Deterring Emigration with Foreign Aid: An Overview of Evidence from Low-Income Countries

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Abstract

In response to the recent migrant and refugee crisis, rich countries have redoubled policy efforts to deter future immigration from poor countries by addressing the “root causes” of migration. We review existing evidence on the effectiveness of such efforts. First, aid disbursements do not generally follow “root causes” rhetoric. The sectoral distribution of aid to migrant-origin countries does not significantly differ from its distribution in other countries. Second, the evidence suggests that aid’s capacity to deter migration is small at best. Aid can only encourage economic growth, employment, and security to a limited degree. Beyond this, successful development in almost all formerly-poor countries has produced an increase in emigration. Third, this evidence implies that donors could achieve greater impact by leveraging foreign aid not to deter migration but to shape it for mutual benefit.

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After irregular migration to Europe shot upward in 2015, development assistance agencies acquired a renewed mandate: to deter migration from poor countries. “To address the root causes of migration, we decided to double our direct bilateral development cooperation,” the Austrian government has said. “I want to use our aid budget,” says Britain’s Minister of International Development, for “creating jobs in poorer countries so as to reduce the pressure for mass migration to Europe.” The European Union has directed €3 billion toward “addressing the root causes of destabilization, forced displacement and irregular migration” in Africa.\(^1\) These efforts follow decades of recommendations by other policymakers to deter migration with aid, both in the United States (Asencio et al. 1990) and Europe (Khoudour-Castéras 2009). Such policies seem intuitive: if there are more jobs and less violence at home, people may feel less compelled to move. But policy has rarely rested on evidence that aid does, in fact, substantially deter migration.

This paper reviews existing evidence on whether foreign aid has history deterred emigration from poor countries, and draws lessons for policymakers and researchers regarding its potential to do so in future. It first introduces the types of projects involved in ‘root causes’ aid efforts, and discusses whether donor country aid disbursements have reflected public rhetoric on this topic. The paper then tests two requirements for the success of these policies: Aid must substantially change conditions in migrant origin countries, and those changing conditions must cause fewer people to migrate. The paper then assesses the few existing studies on the overall macro-level relationship between aid and migration, and concludes with four lessons for those who manage and study these aid efforts.

1 Targeting aid toward the ‘root causes’ of migration

The idea that foreign aid can reduce migration pressures in developing countries has been widespread in policy circles for the past few decades. One of the largest expected benefits from the North American Free Trade Agreement (NAFTA) was to be an accompanying decrease in

migration as economic conditions in Mexico improved. More recently, the U.S. State Department requested additional funds to deal with a surge of Central American child migrants, to “address the underlying factors driving migration or be prepared for what is likely to be an ongoing cyclical phenomenon—with significant impact and cost to the United States” (Jacobson 2015, 2).

Addressing the ‘root causes’ of migration has also been a main feature of development agencies across Europe since the 1990s. The new European Union Trust Fund for Africa is a cornerstone of the European response to the recent influx of asylum-seekers from Africa and the Middle East. Such programming often involves significant funding to facilitate return migration flows and build ‘migration management’ capacity in origin countries. This paper focuses solely development aid programming.

1.1 What ‘root causes’, and what types of interventions are used?

What exactly are these ‘root causes of migration’ and what sorts of aid programming are expected to mitigate them? The EU Trust Fund mentioned above focuses on four key policy areas: employment creation, specifically for women and youth; basic local-level service provision; migration management; and governance, especially as regards conflict prevention and including border management. Some specific programs—such as vocational training, food security, and rule of law capacity building—but many of the program documents rely on broader terms like ‘resilience building’ and ‘migration management’ as mentioned above.

