Is free basic education in Egypt a reality or a myth?

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A B S T R A C T

Egypt has made enormous progress in increasing access to education. While school is theoretically free, families must often spend substantial sums in order for their children to succeed in school. The question that this paper investigates is whether students can succeed in Egypt’s basic education system, regardless of their family circumstances, and without additional spending. The paper begins by examining inequality in completing basic education and then investigates the use of supplements, such as private tutoring. Outcomes are examined by socio-economic status, to illustrate how the need to supplement publicly provided basic education contributes to unequal opportunities for young Egyptians.

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1. Introduction

Free education—promised in the Egyptian constitution—is considered a fundamental right of every Egyptian. Over the past three decades, Egypt has made substantial progress in increasing access to education and raising educational attainment. Net enrollment rates in primary education have increased from 64 percent in 1978 to 96 percent in 2009 (UNESCO, 2015). Over a similar period the average years of schooling attained went from 2.7 to 7.1, putting Egypt among the top 20 countries globally in terms of increases in school attainment over that period (Campante and Chor, 2012). The focus in Egypt, as in many other countries and in the international discourse on access to education, has essentially been on increasing enrollments and attainment, often to the neglect of other important dimensions of education. There has been, until recently, insufficient concern about the demonstrably low school quality and low levels of learning students are achieving (Assaad, 2014; Salehi-Isfahani et al., 2014; World Bank, 2008). There has also been limited societal debate about the substantial inefficiencies and inequities associated with public expenditure on education (El-Baradei, 2013). These issues mean that while education is theoretically free, substantial additional spending is often required by families to ensure that children learn and succeed within the education system. The need for additional spending contributes to young people’s unequal opportunities to attain education or achieve learning (Assaad et al., 2014b; Assaad, 2013; El-Baradei, 2013; Salehi-Isfahani et al., 2014; World Bank, 2012).

The problems of low quality, inefficiencies and unequal opportunities start within the basic education system, which in Egypt goes up to ninth grade and constitutes the mandatory stage of education. Although education quality is a difficult concept to define and measure, Egypt consistently shows quality deficits. Within the international education literature, quality tends to be measured either in terms of inputs, for instance the pupil/teacher ratio, textbooks, or teacher training, or in terms of outcomes, such as literacy, test scores, life skills, and job skills (UNESCO, 2012, 2014). In terms of inputs, the public funding of basic education is inadequate (El-Baradei, 2013), contributing to low school quality. Employers also perceive little value in the skills conferred by the education system; Egypt was one of the lowest ranked countries in the 2014–2015 World Competitiveness Report (141st out of 144 countries) in terms of the quality of primary education (Schwab, 2014).1 In terms of international tests such as the Trends in International Mathematics and Science Study (TIMSS) Egyptian students (and those from other countries in the Middle East and North Africa Region) perform poorly, with 53 percent of eighth graders falling below the low benchmark, compared to an international median of 25 percent (Assaad, 2014).

In part because the quality of education is low, investments in education may generate low returns in the labor market.

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Annualized wage returns to basic education are estimated to be just 1 percent per year of education (Said, 2015). The returns to basic education in Egypt are less than one-twenty-fifth the international average of 26.6 percent per year of primary education (Psacharopoulos and Patrinos, 2004). If only returns in the private sector are taken into account, returns are even worse, less than 1 percent per year (0.1 percent per year for males and 0.4 percent per year for females). While returns to all levels of education are relatively low in Egypt compared to other countries, basic education in Egypt has lower returns than secondary or higher education (Said, 2015). The low returns to education are likely important contributors to the youth frustrations that drove the Arab Spring uprisings. Education in Egypt had traditionally meant access to formal (mostly public) jobs that paved the way to a middle class existence, but it has failed to live up to these expectations for recent cohorts of youth. The devaluation of education in recent decades has not only led to a great deal of anger and frustration on the part of educated youth, but also to persistent demands for social justice and more equal opportunities (Assaad and Krafft, 2014; Binzel and Carvalho, 2013; Binzel, 2011; Campante and Chor, 2012; Kuhn, 2012).

When the quality of education in public schools is poor, families who can afford it must often use other means to help their children succeed in school. In Egypt, the poor quality of public basic education has generated substantial demand for educational supplements or substitutes, such as private schooling, parental help, help groups, and especially private tutoring. Spending on basic education, and particularly on private tutoring is a substantial and rising share of the budgets of Egyptian households with school-age children (El-Baradei, 2013). Given the low quality of free public education, this supplemental private spending may be a critical element for succeeding in school, for those who can afford it.

This paper examines whether free basic education is a reality or a myth in Egypt. The discussion begins with an examination of equity in access to, success in, and completion of basic education. The paper then investigates the use of education supplements and substitutes, such as private schooling and private tutoring or help groups, as well as the provision of study help by family members. Two key outcomes of basic education are also explored: the performance of students on tests during basic education, and their ability to pursue the general secondary track (higher education bound), as opposed to the poorly regarded and usually terminal vocational track after basic education. The differences in education experiences and outcomes by gender and socio-economic status are explored to illustrate how the need to supplement publicly provided basic education contributes to unequal opportunities for young Egyptians.

The overarching question that guides the paper is whether free basic education is a reality for most Egyptians or if substantial private spending on education is necessary for success. Are privately-funded educational supplements necessary? How does success in basic education vary based on children’s social origins and the resources their families are able to invest in their education? This will be investigated through two linked questions:

(1) Is there equality in accessing basic education? What inequalities of opportunity in completing and succeeding in basic education occur in terms of gender and socio-economic background?

(2) What role do education supplements, especially private tutoring, play in basic education and inequality of opportunity? What differences in education supplements and education outcomes occur by gender and socio-economic background?

To answer these questions, this paper proceeds as follows. Section 2 presents the background, including frameworks for investments in education and unequal opportunities. Section 3 presents the data used and describes our methods. Section 4 describes the structure of the education system in Egypt. Section 5 presents the results in terms of accessing basic education, use of education supplements, and education outcomes. The last section concludes and provides policy recommendations.

2. Frameworks

The Egyptian constitution identifies a free education as the right of every citizen. This right is framed in terms of the socialization of young people into the nation’s character, identity, and culture, as well as in the instrumental terms of promoting innovation and meeting labor market needs (Egypt State Information Service, 2014). This articulation of the role of education in society reflects global debates about the role of education. Free education is often framed as a human right, for instance as in the Convention on the Rights of the Child (United Nations Office of the High Commissioner for Human Rights, 1990), to which Egypt is a signatory. The importance of equal opportunities is emphasized for this particular right of children, but such basic rights approaches tend to neglect issues of education quality. Education is also often framed as playing a key social and political role, both in terms of the state providing civic education (Cogan and Morris, 2001) and education being a key prerequisite to democratic political forms (Gaeser et al., 2007).

