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'Just another incentive scheme.' A qualitative interview study of a local pay-for-performance scheme for primary care

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Abstract

Background

A range of policy initiatives have addressed inequalities in healthcare and health outcomes. Local pay-for-performance schemes for primary care have been advocated as means of enhancing clinical ownership of the quality agenda and better targeting local need compared with national schemes such as the UK Quality and Outcomes Framework (QOF). We investigated whether professionals’ experience of a local scheme in one English National Health Service (NHS) former primary care trust (PCT) differed from that of the national QOF in relation to the goal of reducing inequalities.

Methods

We conducted retrospective semi-structured interviews with primary care professionals implementing the scheme and those involved in its development. We purposively sampled practices with varying levels of population socio-economic deprivation and achievement. Interviews explored perceptions of the scheme and indicators, likely mechanisms of influence on practice, perceived benefits and harms, and how future schemes could be improved. We used a framework approach to analysis.

Results

Thirty-eight professionals from 16 general practices and six professionals involved in developing local indicators participated. Our findings cover four themes: ownership, credibility of the indicators, influences on behaviour, and exacerbated tensions. We found little evidence that the scheme engendered any distinctive sense of ownership
or experiences different from the national scheme. Although the indicators and their
evidence base were seldom actively questioned, doubts were expressed about their
focus on health promotion given that eventual benefits relied upon patient action and
availability of local resources. Whilst practices serving more affluent populations
reported status and patient benefit as motivators for participating in the scheme,
those serving more deprived populations highlighted financial reward. The scheme
exacerbated tensions between patient and professional consultation agendas,
general practitioners benefitting directly from incentives and nurses who did much of
the work, and practices serving more and less affluent populations which faced
different challenges in achieving targets.

Conclusions

The contentious nature of pay-for-performance was not necessarily reduced by local
adaptation. Those developing future schemes should consider differential rewards
and supportive resources for practices serving more deprived populations, and
employing a wider range of levers to promote professional understanding and
ownership of indicators.

Keywords: primary health care; pay-for-performance; financial incentives; social
depreivation
Background

Evidence is accumulating that the establishment in 2004 of the Quality and Outcomes Framework (QOF) as a pay-for-performance scheme for UK primary care has not fulfilled all hopes and expectations. Not only is there a problematic evidence base, but its effects appear mixed with persistent variations in the quality of primary care and concerns that QOF may have undermined professionals' intrinsic motivation, patient-centeredness, and continuity of care. Professionals are reluctant to engage in quality improvement initiatives perceived as ineffective or even harmful, including pay-for-performance schemes misaligned with professional values. The Darzi Review of quality improvement in the National Health Service (NHS) placed much emphasis on engaging professionals. At a local level, active involvement of professionals is presumed essential in promoting ownership, providing that perceived benefits of change compensate for the effort required. At face value, the establishment of pay-for-performance schemes with locally negotiated indicators offered advantages over the national scheme, as means of promoting clinical ownership by addressing local health priorities and enhancing the effects of incentives.

We evaluated a scheme in one former PCT which was particularly motivated by the need to address inequalities in healthcare provision and outcomes. The scheme ran over 2007-11 at a cost of £3 million, and targeted five health priorities: alcohol; learning disabilities; chlamydia; obesity; and osteoporosis (Table 1). The selection of priorities, indicators and payment thresholds were negotiated between the PCT and local health care providers, approved by the Local Medical Committee, and reviewed and refined over the lifetime of the scheme. Our accompanying paper provides more detailed information about the indicators. We found that gaps in achievement...
between practices serving less and more deprived patients were modest during the first year of the scheme and closed over time for one and widened for one of the 16 indicators and possibly two other indicators. In addition, larger practices and those serving more affluent areas earned more income per patient than smaller practices and those serving more deprived areas.

These mixed findings somewhat contrasted with longitudinal analyses of the national QOF which indicated that initial gaps in achievement between practices in deprived and affluent areas these closed over time [20]. It was disappointing that a local initiative intended to overcome the disadvantages of the national scheme did not reduce inequalities as intended.

