Providing Out-of-School Adolescent Girls with Skills: 
A Review of the Global Evidence
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This policy brief reviews recent rigorous evidence on skills development programs for adolescent girls and examines the potential for such interventions to delay marriage and pregnancy.

Why Skills for Girls?
A low level of marketable skills among youth is a widely recognized barrier to employment in many developing countries. After completing primary or even secondary school, youth often lack the skills that employers need. Young women are especially disadvantaged by their lower average educational attainment. Compounding the low levels of skills gained in the formal education system, the market for vocational training is weak in many developing countries. As a result, many youth enter the labor market without the skills needed for success.

For girls who have dropped out of school, skills development can offer an alternative to early family formation and put them on a path toward a healthy future. Increased female employment can affect marriage and fertility outcomes through at least three channels. First, the ability to contribute economically expands the role of women in the household and society and can alleviate social and familial pressure for early marriage and fertility. Second, the loss in earnings associated with childrearing is an opportunity cost that may increase young women’s desire to delay marriage and childbearing. Third, higher earnings may improve a woman’s bargaining power within the household and allow her to negotiate contraceptive use and delays in sexual debut or marriage (Sivasankaran 2014).

The literature assessing the effectiveness of skills interventions for adolescent girls in low- and middle-income countries has been expanding rapidly over the past decade. However, the evidence base is not deep enough to document consistent and robust impacts across contexts. Instead, the interventions described here are considered “promising,” meaning that at least one rigorous evaluation has shown the intervention to be effective at increasing employment, delaying early marriage or pregnancy, or both.

What Works?
Two sets of skills contribute to success in the labor market: life skills and income generation skills. Life skills, or “soft skills,” are “a comprehensive set of universal cognitive and noncognitive skills and abilities, connecting behavior, attitudes, and knowledge” (International Youth Foundation 2014).

1 Corno and Voena (2015) shows that households in Tanzania marry their daughters early to obtain bride price payments in response to adverse income shocks.

2 While this series of policy briefs defines adolescence as ages 10 to 19, some of the studies reported here focus on slightly different ages.

3 Employment is defined broadly to include any type of income-generating activity.
Life skills, including workplace readiness, emotional regulation, and interpersonal skills, are strongly correlated with labor market outcomes (Heckman and Kautz 2012). Many of these skills are best developed in early childhood, but adolescence offers a crucial window of opportunity, as many of these skills are much harder to develop at later ages (Borghans et al. 2008). Life skills can also include prevention and response to gender-based violence. Income-generation skills include the technical and business skills needed to earn a living. Technical and vocational education and training (TVET) programs have a mixed record of securing employment for graduates and an even worse record of cost effectiveness (Blattman and Ralston 2015). Business and entrepreneurship skills programs are especially important in countries where the scarcity of jobs forces many youth into self-employment. Young female entrepreneurs may need support to overcome additional barriers, such as lower access to capital, weak professional networks, and social norms that limit their entry into more profitable male-dominated sectors. However, like TVET, the evidence in support of business skills training is weak at best: Very few evaluations have documented increased sales or business profits (see Cho et al. 2014; McKenzie and Woodruff 2012).

In practice, most programs address both life and income-generation skills, so they are grouped according to their primary focus and mode of delivery, community-based or center-based. The programs summarized in table 1 are representative and not intended to be exhaustive. They are among the few rigorously evaluated skills training programs that measure both employment and sexual/reproductive health outcomes.

**Community-Based Life Skills Training**

An increasingly popular model for the delivery of life skills involves groups of girls led by female mentors who meet regularly over several weeks or months. These groups serve two critical functions: First, they offer “safe spaces” in which girls are organized and can be reached with a variety of interventions and educational topics. For example, they often include complementary interventions to build financial assets to enhance girls’ control over material resources or build vocational skills. Second, they build social assets, including friendships, trusting relationships, and self-esteem, which can have a positive influence on girls’ livelihoods and health. Community-based life skills interventions tend to target girls as young as 10–11 years old, reaching them before the onset of sexual activity and marriage.

**Table 1. Selected Programs That Support Life Skills and Income-Generation Skills in Various Countries**

<table>
<thead>
<tr>
<th>Type of program by country</th>
<th>Program elements</th>
<th>Impacts</th>
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<tbody>
<tr>
<td></td>
<td>Life skills</td>
<td>Financial assets</td>
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<tr>
<td>Community-based</td>
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<tr>
<td>Ethiopia: Berhane Hewan</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>Uganda: Empowerment and</td>
<td>✓</td>
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<tr>
<td>Livelihood for Adolescents</td>
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<td>Zambia: Adolescent Girls</td>
<td>✓</td>
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<td>Empowerment Program</td>
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<tr>
<td>Center-based</td>
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<tr>
<td>Liberia: Economic Empowerment of Adolescent Girls and Young Women</td>
<td>✓</td>
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<tr>
<td>Malawi: Vocational Training for the Youth</td>
<td>✓</td>
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<tr>
<td>Dominican Republic: Juventud y Empleo</td>
<td>✓</td>
<td></td>
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<tr>
<td>Nepal: Nepal Adolescent Girls Employment Initiative</td>
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*Program and evaluation in progress.*
or poultry rearing. The evaluation found that, relative to adolescents in control communities, after two years the intervention raised the likelihood that girls were engaging in income-generating activities by 72 percent (driven by increased self-employment) and raised their monthly consumption expenditures by 38 percent. Teen pregnancy fell 26 percent, and early marriage and cohabitation fell 58 percent. The share of girls experiencing sex against their will in the previous year dropped from 14 percent to almost half that level, and preferred ages of marriage and childbearing both rose. At a cost of under US$100 per girl per year, the program also scored well on cost effectiveness.

