in your back, so that doesn’t phase me, it’s not the thought of it, it’s actually seeing them go in to your skin. (Male, FG12)</td>
</tr>
<tr>
<td>Combined psychological and physical approach</td>
<td>Last resort: 'I think it’s basically telling you that you’ve got your bad back and you're going to have to look after it for you, you keep yourself fit by doing gentle exercise.’ [Female, FG11]</td>
<td>Being diagnosed (stigmatised) with a psychological disorder; controlling pain is difficult to learn: At first I found it very hard to get my head around what he was saying and even now, I try to do it if I’m in a really bad day, my back or my knees of whatever’s hurting, I can lay there and really try it but I find it very, very hard to think that mind over matter is …’ [Male, FG13]</td>
</tr>
</tbody>
</table>

Figure 1. Thematic map showing themes related to treatment beliefs and seeking treatment.

Credibility
According to participants, a treatment should be credible [a ‘proper treatment’],

Table 2 summarises how these dimensions were expressed for each recommended treatment.

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should ‘make sense’ [have a believable mechanism of action], and should be delivered by ‘the right practitioner’. Some participants argued that a treatment should match the perceived location and cause of their condition, for example, massage was credible for muscle problems. Table 3 illustrates strategies participants used for assessing credibility in the absence of personal experience. Credibility was often evaluated by comparing treatments, and a treatment perceived as lacking credibility could be considered for a trial period to assess its effectiveness and safety, or could become a preferred option if more credible treatments were tried and found ineffective.

Effectiveness
There was clear consensus that treatments should have proven effectiveness for LBP. Three treatments were discussed as potential cures which might enable a patient to regain prior good health (exercise, acupuncture, and manual therapy) but these treatments were also described by other participants as providing only temporary relief or preventing symptoms worsening. Medications were perceived as providing temporary relief, an ‘easy fix’ to avoid but not address the underlying problem. However, temporary relief could itself be a valued outcome if it enabled participants to retain or regain valued life activities or enable self-management. Some participants acknowledged that hoping for a permanent cure was unrealistic.

Concerns
Participants expressed concerns about the treatment costs (such as financial, time, and travel) and safety [such as longer-term side effects, risk of damage, and painful treatments]. The specific content varied across treatments [Table 2], but generally concerns deterred participants from trying or led them to adjust or discontinue recommended treatments. For example, participants were deterred from trying acupuncture because of concerns over needles. They adjusted or stopped medication because of concerns about addiction, drug desensitisation, and the potential to cause further damage by masking pain.

When perceived effectiveness was high this could help participants overcome concerns:

‘You’ve got no chance of stopping it if it’s going to go wrong, so I think that the chiro[practor] from my own personal viewpoint would be I’ve got to see some positive results from others before I go for it myself’. (Male, FG11)

Individual fit
Participants discussed how, ideally, a treatment should fit the patient’s individual circumstances and characteristics (such as age, injury, and lifestyle) and get to the root cause of their LBP. An appropriate exercise programme would provide individualised recommendations [not standardised exercise print-outs] and supervision to ensure correct, safe, and effective exercise. While a good fit for the individual was seen as an important precursor for effective individual treatment, this was assessed independently of general treatment effectiveness:

‘Whenever they were doing any kind of massage or anything into my back, they were never hitting the spots ever, but I don’t think it’s down to them I think it’s whatever they do isn’t right for me’. (Female, FG7)

Seeking treatment
Participants’ treatment beliefs were expressed and should be understood in the context of their broader treatment-seeking experiences.

‘Proper’ diagnosis is an essential first step
Receiving a diagnosis came as a relief for some participants, particularly those with concerns about possible sinister causes of LBP. However, diagnosis in its various forms was also experienced as insufficient, confusing, worrying, or dismissive. ‘Low back pain’ and similar labels were deemed insufficient generic diagnoses. Instead, participants wanted individualised explanations of the causal factors responsible for their pain:

‘We’ve all got pain and got different reasons

| Table 3. Strategies participants used for assessing treatment and practitioner credibility in the absence of personal experience |
| Strategy/source of information to assess credibility | Illustrative quote |
| Recommendations from trusted sources, personal, or professional | ‘If it was recommended by somebody I had confidence in. [...] if it’s somebody who’s either had it done or it’s recommended by a GP’. Male, FG10 |
| Mass media | ‘Definitely would consider it yeah, it actually sounds interesting, you see enough of it on the television’. Female, FG8 |
| Practitioner’s training and qualifications | ‘I went to see a properly qualified acupuncturist who spent 4 years training to become a proper acupuncturist, I didn’t just go and put myself into the hands of a physiotherapist who’d had half an hour’s training’. Female, FG10 |
I’ll try. Ask to be referred to the pain clinic in [town 2] and they won’t. No one’s offered me a pain clinic.