We undertook a qualitative study, in parallel to our above quantitative analysis, to explore primary care professionals’ experience of the local QOF, including perceptions of the scheme and indicators, likely mechanisms of influence on practice, and perceived benefits and harms. We investigated whether professionals’ experience of the local QOF did differ from that of the national QOF in relation to the goal of reducing inequalities.

Methods

Design and setting

We undertook a retrospective semi-structured interview study within NHS Bradford and Airedale, of its local pay-for-performance scheme.
Participants

We initially invited managers from all 83 practices to nominate themselves and other practice staff to participate in interviews. We then purposively selected practices according to practice population socio-economic profiles (deprived or not) and local QOF achievement (high or low achievement). We then used snowballing to further recruit participants through asking those interviewed to nominate additional practices or participants. We also invited six PCT and practice professionals involved in developing the scheme.

Data collection and analysis

Following consent, a social scientist researcher (JH) conducted face-to-face interviews at venues of participants’ choice (usually at work) over August 2011 to June 2012. We reimbursed participants for their time and advised them that responses would be treated confidentially. Interviews explored whether perceptions of the indicators, mechanisms by which it influenced practice, benefits and harms, and how future iterations of such schemes could be improved (Topic guide, Appendix 1).

All interviews were recorded and transcribed verbatim. Transcripts were anonymised and checked for accuracy. We used NVivo 8 to manage interview data and a thematic framework approach to analysis. Five transcripts were double coded by (JH, LG and RF) and a coding schedule was developed (Appendix 2). JH coded the remainder of the transcripts. Data were initially coded deductively to areas pre-specified in the topic guide; further codes emerged from the data inductively. Codes were grouped to form overarching themes which were iteratively refined over the course of analysis. Recruitment and interviews continued until no
new codes had emerged. We compared and contrasted accounts from high and low deprivation and high and low achieving practices, and sought discrepant accounts.

**Ethical review**

The study was approved by National Research Ethics Service East Midlands-Nottingham 2 Committee (11/EM/0184).

**Results**

We interviewed 44 professionals involved in developing or implementing the local scheme. Primary care staff from 16 practices participated in the interviews, eight of these practices having been identified through snowballing. Eight practices served relatively socio-economically deprived populations and 12 had relatively high local QOF achievement (Table 2). Of the 38 practice staff interviewed, there were 15 practice managers, 10 GP partners, two salaried GPs, and 11 practice nurses. The six additional participants who had been involved in developing the scheme comprised four PCT managers, one salaried GP, and one practice nurse. Thirty-three participants were female and 24 worked full-time. Median interview length was 44 minutes (range 18 to 88 minutes).

We report our findings in four overarching themes: credibility of the locally negotiated indicators; ownership; influences on behaviour; and exacerbated tensions. Where evident, we compare and contrast findings according to participants’ practice population socioeconomic status and achievement, and involvement in scheme development.
Credibility of the indicators

The local scheme developers had sought to target locally relevant and, largely, public health issues absent from the national QOF. Professionals perceived the limited evidence base underpinning such indicators as less of an issue than practical considerations around their implementation. Hence, the evidence base was often taken at face value, especially by practice nurses:

‘We appreciate that it is evidence based, obviously we wouldn’t be asked to do anything that wasn’t.’ (P11, practice nurse, high performer, affluent area)

I don’t know if I was told about the evidence, we should say, “What’s the evidence behind this?” but we’re too busy.’ (P37, practice nurse, high performer, deprived area)

Professionals appeared more preoccupied by their lack of control in achieving indicator targets, especially if dependent upon patient cooperation:

‘I can see why the alcohol and obesity were thought of as important, I get the clinical reason but I’m not sure that it worked in the real world. People thought we’d get them in and we’d do this, but the fact is that they don’t come in and you don’t capture them and so it doesn’t work.’ (P19, practice manager, high performer, affluent area)

Limited availability of appropriate, supportive resources needed to address such problems further undermined confidence in these targets.

‘We’ve got a smoking cessation advisor within the practice, but there isn’t something with alcohol, and you wouldn’t refer to the alcohol and drugs
services unless someone’s quite bad.’ (P12, salaried GP, high performer, affluent area)

There was a range of opinion about relevance to local need, with the indicators being seen as more salient to relatively deprived populations.

