Addressing Absence

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Abstract

This paper brings together evidence from a number of randomized experiments designed to address the problem of absence of teachers and health providers in developing countries. The goal is to see what, if any, lessons we can draw from them. Our tentative conclusion is that these service providers are willing to respond even to quite moderate incentives. The constraint seems to be in getting the incentives implemented: participants in the system, including both supervisors and beneficiaries, seem unwilling or unable do so. This suggests that, at this stage, fighting absence will either require incentives implemented from outside the system or a large enough boost to demand that the beneficiaries are willing to assume some degree of control. The long-run benefits might be large if these interventions help to break the vicious cycle of low performance and low expectations.
Absent providers are a major problem both for public health facilities and primary schools in many developing countries. The paper by Chaudhury and others on this issue provides new and systematic evidence on the rates of absenteeism based on surveys of absence rates of teachers and health workers in several developing countries. For example, in India, absence rates for teachers are over 24 percent and for health providers they are over 40 percent.

Other recent surveys confirm these findings. For example, Banerjee, Deaton and Duflo (2004a, b) analyze the results of a detailed survey of 143 government health facilities in rural Udaipur district, in the state of Rajasthan in India. In this survey, absence was monitored weekly for a year (at unannounced visits on random days), by a locally hired person, and also monthly by a monitor who was part of the research team. The monitor looked for the nurse either in her center or in any of the villages where she was supposed to be working. The average absence rate in the primary health care facilities (the larger centers) was 36 percent. The average absence rate is even higher at 45 percent in rural subcenters, and since these subcenters are generally staffed by only one person, absence means no one is running the subcenter.

Another survey in Udaipur focused on 60 non-formal education centers run by a non-government organization. In this case, absence was monitored monthly by a monitor who was part of the research team. The average absence rates for teachers in the these education centers was 36 percent (Duflo and Hanna, 2005).
Moreover this year-long survey reveals that absence is not concentrated among a few “bad apples.” While some facilities are clearly worse than others, it is not the case that a few facilities account for all the absences. For example, absences in the worst quartile of the health subcenters account for only 36% of the overall absences. The best quartile still accounts for 14% of the absences. In addition, absence pattern are erratic: there is no particular time, day or month, when one can be more or less sure that the center will be open. It is unlikely, moreover, that the villagers have much information that we do not have: the nurse has no way of informing the villagers when she is coming, and there is no evidence that she tries. As a result, villagers cannot plan around the absences: someone who is planning to go to the center has to decide whether to spend the half an hour or so that it takes her to walk the 1.4 miles that separates the average village in our sample from the closest public health facility, knowing that she has only a one out of two chance of seeing someone. It is no wonder then that people rarely use the public health facilities. Data from Banerjee, Deaton and Duflo (2004) suggest that only about a quarter of the visits to health facilities in rural Udaipur district are to government facilities. The rest are to a combination of private providers, who are often entirely unqualified (less than 40% of them have a medical degree, and almost 20% have not completed secondary school), and traditional healers.

Efforts to improve attendance are therefore crucial to making public services play their designated role in the lives of the poor. Initiatives to reduce absence rates in schools range from hiring more teachers on short contracts and instituting school committees to decentralizing education to local government. Unfortunately, it is rarely clear whether initiatives to fight absence are having their desired effect. Imagine, for example, that a
new headmaster arrives at a school full of enthusiasm and new ideas, and wants to fight teacher absence. He gets parents involved by setting up a parent committee. Word spreads that the new headmaster is good, and some children transfer into the school from other local schools. Teachers start showing up more regularly. How can one disentangle the effects of the parents’ committee, the impact of the headmaster’s enthusiasm on other teachers in school, and the effect of the influx of new students, who might be more motivated than average?

The cleanest and clearest way to get around this problem and identify the effect of a reform on attendance is to run a randomized trial. Choose 100 representative schools, establish (for example) a parents’ committee in half, and wait to start such committees in the other half until the evaluation is over: over the evaluation period, compare the outcomes in the two groups of schools. This randomized evaluation approach is very similar to how new drugs and vaccines are tested, and it is now being increasingly used by development economists.