The instrumental, economic argument for public investments in education rests on substantial market failures that cause private demand for education to be lower than would be socially optimal. Substantial externalities (public benefits and spillovers) such as improvements in child health, reduced fertility, more effective political participation, or decreased crime are examples of justifications for public expenditure on education (Lindelow, 2008; Schultz, 2002; Temple and Reynolds, 2007). That parents, deciding on education for their children, will not capture the full benefits can also lead to under-investment in education (Edmonds, 2008). Information issues, where parents or youth are unaware of the true returns to education (Jensen, 2010), or credit constraints to investing in education (Schultz, 1961), all might act as justifications for public investment. Public investment should particularly target the levels of education and individuals who would not otherwise receive (enough) expenditure in the private market, as it is at these points that there is a justification for public investment in education. Currently, Egypt publicly funds primary through higher education, a policy that will, at least in the abstract, overcome some of the market failures, but at the expense of substantial spending on those who would otherwise attend and can afford to spend on education even if education were not free.

The human capabilities approach to education links together the intrinsic value of education, as a right, with more instrumental goals for education. This approach recognizes that the well-being of individuals is not just predicated on standard economic measures such as income, but on what individuals are free and able to do—their capabilities. Education is thus doubly important, as a route for expanding individuals’ capabilities, in addition to its value in the labor market or for other instrumental goals (Sen, 1999). Education quality is also particularly relevant for expanding capabilities and letting individuals achieve the goals they value (Tikly and Barrett, 2011). The extent to which individuals of all backgrounds are able to equitably access quality education in Egypt, i.e., whether free basic education is truly a reality, is thus of great importance.

In investigating whether free basic education in Egypt is a myth or a reality, we empirically connect three interlinked issues. The first is the unequal and inefficient nature of public investments in education, making it difficult for many young Egyptians to learn...
and succeed in school. The second issue is the high and unequal investments in private supplements to education that many parents consider necessary for their children to succeed in the education system. Lastly, the result of the combined inadequacy of the public education system and unequal investments in private supplements is unequal opportunities for Egyptian children to succeed in basic education and beyond. This section provides some background, both theoretical and empirical, on these issues both globally and in Egypt.

2.1. Unequal and inefficient public investments in education

High rates of grade repetition and dropout (Elbadawy, 2015; Krafft, 2012) are symptomatic of inefficiencies within the education system in Egypt. When young people repeat a grade, it doubles the amount of spending required to learn the same material and is a signal that the initial year of schooling was of insufficient quality to provide mastery of the material. Likewise, when young people drop out of school, it is often a symptom that the school system is failing to educate them. In examining the reasons stated for dropping out of school in a recent survey, after “I did not want to finish” (40 percent) and “the cost of uniforms and school fees” (19 percent), the next most common reason for dropout stated was “not doing well in school” (15 percent) (Population Council, 2011). This reason disproportionately affects children from less wealthy families and from rural areas. Research has demonstrated that children in Egypt are much more likely to drop out when experiencing a low-quality school environment (Hanushek et al., 2008; Lloyd et al., 2003). When children cannot succeed in school, particularly when it is due to the inadequate quality of schooling, it is clear that Egyptian society is not meeting its promise of a free education for all.

In addition to issues of efficiency justifying public investment in education, issues of equity may motivate the provision or financing of education through public channels. The equity argument for public spending on education rests on equalizing access to education across people of different social circumstances. To do so, public investment needs to target disadvantaged children to compensate for otherwise poor early environments, high opportunity costs, or excessive discount rates and an absence of financing. Currently in Egypt, public education funding is essentially regressive. Per pupil public education funding increases with the level of education, so that those in higher education receive the most funding (El-Baradei, 2013). These are, however, the wealthiest individuals in society, creating substantial inequality and providing the most funding to those who need the state’s support the least (Assaad, 2013). Thus, public funding prioritizes higher levels of education for some at the cost of universal high quality basic education for all. A policy of free public education at all levels, intended to provide opportunity for all, ends up instead in reproducing an unequal and regressive system.

2.2. High and unequal investments in education supplements

The inadequacy and inefficiency of public spending on basic education in Egypt results in the need for substantial private investments (by those who can afford it) in the form of educational supplements that reinforce quality and inequality issues. For instance, private tutoring is so widespread and extensive in Egypt that many students will skip attending school, especially in key exam years, and rely on private tutors for their instruction (Population Council, 2011). While private tutoring can have positive impacts, such as improved learning, it also can misalign teachers’ incentives, create distortions in the curricula, and worsen inequalities (Bray et al., 2014; Bray, 2003; Dang, 2007; Tansel and Bircan, 2006). In an environment with both school day teaching and supplemental private tutoring by the very same school teachers, private tutoring creates an incentive for teachers to teach less during the school day (Popa and Acedo, 2006).

In Egypt, teachers play a key role in whether public basic education alone is adequate for student success. A number of forces affect teachers’ efforts in school. Teacher pay has been largely stagnant in the face of rising inflation, yet teachers’ employment, as civil servants, is secure and their pay is unrelated to their performance in the classroom (Ille, 2015). Teachers therefore do not have strong incentives to perform well in their regular teaching. Additionally, they are motivated to generate income through other routes, such as private tutoring. This creates a serious incentive problem in the classroom; teachers will have higher income when they teach less. In order to generate demand for private tutoring, teachers may reduce the quality of schooling during regular school hours (Ille, 2015; Jayachandran, 2014). The lower a teacher’s effort level in the classroom, the greater the incentives for students to take private tutoring with the teacher, thus increasing his or her income (Ille, 2015). As a result, when teachers can offer private tutoring, it reduces student learning and achievement, particularly for poorer students who are less able to access tutoring (Ille, 2015; Jayachandran, 2014). Thus, while private tutoring in Egypt may be necessary for success, it also further distorts the functioning of the education system.