“It was certainly developed based on looking at measurable things that were relevant to our population.’ (P36, GP partner, low performer, deprived area)

In contrast, professionals from practices in affluent areas questioned the value of certain indicators to their population.

‘The alcohol one for example for us is almost a bit of a waste of time, because our patients don’t fall into that category.’ (P11, practice nurse, high performer, affluent area)

Ownership

No clear sense emerged that the local pay-for-performance scheme was particularly distinctive and offered anything over and above the existing national QOF. This was partly because the scheme actually addressed national priorities.

‘We know too many people are overweight so in that sense it was targeted at areas where we had a particular problem…I’m not aware that we had a specific problem with osteoporosis in Bradford, likewise with learning disabilities, I don’t think we’ve got any more of an issue than other areas. There may have been other Bradford specific issues that we could have included which we didn’t…I think most GPs probably viewed it as just
another incentive scheme, and didn’t really think of it as bespoke.’ (P6, scheme developer)

Ultimately then, practices tended not to differentiate between national and local schemes, especially high performers.

‘It makes me feel no different, it’s just all part of my job, whether it’s a local thing or national, it makes no difference.’ (P19, practice manager, high performer, affluent area)

One practice manager in a low performing practice went further in stating that the national scheme was more important.

‘We were always aware it (the local scheme) was there but we didn’t feel it was as important as the (national) QOF.’ (P39, practice manager, low performer, affluent area)

Participants implicitly defined ‘local’ in different ways, including at the practice, cluster of practices, and PCT levels.

‘I think smaller cluster groups, because generally you’ll have an area such as ourselves here with about twelve surgeries where we’ve all got similar problems, so I think it would have helped if practices were grouped rather than it being a generic local QOF.’ (P14, practice manager, low performer, deprived area)

There was a further suggestion that ‘buy-in’ might be greater if the identification of at least a limited number of priorities were delegated to practice level.

‘From the start you’d be making them own it because you’d be saying “right, here’s a bit of money, you tell us how you want to spend it as a practice to improve quality of your patients”, so you’ve got the ownership
immediately because they’ve come up with the marker.’ (P10, practice manager, high performer, affluent area)

Some participants expressed views that initial dissemination was insufficient and a familiarisation period would have helped embed targeted behaviours.

‘If we’d been told a bit more we might have been more engaged.’ (P23, practice nurse, high performer, affluent area)

‘If we had time to play about with it and start to monitor our own performance that would be really useful.’ (P10, practice manager, high performer, affluent area)

Influences on behaviour

The scheme seemed to influence adherence to the targets primarily through motivational means, supported by other mechanisms. Motivations were extrinsically and intrinsically driven.

Professionals from practices serving both affluent and deprived populations felt the scheme legitimised their intrinsic motivation to improve patient outcomes.

‘It’s a massive motivation to know that the patients out there are getting the care that they need.’ (P39, practice manager, low performer, affluent area)

Others, particularly practices serving more deprived populations, appeared to be directly amenable to financial reward as an extrinsic driver.

‘We’re so hard up at the moment, so desperate for income wherever we can get it, you can’t afford to pass up a chance of income, so that’s
probably as much a driver...even if we didn’t necessarily buy in completely
to the clinical benefit, it was worth doing to try and earn the money
because we needed to.’ (P33, practice manager, high performer, deprived
area)

However, there were concerns that financial rewards from the scheme may not have
been worth the effort involved in achieving targets and that the scheme did not
directly target most of the people actually doing this additional work.

‘Yes it’s more money for the practice but the majority of people in general
practice are paid by the practice and they just see it’s more work for them
to do, certainly our practice staff used to think of it [Local QOF] as a huge
amount of work’ (P4, scheme developer)

For practice managers and GPs in affluent high-performing practices, competition
and implicit threats to status also emerged as motivators.

‘It does feel a bit like a competition with other surgeries, I don’t know how
others feel but I wouldn’t like to come last in our locality.’ (P19, practice
manager, high performer, affluent area)

There were three other ways in which the scheme appeared to influence clinical
behaviour. Firstly, several high-performing practices and one low-performer had
adapted templates provided by the PCT to support processes of care and recording
in consultations. Practitioners from these practices considered that such prompts
had been helpful.