It can be difficult to ascertain the types and mandates of specific projects that fall under these broad umbrellas. The EU Trust Fund Sahel and Lake Chad window has designed a “situation index” designed to characterize individual country contexts along five axes: food insecurity, conflict risk, irregular migrants, socioeconomic vulnerability, and displaced people (European Commission 2016). But it is unclear whether specific interventions are meant to be targeted along these lines or if its main role is building situational awareness. Other parts of the EU Trust Fund’s work, such as the North Africa window, focus almost exclusively on ‘migration management.’
The United States Agency for International Development’s Central American Regional Security Initiative (CARSI) has a similar mandate in Honduras, El Salvador, and Guatemala, to address the “key factors…contributing to the migration of unaccompanied, undocumented minors to the United States” (Meyer and Seelke 2015, 32). Economic development projects are focused on education, vocational training, and employment. Law and order programming is targeted to border security, anti-trafficking and anti-gang programs, and counternarcotics activities. As with the EU Trust Fund, more granular information is difficult to find. In general, publicly available information on these projects is relatively high-level; likely only funders and implementing partners are aware of specific on-the-ground programming.

1.2 Do disbursements reflect rhetoric?

It is largely unknown whether governments have incorporated these public statements into aid commitments, and whether disbursements reflect the amount committed. Put simply, countries must first receive foreign aid for it to have any effect. Do migrant-sending countries actually receive overall more aid than other countries, and/or is this aid composed of different specific elements reflecting root causes rhetoric? We cannot be sure ex ante that public commitments have translated into on-the-ground expenditures. The ‘policy gap’ between rhetoric and practice is especially severe for migration policy (Czaika and de Haas 2013). For example, the final version of the Central America assistance bill referenced above approved only about 50% of the budget request. The literature on whether aid expenditures reflect ‘root causes’ rhetoric is slim.

Disentangling the complicated rationale behind aid disbursements is not simple, and falls outside the scope of this paper. A large literature has assessed the motivations of foreign aid provision, typically juxtaposing donor self-interest with recipient development need. A small subset therein has highlighted two major mechanisms through which increased migration flows to a specific donor country could impact ensuing foreign aid spending decisions: first, the desire to limit future immigration by reducing migration drivers (the main focus of this paper) and second, successful lobbying by the local diaspora to support their home country.

In general, this limited literature supports the premise that important immigrant origin countries receive more foreign aid. Bermeo and Leblang (2015) find that for the median origin country in
their panel, each additional migrant that arrives in the OECD is associated with a US$242 increase in the origin’s foreign aid receipts. They find evidence in support of both mechanisms above. Vazquez and Sobralo (2016) take on the case of Spain, finding that a one percent increase in the immigrant population from a particular origin country is associated with an 18% increase in the probability of being a Spanish aid recipient, and a 0.05% increase in the amount of Spanish ODA (Overseas Development Assistance) received. Czaika and Mayer (2011) investigate the differential impacts of asylum-seeker and refugee flows on aid expenditures, hypothesizing that donor state response will vary depending on immigrant legal status. In line with migration deterrence priorities, external (cross-border) movements provoke larger aid responses than internal displacement. When aid is distributed to address refugee populations overseas, it is mainly directed to countries of origin rather than countries of first asylum. Finally, asylum-seekers—who physically arrive at the borders of Western donor countries—stir the greatest aid response yet. The authors identify Norway, Austria, and the United States as countries with a particularly “strong migration-sensitive aid allocation” (Czaika and Mayer 2011, 462).

All of the above analyses consider only aggregate aid disbursements, which have limitations in assessing aid focused on specific sectors. A central tenet of ‘root causes’ rhetoric is the importance of targeting aid to the development sectors most relevant to migration motivations. Therefore, research needs to move beyond overall aid numbers to understand the mechanisms behind this programming. A few papers find at least some support for the premise that aid ‘baskets’ in general—outside the ‘root causes’ context—do vary across aid recipient countries based on donor priorities and perceptions (Thiele et al. 2007, Nielsen 2010, Bermeo 2016).