’Oh do they?’

’Ask your GP to be referred.’

’Yeah to the pain clinic.’

’Ask to be referred to the pain clinic in [town 2] and they will refer you on a pain management program, but you have to go through the pain clinic ... to go on it.’

’No one’s offered me a pain clinic.’ (FG13)

Table 4. Excerpts from focus groups to illustrate participants sharing experiences about treatment seeking

<table>
<thead>
<tr>
<th>Topic</th>
<th>Illustrative excerpt</th>
</tr>
</thead>
<tbody>
<tr>
<td>The impact of clinicians and the healthcare system</td>
<td>FP: A friend of mine ... went down to [town] hospital and... she’s been on a pain management course — MP: They run one in [town 2]. FP: ‘Oh do they?’ MP: ‘Ask your doctor.’ MP: ‘Ask your GP to be referred.’ FP: ‘Yeah to the pain clinic.’ MP: ‘Ask to be referred to the pain clinic in [town 2] and they will refer you on a pain management program, but you have to go through the pain clinic ... to go on it.’ FP: ‘No one’s offered me a pain clinic.’ (FG13)</td>
</tr>
<tr>
<td>Self-management</td>
<td>FP1: it is doing your homework about who you need to see and why you need to see them but I’m sure — FP2: ‘That’s the doctor’s job isn’t it?’ FP1: ‘Not always, not always.’ FP3: ‘I think you have to take some responsibility for.’ FP2: ‘But I’m nowhere near a doctor, so if I’ve got a certain pain I wouldn’t know who to go to, I would have no idea.’ (FG8)</td>
</tr>
</tbody>
</table>

For causing it I should think’ (Male, FG12).

Typically, physiological or anatomical explanations were sought and valued:

‘What helped me a lot [...] was trying to understand what’s going on, you know, how the back works and what it looks like and what the muscles are and, you know, where the nerves are’ (Male, FG4).

Consistent with this perspective, participants argued that accurate diagnosis could only be achieved through detailed examination (assessment through physical touch) and/or tests (X-rays and MRI scans), although some limitations and risks of tests were acknowledged.

‘Certainly, at the moment, I don’t believe anything that I’ve been told is going to cure whatever I’ve got because I don’t know what I’ve got. So it’s a bit up in the air but can you see where I’m coming from; I need to know, so that I know what they are doing to me is going to help me.’ (Female, FG1)

Willing to try anything, but ...

Participants expressed willingness to experience different treatments (’I’ll try anything’; Female, FG8), but usually qualified this by considering effectiveness (’anything that would actually help and you know would help’; Male, FG12), or credibility (’if a doctor said to me you need this done’; Female, FG8). Willingness to try different treatments was also contingent on their emerging effectiveness; participants talked about assessing effectiveness during ‘trial periods’. Opinions differed regarding the length of trial periods:

‘You know if it didn’t work the first time for me I would probably think that’s not for me, but you did try it three times so you know’ (Female, FG8).

Participants valued a systematic active approach to monitoring and evaluating initial effectiveness of individualised treatment within the context of an on-going therapeutic relationship:

‘I’d like an action plan so that after a certain time — so if he said to me, you know, let’s give it 3 months, I’ll give you all these exercises, I’ll give you this to do, I’ll give you that to do, come back in 3 months and let’s see where you are in 3 months’ time.’ (Female, FG2)

Clinicians and the healthcare system

Participants wanted clinicians to be knowledgeable, conscientious, empathic, respectful, and trustworthy; to acknowledge and believe individual’s experiences of pain; and to provide adequate treatment (according to the above dimensions). Participants were concerned not to be seen as malingerers or hypochondriacs; some described this as
a reason for avoiding seeking care despite wanting treatment. Those who sought care found it distressing to feel disrespected or disbelieved by a practitioner. They discussed feeling ‘fobbed off’, ‘dumped’ and ‘dismissed’ when told to live with pain and that it had no physical cause or was a natural consequence of aging:

“When you’re told ‘live with it’, it’s the most awful feeling, you know and sometimes you’re just reduced to tears because you think if they won’t help, what can you do?” (Male, FG2).

