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Motivating provision of high quality care: it is not all about the money

Mylène Lagarde, Luis Huicho, and Irene Papanicolas discuss different strategies policy makers can use to motivate health providers in order to improve quality of care

The inclusion of universal health coverage as a target in the sustainable development goal for health has boosted the global movement to improve access to healthcare services. To improve health, the services accessed must be high quality, yet there is mounting evidence that the quality of care delivered to populations in many low and middle income countries is inadequate. Governments must consider strategies that will not only improve accessibility to care for their populations but also substantially improve quality.

A priority in achieving universal health coverage is the recruitment, training, and retention of healthcare workers. However, there is widespread concern that health systems are not getting the most out of their workforce. Recent evidence shows that the quality of care provided by healthcare workers is often lower than what they are able to demonstrate in the context of a test or under the watchful eyes of an observer. The existence of such “know-do” gaps shows that substandard care cannot be fully explained by low competence or inadequate training. Low quality of care and medical errors occur more often when providers are demotivated, which can be fuelled by inadequate working conditions such as shortages of basic drugs and equipment or staff. Yet, although good working conditions are an important part of delivering good quality of care, they are not sufficient to ensure that health professionals are motivated and adhere to recommended treatment guidelines. Here, we discuss the evidence on different approaches that can be used to increase provider motivation and ultimately improve quality of care.

Financial incentives are not always worth the investment

Economists, managers, and policy makers have long seen remuneration as an obvious lever to influence providers’ behaviour. In high income settings, the use of direct financial incentives to improve quality has been ubiquitous with the aim of maintaining high quality standards while encouraging more efficient spending. In settings where salaries are low and health workers demotivated, similar pay-for-performance schemes have been used, often to achieve a dual objective: to increase remuneration and to provide incentives for improving performance.

Despite the enthusiasm for these schemes, the evidence of their impact on quality of care is lacklustre. Although they have been found to increase adherence to quality of care processes, their overall effects are mixed and, when positive, small. For example, an experiment in Rwanda led to the improvement of some rewarded measures of process of care (eg, iron supplementation for children, urine analysis in antenatal care), but not of others (eg, malaria prophylaxis and tetanus vaccination for pregnant women), and provider effort in antenatal consultations was only slightly higher than in the absence of incentives. This is one of several examples of the mixed results achieved by pay-for-performance schemes in terms of quality improvement in low income settings, which are disappointing considering the investment made.

The global evidence is similarly mixed, with no evidence of significant improvement in health outcomes after the introduction of pay-for-performance schemes. Furthermore, caution is needed to avoid unintended consequences that can be costly or compromise quality. For example, when income is directly linked to drug sales, more unnecessary drugs are likely to be prescribed; when providers are reimbursed differently for inputs with similar health benefits they may choose the more profitable ones at the expense of efficiency. More generally, questions remain about the cost effectiveness of using financial incentives, especially when budgets are tight.

The multiple ways in which financial incentives can be designed, as well as the complexity of the healthcare environment in which they are introduced, may help explain why results have not always been as expected. Incentive schemes can differ in terms of the number and types of performance indicators targeted, the size of the reward in relation to provider’s income, or the extent to which the performance targets are completely under a provider’s control. All of these design choices matter and influence the effect of the incentives. The incentive will also be more powerful if it directly targets individual providers (specialists) rather than small teams (primary care centres) or large organisations (hospitals). If individuals value losses more than gains, penalties for failing to achieve targets will work better than rewards for doing so.

Lastly, providers’ personal characteristics may affect how they respond to incentives. For instance, a recent study found that certain personality traits may predispose some people to respond more to incentives than others. For people driven by factors other than remuneration, financial incentives may backfire. This may be particularly relevant to the healthcare sector, as workers are likely to care about not only their income but also their reputation, their patients, or their job.

Reputation matters in some contexts

Another way to incentivise quality improvement is to publish providers’ performance to the public or to their peers. This approach harnesses the power of another source of extrinsic motivation, concerns for your reputation, which are expected to push individuals to perform better.