2.3. Unequal opportunities to succeed in basic education

On the surface, the policy of free education in Egypt should provide children with equal chances to succeed in basic education; no child should be prevented from attaining a basic education because his or her family cannot afford school fees. This ideal is conceptually aligned with the idea of equal opportunity. Due to unequal public funding and low quality public schooling, compounded by the need for large private expenditures on education, the reality is severe inequality in the opportunity to learn and succeed. To assess inequality of opportunity in basic education, we draw on the framework developed by the well-known economist and philosopher John Roemer (1998). Conceptually, some inequality in outcomes, such as wages in the labor market or test scores in school, is a desirable aspect of a well-performing economy. When individuals are rewarded with higher wages or better grades because of the choices they make and the effort they expend, this creates strong incentives for higher performance. However, inequality due to circumstances beyond an individual’s control—what is termed inequality of opportunity—is problematic both as a matter of social justice and in disconnecting effort from outcomes. When a girl from a poor family is less likely to complete basic education simply because of her gender and the economic circumstances of her family this is inequality of opportunity. Inequality of opportunity can be assessed empirically by looking at differences in education outcomes by gender and socio-economic characteristics.

There is a substantial body of existing evidence indicating that there is inequality of opportunity in access to basic education in Egypt. This inequality starts at school entry. Although entry into primary school for Egyptian children is becoming almost universal, a most-marginalized group, primarily girls from poor families in rural Upper Egypt, are still disadvantaged in that regard (Elbadawy, 2015; Krafft, 2012). Among those who do enter the school system, poorer youth are more likely to repeat a grade and also are more likely to drop out during basic education (Elbadawy, 2015; Krafft, 2012). Besides unequal attainment, students experience unequal school quality depending on their background, and achieve unequal levels of learning (Assaad et al., 2014b; Population Council, 2011; Salehi-Isfahani et al., 2014). We provide additional evidence on inequality of opportunity, linking the roles of low-quality public
schools, supplemental private investments, and ultimately unequal opportunities.

3. Data and methods

Surveys are the primary source of data used to assess the question of whether free and universal basic education is a myth or a reality for children in Egypt. We rely on the nationally representative Egypt Labor Market Panel Survey (ELMPS) of 2012, which includes rich information on education, including private supplements to education, as well as young people's background and circumstances. The ELMPS 2012 is the third round of a longitudinal survey,\(^2\) which allows us to look at the outcomes of students in the most recent round of the survey based on their circumstances in earlier rounds. For instance, we can look at how the wealth of a young person's household in 2006 affected their probability of completing basic education by 2012. This allows us to be sure that we are observing how family circumstances affect education—not how education affects the economic outcomes of the household.

The paper primarily relies on descriptive statistics to examine whether and how inequality in access to basic education, education supplements, and public spending occur along gender and socio-economic lines. Multivariate analyses are used to consider the net effects of different characteristics on outcomes. Although these methods are unable to identify causal relationships, they can identify important associations, and are interpreted as such.

4. Background: the structure of the education system in Egypt

Although pre-primary enrollments are expanding (Krafft, 2015), most young people in Egypt enter school at the primary stage. Fig. 1 illustrates the structure of the Egyptian schooling system. On-time entry occurs at age six, and primary school comprises grades one through six. Upon completion of primary education, students proceed to preparatory school for grades 7–9, which correspond to ages 12–14 if a student is progressing on time. The primary and preparatory stages comprise basic, compulsory education in Egypt. If students continue beyond basic education, they are tracked into either vocational secondary, which is usually a terminal degree, or general secondary, which implicitly guarantees access to higher education if the student completes the stage. Higher education comprises post-secondary technical institutes, which are two-year institutions, higher institutes and universities, which are four-year institutions and in some cases longer. Passing from the basic to the secondary stage or from the secondary to higher education stage is contingent on high-stakes exams that not only determine whether the student is allowed to continue, but also determine the type of education they are able to pursue.

5. Results

5.1. Basic education: access, types of schools, and completion

5.1.1. Who accesses education?

There has been substantial progress over time in whether children actually enter primary school in Egypt (Fig. 2). For Egyptians born in the 1950s, a substantial proportion never entered school and there was also a large gender gap in access. As shown in Fig. 2, fewer than 50 percent of females born in the 1950s entered school, while the rate among males born in that decade ranged from 65 to 80 percent. Among more recent birth cohorts, starting with those born around the year 2000, school entry was nearly universal. Additionally, the percentage of girls entering school has nearly caught up with that of boys for the cohorts born after the mid-1990s. Among the most recent birth cohorts who are of school entry age, individuals born from 2000 to 2002, only 1 percent of boys and less than 4 percent of girls did not yet enter school. Essentially, the primary challenge facing the Egyptian education system has shifted over time, from a historical challenge of ensuring that students entered school, to a challenge of ensuring that students complete basic education and achieve an adequate level of learning.

5.1.2. What types of basic education do students attend?

One of the methods families can use to address the inadequate quality of public basic education is to invest in education outside of the regular public system. In Egypt, alternatives to the regular public education system include public experimental schools, private regular or private language schools (the latter teaching in a foreign language such as English or French), or public Azhari (religious) schools. With the exception of Azhari schools, which are overseen by the Al-Azhar religious institution, all of these school

\(^2\) See Assaad and Krafft (2013) for detailed information on the different rounds of the ELMPS.

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**Fig. 1.** Structure of the Egyptian education system. Note: Ages in parentheses are ideal, assuming on-time entry and no repetition.

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**Fig. 2.** School entry by year of birth and gender, 3-period moving average (percentage). Source: Authors’ calculations based on ELMPS 2012.
5.1.3. Who struggles during basic education?

While Egypt has made great strides in ensuring children enter school, their success in basic education is not assured. One helpful metric to assess both the quality and efficiency of the education system is whether or not students are repeating grades during school. Repeating a grade occurs when a student is unable to master the material covered in a grade during the course of the school year. High grade repetition rates are a symptom of low-quality education. Repetition also contributes to inefficiency and high costs, as it takes twice the investment for the student to master the same material. In this section, we assess the chances a student repeats a grade during basic education as a symptom of students’ struggles in basic education.

Grade repetition is common in Egypt, particularly during the preparatory stage. Around 5 percent of students repeat at least one grade in primary education, and 9 percent in preparatory education.4 Male students are more likely to repeat a grade than female students. While 11 percent of male students repeat in preparatory, only 6 percent of female students do so. There is a similar gap at the primary stage as well (7 percent male, 4 percent female repetition).

The students who struggle the most to master the material of basic education are the students from the poorest wealth quintiles. Fig. 4 shows the percentage of students who repeated a grade during primary or preparatory by wealth. Students in the bottom two wealth quintiles do by far the worst; 7–9 percent repeat during primary and 14–15 percent repeat in preparatory. In contrast, students from the richest wealth quintile have only a 1 percent chance of repeating in primary or preparatory. Family resources clearly intersect with the chances that children will succeed or struggle in basic education.

