ORIGINAL RESEARCH

Establishing sustainable performance-based incentive schemes: views of rural health workers from qualitative research in three sub-Saharan African countries

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Abstract

Introduction: Performance-based incentives (PBIs) are currently receiving attention as a strategy for improving the quality of care that health providers deliver. Experiences from several African countries have shown that PBIs can trigger improvements, particularly in the area of maternal and neonatal health. The involvement of health workers in deciding how their performance should be measured is recommended. Only limited information is available about how such schemes can be made sustainable. This study explored the types of PBIs that rural health workers suggested, their ideas regarding the management and sustainability of such schemes, and their views on which indicators best lend themselves to the monitoring of performance. In this article the authors reported the findings from a cross-country survey conducted in Burkina Faso, Ghana and Tanzania.

Methods: The study was exploratory with qualitative methodology. In-depth interviews were conducted with 29 maternal and neonatal healthcare providers, four district health managers and two policy makers (total 35 respondents) from one district in each

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of the three countries. The respondents were purposively selected from six peripheral health facilities. Care was taken to include providers who had a management role. By also including respondents from district and policy level a comparison of perspectives from different levels of the health system was facilitated. The data that was collected was coded and analysed with support of NVivo v8 software.

**Results**: The most frequently suggested PBIs amongst the respondents in Burkina Faso were training with per-diems, bonuses and recognition of work done. The respondents in Tanzania favoured training with per-diems, as well as payment of overtime, and timely promotion. The respondents in Ghana also called for training, including paid study leave, payment of overtime and recognition schemes for health workers or facilities. Respondents in the three countries supported the mobilisation of local resources to make incentive schemes more sustainable. There was a general view that it was easier to integrate the cost of non-financial incentives in local budgets. There were concerns about the fairness of such schemes from the provider level in all three countries. District managers were worried about the workload that would be required to manage the schemes. The providers themselves were less clear about which indicators best lent themselves to the purpose of performance monitoring. District managers and policy makers most commonly suggested indicators that were in line with national maternal and neonatal healthcare indicators.

**Conclusions**: The study showed that health workers have considerable interest in performance-based incentive schemes and are concerned about their sustainability. There is a need to further explore the use of non-financial incentives in PBI schemes, as such incentives were considered to stand a greater chance of being integrated into local budgets. Ensuring participation of healthcare providers in the design of such schemes is likely to achieve buy-in and endorsement from the health workers involved. However, input from managers and policy makers is essential to keep expectations realistic and to ensure the indicators selected fit the purpose and are part of routine reporting systems.

**Key words**: Burkina Faso, developing countries, Ghana, incentives, pay-for-performance, performance-based financing, performance-based incentives, sub-Saharan African, Tanzania.

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**Introduction**

The provision of quality maternal and neonatal health (MNH) care in developing countries is jeopardised by poor provider performance such as that of government health departments and other state institutions. This is due to inadequate financial and human resources available, as well as to low staff motivation\(^1\,2\).

Recent reports from WHO show that it is unlikely that the fifth Millennium Development Goal will be fully reached\(^3\). Developing countries continue to account for 99% of global maternal deaths, with the majority (85%) in 2010 taking place in sub-Saharan Africa\(^4\). Data from Burkina Faso, Ghana and Tanzania show unsatisfactory progress towards a reduction in maternal and neonatal mortality. In Burkina Faso, Ghana and Tanzania, the maternal mortality rates are 300, 350 and 460 per 100 000 live births, respectively, whilst the neonatal mortality rates are 39, 25 and 24 per 1000 live births, respectively\(^5\,14\). Performance-based incentives (PBI) or pay-for-performance (P4P) schemes generally provide incentives for increases in the utilization and quality of care\(^5\,10\). Such schemes are currently being explored as a possible way to accelerate the attainment of the Millennium Development Goals\(^11\,14\).

This study was undertaken in the frame of the Quality of Maternal and Prenatal Care: Bridging the Know-do Gap (QUALMAT) project.