But to our knowledge, no study has taken a similarly granular approach to assessing aid targeted at ameliorating the root causes of migration. As a preliminary approach to this question, we compile an index of ‘migration-relevant’ aid, drawing on specific program types detailed for both the EU Trust Fund and the 1990 report of the US Commission for the Study of International Migration and Cooperative Economic Development (notably entitled "Unauthorized Migration: An Economic Development Response"). These interventions include vocational training, small and medium enterprise support, agricultural development, environmental preservation, urban development, food aid, and disaster preparedness efforts. Figure 1 shows the average fraction of total development aid allocated to this ‘root causes’ programming across five different groups:
all aid recipients, top origin countries of asylum-seekers in Development Assistance Committee (DAC) donor countries in absolute terms, top origin countries of asylum-seekers in DAC donor countries relative to origin country population, top origin countries of the total migrant stock in DAC donor countries in absolute terms, and top origin countries of the total migrant stock in DAC donor countries relative to origin country population.\textsuperscript{2} The bars extending above and below each average show the 95% confidence interval on the estimated mean.

This simple and broad assessment offers no clear evidence that aid targeted at reducing the root causes of migration is distributed systematically differently across these different groups, especially compared to the global average. In other words, aid targeted for sectors viewed as ‘migration-relevant’ does not appear to flow in larger measure to countries viewed as ‘migration-relevant’. Further research might add nuance to this portrait, but even these broad comparisons offer reason to doubt the existence of a worldwide wave of ‘root causes’ aid to the countries where migration is of most concern to donors.

2 The effect of aid on conditions in migrant-origin countries

To deter migration, aid must not only target development outcomes that could shape migration in principle. Aid must also substantially affect those outcomes. These effects could include contributing to the long-run growth of the economy, creating youth employment, and reducing conflict. The literature assessing aid’s effects on these outcomes is extensive. We will not summarize it. Rather, we will ask: Does the aid effectiveness literature offer clear evidence that aid (if disbursed accordingly) can affect conditions in migrant-origin countries to a degree that is sufficient to deter migration? Here we focus on three plausibly desired outcomes mentioned above: overall economic growth, job creation for youth, and conflict resolution. We expect that other aid sectors would demonstrate similar trends.

First, simply assume that aid can increase economic growth. This allows us to ask how long it would likely take for aid to deter emigration by this channel. The exercise is shown in Figure 2.\textsuperscript{3}

\textsuperscript{2}Data on DAC Foreign Assistance were sourced from the OECDStat Creditor Reporting System, and migrant stocks and asylum-seeker inflows by nationality from the OECDStat International Migration Database.

\textsuperscript{3}GDP data from Penn World Tables, version 9.0.
As we will examine in the next section, various studies have found little systematic deterrent effect of economic growth on emigration until poor countries reach roughly PPP$8,000–10,000 in GDP per capita (Berthélemy et al. 2009; Clemens 2014; Dao et al. 2016; OECD 2017, 118). The figure shows that today’s poorest quintile of countries, if they continued to grow at their historical rate of growth (over the last 24 years), would only reach PPP$8,000 in the year 2198. If foreign aid could systematically raise their economic growth by one percentage point every year—more than a doubling of the historical rate—it would take until the year 2097. If aid could raise growth by two percentage points—a tripling—it would take until the year 2067.

And can foreign aid typically raise growth by these one or two percentage points, in a large group of the poorest countries over generations? This is far from well-established. The research literature has not settled on a consensus that past foreign aid has had any positive growth impact on average (Qian 2015). Many rigorous studies fail to detect any growth effect of aid. Ignore this controversy for a moment and consider the magnitude of the effect, even in the literature that does find a positive impact. For example Clemens et al. (2012) find that raising growth by 1 percentage point per year in the average recipient would require on the order of 10% of GDP in aid. That is much higher than any amounts of aid currently contemplated with the goal of deterring migration; for example, USAID’s Central American Regional Security Initiative dedicated 0.2% of GDP to economic growth programming explicitly intended to reduce violence driving migration in El Salvador in 2015 (Washington Office on Latin America 2017). And according to the exercise above, even that high level of growth would need to be sustained for three generations (until 2097) before it would even begin to deter emigration from the average poor country.4