It is youth with less educated parents who struggle and repeat grades during basic education. While students with secondary or university educated mothers have only a 1–2 percent chance of repeating a grade in primary or preparatory, those whose mothers have less than secondary education have a 7 percent chance of repeating during primary and an 11 percent chance of repeating during preparatory. Whether because mother’s education is linked to socio-economic status, or more educated mothers can compensate for the inadequate quality of basic education, children face unequal chances of school success depending on their parents’ education.

Overall, there are clear differences in students’ chances for school success depending on their backgrounds. Male students struggle more in school—evidenced by their higher rates of repetition—than female students. Students whose families are poor or whose parents are less educated struggle to succeed in basic education and have high repetition rates. In contrast,

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3 In recent years, foreign schools that provide international credentials and whose curriculum is not overseen by the Ministry of Education have been introduced in Egypt. These schools are still few in number and are very expensive by Egyptian standards. As a result, they only serve a tiny proportion of the wealthiest families, and only a few children attending these schools appear in our surveys. We therefore include this category of schools with private language schools in our analyses. Home schooling, which is also used by only a few respondents, is included in private regular schooling.

4 When examining youth who are not all currently in school, we use the wealth quintile of the individuals’ households in 2006 to make sure that the individual was still living with his/her parents and thus the variable truly captures parental wealth. Household wealth quintiles are based on a wealth index calculated using factor analysis on household ownership of a large number of durable assets and housing conditions, a common approach (Filmer and Pritchett, 2001).

5 Students could repeat more than once within a level, but we do not quantify this possibility.

6 Youth ages 16–22 in 2012 who attended these levels in the past.
students from wealthier families or with educated mothers have greater success and easier progress during basic education. These differential experiences of struggles or success during basic education translate into different chances of completing basic education, as the next section demonstrates.

5.1.4. Who completes basic education?7

Whether or not a child completes basic education or not will depend on a number of factors. Parents (and as they become older, children) will decide whether to continue with schooling depending on whether or not the benefits or value of schooling are greater than the costs of schooling. Costs include not just the direct costs, such as fees or uniforms, but the opportunity costs of children’s time. For instance, for boys, it may be possible to work at a young age, and so continuing in school imposes an opportunity cost in terms of income foregone. For girls, there is an opportunity cost both in terms of domestic labor (chores), as well as potentially working in the market or engaging in subsistence production. Girls may also face a reputational cost to attending school if they have to mix with boys or be exposed to potentially unsafe public spaces on the way to school. Parents will weigh this multitude of costs against the benefits of schooling. Particularly since the quality of schooling is poor and the private returns to basic education are low (Said, 2015; Schwab, 2014; World Bank, 2008), as children age and costs rise, families may decide not to have them complete a low-value basic education.

Conditional on school entry (see Fig. 2 for school entry rates), there has been a gradual increase in completion rates over time (Fig. 5). The increases in both school entry and completing basic education conditional on school entry have led to a substantial increase in the chances of completing a basic education over time. While those who did enter school had a 60 percent chance of completing basic education among the cohorts born in the 1950s, younger generations of Egyptians born in the 1980s and 1990s have conditional completion rates that exceed 80 percent. Conditional on school entry, the gender gap in completion rates narrowed early on, virtually disappearing by the 1970 birth cohort. This suggests that the gender gap in completing basic education for subsequent generations was entirely due to gaps in school entry. In fact, starting with cohorts born after 1980, girls had a higher conditional basic schooling completion rate than boys. Girls’ greater success in completing school, if they enter, is likely due to their better performance, including test scores (shown below) and lower rates of repetition (shown above). Girls also may face lower opportunity costs of remaining in school since they face poorer labor market prospects (Assaad and Krafft, 2015a).

Basic schooling completion rates are strongly dependent on socio-economic background. While 79 percent of all youth who were 18–22 in 2012 had completed a basic education, this rate varies substantially with parental education. Youth with mothers educated at the secondary level or university level have basic education completion rates in excess of 97 percent, as compared to a rate of 73 percent for those whose mothers have less than a secondary education. There are no appreciable gender differences in the effect of parental education on basic school completion rates. The chance of completing basic education varies not only with parents’ education and gender but also with parental wealth (Fig. 6). As expected, children from richer families are more likely to complete basic education. Boys from the poorest fifth of households have approximately a 61 percent chance of completing basic education and girls a 64 percent chance, compared to nearly 100 percent for boys and girls from the richest fifth of households (Fig. 6).

In sum, we see young people have substantially different chances of completing basic education depending on parents’ education and parental wealth. It is clear that, despite a policy of free education for all, young Egyptians face unequal chances of completing a basic, compulsory education depending on their circumstances. The current system is inadequate for providing a basic education for all, with the poor and those from less educated families facing particular disadvantage. These differential chances also translate into very different public investments, for students attending public schools. For fiscal year 2012/2013, the annual cost

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7 In examining basic education completion rates by cohort of birth, we focus on those born prior to 1992, and who are therefore at least 20 years of age in 2012, to ensure that those who will complete have had the chance to do so. By the same logic and to have a sufficient sample size to work with, in examining current completion rates, we focus on youth who were 18 to 22 in 2012.
Table 1
Regressions for probability of education supplements, current primary or preparatory students.

<table>
<thead>
<tr>
<th>Model:</th>
<th>Probability of no help Probit marginal effects</th>
<th>Probability of parent help Probit marginal effects</th>
<th>Probability of private lessons Probit marginal effects</th>
<th>Probability of group help Probit marginal effects</th>
</tr>
</thead>
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<tr>
<td>Reference probability:</td>
<td>0.370 0.214</td>
<td>0.295 0.258</td>
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<tr>
<td>Female</td>
<td>–0.007 –0.008</td>
<td>0.017 –0.003</td>
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<td>(0.010) (0.011)</td>
<td>(0.013) (0.008)</td>
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<tr>
<td>Type of school (public regular omit.)</td>
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<tr>
<td>Public experimental</td>
<td>0.106* 0.001</td>
<td>–0.056 –0.089***</td>
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<tr>
<td></td>
<td>(0.050) (0.043)</td>
<td>(0.042) (0.012)</td>
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<tr>
<td>Private regular</td>
<td>0.023 0.134***</td>
<td>–0.008 –0.085**</td>
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<tr>
<td></td>
<td>(0.042) (0.040)</td>
<td>(0.035) (0.011)</td>
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<tr>
<td>Private language</td>
<td>0.074 –0.048</td>
<td>–0.042 –0.083***</td>
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<tr>
<td></td>
<td>(0.084) (0.056)</td>
<td>(0.054) (0.018)</td>
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<td>Azhari</td>
<td>0.002 0.026</td>
<td>0.023 –0.053***</td>
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<td>(0.020) (0.013)</td>
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<tr>
<td>Wealth quintile (poorest omit.)</td>
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<tr>
<td>Second</td>
<td>–0.079*** 0.070***</td>
<td>0.053** 0.028*</td>
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<td>(0.015) (0.018)</td>
<td>(0.020) (0.012)</td>
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<td>Third</td>
<td>–0.092*** 0.079***</td>
<td>0.066** 0.036**</td>
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<tr>
<td></td>
<td>(0.016) (0.018)</td>
<td>(0.020) (0.013)</td>
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<tr>
<td>Fourth</td>
<td>–0.137*** 0.136***</td>
<td>0.139*** 0.032*</td>
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<tr>
<td></td>
<td>(0.019) (0.021)</td>
<td>(0.023) (0.014)</td>
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<tr>
<td>Fifth</td>
<td>–0.159*** 0.107***</td>
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<tr>
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<td>–0.061* –0.229***</td>
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<td>0.198*** –0.174***</td>
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<td>N (Observations)</td>
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<td>7972 7972</td>
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Source: Authors’ calculations based on ELPMPS 2012.