The QUALMAT research project (Quality of Maternal and Prenatal Care: Bridging the Know-do Gap), funded as part of the 7th Framework Programme of the European Union...
Previous studies have differentiated financial and non-financial incentives. Financial incentives involve the transfer of monetary values, such as salaries, pensions, bonuses, allowances (e.g., housing, uniform, and transport) and loans. Non-financial incentives include work autonomy, flexible work schedules, work recognition, coaching and mentoring structures, support for career development, improved working and living conditions, continuing education, training and professional development, improved supervision and management. Moreover, it has been found that feedback on one's performance, comprehension of one's work responsibilities and strong alignment between personal and work goals positively influence the quality of care provided by health workers.

To date, most of the experiences in the area of incentives have been funded by international organisations or non-governmental organisations such as Médecins Sans Frontières in Rwanda, UNICEF in Ethiopia, the United States Agency for International Development, the European Union, the World Bank and the African Development Bank in Egypt, and the Catholic Organization for Relief and Development Aid and Catholic Relief Service in Cameroon. In resource-poor settings, when external partners withdraw their support, the viability of such interventions can be threatened. The issue of sustainability should be particularly considered due to the recent effects of the economic downturn on development assistance.

The main objective of this study was to explore healthcare provider preferences for incentive schemes and possible ways to ensure sustainability of such schemes in three African countries.

**Methods**

**Study design**

The views and perspectives of MNH providers, district managers and policy makers were considered for this formative study. A qualitative methodology in the form of in-depth interviews was the preferred form of data collection. Qualitative research allows researchers to better understand phenomena in context-specific settings. It encourages people to talk about their personal opinions and experiences and this allows investigation into incentive packages that would motivate MNH providers to provide quality services. Given the need to generate data in three different countries a reasonably structured approach was taken to develop the interview guidelines. Project collaborators from the three countries assisted with the development of the guide. The topics covered included the acceptability of local funding of performance-based incentive schemes, recommendations on how such schemes could be managed, preferred financial and non-financial incentives, ideas on possible performance indicators, as well as opinions on how to create commitment for and ensure sustainability of such schemes. The guide was developed in English and the final version was translated into French and Kiswahili using the back-translation method. Pre-tests with small groups of up to five MNH providers were carried out in all three countries. After minor modifications to optimise comprehensibility, the guide was finalised.

**Sampling strategy and population**

Respondents were selected through purposive sampling. In particular, care was taken to include respondents of both
sexes, spanning various age groups, from both the nursing and midwifery professions, and to include those with a facility management role. A total of 35 in-depth interviews were conducted in the three countries: 29 with MNH providers, four with members of the district health management team and two with policy makers at the national level. The selection of the districts in each country was also purposive, these districts being the future intervention districts for the QUALMAT study.

The health facilities within the districts were all under government ownership and were selected due to their rural nature and dependent upon their provision of basic essential obstetric care.

Data collection and analysis

Data collection was carried out between May and July 2010. The interviews were conducted in each country by skilled interviewers and senior social scientists with strong previous experience in qualitative interview moderation, under the supervision of a country project principal investigator. The interviews were recorded and later transcribed. The interviews in Tanzania were conducted in Kiswahili and translated into English at the time of transcription. The software QSR NVivo v8 (QSR International; http://www.qsrinternational.com/products_previous-products_nvivo8.aspx) was used to organise, manage and code the data set for each country. Prior to importing the data into NVivo, each transcript was thoroughly read by the interviewer and all issues of potential note flagged. The quality of the process was ensured because the same person undertook the interviews and the country analysis. This also avoided concerns about inter-rater reliability. A coding framework that clustered aspects of the responses into broader themes was created for each country data set. In each country the interviewer shared their coding and interpretation with the study’s principal investigator before writing up the preliminary results, which were exchanged and discussed between the country teams before finalisation.

Ethics approval

At the outset ethical approval was obtained from the appropriate authority in each country. In Burkina Faso the ethics committee of the Centre de Recherche en Santé de Nouna approved the study (2010-05-CLE/CRSN). In Ghana the institutional review board of the Navrongo Health Research Center approved the study (NHRC1RB085). In Tanzania the Muhimbili University of Health and Allied Sciences review committee approved the study (MU/AEC/VOLXIII/96). The ethics commission of the Medical Faculty, University of Heidelberg, Germany approved the project overall (S-173/2008). Authorisation from the local health authorities was also obtained as well as written consent from all those who agreed to take part in the study.

Results

Profile of respondents

The profiles of the 35 respondents by country is presented in Table 1. The results present the findings from the facility-, district- and policy-level respondents.

