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Research

Joanna Kesten, Kyla Thomas, Lauren Scott, Kevin Bache, Matthew Hickman, Rona Campbell, Anthony Pickering and Sabi Redwood

Acceptability of a primary care-based opioid and pain review service: a mixed-methods evaluation in England

Abstract

Background
Primary care opioid prescribing to treat chronic non-cancer pain (CNCP) has progressively increased despite a lack of evidence for long-term safety and effectiveness. Developing primary care interventions to reduce opioid dependence in patients with CNCP is a public health priority.

Aim
To report the acceptability of the South Gloucestershire pain and opioid review service for patients with CNCP, which aimed to help patients understand their relationship with prescribed opioids and support non-drug-based pain management strategies.

Design and setting
A mixed-methods evaluation was performed on the service, which was based in two GP practices in South Gloucestershire, England, and delivered by project workers.

Method
Descriptive data were collected on delivered-within-service and community-based interventions. Twenty-five semi-structured interviews (n = 18 patients, n = 7 service providers) explored experiences of the service.

Results
The enrolment process, person-centred primary care-based delivery, and service content focused on psychological issues underlying CNCP were found to be acceptable to patients and service providers. Patients welcomed having time to discuss their pain, its management, and related psychological issues. Maintaining a long-term approach was desired as CNCP is a complex issue that takes time to address. GPs recommended that funding was needed to ensure they have dedicated time to support a similar service and to ensure that project workers received adequate clinical supervision.

Conclusion
This service model was acceptable and may be a useful means to manage patients with CNCP who develop opioid dependence after long-term use of opioids. A randomised controlled trial is needed to formally test the effectiveness of the service.

Keywords
chronic pain; health promotion; opioid-related disorders; pain; pain management; primary health care.

INTRODUCTION
Primary care opioid prescribing1–4 to treat chronic non-cancer pain (CNCP)5–11 has progressively increased over the last 20 years.12,13 Prescribing varies geographically with larger practice list size, rural, and higher deprivation areas associated with higher-dose opioid prescribing,14 despite a lack of evidence for their long-term safety and effectiveness.15,16 A small proportion of people may experience effective pain relief from CNCP through opioid use if the dose can be kept low and daily use avoided.17,18 However, many patients stop using opioids long term because of adverse events or inadequate pain relief.1 CNCP, defined as any painful condition lasting for >3 months not associated with a diagnosis of cancer, is estimated to affect 35.0% to 51.3% of adults in the UK.19 In the UK and internationally there is growing awareness of prescription opioid-related harms.13,20–27 Long-term use of prescription opioids in CNCP is associated with several adverse events28 including opioid analgesic dependence (OAD), addiction, and opioid-related death.29–35 For example, in 2017 there were 156 codeine- and 185 tramadol-related deaths recorded in England and Wales.36 Variable prevalence rates of prescription opioid dependence have been reported.36–38 People dependent on prescription opioids are less likely to access traditional specialist substance misuse services than those dependent on illicit opioids,39 as they may not perceive themselves to be dependent,40 may be concerned about being labelled an ‘addict’ and the stigma associated with methadone use,41 and may not want to access the same services as ‘addicts’.42 It is recommended that commissioners seek to provide separate services to treat prescription opioid dependence43 with strong collaboration between drug services and the patient’s GP.44 There is currently no evidence for the efficacy or safety of interventions designed to reduce prescribed opioid use for CNCP.44 Therefore, developing primary care-based interventions to reduce opioid dependence in patients with CNCP is a public health priority.

The aim of this research is to report the South Gloucestershire pain review service’s...
How this fits in

Primary care opioid prescribing to treat chronic non-cancer pain (CNCP) has progressively increased despite a lack of evidence for long-term safety and effectiveness. This mixed-methods study reports the acceptability of a new, primary care-based service, the South Gloucestershire pain review service, aimed at helping patients with CNCP on long-term opioid painkillers to explore their use of opioids, support non-pharmacological pain management strategies, and reduce their opioid dosage. This study found that the service was acceptable to service users and providers. The findings can be used to inform future service design highlighting the importance of the project worker and the value of running a flexible, individually tailored service.

acceptability, defined as the perceived appropriateness of an intervention. An evaluation of the service’s potential impact on participants’ health and wellbeing is presented elsewhere.