This paper discusses evidence on a number of innovative strategies to reduce absenteeism in government and non-government organization run schools and health facilities that have been implemented in Kenya and India over the past few years, and that have all been evaluated using the randomized evaluation methodology. These strategies have involved alternative levers to fight absence: some have tried to improve incentives for providers, either through rewards and punishments implemented by external monitors, or through facilitating a more active involvement of those who expect to benefit from the service. Others base their strategies on the idea that the providers are discouraged by the lack of interest among the potential beneficiaries in what they are being offered, and have
tried to increase the demand for the services as a way of putting more pressure on the providers. The results of these efforts, taken together, shed light not only on ways to address the problem of absence in the public sector, but also on the underlying reasons for this phenomenon.

**External Control**

The obvious method to fight absence is to monitor more intensively, and to base incentives (both rewards and punishments) on measured performance. To do this, the employer has to establish a set of more or less explicit rules and put people in charge of the monitoring. The control is external when it is exercised by those who have no direct stake in the service being delivered. This is the case, for example, when the state takes on punishing shirking teachers, or when it gives them rewards based on school attendance and/or school performance. External control need not always be about monetary incentives—the state can also use praise or shame to put pressure on its agents.

The most common type of external control is one where someone in the institutional hierarchy (like the headmaster of a school), is given the task of keeping an eye on the teacher and penalizing absences. An alternative may be to use some impersonal method such as a camera for recording absence, and then to base rewards or penalties on that data. The problem with a person doing the monitoring is that he/she may either be too lazy to monitor, or might collude with workers. On the other hand, impersonal monitoring makes no allowances for the circumstances of the absence. Of course in both cases, someone needs to be in a position to enforce the rewards and penalties linked to absence. A final alternative is that rather than measuring absence,
some other measure of performance, such as test scores, which reflect more directly the final outcome we care about, could be used.

**Impersonal Monitoring by Camera**

A randomized experiment using impersonal monitoring was implemented by Seva Mandir, a non-government organization that runs non-formal single-teacher primary education centers in tribal villages in the rural Udaipur district. The program was evaluated by Duflo and Hanna (2005). Udaipur is a sparsely populated, arid and hilly region, where villages are remote and access is difficult, which makes it very difficult for Seva Mandir to regularly monitor the education centers. Absence rates are very high, despite the organization’s policy calling for dismissal in cases of high absence rates. At the baseline of this study in August 2003, the absence rate was 44 percent, which was quite similar to the 40 percent absence rate found in a study conducted in 1995 (Banerjee et al., 2004). Most Seva Mandir schools are one-teacher schools, such that when the teacher is absent, children just go back home and lose the entire day of schooling.

Seva Mandir selected 120 schools to participate in the study. In 60 randomly selected schools (the “treatment schools”), the organization gave the teacher a camera, with instructions to take a picture of himself or herself and the students every day at opening time and at closing time. The cameras had a tamper-proof date and time function. Figure 1 shows sample pictures of teachers and their students; the day of the month and the time of day are indicated on the right corner of the picture. Similar pictures were received twice a day for each school that was open on that day. Teachers received a bonus as a function of the number of “valid” days they actually attended.
“valid” day was defined as a day where the opening and closing pictures were separated by at least five hours and a minimum number of children were present in both pictures. A teacher received a salary of Rs 1,000 monthly if they were present at least 21 days in a month. Each additional valid day carried a bonus of Rs 50 ($1 U.S at the exchange rate, or $6 in purchasing power parity), up to a maximum of Rs 1,300 per month. Each day missed relative to the 21 days benchmark carried a penalty of Rs 50. Therefore, the way the bonus was set up, a teacher’s monthly salary could range from Rs 500 to Rs 1,300 per month. In the remaining 60 schools (the “comparison schools”), teachers were paid Rs 1,000, and were told (as usual) that they could be dismissed for poor performance. There was also one unannounced visit every month to measure teacher absences in the comparison schools.