Notes: Regressions for probability are based on probit models. Marginal effects are presented here. Reference values are the probability when all categorical covariates are set to the reference, omitted category.

*** p < 0.01.
** p < 0.05.
* p < 0.1.

per student of a year of primary school was LE 2454 and the annual cost of a year of preparatory school was LE 3634. As students differentially attend and complete basic education, they receive differential public investments. In the next sections, we explore the role of private investments and how it may contribute to the inability of disadvantaged groups to succeed in the face of low-quality public education.

5.2. Use of education supplements

In this section, we explore a variety of strategies parents can use to supplement public education in Egypt. Parents can assist their children with schoolwork, invest in more costly forms of schooling through the payment of tuition and fees, or invest in help groups or private tutoring for their children. If public education alone were sufficient to ensure school success, parents would not need to invest substantially in these supplementary strategies. Besides presenting descriptive statistics about the use of these alternative strategies, we discuss in this section the net effects of various circumstances on the use of education supplements based on the multivariate regressions presented in Table 1.

Parents are likely to help their children with school work during the first few years of primary school (not shown). However,

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8 Data provided in correspondence with the Central Agency for Public Mobilization and Statistics. As of July 8, 2015, one Egyptian pound was equal to approximately US$ 0.13.

9 While we focus our discussion on gender and socio-economic patterns, regressions also include controls for Egypt’s regions to account for potential regional differences in education supplements, such as possible differences in the supply of help groups.
students receive less parental help as they advance through the education system. This may be due to the inability of less educated parents to help with advanced material. In the first year of primary school 65 percent of students received parental help, but only 20 percent did so by the time they reached the third year of general secondary. Students mostly receive help from their mothers. Other members of the household also chipped in to help, particularly during the last years of the basic and general secondary levels. These are the years with high stakes exams, and may be when older siblings are asked to provide study help for exams.

Private lessons become increasingly common as students advance in school. Overall, 53 percent of current students in primary, preparatory, or general secondary take private lessons, 10 percent participate in paid help groups that typically take place after hours on school premises, and 24 percent receive no help (including no parental help). On average, the number of subjects covered in help groups and private lessons is around three subjects. Use of private lessons ranges from around 33 percent during the first year of primary to 75 percent during the second year of general secondary (Fig. 7). Private lessons are common in every school year, but particularly in years with government exams, such as the sixth year of primary, the third year of preparatory and the second year of general secondary. The prevalence of private tutoring, particularly around high stakes exams, indicates the inadequacy of school alone as a mechanism for success in these exams. It also suggests a key pathway for inequality of opportunity, in that the need for tutoring around high stakes exams will exclude poorer families from succeeding and progressing.

Help groups are not as common as private lessons mainly because they are either not available, or, if available, are perceived as not being as good as private lessons. Students who took private lessons were asked why they took private lessons and not just used the less costly help groups. Half of the students who took private lessons in both the primary and preparatory levels reported that they do not have access to a help group in their school or community. That help groups were offered but were not as good as private lessons was also a common issue (36–38 percent), followed by help groups not being offered in the subjects needed (8 percent). Help groups are a lower cost alternative to private lessons, but clearly an alternative that is not as readily available, or as helpful when it is available.

Classroom teachers are also often the tutors in private lessons and help groups. This is likely to create incentives for teachers not to fully cover the necessary material in class, in order to receive fees for the assistance provided outside of class. This incentive problem has been shown in other countries to decrease learning in school and particularly harm poorer students (Jayachandran, 2014). Both private lessons and help groups are primarily taught by classroom teachers, but help groups are slightly more likely to be taught by classroom teachers than private lessons. Classroom teachers handle 80 percent or more of help groups in all basic education years except during the last year of preparatory school. Increasing from around 60 percent in the early years of primary school, classroom teachers provide 71 percent to 74 percent of private lessons for students in the final years of basic education.

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10 What we refer to as parental help could also include help from other household members but, as we discuss below, it is primarily parents. The specific question was “Does a parent, sibling or relative help you with your studies?”

11 The questions about help groups and private lessons refer to the last academic year and the questions about parental help refer to the current year. In order to calculate the percentage of children receiving no help, parental help in the previous year is assumed to be the same as the current year.

12 See Assaad and Kraft (2015b) for additional information on costs.

13 Private lessons are commonly taught by classroom teachers regardless of the school type in which the student is enrolled.

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**Fig. 7.** Percentage taking private lessons, help groups, no help by grade and level. Note: School years reported are the years attended in the previous academic year for current students, which is the year for which they reported the receipt of private lessons and help groups.

Source: Authors’ calculations based on ELMPS 2012.
5.2.1. Who receives education supplements?

Private lessons and help groups are a source of help for both poor and wealthy students, but there are substantial differences in the chances of using these supplements by wealth. Wealthier students are able to receive more family help in their studies than poorer students. Students from the poorest quintile of households have only a 23 percent chance of parental help compared with 77 percent for students belonging to the richest quintile of households (Fig. 8). Moreover, around a third of students from the poorest quintile take private lessons, but almost half of them end up without any source of supplementary help. The share of students not receiving any help drops sharply as wealth increases, to just 5 percent among those in the wealthiest quintile. Beyond the poorest quintile, around half of students receive private lessons. Help groups are a source of help for about 10 percent of students, a rate which does not vary appreciably across wealth quintiles. In the multivariate models (Table 1), there were statistically significant impacts for all wealth quintiles as compared to the poorest for parental help, private lessons, help groups, and receiving no help. The probability of no help dropped with increasing wealth, while the probability of private lessons, help groups, and parental help increased at higher wealth levels.