Using the healthcare system was described as a challenging process of negotiating referrals, tests and treatments. Participants were concerned to maximise their chances of obtaining good quality care and to minimise demands on their personal resources [such as private sector financial costs, travel costs, timing of appointments, and waiting lists]. Some participants greatly valued the advocacy role that family doctors can play in helping them to negotiate the system. As participants shared their experiences with each other during the focus groups a collaborative process of trying to understand how the system operates was observed. This encompassed discussions of procedures for obtaining appointments and referrals, allocation of resources, key decision-makers, and local availability of treatments (Table 4).

Self-management
Recommended treatments were considered and used alongside self-management techniques, such as: changing postural habits and ergonomics; goal-setting and pacing; sleep behaviours and postures; emotion regulation and distraction. Techniques were seen as prohibitively difficult; as strategies that complement and/or supplement clinician-delivered treatment; and as valuable ways to take personal control of LBP. Participants who were unwilling to change their habits or lifestyle typically were not confident in their ability to self-manage or to make decisions; they preferred doctors to choose treatments for them (Table 4). Participants who primarily self-managed their LBP typically preferred to choose for themselves which clinicians to consult and/or which treatments to trial to supplement their daily self-management (for example, during flare-ups).

DISCUSSION
Summary
Four core dimensions underpinned patients’ beliefs about LBP therapies: credibility, effectiveness, concerns and individual fit. These beliefs were expressed in the broader context of self-management, clinicians, and health care systems. The participants’ primary concern was to obtain a clear explanation of their LBP that went beyond a diagnostic label to help them to understand the cause(s) of their pain. This appears to be an essential prerequisite for meaningful engagement with treatment decision making.

Strengths and limitations
Not all patients’ views of all LBP treatments were considered but many commonly recommended treatments have been covered. Participants had persistent, chronic, or recurrent LBP; they might have better-elaborated and more entrenched views about treatments than patients with acute LBP. Participants were recruited from South-West England; the findings will reflect local health services. Focus groups allowed the study to observe patients learning from each other, but participants who had experienced a particular treatment tended to contribute more to discussions of that treatment than those with less experience.

Comparison with existing literature
This study’s findings can be interpreted in relation to Leventhal’s common-sense model of illness behaviour, according to which patients form illness representations26 and treatment beliefs27 which inform the iterative selection and appraisal of coping strategies including healthcare utilisation.28–30 In the current study, patients wanted a clear explanation of their pain which provided not only a diagnostic label but, more importantly, an individualised causal understanding; that is, they were striving to develop a realistic illness representation. This was an essential prerequisite for engaging with treatment decisions: uncertain and poorly elaborated understandings of LBP appeared to have a dramatic impact, driving reluctance to engage with decision making and/or recommended treatments. Others have similarly described the impact of illness uncertainty [and lack of legitimisation] on psychosocial adjustment15,18,19,31 and patients’ often-frustrated desires for clear explanations for pain.11,12,14,16 The current study extends this literature by demonstrating the potential consequences of illness uncertainty for treatment beliefs and decisions in patients with chronic LBP.

Four core dimensions underpinning treatment beliefs about diverse therapeutic
approaches were identified: a treatment should have a credible mechanism of action and be delivered by a credible clinician, should have proven effectiveness in attaining a relevant short- or long-term goal, should prompt few concerns about safety and accessibility, and should be a good individual fit for the person’s diagnosis and life circumstances. These constructs partially overlap with dimensions underpinning beliefs about medicines (necessity and concerns) and constructs from psychotherapy (credibility and expectancy). Patients’ beliefs about LBP treatments cannot fully be understood with these existing constructs, as individualised fit is essential in this context.

Implications for practice and research
Quantitative studies are needed to test hypotheses concerning the correlates and impact of patients’ treatment beliefs. A questionnaire to measure the range of LBP treatment beliefs identified here is being validated; this will enable future studies to compare treatment beliefs between different groups of patients (for example acute/chronic LBP; males/females; treatment experienced/naive) and to test the impact of treatment beliefs on treatment-related decisions, behaviours, and outcomes.

