# What Education Policies and Programs Affect Learning and Time in School in Developing Countries?

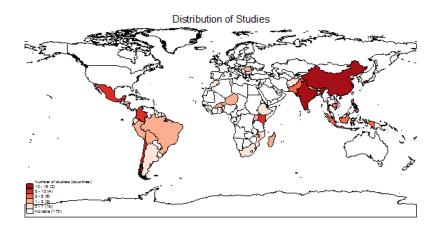
A Review of Academic and Aid Agency Evaluations from 1990 to 2014 for the Swedish Expert Group for Aid Studies (EBA)

Amy Damon Paul Glewwe Suzanne Wisniewski and Bixuan Sun

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#### Global Distribution of Studies





## Challenges Faced by Education Sector

1. Low Household Demand for Education



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- 2. Inadequate School Inputs

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- 4. Low Quality School Governance



Introduction Time in School Learning Outcomes Cost Effectiveness Policy Recommendations

#### Assessment of Intervention Effectiveness

Table 3. Rubric for Categorizing the Effectiveness of Studies.

What works	Requires 3+ studies with positive and significant outcomes May include a few non-significant or negative estimates, but most are significantly positive.
What often works	Evidence that the intervention often works, but sometimes does not work.     Requires 3+ studies     Relatively equal mix of positive and significant estimates with negative and/or nonsignificant estimates.
What is promising but needs more evidence	Promising evidence that the intervention works, but needs additional evidence. Requires: 1-2 studies. If 2 studies, 2+ positive and significant estimates are required; may include a limited number of non-significant estimates and even 1 negative estimate. If 1 study, only positive and at least 1 significant estimate
What does not work	No evidence that the intervention works     Requires 2+ studies     Most estimates are negative or insignificant
What we don't know and needs more research	No evidence that the intervention works, in part due to too little evidence on the intervention effectiveness, needs further evaluation. Requires: 1-2 studies



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- ► There is ample room for organizations such as Sida to contribute to this growing body of rigorous evidence that demonstrates the effectiveness of different interventions



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  - ► **Governance intervention**: providing vouchers to reduce the cost of enrolling in a private school

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#### Time in School: What Does Not Work

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## Learning Outcomes: What Works

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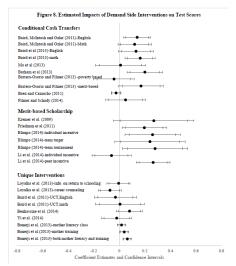
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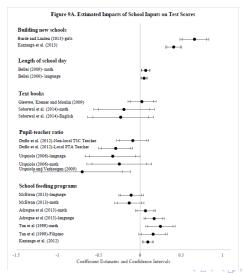
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  - Pedagogy intervention: The provision of supplemental or remedial instruction

## Learning Outcomes: What Works, Demand Estimates



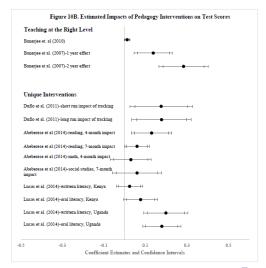


## Learning Outcomes: What Works, Input Estimates





## Learning Outcomes: What Works, Pedagogy Estimates





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  - Demand intervention: Conditional cash transfers
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  - Pedagogy intervention: making use of computers and electronic games
  - ▶ **Governance interventions**: (1) school-based management, (2) teacher performance pay, and (3) attending a private school



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  - ▶ Pedagogy intervention: contract teachers
  - ► **Governance interventions**: tracking/streaming of students



### Learning Outcomes: What Does Not Work

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- ► There is only one intervention that is clearly *ineffective* at increasing student learning
  - Governance intervention: monitoring of teaching attendance, without rewards or penalties for teacher behavior or performance, is unlikely to improve teacher attendance, and thus unlikely to increase student learning

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- Finally, there are more than a dozen unique interventions for which too little is known about their effectiveness in improving test scores.
  - Before pursuing additional funding for these interventions, more "pilot scale" research is needed to determine their effectiveness

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  - Ex: CCTs and school feeding programs