Many countries have made measures of hospital performance publicly available,
typically reporting on waiting times or patient experience, and sometimes on measures of quality and safety, such as mortality and complications. Most evidence on the impact of public reporting comes from the US and shows mixed results. For hospitals, public reporting has been linked to small increases in adherence to processes of care but not to reductions in mortality. For individual health professionals, it has been associated with decreases in mortality, but there are concerns about how these reductions are achieved, and in particular the extent to which public reporting encourages patient selection.

In settings where administrative information on provider quality is lacking or less credible, public reporting of provider performance can rely on community-based monitoring of service delivery and engagement with providers. Robust evidence on such initiatives is still limited, but in a pioneering experiment in Uganda, when non-governmental organisations distributed reports on use and quality of services to local communities, mortality in children under 5 years old fell by a third.

Public reporting programmes could therefore be a worthwhile strategy to promote quality, but their effectiveness requires careful design and a favourable environment. The information reported has to be credible and salient. To achieve this, it has to come from a trustworthy source; depending on the setting this may or may not be the government. Equally, the information reported has to be noticeable and focused on a few indicators, to avoid being ignored.

Public reporting will improve quality only if providers are held accountable for their performance in some way. Even in the absence of potential reputational or legal consequences, publicly reporting poor practice can have financial consequences in a competitive healthcare market. If providers’ income is linked to the volume of patients, low performers will be automatically penalised as patients will “vote with their feet” and choose higher quality providers. But to achieve this, patients must be able to both access and use the information reported. In many settings, this may require additional supporting initiatives to help patients navigate a complex environment, or simply use and interpret the data. Conversely, if poor practice does not lead to negative consequences for providers—whether financial, moral or legal—public reporting will be a toothless policy.

Harnessing the power of intrinsic motivation

Intrinsic motivation is known to be a powerful driver of provider behaviours. Two different sources of motivation are identified: the satisfaction derived from undertaking actions that benefit other people or society (sometimes referred to as altruistic or prosocial motivation) and the interest or enjoyment of a task itself.

Evidence is emerging that intrinsically motivated providers display desirable behaviours or attitudes towards patients. Health education research in high income countries shows the importance and long term benefits of selecting people with altruistic values, such as compassion or empathy, into the medical profession. Research in sub-Saharan Africa has found that nurses who are more generous towards patients are more likely to choose jobs in rural and remote areas, and that more generous clinicians provide better quality of care to patients. Yet, few interventions have rigorously explored the extent to which intrinsic motivation can be shaped or harnessed to motivate quality improvement.

Policy interventions that could appeal to this type of motivation fall into two categories, depending on whether intrinsic motivation is seen to be malleable or not. If intrinsic motivation is an innate individual trait, policy makers should try to select more generous people who display the right type of motivation. On the other hand, if intrinsic motivation is a form of capital that can be depreciated or accrued, specific interventions should be introduced to nurture it. We consider recent examples of both approaches.

Selecting people with intrinsic motivation

Many countries have introduced programmes to select people into medical or nursing training by introducing quotas based on people’s geographical origin in order to increase the rural retention of staff, especially in low income settings, but selection of medical students is still mostly based on academic attainment. There are concerns that this approach is not sufficient to ensure that people with softer skills are selected. A few countries have started to introduce selection procedures to identify medical workers with personality traits and values indicative of intrinsic and altruistic motivation. However, such initiatives are still in their infancy, and controversy remains about the types of non-academic attributes that should be included and the validity of the selection procedures. More research needs to be carried out to determine which attributes are associated with better patient care for specific types of healthcare workers to inform such initiatives.

Selecting the “right” attributes is also critical when recruiting people for specific jobs. As economic theory suggests that people sort into jobs matching their preferences or motivation, employers could attract the “right” people by emphasising certain job characteristics. A non-governmental organisation recently tested this idea in Uganda, exploring whether highlighting particular aspects of the role of community health workers would make the job appeal to more altruistic people. Information about job remuneration was manipulated to suggest to applicants that the main role was either more commercial (selling small products such as salt or soap to households) or more prosocial (providing health advice). When lower remuneration was advertised, potential applicants inferred the social aspect of the job was more important; those who applied showed higher levels of altruism and ended up staying longer on the job and visited households more frequently. Similar success with framing job adverts has been found in other sectors, and it deserves further exploration.