The program resulted in an immediate improvement in teacher attendance, which persisted during the entire year. The absence rate of teachers was cut by half in the treatment schools, dropping from an average of 36 percent in the comparison schools to 18 percent in the treatment schools. Figure 2 shows the observed density of absence rates in treatment and in comparison schools for the 13 visits that took place during the duration of the program. The program changed the shape of the distribution of absence quite radically: in comparison schools, just one teacher is present on all 13 days when he/she was observed. In treatment schools, 11 (out of 60) are present all 13 times, 27 are present 12, 11 and 10 times, and everyone is present at least 7 times. The camera program was effective on two margins: it eliminated extremely delinquent behavior (less than 50 percent presence), and increased the number of teachers with perfect or very high attendance records.
When in school, teachers were as likely to be teaching in treatment as in comparison schools, and the number of students present was the same. However, because there were fewer teacher absences, treatment schools taught the equivalent of 88 children-days more per month than comparison schools—a one-third increase in the number of child-days.1

Given the structure of the payment, the average salary in the treatment schools ended up matching almost exactly the average salary in the comparison schools. The incentives were therefore effective without an increase in the teacher’s net pay: the only cost of running the program was the cost of the cameras and the administration of the program. Moreover, this cost is quite reasonable, compared to the salary of a teacher: our cost benefit analysis reveals that the program cost only $6 per child and per year to be administered (for an increase of over 30% in the number of days the child is taught). Most of these costs will be lower when digital cameras (which do not require developing film) can be used. The program is therefore not too expensive to be, in principle, scaled up to an entire school system.

This program shows that a straightforward incentive program, mechanically implemented, is a very effective way to reduce absence in schools. This shows the power of a clearly defined task, simple incentives, and systematic implementation. Acceptability of the cameras among Seva Mandir teachers was high: many commented that they felt it was now in their own hands to increase their salary. Today, several months after the end of the study, the program is still in place at Seva Mandir. However, in practice, in most

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1 A child-day is defined as the number of children present on a given day at a school that is open, and zero if the school is closed (when the teacher is absent, the school is closed, and children go back home).
school systems, incentive systems are not implemented in this way, but are mediated by people in the school hierarchy, either inspectors or school headmasters.

How Mediated Incentives Lose Bite

A program implemented by a non-government organization called ICS Africa in Kenya suggests that when headmasters implement incentives, the incentives might lose their power. ICS Africa introduced an incentive program for pre-primary school teachers, in which the headmaster was entrusted with monitoring the presence of the pre-primary school teacher. At the end of the term, a prize (a bicycle) was offered to teachers with a good attendance record. If the teacher did not have a good attendance record, the money would remain with the school, and could be used on whatever the headmaster and the school committee preferred.

Kremer and Chen (2001) report on the results of this experiment. In all treatment schools, the headmasters marked the preschool teachers present a sufficient number of times for the teacher to receive the prize (and they therefore all received it). However, when the research team independently verified absence through unannounced visits in both treatment and comparison schools, they found that the absence rate was actually exactly at the same high level in treatment and in comparison schools. Either to avoid the unpleasantness of a personal confrontation, or out of compassion for the preschool teachers, headmasters had apparently cheated to make sure that preschool teachers could get the prize.

2 ICS Africa is the African branch of a Dutch organization that has implemented programs to improve school quality in Western Kenya for over 10 years, and works in close collaboration with the school system. For 10 years, ICS Africa has also conducted many randomized evaluations in collaboration with Michael Kremer and his co-authors. The evaluation costs were typically financed with research grants, while ICS provided funding for the inputs. This paper reports on many of their findings.
This outcome suggests that when human judgment is involved in a system where rules are often bent, incentives may easily be perverted, either, as in this case, in an equitable direction, or to favor some specific individuals or groups. Mechanically implemented systems, such as the camera program, are immune to these problems—which may be the source of their effectiveness. Of course, they require the willingness of the administration to continue implementing them, possibly in the face of resistance by the teachers or health providers, and thus may eventually require enough demand for the service or political will.

Rewards for Performance Rather than Presence

Glewwe, Ilias and Kremer (2003) describe the results of an attempt in Kenya to provide incentives to teachers based on the test scores of students in their classes. ICS Africa provided prizes to teachers in grades 4 to 8 based on the performance of the school as a whole on the district exams in each year. All teachers who taught these grades were eligible for the prize. Prizes were awarded in two categories: "Top-scoring schools" and "Most-improved schools." Schools could not win in more than one category. Improvements were calculated relative to performance in the baseline year. In each category, three first, second, third and fourth prizes were awarded. Out of the 50 schools participating in the program, 24 received prizes of some type, and teachers in most schools should have felt that they had a chance of winning a prize. Prizes ranged in value from 21 to 43 percent of typical teacher monthly salaries.