Pain and opioid use service

The South Gloucestershire Council Public Health and Wellbeing Division commissioned the service for 2 years from September 2016. It was delivered in two GP practices that were selected for the presence of clinician expertise or interest in substance misuse. The providers were Developing Health and Independence (DHI), which offers services, including drug and alcohol treatment, to support disadvantaged and marginalised people, and Battle Against Tranquillisers (BAT), a service designed to reduce the harm caused by benzodiazepines, tranquillisers, and sleeping pills. The latter provider subsequently withdrew owing to a lack of patients with co-occurring opioid and benzodiazepine dependence.

Adult patients prescribed opioids for CNCP for >3 months (defined as long term) and receiving at least three prescriptions in that period were eligible to receive the service. Though the definition of ‘long term’ varies in the published literature, the researchers used >3 months as this time period has been used in the literature and reflects the lack of evidence for the long-term effectiveness of opioids for CNCP. Patients using illicit drugs only or receiving end-of-life care were ineligible. An opioid risk assessment tool (ORAT) was used to screen medical records and identify cohorts of potentially eligible patients. Project workers sent eligible patients invitation letters on behalf of the GP practice.

The service was informed by the shared-care model, which is a partnership approach to care between specialists and GPs for those with drug misuse issues. The shared-care model is common in the delivery of treatment for illicit drug addiction. It includes the prescription of opioid substitution therapy (OST), used to reduce the use of illicit drugs, and psychosocial interventions. It has been shown to be effective in reducing mortality rates and blood-borne virus transmission in this population. The evidence base for the treatment of dependence on prescribed opioids is weak and draws on the evidence for the treatment of heroin dependence. For example, it is currently unknown whether people dependent on prescribed opioids respond to OST in the same way as those dependent on heroin. Furthermore, it is important to note that not all patients with CNCP on high doses of opioids will meet the definition of dependence; therefore, these individuals would not benefit from treatment such as OST. The service was also underpinned by patient-centred counselling and cognitive behavioural therapy principles, and aimed to promote partnership working between two project workers, GPs, and consultants in pain management and addiction psychiatry. Patient review meetings between service providers were planned approximately monthly.

Once enrolled, an assessment was used to co-produce a tailored pain management plan with patients involving non-medical pain management strategies, including pacing (breaking tasks into manageable units), encouragement of movement and strength-building exercises, following a pain management book, mindfulness...
and relaxation exercises, and goal setting (Figure 1). These strategies were provided either by project workers within sessions or through community-based services, akin to social prescribing. The sessions involved evidence-informed discussions supported by written and video resources on how pain and opioids work, and how changing thinking styles and improving mental health can improve pain symptoms. This education aimed to enable patients to understand their pain and assess whether their opioids were working. The service involved reviewing the opioid type and dose, and, as appropriate, discussing and supporting a reduction in opioids (de-scripting).

**METHOD**

A mixed-methods evaluation was performed between August 2017 and August 2018.

**Descriptive data**

This article presents data from 25 semi-structured interviews (18 patients, 7 service providers) describing within-service and community interventions collected by project workers.

**Qualitative data**

A convenience sample from those patients who gave permission to be contacted were invited by telephone to take part in a one-to-one semi-structured interview either in person or by telephone. This was followed up by a patient information sheet further explaining the study. Interview participants provided written or audio-recorded verbal informed consent. Patients received GBP 10 shopping vouchers to thank them for their time.

Patient interview topic guides explored experiences of the service, including what worked well and what could be improved. Patient age, sex, previous pain clinic use, and pain medication were recorded.

Interviews with service providers (lead GPs, any GPs involved in the service, the project workers, and the service delivery manager) explored views on the service and partnership working. GP practices were reimbursed GBP 40 per 30-minute interview for the GPs’ time.

The interviews captured several acceptability constructs: affective attitude (feelings towards the service); burden (effort required to participate); intervention coherence (understanding of the intervention and how it works); perceived effectiveness (extent to which intervention is perceived to achieve its goal); and self-efficacy to perform intervention behaviours.