Students with less educated parents are by far the most disadvantaged in terms of education supplements (Fig. 9). Among students with less than secondary educated mothers, 40 percent receive no help, just 26 percent receive family help, 40 percent receive private lessons, and 10 percent attend help groups. More than half of students with mothers with secondary or higher education receive private lessons and around three quarters receive family help. Notably, for students with secondary or higher educated parents, multiple forms of help are clearly common, including combinations of family help, help groups, and private lessons. Students with highly-educated mothers are more likely to receive family help and slightly less likely to receive private lessons compared to those with secondary educated mothers, suggesting there may be substitution of family help for private lessons among the more educated mothers.

In the multivariate regressions (Table 1), having a secondary or university educated father significantly decreased the probability of no help and increased the probability of parental help, compared to a youth with a less than secondary educated father. While a secondary educated father significantly increased the probability of private lessons, the effect for a university-educated father was not significant, and father’s education had no effect on help groups. Having a mother with secondary or university education as compared to no education significantly decreased the probability of no help and increased the probability of parental help, but had no effect on private lessons. Having a university-educated mother slightly decreased the probability of help groups, suggesting some substitution of family help for help groups for children of mothers more able to provide such help. Notably, different dimensions of socio-economic status have different effects on the types of education supplements used, taking into account multiple characteristics. While wealth increases the use of all supplements, parental education affects primarily parental help and does not have large additional effects on other forms of assistance, after accounting for other characteristics.

Although there are large differences in the use of education supplements by wealth and parent’s education, there are essentially no differences by gender, nor are there statistically significant differences in the multivariate regression models (Table 1). There are also few differences by type of school. Those in public experimental schools are slightly more likely to receive no help than those in public regular schools, but no other school type is significantly different from regular public schools. Those in private regular schools are slightly more likely to receive parental help than those in public schools, but again no other school type is different. There are no significant differences in the probability of private lessons by school type, after accounting for other characteristics, but compared to public regular schools, every other type of school is related to a significantly lower probability of help groups.

The use of costly education supplements, particularly the use of private tutoring, is pervasive in Egypt. The common practice of teachers providing education supplements is likely to create perverse incentives, and reinforce the low quality of education in schools, requiring families to provide additional help. Families also play a key role in assisting their children with school work, providing unequal assistance to children depending on their family background. There are large disparities in the assistance children receive depending on their background, but even the poorest
families invest in education supplements, a clear sign that supplements are often required for school success. The necessity of providing supplements indicates that young people cannot succeed in basic education simply by attending free public schools. The inadequacy of the public education system requires supplements that are particularly likely to limit opportunities for students from less privileged backgrounds.

In order to explicitly test the potential tradeoffs between different types of education supplements, we estimated bivariate probit models. These models allow for tests of the relationship (correlation (rho)) between different help strategies. The results are presented in Table 2. Although there is not a statistically significant relationship between parent help and help groups, there are significant tradeoffs (negative correlations) between parent help and private lessons, and particularly private lessons and help groups. These negative correlations indicate that parents see these strategies as substitutes for each other controlling for ability to pay and other characteristics. In summary, after accounting for other factors, there is no apparent tradeoff between parental help and help groups. Parental help and private lessons are clear substitutes, as are private lessons and help groups. This implies that providing additional help groups might potentially reduce the reliance on private lessons.

5.3. Education outcomes

In this section, we examine two important education outcomes in Egypt: test scores and tracking into general secondary versus vocational secondary at the end of the basic education stage. Test scores demonstrate whether students have mastered the material required to pass a level. We examine students’ performance on the exams taken during their sixth year of primary and third year of preparatory in Egypt. The preparatory exam is particularly high-stakes, as it determines whether students can access general secondary (university-track) or vocational secondary (which is almost always a terminal degree). Additionally, we present in Table 3 multivariate regression models for preparatory test scores, the probability of entering the general secondary track, and the probability of entering the general secondary track after accounting for test scores. Theoretically, only test scores should determine tracking into general or vocational secondary, although test scores might be affected by students’ background.

5.3.1. Test scores in Egypt

Primary students have slightly higher averages on their exams compared with preparatory students. Primary test scores averaged 80 on a scale of 100, compared with the mean of 76 achieved by preparatory students. 14 Only a few students, about 4–5 percent, did not sit or failed in the exam. However, around half of students reported that they do not know their exam scores for both the primary (54 percent) and preparatory (43 percent) stages. For the remainder of the section, we report results based on only those who report a numerical score. Girls performed slightly better than boys in both levels. Scores of female students averaged 81 and 77 in their final primary and preparatory years, respectively, a 2-point advantage over the mean score of male students in the same years. In the multivariate models, although females averaged 1.5 point higher scores, the differences were not statistically significant (Table 3).

There is a strong relationship between test scores and household wealth, a reflection of the greater resources wealthier families can draw upon to assist their children to succeed in school.

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14 Test scores are for ages 13–17 for primary level and ages 16–19 for preparatory level.
Fig. 10 shows a clear pattern of higher scores for students from wealthier households. Mean scores for primary students belonging to the wealthiest quintile of households reached 88, a 15-point advantage over the mean score of students from the poorest quintile of households. Preparatory students from the wealthiest quintile of households, who scored an average of 84, had the same 15-point advantage over preparatory students from the poorest quintile of households. After accounting for other characteristics (Table 3) test scores were higher for every other wealth level compared to the poorest, but differences were significant only for the fourth (4.7 points higher) and fifth (8.2 points higher) wealth quintiles.

Mother’s education is also positively related to student performance. Students with university-educated mothers reached mean scores of 91 and 87 in the primary and preparatory exams, respectively. However, students with less than secondary–educated mothers scored 15 points less, on average, in both exams. Having more educated parents is significantly related to test scores even after accounting for other characteristics (Table 3). Compared to those with fathers with less than secondary education, those with secondary educated fathers had test scores that were higher by 4.6 points and those with university-educated fathers had test scores higher by 8.7 points. There were no significant differences comparing secondary educated mothers to mothers with a less than secondary education, but mothers with a university education were associated with a 3.6-point increase in test scores.

Students going to the more common regular public and Azhari schools also have the weakest performance in exams with mean scores around or below 80, compared with those attending public experimental and private schools whose mean scores average at least 87; however this difference is likely due to only the most educated and wealthy families, who are high-scoring anyway, sending their children to these schools.