The comparison of the 50 treatment and 50 control schools suggested that this program did improve performance in the district exams (by about 0.14 standard
deviations), but had no effect on teacher attendance. Instead, the teachers held more test preparation sessions. This, the authors conclude, was rational based on the (limited) evidence on what is most effective in improving test scores over the short horizon. However, these preparation sessions are probably poor substitutes for regular classes. This method of pushing up tests scores did little for long-term learning, as evidenced by the fact that once the program ended, students who had been in the program schools did not outperform those in control schools.

The lesson from this experiment seems to be that if we want to boost teacher attendance by providing incentives for teachers, the incentive must be tied directly to attendance. Incentives help teachers get a better sense of what their objectives are, and will lead them to focus on the most painless way to achieve this particular objective.

**Beneficiary Control over Service Providers**

The camera example shows that a simple program clearly linking payment to attendance does lead to clear improvement in attendance. When the incentives are focused on test scores, test scores do improve. However, this may not be an efficient outcome. Since the reward structure puts a direct emphasis on performance, this is likely to improve performance in school even if the real problem is lack of demand: the teacher would show up more often or put pressure on the students to do better, because this is what he/she cares about. However, it is not at all clear that this is what the students or the students’ parents want.

An alternative way to improve incentives is to give greater control to the potential beneficiaries. This was the main approach advocated by the World Bank (2004)
Development Report on social services delivery. Shanta Devarajan, who directed the report, summarizes the idea: “Services can work when poor people stand at the center of service provision—when they can avoid poor providers, while rewarding good providers with their clientele, and when their voices are heard by politicians—that is, when service providers have incentives to serve the poor.”

In order to affect absence, beneficiary control requires two components. First, beneficiaries must have a real demand for the service, so that they feel they have something at stake in monitoring providers. After all, beneficiary control by its nature faces a collective action problem: the community would like to enforce regular attendance by the provider, but everyone would rather have someone else do the monitoring. It takes some effort for beneficiaries to exercise power, and so for beneficiary control to work, they must feel that this effort is worthwhile.

The second component is that beneficiaries must have a mechanism for affecting providers. In most developing countries, beneficiaries have no way of punishing delinquency. Since the public services are subsidized, the option of beneficiaries voting with their feet is costly, if available (although this alternative is increasingly used—as evidenced by the large number of children in private schools in the poorest Indian states). It may also have no impact on absence since the salaries are rarely determined by beneficiaries’ usage. In most cases, beneficiaries have no inputs into the hiring or firing decisions, or in determining the actual salaries that get paid. Thus, an array of beneficiary control strategies are possible, ranging from putting the beneficiaries in charge of hiring and firing the providers (or deciding how much they should be paid), to more limited proposals like having beneficiaries monitor and report provider absences. Making
teachers accountable to a school committee or a body of parents is the standard example of this type of reform. These strategies (as the quote by Shanta Devarajan makes clear) assume that the demand for the services exists, and that the only thing beneficiaries are lacking is a way to exert control over the providers.

The advantages of beneficiary control are twofold: first, it may be cheaper for the beneficiaries to monitor the providers: they are both better informed about shirking than whoever was previously responsible for giving incentives (some higher level arm of the state) and may have means to punish the agent that are not available to others, such as social opprobrium. Second, to the extent that the service is valuable to them, they should care more about it and therefore be more willing to reward or punish the agent. In contrast, if after being given control they choose not to enforce the incentives, it must reveal a low demand for the service, which may suggest that trying to enforce low absence rates was not a good idea in the first place.

Of course, there is no guarantee that beneficiary control will work even if there is demand for the service. In many developing countries, the beneficiaries of education and health services are likely to be socially inferior to the teacher or health care worker, and the government worker may have some power to retaliate against them. Moreover, in many situations, beneficiary groups may be captured by the service provider through his or her social connections.

Despite the enthusiasm for beneficiary control, few programs that have given communities increased power over providers have been subjected to a randomized
evaluation. The two randomized evaluations (in Kenya and India) of which we are aware are not encouraging.

Local Monitoring

The first experiment tried to solve the collective action problem of beneficiary control and ensure that monitoring would take place. It was implemented in government health clinics in Udaipur district, Rajasthan (Banerjee, Deaton and Duflo, 2004b), such that a member of the community was paid to check once a week, on unannounced days, whether the auxiliary nurse-midwife assigned to the health subcenter was present in the center, and if she was not there, whether she could be found in the village. A parallel system (a monthly visit by a member of the survey team, on the same day) confirmed that this system of local monitoring was properly implemented: external monitors and community members found similar absence rates. However, no attempt was made to impose an external reward system for the nurse-midwives based on the monitoring information.