‘Before the patients come in you know that you have to do these things, so
it is a motivation. If the reminder didn’t come up, you wouldn’t remember
to do those things.’ (P22, GP partner, low performer, deprived area)
Secondly, some health professionals and developers of the scheme felt that it promoted standardised care and believed that adherence to the indicators had become routine practice. Consultation templates supported this setting of new norms within clinical routines.

‘Once we start doing something, it does change your practice and you carry on. The learning disabilities, because we saw the value of it we’ve kept the template, we’re still doing the checks, so I think because we put in all that initial time and resource, actually then each year it will get less, so we’re happy to carry that on. I think where we’ve seen that there’s clinical benefit, once you start doing it, it becomes habit.’ (P27, salaried GP, high performer, affluent area)

Thirdly, the social influence of having a member of practice staff as the champion for the scheme promoted engagement.

‘It’s having someone that’s responsible for it, it’s their baby, they’ve got an interest in it, and they will drive it through. That’s what you need if you want to achieve with these things you need a champion, someone who will champion it for you.’ (P33, practice manager, high performer, affluent area)

**Exacerbated tensions**

The scheme exacerbated tensions at three levels: between patients and professionals within consultations; between doctors and nurses within practices; and between affluent and deprived population practices within the PCT.

Perceived pressure to focus on targets and ‘box ticking’ during consultations both undermined professionalism and alienated patients.
'A lot of patients know I’m ticking a box and they shouldn’t feel like that, a patient shouldn’t have to come to a surgery and then I just say, “Oh can I ask you this”, “Oh yeah you’re just ticking, ticking that box.” They shouldn’t feel like that.’ (P40, practice nurse, low performer, affluent area)

This generated conflict between GP and patient agendas, which many also recognised as a consequence of the national QOF.

‘It distracts from the consultation and it can leave you know feeling a bit confused and perhaps as though that, the thing that the patient regards as the problem hasn’t been addressed properly.’ (P6, scheme developer)

There were also concerns about adding more and more into consultations:

‘The consensus among a lot of the GP’s was that it moved away from being patient centred to doctor centred consultations in that we never actually got round to why the patient really had come to see us if we spent so much time on QOF. There was a lot of discussion around running out of time and then running over, and the impact that that had on the patient, the practice and then personally. (P29, GP partner, high performer, affluent area)

The scheme augmented perceptions of unfair distributions of workloads and remuneration within practices, particularly between nursing and medical staff. Some nurses were keen to emphasize that they did not think that they should receive additional money for doing their job.

‘We’re paid money to do that anyway, why is it that there’s extra money given when you’re given a wage to do it anyway? I don’t know why a
carrot should be dangled to a health professional, personally I find it immoral.' (P37, practice nurse, high performer, deprived area)

However, several nurses were openly critical of the fact that whilst they did most of the work, it was the GPs who benefitted financially.

'I think we feel that we do a lot of work towards the QOF and we probably feel as though we ought to recompensed, if we had a bonus that was specifically because we knew that we’d hit QOF targets. I think people feel well why should only certain parts of the team get it when everybody’s worked as hard towards it?' (P11, practice nurse, high performer, affluent area)

Amongst practices serving relatively affluent and deprived populations, there was an opinion that the scheme risked widening inequalities between ‘us and them’ if universally applied, as opposed to focusing on practices and populations with most scope for improvement:

‘You’ll always get this top lot that will sign up to it all, always do it, know how to do it, cause they’re whizzes. But you’ve always got the laggards at the bottom. They’re the ones that really need to be doing the local QOF. It really should have been targeted at those practices first.’ (P13, practice manager, high performer, affluent area)

Discussion

Contrary to aspirations, this local pay-for-performance scheme did not engender any distinctive sense of ownership nor avoid any of the conflicts associated with the national scheme. The indicators were seen as reflecting national rather than
specifically locally-owned priorities; subsequent to the initiation of this scheme, three out of the five health priorities had been included in the national QOF. Although the indicators and their evidence base were seldom actively questioned, doubts were expressed about their focus on health promotion given that eventual benefits relied upon patient action and the availability of local resources (e.g. for alcohol or weight problems).