Table 12: Cost-Effectiveness of Interventions in Increasing Test Scores

Intervention	Study	Country	Length of Intervention	Test Scores Measured Well after Intervention Ended?	Increase in Test Scores in Terms of US \$ Cost per 0.10 σ
Girls' merit-based scholarship	Kremer, Miguel, Thornton, 2009	Kenya	2 years	No	\$14
Girls' merit-based scholarship	Friedman et al., 2011	Kenya	2 years	Yes, 4-5 years later	\$19
Individual scholar- ship, not tournament	Blimpo (2014)	Benin	1 year	No	\$3
Group scholarship, not a tournament	Blimpo (2014)	Benin	1 year	No	\$1
Group scholarship, tournament	Blimpo (2014)	Benin	1 year	No	\$2
Conditional cash transfer	Baird, McIntosh & Ozler, 2011	Malawi	2 years	No	\$77 (for girls in school)
Conditional cash transfer	Baird et al., 2013	Malawi	2 years	No	\$138 (girls no in school)
Conditional cash transfer Conditional cash	Barham et al., 2013	Nicaragua	3 years	Yes, 7 years later	\$100
Conditional cash transfer	Filmer and Schady (2014)	Cambodia	3 years	no	\$90
Conditional cash transfer	Barrera-Osorio and Filmer (2013)*	Cambodia	1-3 years	no	\$12
Computers (4 per school)	Banerjee et al., 2007	India	2 years	No	\$6
Computers (4 per school)	Banerjee et al., 2007	India	2 years	Yes, 1 year later	\$33
Computers (after school program)	Linden, 2008	India	1 year	No	\$2
One laptop per child	Mo et al. (2013)	China	6 months	no	\$5
Computer Assisted learning	Mo et al. (2014b)	China	1 year	no	\$2
Teacher incentives	Muralidharan & Sundararaman, 2011	India	2 years	No	\$1
Voucher for private schools	Angrist et al. *(2002)	Colombia	1 year	Yes, 1 year later	\$26
Girl-friendly schools	Kazianga et al. (2013)	Burkina Faso	N/A	no	\$8
Building new schools	Burde and Linden (2013)*	Afghanistan	2 years	no	\$5

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- There is a need for more comparable measures of costs and benefits for education research and policy
- There is a need for funders of education research to create standardized templates for reporting costs and benefits



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  - A very important consideration when planning an impact evaluation is the timing of the evaluation relative to the project's implementation
    - ▶ It is *critical* that projects and programs be developed in collaboration with evaluation experts so that they are implemented in a way that allows for rigorous quantitative evaluation techniques



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  - Related Recommendation: International development agencies develop a standardized system to calculate costs and benefits of intervention projects



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  - Ideally, the pilot program should have the same geographic coverage as the planned scaled-up program
    - Ex, if the program is intended for all rural areas in a given country then the pilot program should be done in all major

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roduction Time in School Learning Outcomes Cost Effectiveness **Policy Recommendations** 

## Recommendations Regarding Evaluating and Implementing Interventions

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Table 13. Cost of Further Evaluation by Effectiveness Category. Number of additional studies needed to Number of existing determine if a Per evaluation Cost estimate Current categorization studies program works (range) cost (range) \$USD500.000 -Promising Interventions \$USD1,000,000 2 additional 1 to 2 million USD Interventions with too \$USD500,000 little research 3 additional \$USD1,000,000 1.5 to 3 million USD



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  - Determining these costs is relatively straightforward (albeit highly dependent on local costs of labor and transportation) and thus will provide a clearer idea of how much additional evaluations will cost



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    - Developing in-house capacity may attract highly skilled evaluators to work directly for agencies
    - As the skills/experience of in-house staff improve, it may be more efficient to reallocate a larger proportion of the evaluations to an in-house team

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- A recommendation on how International development agencies use the results of an impact evaluation of a specific program's effectiveness, and in particular how to treat agency staff whose projects have been found to be ineffective
  - It is very likely that many programs will be found to ineffective in terms of their impact on education outcomes, because so much is unknown about what works
  - Thus it would be unreasonable to expect program implementers to have high rates of program effectiveness and until more is learned about what works, experimentation is needed in education programs

- A recommendation on how International development agencies use the results of an impact evaluation of a specific program's effectiveness, and in particular how to treat agency staff whose projects have been found to be ineffective
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  - But since experimentation is inherently risky so one should not penalize program staff who are willing to try new programs, many of which in the end may not work



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  - Ex: Effective interventions in India are likely to be effective in Bangladesh; effective interventions in Kenya are likely to be effective in Tanzania

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- Collection of data on program implementation (including qualitative) is useful for determining next steps

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- ➤ Yet given the current weak evidence base for "what works" to improve education outcomes in developing countries, more high-quality valuations are essential for using donor funds more effectively to increase learning, and thus economic and social progress, in developing countries
- While much has been learned in the past two decades, much more needs to be learned to ensure a bright future for today's, and tomorrow's, children