Specific findings in Burkina Faso

In Burkina Faso, the most commonly mentioned incentives were per-diems provided to workers either during training or meeting, bonuses, training on topics related to care provision, refresher courses, letters of acknowledgement and verbal appreciation. Whilst preferences strongly focused upon financial incentives, there was also support for non-financial incentives, in particular for decorating workers who performed well:

Giving incentives to workers based on their performance is a good initiative, as it motivates workers and thus contributes to improve the quality of care. It builds also a more competitive team to achieve health objectives. (male health worker nurse, aged 34 years, Burkina Faso)
Table 1: Respondent profiles by country

<table>
<thead>
<tr>
<th>Country</th>
<th>District manager</th>
<th>Nurse</th>
<th>Midwife</th>
<th>Policy maker</th>
<th>Male</th>
<th>Female</th>
<th>Total respondents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Burkina Faso</td>
<td>5</td>
<td>20</td>
<td>8</td>
<td>2</td>
<td>25</td>
<td>10</td>
<td>35</td>
</tr>
<tr>
<td>Ghana</td>
<td>5</td>
<td>19</td>
<td>9</td>
<td>2</td>
<td>24</td>
<td>11</td>
<td>35</td>
</tr>
<tr>
<td>Tanzania</td>
<td>5</td>
<td>17</td>
<td>11</td>
<td>2</td>
<td>26</td>
<td>9</td>
<td>35</td>
</tr>
<tr>
<td>Total</td>
<td>15</td>
<td>56</td>
<td>28</td>
<td>6</td>
<td>64</td>
<td>30</td>
<td>105</td>
</tr>
</tbody>
</table>

The district managers also stressed the importance of one’s work being acknowledged:

They should give us sometimes certificates or letters of recognition, as these are important non-financial incentives.

(district health management team member, male health officer, aged 39 years, Burkina Faso)

Most of the respondents had no previous experience of such schemes, and several concerns about how they would be managed were raised. Most notably the district managers feared that the management of such schemes could result in a heavy workload at their level. To facilitate administration they preferred incentives to be awarded to entire teams rather than to individual providers. At the policy level, there were concerns about the costs of such schemes and a call for further investigation into the effect of non-financial incentives:

It is impossible for the Ministry of Health to afford financial incentives, considerable funds have already been allocated to increase salaries, and paid annual leave is already in place for all civil servants. We must carry out a reflection on that.

(female policy maker, aged 50 years, Burkina Faso)

Regarding the sustainability of such schemes the respondents in Burkina Faso raised concern about what would happen if an external source of funding was withdrawn. There was convergence of viewpoints from all the levels of respondents that non-financial incentives would stand a greater chance of being integrated in local budgets for long-term sustainability:

We agree that financial aspects are very important from health workers’ perspectives, but money is not really a key element in determining workers’ performance. I suggest that emphasis should be put on acknowledgment of work done, on providing regular training and refresher courses to workers. These things are more sustainable than money, as we cannot ensure that our government can afford to continue [funding] such a system.

(male nurse in charge of statistics at district headquarters, aged 38 years, Burkina Faso)

Interestingly, in Burkina Faso several health workers expressed a willingness to allocate a small proportion of the per-diems they received from attending meetings and trainings to co-fund modest financial incentives for the entire facility team.

Regarding respondents’ views on how to actually monitor improvements in the area of MNH care, there was a tendency amongst the providers to simply reiterate the problems rather than actually articulate possible indicators. By comparison, the respondents with a management role at either facility or district level generally proposed indicators from amongst those routinely measured in these areas. These covered various aspects of antenatal services, prevention of mother-to-child HIV transmission, delivery and postpartum care, as well as newborn health and immunisations.

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Specific findings in Ghana

The respondents from Ghana suggested a range of both financial and non-financial incentives, although, overall, more attention was paid to the importance of non-financial incentives for improving health worker performance.

Some of the respondents had experienced disappointments with financial incentive schemes – such as payment of overtime – that did not prove to be sustainable and were withdrawn. The respondents reported have recently been included in the government’s health insurance, which was appreciated as an important non-financial incentive.