This idea behind this experiment was to let the villagers choose how they would use the monitoring information they were generating: they could choose to put explicit pressure on the nurse-midwife or try to shame her by exposing her absences. They could even promise her some explicit rewards. We can therefore see that it was the collective action problem in monitoring that was standing in the way of effective local control.

The weekly local monitoring system was put in place in 143 randomly selected clinics for eight months. Then, for the next four months, attendance was measured by

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3 The EDUCO program, the main example of community management of schools implemented in El Salvador is perceived to be a great success, but the current evaluation does not attempt to correct for the potentially endogenous program placement (Jimenez and Sawada, 2003).
external monitors carrying out monthly checks in a randomly chosen sample of 80 comparison health centers drawn from the same population from which the treatment centers were previously drawn. Attendance was also measured by external monitors in the treatment centers in each of these four months, while the weekly local monitoring of the treatment centers continued. During those four months, the absence rates turned out to be almost exactly the same in the program and in the comparison facilities (44 and 42 percent respectively). Community monitoring by itself, even when it is structured and regular, is clearly not enough.

**Community Participation**

One possible explanation for the lack of impact of community monitoring is that everyone—including the service providers—knows that the community lacks any formal authority to reward or punish the provider. In fact, the school committees set up in many developing countries often have no direct say in hiring, firing, or pay of the teachers. Even when local government bodies are ostensibly given the responsibility of monitoring the health providers and the teachers, they may have no control over pay or postings, which are determined at a regional or national level.

A project implemented by ICS Africa in Kenya tried to address this gap in two ways. First, ICS Africa facilitated a meeting between the school committee and the school administration at the sub-district level to ensure that the information the school committee had on the functioning of the school was transmitted to the hierarchy, who could then act on it. School committee members were parents from the school, in charge of raising supplementary funds for the school and, in principle at least, of monitoring its
functioning. Second, ICS Africa financed a prize that the school committee members could allocate to the teachers who, in their view, performed the best. The prizes (a bicycle for two winners per school, and a set of cutlery for two runner-ups per school) should have been significant enough to warrant effort by the teachers. The school committees received some guidance on how to evaluate teacher performance, including test scores, attendance and punctuality, and pedagogical methods, but were ultimately left to decide which teachers they wanted to reward.

While the experiment is ongoing, the preliminary results are once again disappointing (Kremer and Vermeersch, 2005). The program was implemented in 36 schools, randomly selected out of 72. After one year, the absence rates in treatment and comparison schools were statistically indistinguishable. The children’s performance was not any better in treatment schools than in comparison schools. Thus, providing voice and a certain amount of control over resources to the school committees was not enough to reduce absenteeism.

Why Has Beneficiary Control Proved Disappointing?

While there are lots of other ways to motivate and to institutionalize beneficiary control, the experience to date with such programs has proven disappointing. Similar results from Olken (2004) show that increasing participation in community meetings does not result in lower levels of corruption in local development projects in Indonesia.

One potential reason for the weakness of beneficiary control is that most communities are actually not particularly upset about the state of education and public health services, even when, objectively, the situation looks dismal. For example, in a
survey in Udaipur, villagers seemed pretty content despite the appalling state of the public health facilities: 81 percent reported that their last visit to a private facility made them feel better, and 75 percent reported that their last visit to a public facility made them feel better. Even though this refers to visits where they actually found someone there, it is surprising in view of the level of care they are getting (high absence rates, long waits, lack of drugs).

Although actual visits to health facilities as well as some objective health measures are correlated with the quality of the public health facilities, self-reported measures of health and wellbeing, as well as the number of symptoms reported in the last month, are not. In short, people seem to have low expectations from the health care system, and as a result, have little desire to invest time and energy into making it better. When asked about their last visit to a public facility, villagers did not even mention that even if the facility was actually closed when they arrived, at their actual visit, they always got to see someone. However, despite the higher cost of visiting private facilities, even the poorest households visited public facilities less than a quarter of the time. The rest of the time, they visited traditional healers and bhopas. They appear to have largely given up on the public sector. When this is the case, beneficiary control cannot be the primary tool for fighting absence.