5.4. Tracking into general secondary versus vocational secondary

One of the most important measures of success in the basic education stage is whether or not a child is then able to track into general secondary education or relegated to the inferior vocational secondary track. Although providing vocational secondary education is touted globally as having a strong economic rationale, the global evidence does not support vocational secondary as superior to general secondary education (Bennell, 1996; Kahyarahar and Teal, 2008; Moenjak and Worswick, 2003; Newhouse and Suryadarma, 2011; Pugatch, 2014). The vocational secondary track in Egypt can be characterized as inferior on a number of grounds. Vocational secondary is attended by students with lower test scores in preparatory; only those who have high test scores can attend general secondary and subsequently higher education. Vocational secondary is poorly regarded by society and employers (OECD/The World Bank, 2010; World Bank, 2013), in part because the skills and equipment used tend to be outdated, instructors are poorly trained, and connections to the private sector are weak (OECD/The World Bank, 2010; UNDP and Institute of National Planning, 2010). As a result, only a minority of attendees report receiving hands-on training that was useful in the labor market (Krafft, 2012). Because of the poor quality of their education, recent vocational secondary graduates earn no higher wages than those with lower levels of schooling (El-Araby, 2013; Krafft, 2013). Those who go on to general secondary and then higher education do ultimately obtain better jobs and higher wages (Assaad and Krafft, 2014; El-Araby, 2013; Krafft, 2013; Salehi-Ijfsahani et al., 2009). Thus, attending general as opposed to vocational secondary, for those who continue on for secondary education, represents a highly desirable outcome.

This section investigates the chances of attending general secondary as an outcome of the basic education stage. The average chance of attending general secondary (among those attending secondary) is 44 percent. The probability of tracking into general secondary is significantly higher for females than males by 8.5 percentage points, but this difference disappears once test scores have been accounted for (Table 3).

There are significant differences in the probability of entering the general secondary track by wealth (significant for third through fifth wealth levels as compared to the poorest), a difference as high as 27.1 percentage points for the richest fifth of households compared to the poorest fifth. Even at the same test scores, wealthier students have higher chances of general secondary. Fig. 11 shows the observed probabilities of attending general secondary by scores in the preparatory exam for students from different wealth levels. Children from the richest quintile of households clearly have an advantage in accessing general secondary education over other students. For the wealthiest quintile of students, the probability of attending general secondary school is substantially higher than the rest even when they achieve the same test scores. The gap is particularly striking among students with low scores. At scores of 60 a student from the wealthiest quintile of households still has a 30 percent probability of attending general secondary school. In contrast, students belonging to the first to the fourth quintile with scores around 60 have little chance of making it to general secondary.

For all but the wealthiest students with scores below 65, there are no notable differences in the probabilities of attending general secondary school. However, for those who reach the cut-off score of 70, the chances of getting into general secondary vary, with those from the third and fourth quintiles gaining higher chances of attending general secondary schools than those from the bottom two quintiles. In the case of the least wealthy students, the probability of accessing general secondary level only increases substantially when they reach scores above 80. After accounting for test scores (Table 3), the fourth and fifth wealth levels have significantly higher chances of general secondary, as high as a 25.1 percentage point increase for the richest fifth of households compared to the poorest fifth. Because a one point higher preparatory score increases the probability of general secondary by 1.3 percentage points, a student from the poorest fifth of households would have to get a twenty point higher test score to have the same probability of general secondary as a student from the richest fifth of households.

There are also significant differences by parents’ education, comparing both secondary and university educated mothers and fathers to less than secondary educated parents before accounting for test scores. After accounting for test scores, there are not significant differences for secondary educated mothers or fathers, but the probability of general secondary is significantly higher with a university educated father (14.2 percentage points) or mother.
(21.4 percentage points). Overall, family background impacts not just school performance, but secondary tracking even after accounting for performance.

6. Conclusions and policy recommendations

Free basic education in Egypt is failing Egyptian children. A policy of free education, designed to promote opportunities for children, has led to a distorted system where there is substantial inequality in succeeding in basic education depending on a child’s family circumstances. With an under-funded basic education system, children are not guaranteed success through school alone. Substantial expenditures on basic education supplements, particularly private tutoring, are often necessary to succeed. These expenditures further exacerbate the unequal chances students of different backgrounds are facing for school success. Children from wealthier and more educated families have much higher chances of attending private schools and receiving education supplements such as tutoring. This contributes to further inequality in not just completion of basic education, but unequal performance on tests and unequal access to general secondary and thus higher education.

The current system is clearly not meeting its goals of providing equitable and adequate education for Egyptian children. The failure of the public education system to provide quality education equitably to young people has contributed to the sense of social injustice articulated in the January 25th, 2011 revolution in Egypt. While Egypt, like other Arab countries, rapidly expanded its education system, raising youth expectations, rising education levels were met with diminishing opportunities in the labor market (Assaad and Krafft, 2014; Campante and Chor, 2012). Attempts to secure quality education and quality jobs through additional education investments have also been largely fruitless (Assaad et al., 2014a; Assaad and Krafft, 2014). As with other areas of human development in Egypt and much of the Middle East and North Africa region (Assaad et al., 2012; Assaad et al., 2014b; El-Kogali and Krafft, 2015; Ersado and Aran, 2014; Krafft and El-Kogali, 2014; Salehi-Isfahani et al., 2014), inequalities in education are limiting human rights, preventing the equitable development of individuals’ capabilities, and precluding social justice.

The problems within the education system are complex, and no single policy can address them all. However, a series of reforms targeting school financing, altering the incentives schools and educators face, and providing support to students in need can make a substantial difference in both education quality and equality within the education system.

How education is funded in Egypt needs to undergo substantial changes. Despite substantial public spending, all levels of education are underfunded. As it stands, young people cannot succeed with free basic education alone. Education is supposed to receive a greater public investment per the new Egyptian constitution (Egypt State Information Service, 2014). Particularly given rising demographic pressures (Krafft and Assaad, 2014; Youssef et al., 2014), further investments may be needed to improve equity and quality.