The respondents particularly stressed the importance of training for improving provider performance:

*Training programmes upgrade health workers’ ability, knowledge and skills to perform their tasks; so if some are not given the opportunity to go for that training to upgrade their knowledge, it means they will do certain things which are not approved.* (female health worker, nurse, aged 31 years, Ghana)

Others stated that strong performers should be promoted more rapidly:

*With the incentives, it can also come in a way of promotion; instead of serving the normal five years, maybe with your exceptional performance one year can be taken off* (female health worker, nurse-midwife, aged 36 years, Ghana)

As in Burkina Faso there was a lack of clarity amongst the MNH providers themselves regarding how their performance could be measured. Ideas included staff attendance, the amount of overtime invested and the number of patients attended to:

*Incentives should be given based on punctuality, incentives should come promptly and they should be based on the needs of health workers. Extra allowances and citations for hardworking staff should be encouraged. However, there is the need to spell out criteria involved in giving awards.* (female health worker, nurse-midwife, aged 27 years, Ghana)

The district managers had more specific suggestions, including the reduction of facility-based neonatal mortality or the number of pregnant women who were counselled and tested for HIV:

*We want zero maternal deaths and we also want to reduce infant mortality especially neonatal deaths. The data for this is collected at facility level and ways should be found to bring the number down.* (male district health management team member, health officer, aged 40 years, Ghana)

The MNH providers considered the issue of equity and fairness would be a major challenge in the management of such schemes, including non-financial incentives. The district managers were particularly concerned about the sustainability and what would happen if the scheme had to stop. The worry was that the staff would be left more demoralised than ever. As one participant put it:

*What I will say is about the sustainability of the financial scheme, I’m afraid of that and if you are going to give incentive, it should be something that can be sustained and that I would not talk about money as an incentive.* (female district health management team member, health worker, nurse, aged 37 years, Ghana)

At policy level, although the respondents were of the view that financial incentives had an important effect upon health worker motivation, they preferred to focus upon non-financial incentives. Whilst recognising that even non-financial incentives have costs, the level of the costs was felt to be more manageable, and a greater potential for them to be included in routine facility or district level budgets was seen.

Specific findings in Tanzania

In Tanzania, the most frequently mentioned incentives included payment of overtime, payment of per-diems at...
meetings or training, bonuses, timely promotion, training opportunities and verbal appreciation. Most of the providers favoured financial incentives as the key way to motivate them to do their best. As pointed out by one respondent:

Money is important as an incentive, because once someone knows there is an allowance based on performance, but if you do not work hard you might not get it, then he will work hard. (female health worker, nurse, aged 45 years, Tanzania)

The respondents with management functions were of the view that a mix of non-financial and financial incentives would be most effective:

Firstly, regular supervision should be carried out so that health workers are aware of where they go wrong and how they can improve. This is very important beside the financial incentive. Secondly, in order for health workers to perform well even without receiving extra money they should be provided with enough equipment and supplies; they will feel good and do their work properly. Thirdly, to acknowledge/recognize their work once they do better and provide reward/written acknowledgement and at the end of the year a worker may be selected for outstanding performance. (male district health management team member, assistant medical officer, aged 44 years, Tanzania)

Indeed, the issue of necessary equipment being in place was repeatedly stressed as holding the key to improved health worker performance:

We need different kinds of incentives but priority should be given to equipment and supplies, such as diagnostic tools like HIV and urine test because we are supposed to examine those expectant mothers the first time when they come at the clinic, unfortunately we are not doing so due to the lack of those tools. (female supervisor, nurse-midwife, aged 38 years, Tanzania)

The providers in particular were worried about the capacity of managers to ensure equity in managing such schemes. Many cited negative experiences, for example that certain staff members were favoured to attend trainings whilst others were excluded:

There must be a proper procedure put in place by district health managers that will ensure that all workers get a chance to attend training programmes. They must provide verbal appreciation whenever they come for supervision like ‘you really tried hard’ it encourages us to work more. (male health worker, nurse, aged 39 years, Tanzania)

In Tanzania the policy-level respondents broadly favoured financial incentives, either in the form of a further salary increase for all workers, or the payment of extra duty, housing and transport allowances. However, both cautioned that the funding for such steps would need to be clarified with development partners.

The providers and district managers were in favour of finding ways to create a sustainable incentive scheme that could be financed at the local level without external partner support. Several of the non-financial incentives suggested, such as supportive supervision, were viewed as part of the routine district management. As such they were considered eligible for inclusion in the council health plan and budget. Cost-sharing funds that were collected at district level were also seen as a potential source of financing for small items of missing equipment, repairs, painting facilities or to compensate staff that were compelled to work overtime at facilities suffering from a shortage of staff.