A similar problem arises in education. Recall the experiment in which headmasters were asked to monitor absent teachers, but failed to do so. If the headmaster had enforced the rule of presence or had failed to give the prize to absent teachers, he would have done something that would surely have displeased the teachers, but it seems
likely that many parents might not have noticed or cared that efforts to reduce absence were occurring.

If the reason for high absence rates by providers is the lack of demand, then increasing demand for the service may lead to reduced absence rates. Of course, this only makes sense if the presumption is that the demand is actually inefficiently low. This could be because there are externalities across students, or because it is believed that parents or children are not sufficiently attuned to the value of schooling, that parents do not make optimal decisions for their children, or because we feel that an educated population is a public good. Regardless of whether increasing demand is desirable in itself, the impact of interventions meant to improve demand can give us some insight into absences.

**Demand Side Interventions**

There is now a wealth of different ideas in the policy conversation for making schools more attractive. They range from improving access (building schools nearer to where people live); improving school infrastructure (toilets for girls, lights for rainy days, fans for hot days, sports equipment, etc.); school inputs (textbooks, charts, etc.); to incentives for children/parents of children who attend school (direct rewards for regularity such as the PROGRESA program in Mexico and school meals, indirect rewards such as scholarships for students who do well, etc.). Two experiments in Kenya evaluated the impact of demand-side interventions on teacher absence.
Incentives to Learn

An intervention conducted by ICS Africa provided incentives for girls to do well in school (Kremer, Miguel and Thornton, 2004). At the beginning of the school year, ICS Africa announced that it would award scholarships to the highest-scoring 15 percent of grade 6 girls enrolled in the program schools on standardized official district tests, which every child takes at the end of the school year. The program was implemented in a randomly selected half out of 127 schools. The scholarship paid for school fees for the next two years (at that time, students had to pay a fee to attend public school, though this fee has since been removed), included a cash payment for school supplies, and offered public recognition at an award ceremony.

In the schools with the scholarship program, both children and teacher presence went up, relative to the comparison schools. Teacher presence (measured at random, unannounced visits) was 6.5 percentage points higher in treatment schools than in comparison schools, reducing absence in program schools by about one-third.

One possible reason for this effect is that the teacher’s intrinsic motivation was boosted by the sight of a class full of keen students. Teachers may also have enjoyed higher status when their students received the scholarship. Alternatively, parents may have started taking the teacher absences seriously because it meant that their children were less likely to win a scholarship.

The experiment also provided evidence of externalities associated with demand. Even though only girls were eligible, the presence in school of both boy and girls increased in program schools. Moreover, test scores of both boys and girls increased, as did the test scores of girls that were initially low-performing, and thus stood a very low
chance of winning the scholarship. The most likely channel is that all children benefited from the pressure exerted by the families of the children who were directly eligible. After all, having a teacher present more often will benefit all children in a class.

**Incentives to Attend**

Most programs of incentives for children do not reward academic performance, but rather school enrollment or student presence in school. For example, the PROGRESA program in Mexico provided cash transfers to families whose children were enrolled in schools and who sought preventative health care. The PROGRESA program had significant effects on school enrollment, but not on student attendance (Schultz, 2000). To our knowledge, its effect on teacher absence has not been studied. In contrast, a child benefits from a school meal program only if the child attends school. Moreover, if the meal is delivered by the teacher, and would not be delivered if nobody was at school to prepare it, then a school meal program could result in increased participation by both students and teachers.

School meals are quite common—most Indian public schools have them now—but their effect on teacher and children attendance had not previously been subjected to a randomized evaluation. Vermeersch and Kremer (2005) evaluated the impact of a school breakfast program delivered by ICS Africa in Kenyan preschools on children and teacher presence, as well as children learning. Preschool teachers are locally recruited, and their salary is much smaller than that of regular teachers. Teacher absence rates reach about 30 percent. In this case, however, the meals were not served by the teachers: they were prepared by a specially hired cook and served by the cook under the supervision of a
parent. The school meal program resulted in a 30 percent increase in child participation in school on a given day, but the rate of teacher absence was not affected. We suspect that this result occurred because the parents’ demand was focused on the school meal, for which the teacher did not necessarily need to be present. More evidence is therefore needed to understand the effect of school meals on children’s attendance.