The research literature similarly invites skepticism about the ability of foreign aid to cause large changes in youth employment. McKenzie (2017, 20) reviews existing research on poor-country governments’ active labor market policies—efforts to increase both the number and quality of jobs. He finds that this research “shows these policies to generally be far less effective than policy makers, program participants, and economists typically expect.” There is no indication that active labor market policies supported by aid are typically more effective than those that

4In those studies that do find a positive effect of aid on growth, larger effect sizes exist. For example, Galiani et al. (2017) find that raising growth by 1 percentage point would only require on the order of 3% of GDP in sustained aid. But their research design implies that this estimate of the effect size is externally valid only for countries surpassing the borrowing cutoff for the World Bank’s concessional lending window. In other words, it applies to countries that have already succeeded in growing to the middle-income level, and cannot be applied to countries that remain poor.
are not. The least-successful programs have focused on job-training and matching; the most successful programs have assisted firms in overcoming regulatory barriers to hiring and assisted workers in leaving geographic areas where employment is scarce for more promising domestic destinations. There are exceptional cases where intensive job-training through the best training centers has been found to substantially reduce youth unemployment (e.g. Alfonsi et al. 2017). But in no case has active labor market policy been shown capable of large reductions in youth unemployment at scale (Fox and Kaul 2017).

Moreover, the literature to date offers scant hope that foreign aid can be an important tool to mitigate civil conflict that sparks emigration. Zürcher (2017) reviews all 19 existing studies on this topic that deploy some strategy for causal identification—including single-country studies (in such varied contexts as Afghanistan and Colombia) and cross-country studies. He concludes, “The evidence for a violence-dampening effect of aid in conflict zones is not strong. Aid in conflict zones is more likely to exacerbate violence than to dampen violence. A violence-dampening effect of aid appears to be conditional on a relatively secure environment for aid projects to be implemented.” This is true of all six types of aid-funded interventions he investigates—including conditional cash transfers, humanitarian assistance, and employment promotion. More research is needed; it may be that aid protects relatively stable regions from slipping into conflict, even if it not frequently successful in mitigating ongoing conflict.

None of this implies that aid cannot affect conditions in poor countries that spur migration, in any measure. Evaluations of aid effectiveness are retrospective, their results conditional on how aid was given in the past. Chandy et al. (2017) identify several ways for aid in fragile states to be more effective, including shifting from bilateral funding and fragmented projects toward multilateral agreements and programmatic assistance. But the evidence to date does carry one clear implication. The underlying rationale of ‘root causes’ aid programming relies on claims that the magnitude of aid’s effect in specific sectors is sufficient to greatly reduce emigration. Such claims have not met this burden of proof. The evidence we have implies that aid would need to act in unprecedented ways, at much higher levels of funding, over generations, to greatly affect some of the most important plausible drivers of emigration. That implies a case for experimentation and patience, but not confidence in a surge of aid to end a crisis.
3 The effect of development on migration

Even if we knew that aid greatly affected outcomes that theoretically drive increased emigration, we would still need evidence that those outcomes do in fact drive migration behavior. A helpful starting point is to understand two critical ways that many people in poor countries use migration to improve their economic lives: investment and insurance (Banerjee and Duflo 2011, 142, 231).

3.1 Sustained economic development tends to encourage emigration

First, poor families use migration as an investment. Among other things, migration is an exchange of substantial up-front costs for a stream of future benefits (Schultz 1972, 4; Burda 1995; de Haas 2010). The costs include not just the direct costs of moving but foregone earnings at home and missed interactions with family. The benefits typically include large but delayed increases in income both for migrants (Clemens et al. 2016) and their families (Gibson and McKenzie 2014; Mergo 2016).