Regarding how performance should be measured, the MNH providers frequently mentioned the reduction of maternal mortality, the number of patients attending the facility and the number of hours that health staff were on duty. The district managers were more specific, suggesting that the number of facility deliveries would be a good way to measure the quality of delivery care. The number of antenatal care visits made in the course of a single pregnancy was also mentioned, as were outreach sessions in the community. The policy respondents recommended the use of indicators from the health management information system to avoid increasing workloads.
Comparison between the three countries

Across the three countries, whilst preferences strongly focused upon financial incentives, there was also support for non-financial incentives. The most commonly mentioned financial incentives were similar in the three countries and generally revolved around the receipt of per-diems or monies given during training sessions or meetings, followed by bonuses, prizes for hard workers and overtime payments. There were also similarities in the type of non-financial incentive suggested across the three countries, particularly regarding training and refresher courses, timely promotion, recognition of work achievements and letters of acknowledgement.

The need to pay attention to future sustainability was recognised to be essential amongst the respondents from all three countries. Moreover, the need for stakeholder involvement in the design, provision and management of such schemes was underlined.

In all three countries more precise suggestions for possible performance indicators were made by the respondents with management roles. Overall, the actual indicators proposed showed similarities across the three countries. The suggestions from each country are shown in Table 2.

Discussion

The typology of incentives suggested by the respondents from the three countries showed broad similarities. They are largely in line with those of other studies.15,24 The impact of financial incentives has received considerable attention in the literature to date.11,13,22,25 However, there is less evidence regarding the role that non-financial incentives can play. Mathauer and Imhoff found that non-financial incentives were influential in improving health worker motivation26. This finding is further supported by Stilwell27 who noted that in Zimbabwe health workers based in remote areas frequently exhibited a high level of motivation to perform well despite the lack of financial incentives and difficult working conditions. A review of theories and empirical evidence of health workers’ motivation28 also stressed the importance of non-financial incentives. The Australian experiments on pay-for-performance focused on non-financial incentives as a strategy for improving the quality of care, with good results29.

Despite the current interest in PBI schemes,11,10 concerns about their sustainability abound, particularly when they mainly comprise financial incentives as was the case with a scheme in Egypt.22

Developing PBI schemes that are aligned with health workers’ perspectives is not straightforward but has been found to be of central importance.30 Although the respondents from all three countries considered financial incentives to be extremely important, overall more opportunities to integrate the costs of non-financial incentives in local budgets were identified. Important examples in this regard included training, functional and available equipment, supportive supervision and recognition for work well done. Reference was also made to the motivating effect of timely promotions, the importance of which has already been raised.31

At the policy level in all three countries there was a cautious view regarding the introduction of performance-based financing given its dependence upon donor funding.

In Burkina Faso, the providers did express a readiness to make a personal investment in such schemes so that all facility team members might benefit from receiving a modest financial incentive. This could be linked to the concerns about the fairness of such schemes and a realisation that decisions about who attends meetings or training and can thus access per-diems are often made in an arbitrary manner.

Concerns about the heavy additional workload that PBI schemes can generate for managers have been noted elsewhere.20 This could explain the view of the district managers in Burkina Faso who preferred team incentives to individual incentives because they considered them easier to administer.
Table 2: Choice of performance indicators by country