Whilst practices serving more affluent populations focused on status and patient benefit as motivators for participating in the scheme, those serving more deprived populations also highlighted financial reward. However, the scheme appeared to influence behaviour through a range of mechanisms beyond extrinsic reward such as standardisation of patient care, practice champions and computerised prompts. Unintended consequences included the exacerbation of tensions at three levels: between patient and professional consultation agendas; between GPs seen as benefitting directly from incentives and nurses who did much of the work; and between practices serving more affluent populations where targets might be easier to achieve and those serving more deprived populations.

There has been relatively little evaluation of local pay-for-performance schemes, which are likely to continue emerging in various forms. We identified similar themes to qualitative studies of the national QOF scheme, including the credibility of incentivised targets, tensions within consultations, changing professional identity and roles, and inequities in the workload and remuneration balance among practice staff. These suggest that the local scheme was not viewed or experienced differently by targeted professionals and, taken with our findings suggesting sparse ownership, casts doubt upon the notion that such a scheme achieved greater professional ‘buy-in.’ Our findings are therefore consistent with an evaluation by
Kristensen et al of a national pay-for-performance initiative which centred on locally
negotiated indicators [26]. This also found a gap between the policy intention of
creating locally-owned indicators and actual experience of the initiative.

Interventions aiming to improve the quality of care are often conceived and
implemented based on a hopeful set of assumptions about professional behaviour
and contexts [27]. Like others, we found that this scheme appeared to operate in a
number of ways, beyond the direct influence of financial incentives [6, 22, 28].

Hence, the range of explicit and implicit behaviour change techniques associated
with pay-for-performance schemes, such as social influence and competition,
underline the need to conceptualise and evaluate them as complex interventions [29-
31]. Again, the notion of local ownership did not emerge as a strong additional driver
for change in our evaluation.

Our study limitations included the experiences of an intervention from the one former
PCT, the characteristics of participating practices, study participants and timing, and
the risk of social desirability bias. First, this study took place in one geographical
area and studied one local pay-for-performance scheme, thereby limiting
generalizability to other areas and schemes. Second, although we sought a range of
practice characteristics for our sample, we found that our participants under-
represented poorer performing practices. This could have affected the balance of
views and experiences, potentially towards an emphasis on positive experiences.

However, we encountered sceptical beliefs across the range of participants, even
amongst scheme developers. Third, we examined perspectives of both those
targeted by the scheme and its developers, and encountered little divergence of
views. We might have identified more differences had we been able to capture the
developers’ ideas and expectations during the planning phase of the scheme. We
were unable to identify further information on how the indicators were ‘evidenced,’
which may have influenced perceived credibility. Fourth, we were aware that
professionals interviewed might tend to express socially desirable opinions or
behaviours. This could have steered responses either way – towards being seen
either to favour the scheme or critical of the PCT. We emphasized the anonymity
and confidentiality of study participation, and the interviews did not aim to judge
professional performance.

Potential indicators require testing for key attributes such as acceptability and
feasibility before they can be rolled out nationally [32]. Glasziou and colleagues
proposed nine criteria to help judge whether incentive schemes are likely to do more
good than harm [33]. Three of these seem particularly relevant viewed through the
lens of health professionals targeted by a local scheme: whether the desired clinical
action improves patient outcomes; whether benefits clearly outweigh any unintended
harmful effects, and at an acceptable cost; and whether systems and structures
needed for change are in place.