**Conclusion**

It is hard to resist the conclusion that most attempts to boost teacher (and health provider) presence have not been particularly successful. On the other hand, it would be a mistake to read too much bad news into this: the fact that teachers are willing to work under extrinsic incentives, as they did in the camera project in Udaipur, and do seem to respond to them is certainly very good news. This is especially so, given that the incentives were hardly extravagant. For each extra day the teacher was paid 50 rupees, which is just over 6 dollars in purchasing power parity terms, and close to the average daily wage for teachers in the control group. Perhaps the innate objectivity of the camera-based system has an intrinsic appeal that had been previously underestimated.

It is also worth recognizing that the working conditions faced by the providers in many of the studies reported here are hardly ideal, and that this might partly explain why they do not always respond to the incentives. Indeed, in some cases the job assignments of teachers and health care workers are poorly defined in such a way that makes a seemingly elevated rate of absence almost unavoidable. For example, auxiliary nurse-midwives in rural Rajasthan are assigned to a health subcenter in a village, but they often prefer to live in a nearby town that, for example, has better schools for their children. Six
days a week, from a town often 20 km or more away, the midwife has to get to the village by 9:00 a.m., by a combination of very limited public transportation and walking—6 percent of the subcenters are more than 5 kilometers from a road. She is then expected to visit all the hamlets near her assigned village once a week, which sometimes involves walking or cycling several kilometers when it is 110 degrees or more in the shade. In these circumstances, most people would probably be tempted to stay at home at least occasionally, especially given that they know that if they do not show up, only people in that particular hamlet will ever find out. Rationalizing job descriptions may well be the first step towards getting better attendance in some cases.

On the other hand, the fact that teachers did respond quite strongly to incentives suggests that at least for them, improving attendance is within reach. It is therefore rather disappointing that the beneficiary control mechanisms do not appear to work even in those schools. However, even in that case, the problem seems to be a lack of interest among the beneficiaries, rather than that the teachers are too powerful to be affected by parents’ demands. When the beneficiaries really wanted more school days, as in the scholarship schools, the teachers seemed to have been prepared to deliver. The same lack of interest may also be the reason why external control by headmasters did not do anything: the headmaster, after all, had to do something that might please the parents (but many parents may not notice or care), but will surely displease the teachers.

The lack of interest stems, in part, from a suspicion that what is being delivered in the public facilities is not really very useful. This is perhaps best exemplified by the fact that giving the school meals in preschools did not affect teacher attendance. Parents clearly valued the meals enough to bring in their children, but not enough, given that
teachers had nothing to do with the meals themselves, to pressure the teachers into coming more often. This is not to deny the evidence suggesting that parents do want their children to go to school—it is only raising the possibility that for many parents, this is primarily a ritual commitment, driven by their sense of what society expects, rather than a strong demand for education itself. That, combined with the oft-expressed feeling that the service providers have a hard enough job in any case, makes them reluctant to put much effort into improving the public facilities.

It is not, however, clear that this skepticism is particularly well-founded. In the case of the health centers, for example, we often heard the complaint that in the government health centers the doctors only give you pills, while the private doctors gave you shots (almost 70 percent of all visits to private doctors lead to a shot). The government protocols do indeed recommend pills for most things, but primarily because pills are cheaper and much safer (avoids the use of contaminated syringes) and, for most things, work just as well. Parents are not ready to pay even a small amount to pay for deworming drugs for their children, even though the drug has a high rate of return, when benefits are valued over the life of the child (Kremer and Miguel, 2004).

In the case of education, as well, it is hard to imagine that the parents (or the children) really have a good sense of what the private (and social) return to education would be in ten years for children of people like them, and it is entirely possible the governments (and so many others) are right in pushing them to educate their children. In this scenario it is possible to imagine a virtuous cycle: when teachers start teaching better, education starts to be more and more valuable (this is perhaps even more plausible in the case of health centers, where we do not have to wait ten years to see the results of better
treatments). Eventually people get wind of that and start demanding more education. At that point beneficiary control is likely to become much more effective, and this in turn will lead to better schools and even more demand and so forth.
References


Figure 2: Impact of the Cameras
Number of Schools Found Open Times in Treatment and Comparison schools
(out of 13 visits)