The Population Council, a nongovernmental organization, is implementing promising programs in several countries. For example, the Berhane Hewan program in Ethiopia offered group-based life skills and livelihoods training led by a mentor, coupled with community-wide conversations on early marriage. A quasi-experimental evaluation revealed that impacts were particularly strong for younger adolescents 10–14 years of age, who were 90 percent less likely to be married in the villages where Berhane Hewan was offered and 1.8 times more likely to have used any family planning method. The Population Council also leads the Adolescent Girls Empowerment Program in Zambia, which helps adolescent girls to avoid early marriage, sexually transmitted infections, and unintended pregnancy. It combines three components: 1) group meetings with a mentor in a safe place, 2) savings accounts, and 3) vouchers for free health services. A randomized control trial is under way, with preliminary findings showing improved self-esteem and a significant reduction in unwanted sex among program participants.

Center-Based Technical and Vocational Education and Training
In contrast to community-based life skills programs, center-based TVET programs focus explicitly on developing employment-related skills and usually employ professional trainers. Until recently, most of the evidence on TVET programs in developing countries came from Latin America, where a series of Jovenes programs were evaluated starting in the mid-1990s (see Aedo and Nuño 2004; Attanasio, et al. 2011; Ñopo, et al. 2007). These programs had modest impacts, usually larger for young women than men, and tended to cost upward of US$1,000. In the past decade, several TVET programs in Africa and South Asia have been evaluated, with somewhat larger economic impacts, again with women often faring better than men.

Existing studies of TVET programs that report sexual or reproductive health outcomes present diverging results. Two randomized evaluations found a decline in teen pregnancy as a result of vocational training programs despite a lack of impact on employment. The Juventud y Empleo (Youth and Employment) program, in the Dominican Republic aimed to improve the labor market entry of high school dropouts aged 16–29 through technical training followed by an internship in a private sector firm (Ibarrarán et al. 2014). Findings showed that, 18–24 months after graduation, the program had no impacts on employment rates or improvements in job formality for women, but led to a 5 percentage point reduction in pregnancy among females 16–19 years of age in the treatment group (about 45 percent). The authors concluded that the reduction in pregnancy was due to improved expectations about the future. Furthermore, a program in Malawi that provided youth ages 15 to 24 with on-the-job training through apprenticeships generated comparable effects: four months after completing the training, beneficiaries showed no improvements in labor market outcomes, although men were more likely to continue investing in human capital development (Cho et al. 2013). Young women who participated in the training were, nevertheless, significantly less likely to have given birth in the previous year.

Conversely, evidence from Liberia and Nepal suggests that strong impacts on employment are not necessarily accompanied by changes in sexual or reproductive health behaviors or outcomes. The Economic Empowerment of Adolescent Girls and Young Women (EPAG) program in Liberia, provided classroom-based technical and life skills training, plus follow-up support to young women. A randomized

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4 Girls wishing to return to school and girls still in school received US$4 worth of school supplies each year. Parents who agreed not to marry their daughters off during the two-year period were given a goat at the end of the program. See also Erulkar and Muthengi (2009).

5 Maitra and Mani (2014) and Hicks et al. (2011) evaluate TVET programs in India and Kenya, respectively.

6 Blattman et al. (2014) evaluate an employment program for youth in Uganda, finding larger impacts for women. None of these evaluations report SRH outcomes.

7 7 percentage points in ITT, 14 percentage points in TOT.
impact evaluation conducted at the end of the yearlong program found that employment increased 47 percent and earnings increased 80 percent among participants relative to nonparticipants (Adoho et al. 2014). However, the evaluation found no net impact on fertility.8

Results from a quasi-experimental evaluation of the Nepal Adolescent Girls Employment Initiative were similar (Chakravarty et al. 2015). Through an ongoing program called the Employment Fund, almost 15,000 male and female youth per year receive access to free technical skills training courses, paired with life skills modules for women. In spite of impressive economic impacts (47 percent increase in non-farm employment, 72 percent increase in earnings), the evaluation found no impact on knowledge of HIV, desired fertility, contraceptive use, or fertility for either male or female participants one year after the training.

Conclusions
Skills development offers a range of benefits to out-of-school adolescent girls and alleviates a key obstacle to youth employment in developing countries. But do increased skills lead to delays in early marriage and pregnancy? Not always, according to the empirical evidence. Although the global evidence on skills training is growing and despite a theoretical basis for the relationship between skills, employment, and fertility, the documented impacts of skills interventions on sexual or reproductive health outcomes are still too limited to draw strong conclusions. The substantial heterogeneity of what constitutes a skills intervention contributes to the uncertainty. The strongest evidence is in support of holistic community-based programs that combine information on sexual and reproductive health with skills training and other financial and social assets in girl-only or girl-friendly settings. More research is needed to isolate the impacts of various program components and disentangle the causal pathways leading to delays in marriage and pregnancy.

References


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8 No effects were detected on desired fertility, number of boyfriends, or any other SRH outcomes.