The Bradford and Airedale scheme’s focus on public health priorities – in contrast to
the national QOF which largely focuses on clinical monitoring and treatment –
illustrates some of the challenges inherent in fulfilling these criteria. Some health
professionals believed that the local preventive targets could be cost-effective in the
long-term. Others expressed uncertainty about their ‘real world’ effects, reflecting
wider doubts about their roles and competencies in promoting health [34-36] and
concerns that attainment depended upon patient adherence or supporting resources
in the wider community. Any perceived benefits may have been outweighed by
unintended knock-on effects on a range of professional and patient relationships
“Localism” is regularly recycled as a theme in NHS policy-making [37]. In order to increase clinical autonomy and therefore have maximal impact upon patient care, there are continuing calls for greater professional involvement in developing pay-for-performance indicators [38]. This is in order to increase professional buy-in with such schemes and ensure that indicators are developed from within and not imposed from the outside [26]. Yet it is difficult to get beyond such rhetoric in practice, particularly in generating and implementing performance targets which are perceived as locally relevant and owned. Professionals tend to voice opinions about the need for more involvement in developing targets and their dissemination. In reality, there are only so many consultations, working groups or educational events that they can actually participate in. Furthermore, local groups are unlikely to have access to similar levels of resources, such as those possessed by the National Institute for Care Excellence, to derive robust, evidence-based indicators. There is a case for further efforts to ensure that the underlying goals of performance targets are communicated to targeted professionals and aligned with professional values, especially as a means of overcoming some of the passive acceptance we found [11, 12, 22]. There is a growing and increasingly robust evidence base on interventions to change professional practice for policy-makers and quality improvement leaders to draw upon [39].

Pay-for-performance itself has a problematic evidence base, with a Cochrane Review concluding there is “insufficient evidence to support or not support the use of financial incentives to improve the quality of primary health care” [2]. Given that one of the intentions of such schemes is often to reduce inequalities in health outcomes, any future local schemes may need to recognise the greater difficulties faced by practices serving more deprived populations [40]. As well as financial reward,
suggested as a stronger motivator in such practices, the achievement of indicators may also depend upon resources already available within practices and the wider community. Persuasion about patient benefit and social comparison were also critical levers, or implicit co-interventions. Pay for performance represents an inherently complex intervention with variable effects according to context, the nature of the behaviours targeted, and co-interventions, all of which need to be taken into account in planning and evaluating such schemes \[28, 41\].

Policy-makers should not under-estimate the difficulties faced in promoting ownership of local pay-for-performance schemes. Incentives alone are often insufficient to bring about change; significant progress is likely to depend upon multi-level approaches which launch and coordinate action across all levels of healthcare systems (individual, team, organisational and wider system) \[42\]. These approaches should draw upon evidence-based interventions to improve practice \[39\], tailored to identified barriers to change. The costs of efforts to promote engagement with local pay-for-performance schemes need to be considered against realistic appraisals of their likely effects and alternative strategies.

**Conclusion**

We found little difference in the experience of a local pay-for-performance scheme compared to a national scheme. Together, with the limited evidence of professional ownership, it is hard to argue that it offered distinct advantages over and above the existing national QOF scheme. Future developments of similar schemes should study the impact of differential rewards for practices serving more and less deprived
populations, and consider a wider range of levers to promote professional understanding and ownership of indicators.

**List of abbreviations**

PCT – Primary Care Trust

QOF – Quality and Outcomes Framework

GP – General Practitioner

NHS – National Health Service

**Competing interests**

All authors declare that they have no competing interests.

**Author contributions**

LG, RF, RW, PC and TD conceived the original idea for the study. JH collected data and conducted the analyses. All authors contributed to the interpretation of the analyses. JH, LG, and RF drafted the manuscript, and all authors read and approved the final manuscript.