Many clinicians struggle with communicating a clear explanation or specific diagnosis for patients with LBP and guidelines consistently recommend a focused history and physical examination but no routine imaging. Indeed achieving reliable and valid, specific, diagnoses for most patients with LBP is neither possible nor desirable. This study’s participants’ desire for causal explanations suggests greater educational efforts are needed to explain to the general public why diagnostic tests such as X-rays are not routinely recommended. This would usefully assist clinicians’ efforts in addressing diagnostic expectations of individual patients.

Offering information about treatments in a standardised, non-interactive, format (such as a leaflet) is likely to be of limited value, since LBP patients tend to prefer an individualised approach and differ in their information needs. Stiggelbout and colleagues recommend a strategy to achieve patient-centred decision making in consultations; this study suggests adjustments to this process for patients with LBP. These are summarised in Table 5. This approach could be further developed to support clinicians in helping their patients to develop illness representations that are coherent and pragmatic (that is, perceived as useful for guiding action). Clinicians could use the common-sense model to guide discussion around the core dimensions of illness perception: identity (symptoms and diagnostic label), causal factors (heavily emphasised by this study’s participants), timeline, consequences, and controllability (probing the specific dimensions of treatment beliefs identified above). Developing and testing such a theory-driven, consultation-based, communication strategy to improve proximal (such as treatment uptake, adherence) and distal (such as function) health outcomes may be helpful.

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Ethical approval
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Provenance
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Competing interests
The authors have declared no competing interests.

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REFERENCES

Appendix 1. Focus group topic guide

- Generate a list of treatments that participants:
  - Have tried in the past
  - Would like to try
  - Do not want to try
- Open discussion of each treatment, including:
  - Personal experiences
  - Advantages
  - Disadvantages
  - Reasons for use/not use
- Open discussion of experiences of seeking care for low back pain
- Generate a wish-list of desired approach and treatments for low back pain in primary care

Appendix 2. The influence of the researchers on the qualitative analysis

A critical realist approach to this work was taken. The ontological assumption is that while participants’ experiences cannot be objectively observed by attending to their accounts, their accounts can be treated as a representation of their experiences. Epistemologically, it can be assumed that the act of research (in this case the focus group) has an unavoidable role in shaping the participants’ talk and that the analyst similarly brings existing theories and knowledge to bear when interpreting the data. It is possible to reduce the inappropriate influences of the researchers in the production of what is necessarily culturally-bound knowledge. By describing the background here it is hoped to render transparent the theories and knowledge that were drew on when interpreting the data.

The analysis was led by Alexandra Dima, who also organised the focus groups. She is a post-doctoral researcher in health psychology interested in how patients manage chronic conditions, including their perceptions of illness and treatments, their health behaviours and their communication with the healthcare providers. Her doctoral thesis focused on patient’s adjustment to chronic pain conditions, including low back pain. She is familiar with various theoretical models of heath behaviour and pain perception and coping. Felicity L Bishop had detailed input into the coding and interpretation. She is lecturer in health psychology at the University of Southampton with particular research interests in how and why patients use complementary and alternative medicines and prior familiarity with Leventhal’s common sense model as well as other health psychological models and frameworks related to illness behaviour.

All other authors contributed to data interpretation.

Nadine E Foster is a physiotherapist whose research involves testing treatments and services for patients with common musculoskeletal problems, including low back pain, in primary care. Her research has identified that patients perceptions about their back pain at the time of consultation predict their clinical outcome in the short and long term, and that using a range of key predictors of outcome, in one brief index of risk, to match back pain patients to treatments, provides clinical and cost benefits for patients and health services. Rona Moss-Morris has carried out research in LBP including studies investigating 1) cognitive processes of change across a multidisciplinary pain management programme and 2) Patients’ expectations of a pain management programme. She has just started a new study investigating pain in MS. George T Lewith is professor of health research at the University of Southampton and leader of the Integrated Medicine research group; he has a long-standing research interest in acupuncture and has used it in his own clinical practice. Paul Little is professor of primary care research at the University of Southampton who has research interests in low back pain (in particular the Alexander technique) and doctor–patient communication in primary care.

Overall, working in a multidisciplinary team enabled us to avoid drawing premature conclusions and helped sensitisise us to diverse interpretations of the data.