<table>
<thead>
<tr>
<th>Indicator type</th>
<th>Burkina Faso</th>
<th>Tanzania</th>
<th>Ghana</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Process indicators</strong></td>
<td>Number of outreach education activities performed</td>
<td>Health education for women</td>
<td>Health education session</td>
</tr>
<tr>
<td></td>
<td>Training midwives and nurses on basic care for women and newborn</td>
<td>HIV testing</td>
<td>Training</td>
</tr>
<tr>
<td></td>
<td>PMTCT service offered</td>
<td>Number of new children registered</td>
<td>Newborn registration</td>
</tr>
<tr>
<td></td>
<td>Number of immunisation sessions organised</td>
<td>Supervision conducted by DHMT</td>
<td>Malaria case detection for under fives</td>
</tr>
<tr>
<td></td>
<td>Number of community sensitisations</td>
<td>Measuring weight after birth and every month</td>
<td>Home-based visits performed</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Number of neonates undergoing a checkup within 24 hours of birth</td>
<td>Visual aid material developed for women</td>
</tr>
<tr>
<td><strong>Output indicators</strong></td>
<td>Number of health centres with PMTCT and HIV testing facilities</td>
<td>Number of health facilities offering services</td>
<td>Number of health facilities providing antenatal care services</td>
</tr>
<tr>
<td></td>
<td>Number of health facilities offering basic lab exams (albumin test, glucose test, malaria rapid test, HIV rapid test)</td>
<td>Number of antenatal care visits performed</td>
<td>Number of antenatal care visits performed</td>
</tr>
<tr>
<td></td>
<td>Number of health facilities using reproductive health management guide</td>
<td>Number of postpartum care visits performed</td>
<td>Number of deliveries assisted by skills birth attendants</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Number of pregnant women counselled and tested for HIV</td>
<td>Number of health facilities providing basic exams for albumin test and HIV testing</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Number of pregnant women tested positive and recorded for the active file to receive ART</td>
<td></td>
</tr>
<tr>
<td><strong>Coverage indicators</strong></td>
<td>% antenatal care coverage</td>
<td>% pregnant women received IPT2</td>
<td>% institutional deliveries</td>
</tr>
<tr>
<td></td>
<td>% TT vaccination for pregnant women</td>
<td>% deliveries at health facility</td>
<td>% antenatal care coverage</td>
</tr>
<tr>
<td></td>
<td>% women received iron supply</td>
<td>% pregnancy complications referred</td>
<td>% Postnatal care coverage</td>
</tr>
<tr>
<td></td>
<td>% institutional deliveries</td>
<td>TT vaccine and HIV testing</td>
<td>% family planning attendance</td>
</tr>
<tr>
<td></td>
<td>% postnatal care coverage</td>
<td>Vaccination (DPT, IPT2, HB3, Polio 0-5, BCG, measles, yellow fever)</td>
<td>Child immunisation (BCG, OPV, measles, yellow fever, DPT)</td>
</tr>
<tr>
<td></td>
<td>% family planning</td>
<td>% iron supply for women</td>
<td>TT vaccination for pregnant women</td>
</tr>
<tr>
<td></td>
<td>% immunisation coverage (BCG, polio, measles, yellow fever, DPT)</td>
<td>% vitamin A coverage</td>
<td>% vitamin A coverage</td>
</tr>
</tbody>
</table>

Although generating competition between team members may improve efficiency in some settings, the effect in health facilities in this region of the world can be divisive. Moreover, as it is known that gender plays an important role in health worker motivation, there is scope to further explore the role that this may have played in these views on possible incentives, indicators and ways to finance such schemes in the longer term.

Selecting key performance indicators upon which to base such incentive schemes is an essential part of the development process. The authors’ experience of engaging stakeholders in such a process showed that the suggestions from providers themselves often required further refinement and selection. Indeed, the respondents with managerial roles from all three countries made clearer suggestions. This may be because of the familiarity this role gave them with health information system indicators already in use in the system.

Limitations

The respondents were selected from one district, and specifically from six health facilities, from each of the three...
countries concerned. This was considered legitimate because these are the intervention districts where the incentive schemes will be piloted. However, although the findings may also be applicable to other rural districts in the same countries they should not be generalised further.

**Added value of this study**

This article describes the views of respondents from three countries from districts that were in the process of developing and introducing PBI schemes in the area of MNH. As there is a tendency for such schemes to be donor dependent, the authors sought to address the issue of sustainability from the outset. By seeking to obtain the views of the future beneficiaries of the scheme it was hoped that greater ownership would be generated.

**Conclusions**

Performance-based incentive schemes are being implemented in many African countries as a possible way to strengthen health system performance. However, there are concerns about their sustainability. In all three countries the possibility to integrate such schemes into local budgets was felt to be much higher if non-financial incentives were used. Ensuring participation of healthcare providers in the design of PBI schemes is likely to achieve buy-in and endorsement from the health providers involved. However, input from managers and policy makers is essential to keep expectations realistic and to ensure the indicators selected are fit for purpose and form part of routine reporting systems.

**Acknowledgements**

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