This immediately suggests that the effect of development on migration can be complex, for the same reasons that development has complex effects on other kinds of investment. For example, greater economic opportunity for people without a college degree might reduce the need for workers to invest in college education, but also increases their means to invest in college education. For similar reasons, greater economic opportunity at home might reduce the incentive for workers to invest in migrating abroad for work, but also increases their ability to make that investment. Which of these forces dominates is an empirical question.

It is now clear that emigration rates in middle-income countries are typically much higher than in poor countries (de Haas 2007; Clemens 2014; Dao et al. 2016; OECD 2017, 118). Economic development has also been positively associated with major asylum-seeker outflows over the medium and long term (Rotte et al. 1997; Vogler and Rotte 2000). Additional disposable income causes many poor families to invest it in more migration (e.g. Angelucci 2015; Bazzi 2017).

This suggests that in poor countries, development does more to encourage migration than to
deter it. Figure 3a shows this relationship for the year 2013.\footnote{GDP data from Penn World Tables, version 9.0; migration data from the United Nations Global Migration Database.} Countries with GDP per capita of US$5,000–10,000 at purchasing power parity have, on average, roughly triple the emigrant stock of countries below US$2,000. Here, ‘emigrant stock’ refers to the number of people born in a country but living outside it, divided by the population of the origin country. Only in countries above US$10,000 is there a clear negative relationship between real GDP per capita and emigrant stocks. This tendency for emigration to first rise and then fall with rising GDP per capita was first termed the ‘mobility transition’ (Zelinsky 1971).

This pattern is counterintuitive for many who first encounter the evidence. The most basic economic theories of migration imply that greater economic opportunity at home will reduce the incentive and thus the tendency to emigrate, all else equal (Sjaastad 1962). But all else is not equal. As development proceeds, human capital accumulates, connections to international networks increase, fertility shifts, aspirations rise, and credit constraints are eased. All of these changes tend to raise emigration. The most important of these factors appear to be rising education levels and international connections, which both inspire and facilitate emigration (Dao et al. 2016). Economic development is also often accompanied by falling child mortality rates while fertility rates are still high, leading to a surge in the number of young workers who have a high tendency to migrate. Greater disposable income means greater ability to pay the direct costs of migration, but also greater ability to invest in things that both inspire and facilitate migration—such as Internet access, language skills, overseas business connections, and overseas tourism.

Does the positive relationship between development and migration in poor countries accurately describe the effect of development on migration? One possible concern about the evidence in Figure 3a is that it shows a cross-sectional relationship at a single moment in time. In principle, this correlation could conceal parts of the causal relationship. It could conceal long-term effects of economic growth on migration by only showing a short-term relationship. It could also conceal unobserved traits of today’s low-income countries that might cause them to follow a different path than today’s middle-income countries did.

But the data do not support either of these possibilities. Figure 3b shows the relationship between the change in real GDP per capita between 1960 and 2013 and the change in emigrant stock over
the same period. It shows all countries on earth with comparable data from both years. Each arrow represents the path of one country, from 1960 to 2013. The swath of arrows pointing up and to the right, around the middle of the figure, shows that emigration rose in almost all countries that grew into middle-income in this period. In the 71 countries that grew to middle-income or higher between 1960 and 2013, 67 had a concurrent rise in the emigrant share. For poor countries that remained poor, there was no clear rise.

In other words, the path followed by individual countries over time has resembled the cross-sectional relationship. As poor countries have become rich, almost all have experienced large migration outflows. Rising real incomes at home have gone hand in hand with higher levels of emigration.

A second possible concern about this evidence is that even if emigration rises with future economic development, emigration might fall with future improvements in non-economic development indicators. For example, better health conditions in poor countries or greater opportunities to internally migrate to urban areas could in principle substitute for international migration. But the evidence reveals no such patterns. Figure 4a shows the cross-country relationship between emigration and child survival—the probability that any given newborn lives to age five. People have a sharply greater tendency to emigrate from countries where children are less likely to die. This is likely because child mortality rates typically fall well before fertility rates fall. So typical countries must proceed quite far through the demographic transition before migration pressure from young workers abates (Figure 4b). And there is no statistically significant difference between emigration rates in high-urbanization countries versus low-urbanization countries (Figure 4c). In short, there is little sign that emigration is lower in poor countries with generally better public health or generally greater access to urban living, and little reason to believe that changes in such indicators will broadly and systematically deter emigration.