Data collection ended when enough information to explore perceptions of the service had been obtained. This decision was informed by the ‘information power’ concept, meaning, the greater the information provided by participants, the smaller the sample required. Issues informing information power include: the breadth of the study aim, that is, broader aims require a larger sample as the phenomenon covered is more comprehensive; characteristics of the participants, that is, a sample with rich experiences relevant to the research can be smaller than one with less relevant experiences; depth and quality of data, that is, focused and clear data require a smaller sample; and the analysis approach, in other words, an exploratory analysis requires a larger sample than a more focused approach.

**Analysis**

Qualitative analysis began shortly after data collection and informed changes to the topic guides. Inductive thematic analysis was performed using QSR NVivo (version 10).

**RESULTS**

Of 34 patients, 22 (65%) consented to be contacted about an interview. Two declined to be contacted (one had ‘too many things to cope with’ and one was ‘too ill’) and one was not invited because of mental health problems. Nine were not asked for permission to be contacted as data collection had finished. Two patients who agreed to be contacted were not invited as adequate data had been collected to understand experiences of the service. In total, 20 patients were invited to participate, of whom 18 agreed and two did not respond, giving a 90% recruitment rate. Participant characteristics are presented in Table 1 and details of the entire cohort are available from the authors on request.

Seven service providers (n = 2 project workers, n = 1 service delivery manager, n = 4 GPs) were interviewed. An addiction specialist and consultant psychiatrist did not respond to interview invitations.

**Experiences of the new service**

Enrolment into the service: The ORAT tool was found difficult to use and insensitive, generating large numbers of records for the project workers to screen and discuss with GPs. Instead, GPs’ direct referrals were regarded as more efficient.

The invitation process was acceptable to most patients as referral was experienced as informal, quick, and easy. Most patients described receiving clear invitations.
from GPs during consultations and via letters. GP endorsement enhanced the perceived trustworthiness of the service and encouraged participation. In contrast, one patient negatively experienced a verbal invitation from their GP as the GP implied the intention was to stop their opioid prescription. Another reacted negatively to the mention of the organisation, BAT, in the invitation materials:

“It [invitation letter] said it was called BAT, Battling Against Tranquillisers... that did sort of really upset me because I think battling against tranquillisers is someone who’s using them as an addictive thing and I wasn’t using them because I was addicted. I was using them to combat pain so I could continue a semi-normal life... The doctors have been readily giving out these prescriptions, so if anyone’s battling against tranquillisers it’s the doctors.” [Patient [P], interview ([I] 21]

Assessment process and pain management plan development. Project workers described the assessment process as building a relationship with patients, enabling them to understand their lives and identify issues affecting them and their pain. Most patients found the assessment process acceptable:

’Straight from the off he [project worker] is not sort of judging you if you know what I mean? He’s sort of understanding what’s going on and ... some of the things he said then made sense to me.’ [P, I8]

Within-session components. Project workers used a range of strategies including encouraging pacing, physical exercises, following a pain management book, mindfulness and relaxation exercises, and goal setting. The proportion of all patients (not only those interviewed) receiving each within-session intervention (Figure 2) was as follows: pain management book (74%), OAD worksheets (71%), de-scripting (62%), exercise planning (53%), and sleep hygiene (50%).

Pain management strategies

Patients learnt about pacing and strategies for avoiding the ‘over-activity trap’: the perceived need to complete many tasks on ‘good pain days’ that contribute to subsequent ‘bad pain days’:

‘First of all, it was just sort of talking and then it was coping strategies, pacing — I’m not good at pacing — if I have a good day ... I try and get everything done and am then knocked out for a couple of days but now I’ve learnt to I’ll perhaps iron a couple of things and then I’ll sit down rather than stand there and do the whole lot.’ [P, I1]

Several patients described the pain management book and accompanying relaxation CD as helpful, informative, and relatable. A small number described using the book to help formulate goals as well as using it outside of sessions. However, others described difficulties concentrating