Nurturing intrinsic motivation through feedback

Few policies have sought to specifically influence or nurture the motivational capital of providers. Examples include encouraging quality improvement through educational outreach programmes or audit and feedback, either to promote the definition of shared quality norms among groups of providers, or to highlight the benefits of good quality for patients.

An example of such interventions are physician collaboratives, which have some positive effects on quality of care. This approach uses confidential performance feedback to individuals and then creates opportunities to share lessons in a multidisciplinary setting and agree on high quality standards and practices. The Swedish quality registers are often highlighted as an example that has had a sustained and large effect on quality. Crucial to their success seems to be the fact that they are not part of an external regulatory or performance management process, but that they are driven by physicians themselves, who have promoted a culture of constructive appraisal and commitment to quality.

Whereas physician collaboratives highlight the importance of professional
norms and expectations to foster intrinsic motivation, two other examples show how provider performance can be enhanced by nurturing the altruistic motivation of providers. The first comes from the US, where healthcare professionals in a hospital were more likely to change their behaviour and adopt better practices when a campaign for hand washing highlighted the benefits for patients rather than the benefit to themselves.60 The second comes from a low income setting, where altruistic motivation might be expected to have limited effects given the low remuneration and challenging working conditions. Yet, in a recent experiment in India, community health workers who received regular information highlighting the benefits they were creating for patients increased their performance by 25%, and this effect was strongest for those with high levels of intrinsic and altruistic motivation.61 These examples highlight the need to identify policies that can preserve and nurture such reserves of goodwill.

Improving provider motivation
Not everyone is motivated in the same way,62 and the interventions that we have described should not be seen as mutually exclusive. Instead they form a palette of options from which policy makers can choose to design the most relevant solution. This process should start with a needs assessment to identify and understand the local obstacles that limit performance and undermine quality of care. In some settings, preliminary problems might have to be addressed before tackling low motivation. For example, if staff do not have the clinical skills to make a correct diagnosis, no amount of money or feedback will increase technical quality of care. If essential basic drugs and equipment are not available, incentives will not improve the treatments provided to patients.

In other contexts, careful consideration should be given to the broader environment in which health workers operate to understand their behaviour. Maslow’s seminal motivation theory63 states that people seek to satisfy their most pressing physiological and safety needs before they can be influenced by “growth” needs such as reputational concerns or altruism. In other words, if their financial remuneration is insufficient for them to make ends meet, providers are likely to be predominantly driven by financial motives. However, satisfaction of needs is not an “all or nothing” phenomenon.64 Similarly, we have reinforced the importance of bearing in mind that health professionals are heterogeneous in their preferences and the relative weight they place on these sources of motivation.

When designing motivational instruments, policy makers also need to take into account the broader environment. Incentives usually target one aspect of behaviour, but they are introduced into a complex system with an existing set of cultures and constraints that may affect the willingness and ability of practitioners to respond as intended. This makes it difficult to predict the outcome of any intervention, or to generalise about the transferability of findings across systems. For example, in settings where governance is weak, or political will limited, incentives to improve provider performance have failed. Several studies have described incentive programmes that failed to reduce absenteeism because of officials’ reluctance to fully implement the monitoring or incentive systems, or politicians interfering with bureaucratic sanctions.65-67 This does not mean that incentives cannot work in some settings but that they require innovative solutions, such as finding trusted entities to hold providers accountable, such as peers or the broader community.

Technology could also provide new opportunities to address these challenges. Mobile technologies provide cheap and flexible solutions to improve information systems and feedback, support clinical decisions, facilitate and monitor delivery of care in remote settings, and eliminate many barriers to payment.68-70 Despite the enthusiasm around and potential of these tools, there have been few credible attempts at evaluating their capabilities to support and increase provider motivation.61

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