There are also some important opportunities even within education system funding to address equity. Currently, spending increases with the level of education. Yet access decreases at higher levels. For instance, while just 9 of young people from the poorest fifth of households attend university, 80 percent of young people from the richest fifth of households go to university (Assaad, 2013). This pattern makes education spending, particularly public spending on higher education, extremely regressive (Assaad, 2013; El-Baradei, 2013). The cost structure must change. Higher education should no longer be free of charge; students and families should contribute a large share of the costs of higher education, with scholarships for those who can demonstrate financial need and merit. Savings from the higher education budget should be directed toward basic education, including pre-primary education, which is currently not available to all free of charge (UNESCO International Bureau of Education, 2006), unlike every other level of schooling, and where there is substantial inequality of opportunity (Krafft and El-Kogali, 2014). Easing regulations on private schools and encouraging growth and competition among private schools—which wealthy families are more likely to use—could also allow the rich to opt out of the public school system and free up public resources to improve basic education for less wealthy students. Such savings could enable the government to increase investments in basic education quality.
The need for families to invest in private supplements to education is unlikely to be resolved solely by channeling additional resources into the existing system. Additional investments in education can have wildly varying effects on education outcomes depending on the nature of the investments (Glewwe et al., 2013; Kremer et al., 2013; McEwan, 2014). Raising teachers’ salaries within schools may help to address the strong incentives for teachers to provide private tutoring to their own students, and its damaging effect on opportunities and learning. Simply prohibiting teachers from tutoring their students is unlikely to be enforceable or effective. Teachers’ and schools’ incentives need to be addressed more directly. Stronger incentives and organizational changes may be more effective than additional resources; an experiment in Kenya found that approximately halving the pupil–teacher ratio had little impact on test scores, but using local teachers on short contracts and training school committees led to significant improvements in test scores (Duflo et al., 2009).

Although frequently advocated, direct financial incentives targeting teachers (performance payments) have shown mixed impacts globally, with impacts on student outcomes that range from small to impressive (Glewwe et al., 2010; Lavy, 2009; Sojourner et al., 2014; Springer et al., 2010; Sundaramaram, 2011). While worth testing in Egypt, rewards and incentives need to be structured very carefully, so the policy does not result in perverse effects, such as teaching to only the best students, or teachers being unwilling to work in poorer areas because, in the absence of educated parents at home, students may improve less. Having meaningful measures of student success is also very important in designing teacher incentives. A randomized study of the effectiveness of teacher incentives in Kenya found that, while incentives caused increases in the tests for which teachers were rewarded, this was primarily driven by increases in multiple-choice-question scores, and did not correspond to improvements on other exams (Glewwe et al., 2010). Thus the design of incentives and how learning and gains are measured are both extremely important to whether incentives will substantially improve learning (Mizala and Romaguera, 2004).

Additional accountability can be achieved by making both schools and teachers more accountable to parents and local communities for their performance. Egypt’s education system is highly centralized. Decentralizing authority and resources to local school districts or school boards is often touted as a key reform to increase accountability and improve outcomes (El Baradei, 2015; World Bank, 2008). For instance, local authority to fire teachers who limit their teaching during the school day in order to receive private tutoring income (Ile, 2015; Jayachandran, 2014) could help address linked quality and equity issues in basic education. Decentralization is not a panacea; a randomized evaluation of four different interventions to strengthen school committees in Indonesia found that grants and training had little effect, but that linking the school committee to the village council and democratic elections of school committee members significantly improved test scores (Pradhan et al., 2011). Involving parents in school-based management committees in rural Mexico reduced grade failure and grade repetition (Gertler et al., 2008). While in Argentina, decentralization measures improved overall outcomes (Galiani et al., 2008), they did not help the poor, but in Bolivia decentralization helped the poorest areas by increasing their resources (Faguet and Sánchez, 2008). Context and design of decentralization measures determines their effectiveness. Decentralization does not necessarily improve education outcomes and quality, and its effects are contingent on local capacities, policy design, and complementary and supportive resources (Chapman et al., 2002; Chikoko, 2009; De Guzman, 2007; El Baradei, 2015; Gershberg et al., 2009). Any attempt to implement decentralization reforms in Egypt should draw on the richness of international experience on what is and is not effective.

Addressing some of the quality problems in basic education, such as poor funding and teacher and school incentives, will help equalize opportunities for students to some extent. However, additional targeted policy measures need to address children’s unequal opportunities directly. Education policies play an important role in educational inequality and later in labor market inequalities. One study found that the policy that can lead to the largest reduction in education inequality is public pre-primary education (Cechchi and van de Werfhorst, 2014). More must be done in Egypt to ensure children enter school on equal footing, and early childhood programs such as pre-primary education play a particularly important role in equalizing opportunities. For instance, an early childhood program in Indonesia reduced the achievement gap between rich and poor children when they entered school (Jung and Hasan, 2014).

Besides policies that help place children on equal footing before they start basic education, policies that help struggling and disadvantaged students during the school years are important. Policies and programs must address and compensate for poor home environments and ensure that students have all the help they need to master material. Programs for students who have poor performance and who are at risk of failure or dropout can take a number of forms. Special instruction for children who are failing is one important element of addressing inequality. Additional or special instruction can be extra time after school, extra days of school during breaks or summer, or targeted help during the school day. Targeted additional instruction helped address repetition and dropout and improved educational outcomes in Latin America (Randall and Anderson, 1999). Remedial tutoring for struggling students can be extremely cost effective. A remedial tutoring program in India targeting students struggling with basic numeracy and literacy used young women from the community to deliver tutoring by taking students out of class for tutoring during the school day. The program had a large impact on learning outcomes (Banerjee et al., 2007). Particularly in the context of Egypt, where mastery of the material during the normal school day is difficult in the face of private tutoring, public or publicly funded programs that provide additional instructional time to disadvantaged or struggling students are important.

Moving forward, Egypt must take a number of steps in order to ensure that students have equal chances to succeed in basic education regardless of their background. Shifting funding from higher education, by imposing cost sharing at that level, could provide substantial additional resources for basic education. Additional spending on education is also planned; the constitution of January 2014 mandates that pre-university education spending be 4 percent of the gross national product (Egypt State Information Service, 2014), an increase over current levels (El-Baradei, 2013). The additional funds for education should be, at least in part, managed at the local school level by parent committees to strengthen incentives and accountability. The quality of basic education in Egypt is very low, and this is reflected in the poor ranking of Egypt’s education in comparison to other countries (Schwab, 2014), as well as essentially zero returns to basic education in the labor market (Said, 2015). Families often must invest in substantial additional expenditures in order to ensure their children can succeed in school; so-called “free” basic education in Egypt is a myth. Children face low and unequal chances of school success as a result of the low quality, inefficiencies, and incentive problems within the school system. Improving the quality of basic education and addressing inequality in school success will require a concerted effort on a number of fronts, but is vital to the development of Egypt and the future of Egyptian youth.