<table>
<thead>
<tr>
<th>Table 1. Interview participant characteristics, N = 18</th>
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<tbody>
<tr>
<td>Characteristics</td>
</tr>
<tr>
<td>Female</td>
</tr>
<tr>
<td>Mean age, years (SD)</td>
</tr>
<tr>
<td>Employment status</td>
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<tr>
<td>Unemployed/retired</td>
</tr>
<tr>
<td>Employed</td>
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<tr>
<td>Living with anyone</td>
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<tr>
<td>Yes</td>
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<tr>
<td>No</td>
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<tr>
<td>GP practice</td>
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<tr>
<td>Practice 1</td>
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<td>Practice 2</td>
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<tr>
<td>Mental health issues [diagnosed or undiagnosed]</td>
</tr>
<tr>
<td>Yes</td>
</tr>
<tr>
<td>Depression</td>
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<tr>
<td>Anxiety</td>
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<tr>
<td>Bipolar tendencies</td>
</tr>
<tr>
<td>No</td>
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<tr>
<td>Previous attendance at pain clinic</td>
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<tr>
<td>Yes</td>
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<tr>
<td>No</td>
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<tr>
<td>Description of pain</td>
</tr>
<tr>
<td>Arthritis/osteoarthritis</td>
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<tr>
<td>Generalised and localised joint and muscular pain</td>
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<tr>
<td>Crohn’s disease</td>
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<tr>
<td>Opioid drug</td>
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<tr>
<td>Buprenorphine</td>
</tr>
<tr>
<td>Codeine family</td>
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<tr>
<td>Morphine</td>
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<tr>
<td>Oxycodeine family</td>
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<tr>
<td>Tramadol</td>
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<tr>
<td>Baseline medication (excluding opioids)</td>
</tr>
<tr>
<td>Benzodiazepines</td>
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<tr>
<td>SSRI antidepressants</td>
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<tr>
<td>Other antidepressants</td>
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<tr>
<td>Amitriptyline</td>
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<tr>
<td>Gabapentin</td>
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<tr>
<td>Pregabalin</td>
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<tr>
<td>Other</td>
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</tbody>
</table>

a Unless described otherwise. b Patients taking more than one class of opioid or baseline medication contribute a count to each class of drug they take, therefore percentages do not add up to 100%. SD = standard deviation. SSRI = selective serotonin reuptake inhibitors.
on the book, and some parts were said to be irrelevant and to oversimplify CNCP:

‘...and the little books were brilliant because you do feel that you’re on your own, that nobody else sort of understands, and my husband’s read it, and ... you think, “Oh yeah, that’s me, that’s me”, so yeah, it was really interesting.’ [P, I12]

Opioid review and changes. Some patients were keen to conduct a review of their medication and to reduce their dose or change the type of opioid, driven by a recognition that they were on a high dose, or wanted to reduce the side effects from their medication. Overall, GPs facilitating changes to prescriptions worked smoothly, though time delays were experienced by some. A small number of patients had reservations about reducing their dose at home, rather than as a hospital in-patient, because of fears about withdrawal symptoms:

‘We would talk for quite a long time about the withdrawal and in the beginning, I was really scared and I said “Well, there’s no way I am doing it unless you can send me to somewhere where I can actually live in and sort of you know?” But, we sort of discussed that and then I sort of thought “Well, no, I think I can do it with his help and support.”’ [P, I9]

Community-based services. The highest proportion of patients selected physiotherapy services and participation in a relaxation group (53% respectively) (Figure 3). Other community-based social prescribing services focused on: quality of life; social interaction and self-esteem through voluntary work; applying for an assistance dog; a ‘Men in Sheds’ project (community spaces for men to connect to help reduce loneliness and isolation); physical activity, for example, gym sessions; and financial advice and support, for example, personal independence payment claim support and working rights advice:

‘He really helped me with that [applying for an assistance dog] because again, with my confidence I was reluctant to sort of ring them up ... and he was like “No, you do it” and I did.’ [P, I9]

Three patients talked about appreciating funding to access community services. A small number of patients and project workers described delays accessing some services, owing to long waiting lists.

The project workers and some patients described enjoying the relaxation group, finding it helpful and valuing connecting with others in a similar situation. Group attendance was variable, and two patients

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Figure 2. Proportion of patients accessing within-session components. OAD = opioid analgesic dependence.