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## Tables

Table 1: Indicators for the local pay-for-performance scheme

| Domain            | Indicator | Description                                                                                                                                                                                                 | Number of points |
|-------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| Alcohol           | A1        | The practice can produce a register of patient aged 16 years and over with a record of the number of units of alcohol consumed on a weekly basis in the past 27 months                                                                 | 10               |
|                   | A2        | Patients who drink equal or greater than 14 units a week for females and 21 units a week for males in a 7 day cycle with a period of at least 2 days abstinence are offered a brief intervention                                                                 | 10               |
| Chlamydia         | C1        | The practice can produce a register of patients aged 15 to 24 of both sexes                                                                                                                                 | 2                |
|                   | C2        | Patients between 15–24 years old who have been offered screening by their practice and have a recorded test result                                                                                             | £5 for every screen recorded |
| Learning Disabilities | LD1    | The practice can produce a register of people over 18 with LD                                                                                                                                               | £50 per registered patient |
|                   | LD2        | The % of patients with LD with a review recorded in the preceding 15 months. Checks include accuracy of prescribed medication, physical health and co-ordination with secondary care                                                     | £50 for every health check completed |
| Weight Management | OB1        | Production of a register of patients between 16–75 with a BMI equal of greater than 25 recorded in the last 5 years                                                                                           | 3                |
|                   | OB2        | Production of a register of patients between 16–75 with                                                                                                                                                     | 7                |
| Osteoporosis | OST1 | Production of a register of female patients aged 65–74 with a fracture in the previous 15 months | 2 |
|--------------|------|------------------------------------------------------------------------------------------------|---|
|              | OST2 | Female patients 65–74 that have had a fracture are referred for a BMD scan | 4 |
|              | OST3 | The practice can produce a register of male and female patients aged 16–74 years who have received at least one repeat prescription for oral prednisolone in the previous 6 months | 2 |
|              | OST4 | The % of patients on register (OST 3) who have a record of a DXA scan being performed at any time or a referral for a DXA scan in the previous 15 months | 5 |
|              | OST5 | The percentage of patients on register (OST 4) who have a record of a DXA scan being performed at any time, or a referral for a DXA scan in the previous 15 months, or have been assessed for osteoporosis risk | 2 |
|              | OST6 | The practice can produce a register of male and female patients aged 75 years and over who have had a fragility fracture of the vertebrae, hip, wrist, or humerus since their 75\(^{th}\) Birthday | 2 |
|              | OST7 | The percentage of male and female patients aged 75 years and over who have had a fragility fracture of the vertebrae, hip, wrist, or humerus since their 75\(^{th}\) Birthday, who have been assessed and treated for Osteoporosis risk ever | 5 |
Table 2: Spread of practices and practice staff across performance and deprivation*

| QOF score | Deprivation Level |         |         |
|-----------|-------------------|---------|---------|
|           | Deprived          | Affluent|
| High      | 5 practices       | 7 practices |
|           | - GP Partner (3)  | - Practice Manager (8) |
|           | - Practice Nurse (2) | - GP Partner (5) |
|           | - Practice Manager (5) | - Practice nurse (8) |
|           |                    | - Salaried GP (2)    |
| Low       | 3 practices       | 1 practice        |
|           | - Practice Manager (1) | - Practice nurse (1) |
|           | - GP Partner (2)  | - Practice Manager (1) |
## Appendix 1:

### Topic guide

| Section              | Types of questions/prompts                                                                 |
|----------------------|------------------------------------------------------------------------------------------|
| **Background**       | What is your professional background?                                                    |
|                      | How many years have you been qualified?                                                   |
|                      | How many sessions do you work in a usual week?                                           |
|                      | How would you describe your role in the practice?                                         |
| **General**          | What has your involvement been in *developing* the local QOF?                            |
|                      | What has your involvement been in *implementing* the local QOF within your practice?      |
| **Your opinions**    | Robustness/credibility of evidence base                                                   |
|                      | Costs                                                                                     |
|                      | Clinical benefit                                                                          |
|                      | Local population needs                                                                    |
|                      | Distribution of workload                                                                  |
|                      | Scope for gaming                                                                          |
|                      | Implications for tackling inequalities                                                     |
|                      | Compare to national targets                                                               |
| **How does the local scheme work?** | Ownership of change / engagement                                                          |
|                      | Motivation (intrinsic and extrinsic)                                                      |
|                      | Social comparison, performance management and surveillance                                 |
| How could local QOF be modified and/or improved? | Organisational means employed to achieve targets |
|------------------------------------------------|-------------------------------------------------|
| Consequences                                   | Effect on practice staff and consultations        |
|                                               |   - Benefits and unintended consequences         |
|                                               | Effect on patients and patient care              |
|                                               |   - Benefits and unintended consequences         |
|                                               | Change required to achieve targets               |
|                                               | Are you still maintaining these targets even though the scheme has ended? |
|                                               | How it should be introduced                      |
|                                               | How implemented on a day to day basis in the practice |
|                                               | Local versus national benefits and harms?        |
| Anything else that you would like to add?     |                                                 |
### Appendix 2:

#### Coding schedule

| Deductive coding to areas taken from literature | Inductive codes emerging from interviews | Iterative refining of deductive and inductive codes and themes | Final themes |
|-------------------------------------------------|----------------------------------------|---------------------------------------------------------------|--------------|
| **Influences on behaviour:**                     | **Motivation:**                        | **Practitioner motivation:**                                 | **Influences on behaviour** |
| Ownership of change                             | Support among practices                | Financial reward                                              |                           |
| Motivation (intrinsic and extrinsic)            | Patient benefit                        | Patient benefit                                               |                           |
| Social comparison                               | Organisational means                   | Competition with other practices                              |                           |
| Inferences on behaviour                         |                                        |                                                               |                           |
| **Relevance:**                                  | **Opinions:**                          | **Attitudes towards the scheme:**                            |                           |
| Clinical benefit                                | Clinical value                         | Role of general practice                                      |                           |
| Local population needs                         | Credibility                            | Acceptance/rejection of an externally defined way of working  |                           |
| **Fairness:**                                   | Prevalence                             | Faith in the evidence                                         |                           |
| Distribution of workload                        | Uneven workload                        |                                                               |                           |
| Scope for gaming                                | Minimal change                         |                                                               |                           |
| Implications for tackling inequalities          | The bigger picture                     |                                                               |                           |
| **Appropriateness of incentivised targets:**    | Failed to address inequalities         |                                                               |                           |
| Robustness of evidence base                     | Adjusting role of general practice     |                                                               |                           |
| Costs                                           |                                         |                                                               |                           |
| **Acceptability:**                              | **Credibility:**                       | **Credibility of the locally negotiated indicators**         |                           |
| Compare to national QOF                         | Conflict with professional identity    |                                                               |                           |
|                                                 | Conflict among practice staff          |                                                               |                           |
| **Consequences:**                               | Conflict with patient benefit          |                                                               |                           |
| Effect on practice staff                        | Funding improves credibility           |                                                               |                           |
| Effect on patients and patient care             |                                         |                                                               |                           |
| Adapt consultations                             | **Effects of implementing a local scheme:** |                                                               |                           |
| Impact on patient experience                    | Created an uneven workload             | Allowed local issues to be addressed                          |                           |
| Time pressure                                   | Standardised care                      | Caused inequalities                                           |                           |
| Conflicting agendas                             |                                         |                                                               |                           |
| Distracting in consultations                    | **Consultation consequences:**         |                                                               |                           |
| Embedded behaviour                              | Target became routine practice         |                                                               |                           |
| Standardised care                               |                                         |                                                               |                           |
| **Recommendations:**                            | **Recommendations:**                   |                                                               |                           |
| How it should be introduced                     | Evolving assessment process            |                                                               |                           |
| Local versus national benefits and harms        | Extension of NQOF                      |                                                               |                           |
|                                                 | Conflict with NQOF                     |                                                               |                           |
| **Exacerbating tensions**                       | Setup time                             |                                                               |                           |
| **Recommendations:**                            | **Experience of engagement:**          |                                                               |                           |
| **Experience of engagement:**                   | LoQOF champion                         | Highlight available external support for data extraction and   |                           |
| **Ownership**                                   | Patient involvement                    | management                                                     |                           |
|                                                | Bottom up approach                     | Familiarisation period before data collection                 |                           |
|                                                | Based at cluster level                 |                                                               |                           |
|                                                | Outside support                        |                                                               |                           |
|                                                | Protected learning time for all staff  |                                                               |                           |
|                                                | Data support                           |                                                               |                           |

**Notes:**
- **Deductive coding** refers to areas taken from literature.
- **Inductive codes** emerge from interviews.
- **Iterative refining** of deductive and inductive codes and themes lead to final themes.
- **Influences on behaviour** are examined at various levels, including motivation, relevance, fairness, appropriateness, acceptability, and consequences.
- **Recommendations** are provided for each category.