Figure 3. Proportion of patients accessing community-based services and social prescribing. OAD = opioid analgesic dependence.
were unable to attend because the group ran during the working day. A small number of patients were intimidated by the group format and did not feel confident to attend:

‘At first, I hated the breathing ... I think a lot of that was to do with my confidence as well because I felt very self-conscious in the group, breathing with other people, and I think a few people probably felt it but I vocalised it and they were all really supportive ... but when I came home, obviously what I learnt there, I was able to practise here and I felt more comfortable.’ [P, I9]

Service approach
Patient-centred counselling. Session day, time, frequency, content, pace, and location were selected and modified to suit patient needs. Service duration was also more open ended than previous services, running for a maximum of 2 years. Patients liked this approach because it was more person centred than other services and reduced the pressure on them to make lifestyle or medication dose changes within a set timeframe. A few patients talked about their partners, parents, or carers attending some or all sessions that offered them insights into what the patient was experiencing, enabling them to support the patients, and helped the patient recall what had been discussed.

Patients appreciated that the service was not like the traditional medical model or mental health and pain management services. All interviewee groups reported that patients valued having time to discuss their pain and its management with someone who could spend time listening to them. Patients and providers acknowledged that GPs do not have time to discuss pain management or reduction in medication in detail, owing to limited appointment times:

‘It was one-on-one as well and it wasn’t rushed. If you had something to say he would just sit there or advise or listen.’ [P, I21]

Relationships and communication. Project workers and GPs described the importance of forming a trusting relationship with patients in supporting openness during the sessions, and willingness to try suggested strategies. Patients described the project workers as encouraging, motivating, kind, and good listeners. They provided advice and supported them to implement changes related to pain management in a gentle way. The continuity of the project worker was experienced positively. Communicating confidentially with someone who was non-judgemental, understood the physiology and psychology of pain, empathised with their experience, and was outside of the immediate family or caring network was welcomed:

‘I’m enjoying the fact that I’ve got somebody outside of my immediate family that I can just chat to that understands what I’m going through and can sort of guide me, you know, as to how to move forward and try and avoid painful flare-ups.’ [P, I14]

Project workers consulted with GPs about opioid reductions and changes to patient medication, and kept GPs updated about the sessions through written notes on patient records and an internal messaging system. Most GPs felt this method of communication worked well, and project worker liaison with GPs was viewed positively by most patients. Project workers who were based in the GP practice facilitated informal conversations with GPs. Two patients commented on the sense of safety and reassurance that GP involvement provided for them:

‘Within EMIS [patient administration system] you can send tasks to users and so he [project worker] can send a task about a specific patient, saying I’ve seen him today. Certainly, when he starts dose reduction, he’ll tell you what he’s doing, and he’ll put the plan on the record. It’s helpful to have a summary of what he’s doing with people.’ [GP, I20]

A small number of patients experienced communication problems with the GP or project worker. For example, one patient was refused appointments with their GP as they were under the care of the project worker. Instead, the GP and project worker discussed the patient’s care without them. This patient disliked not being present for these conversations and having access to the GP restricted. Other patients also wanted more support from the GP during the service, especially when reducing opioids, for example, one patient felt more clinical expertise and general support from a GP was needed:

‘I think it is important if you’re reducing that you are, I mean not to get special treatment, but you are able to have access to a doctor, even if it’s just a phone call to say, you know, can you help me.’ [P, I9]

One GP described supporting patients when they were reducing their opioids through phone calls and house visits. The lead GPs described struggling to allocate
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Focus on wellbeing and mental health. All participant groups described the service as supportive of improvements in patient wellbeing and providing support for complex social and psychological issues, including social isolation, bereavement, problems related to family life, finances and employment, histories of trauma and abuse, low self-esteem and confidence, anxiety, and depression. Such issues had become intrinsically linked to CNCP either as a cause, contributor, or consequence. Project workers described trying to address patients’ negative self-image by encouraging self-kindness. Project workers observed that opioids were used by some people for reasons other than pain management, such as sedation and management of psychological symptoms:

“For some people if you track over a week how they’re taking it, then you can kind of see patterns that don’t correspond with pain spikes. So, people are using it for something else and there’ve been a couple of ‘aha’ moments with clients where they’ve gone ‘oh right, yes it goes up when my horrible father comes and gives me [hell]’ and someone going ‘yes, I sedate myself’.” (Project worker 1, I13)

A self-assessment worksheet helped patients identify patterns of opioid use coinciding with stressful periods rather than pain spikes, thus increasing self-awareness of the link between wellbeing and pain. A negative unintended consequence of discussing the relationship between the mind and pain was for a small number of patients to think the project worker was implying their pain was not ‘real’.

“In the research [there is a] huge overlap between kind of your emotional state and the amount of pain you feel. Also, around your ability to kind of tolerate the frustrations of pain. If you’re not in a good space, you’re not gonna be able to do that. If you’re not in a good space, the chances are you’re gonna be at home. If you’re at home you’re not working, you’re not going to feel good about yourself. If you’re not kind of working your body’s gonna start moving less so there’s this … horrible … downward spiral.” (Project worker 1, I13)

Two patients thought the pace of moving onto certain aspects, such as looking at their hobbies or starting to consider reducing their medication, would be discussed earlier on, but they acknowledged the need to address other mental health-related issues first to ensure they were ready. Indeed, setting goals was described by a small number of patients and Project worker 2 as challenging because of psychological readiness, emotional state, and general struggle to commit to setting goals.

For example, confronting troubling issues including past trauma was difficult for some:

“In the early days I did find it quite difficult because when you’re talking about your pain and your lifestyle, it’s just highlighting how bad you feel.” (P, I2)

Factors to consider for service development

Most GPs and patients made no critical comments about the service and nine patients wanted the service to be kept the same in future. Keeping the service person centred and not prescriptive was viewed as important. Maintaining a long-term approach was desired by patients and project workers as CNCP is a complex issue that takes time to address, and requires a trusting relationship with the project worker.

There was agreement among the GPs and project workers that identifying eligible patients using clinician knowledge rather than software should continue. To enhance its effectiveness, two GPs proposed that the service could target patients who have expressed concern about their opioid use and motivation to change. GPs also commented that this type of service could be used to support patients from the onset of a pain condition to prevent long-term opioid use. Indeed, two patients talked about being unaware of their medication’s addictive properties when first prescribed.

The project worker–patient relationship was perceived to be crucial for ensuring the success of any future service. However, the importance of commissioning a service rather than employing individual project workers was recognised. Both project
workers warned against running the service with high numbers of patients and short appointment times, as this would undermine the ability to form a therapeutic relationship. GPs highlighted the need for funding to support their involvement in future. Similarly, continuing a budget for each patient was recommended. All participant groups agreed that running the service within GP practices was important in terms of access, communication, and familiarity. Additionally, one project worker felt the service could be embedded within the pain management pathway offering services within the community either before or after engagement with pain management clinics.

**DISCUSSION**

**Summary**

The enrolment process, open-ended, person-centred, primary care-based delivery and content focusing on psychological issues underlying CNCP, were acceptable elements of the South Gloucestershire pain review service. Patients welcomed having time to discuss their pain, its management, and related psychological issues with a consistent and supportive project worker. The service has also been found to be feasible in relation to recruitment, attendance, and ability to measure outcomes.  

**Strengths and limitations**

Interviews were conducted with a diverse range of patients and providers, allowing triangulation of experiences and enhancing the findings’ credibility. Using qualitative methods facilitated an in-depth exploration of the acceptability of the service. The patients’ close relationship with the project workers may have resulted in reluctance to provide critical comments. However, the findings reflect a range of positive and negative views, suggesting the risk of this was minimal. The patient was recommended. All participant groups agreed that running the service within GP practices was important in terms of access, communication, and familiarity. Additionally, one project worker felt the service could be embedded within the pain management pathway offering services within the community either before or after engagement with pain management clinics.

**Ethical approval**

This study was approved by the Proportionate Review Subcommittee of the West Midlands — Coventry and Warwickshire Research Ethics Committee and the Health Research Authority (reference number: 7/WM/0264).

**Provenance**

Freely submitted; externally peer reviewed.

**Competing interests**

The authors have declared no competing interests.

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