This evidence strongly suggests that in poor countries, development facilitates investment in emigration much more than it deters investment in emigration. But investment is only one way

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6 There are 109 countries with reliable data on both emigrant stock and Purchasing Power Parity adjusted GDP per capita, in both 1960 and 2013, and 71 of these were above PPP$5,000 in GDP per capita in the year 2013.

7 All development indicator data from the World Bank World Development Indicators; migration data from the United Nations Global Migration Database.
in which poor families use migration.

### 3.2 Greater short-term income diversification tends to discourage emigration

Poor families also use migration as a form of insurance. It helps them to diversify income across members of the household, making the family less vulnerable to shocks like job loss or sudden sickness. Migration also helps diversify income over time, reducing the risk of dire lean periods for the whole household (Chen et al. 2003; Giesbert 2007; Shonchoy 2011; Marchetta 2013; Bignebat and Sakho-Jimbira 2013; Bryan et al. 2014).

This too suggests that the effect of greater economic development on migration decisions can be complex. More stable and predictable economies can reduce the need to insure against negative shocks, but as aspirations rise, so can the need for insurance. For example, a family of subsistence agriculturists may perceive less harm from pulling a child out of sixth grade to work due to a parent’s job loss than would a middle-class family forced to withdraw their most capable child from 12th grade for the same reason. Beyond this, as above, greater prosperity can also raise poor families’ ability to access the insurance benefits of migration. The net effect of greater prosperity on migration by this channel, too, is ambiguous in principle.

The youth employment rate is a sound, general guide to the probability that any given young person can supplement household income through wage work. And the data show us an unmistakable negative relationship between emigration rates and youth employment. In countries where youth employment exceeds 90%, the emigration rate is half as large as in countries where youth employment is just 70% (Figure 5a). This trend is evident not just among poor countries but across all countries. When youth employment is very low (40–70%), countries with marginally higher youth employment do not exhibit lower emigration rates. In countries where youth employment stagnates below 70%, marginal increases in job opportunities may both stimulate demand for the insurance of international migration and reduce that demand, to offsetting degrees. At higher rates of youth employment the migration-deterring effect appears, on average, to win out.

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8Here the ‘youth employment’ rate is one minus the unemployment rate among labor force participants age 15–24. It is not the number of working youths per person in this age group, because it omits from the denominator any youths who are not in the labor force (such as students).
But it would be inadequate to infer that successful assistance for youth job creation will clearly deter emigration. This is because the greatest engine of youth job creation is economic growth, which in poor countries tends to raise emigration. Figure 5b shows the same relationship in Figure 5a separately for countries in the two lowest quartiles of GDP per capita. For both the poorest quartile (below PPP$3,954) and the second quartile (between PPP$3,954 and $11,717), there is a clear negative relationship between youth employment and emigration. But at any given level of youth employment, emigration is much higher for relatively richer countries. The graph shows that countries in the richer quartile with 90% youth employment (e.g. Paraguay) have similar emigration rates to countries in the poorer quartile with 60% youth employment (e.g. Mozambique).

In other words, the evidence suggests that emigration is lower at higher levels of youth employment for any given level of overall economic development. Assisting families to diversify their incomes with domestic wage work may substantially reduce migration rates in poor countries that remain poor. But it may not do so in robustly growing and diversifying economies. This has important implications for policymakers, to be discussed in the final section.

4 The overall effect of aid on emigration

The evidence so far urges caution in interpreting any retrospective empirical estimate of the effect of aid on migration. The mechanism by which aid could systematically deter migration is left unclear. We do not have strong evidence that aid has typically been targeted to the sectors or places that most obviously would affect emigration. The ability of aid to cause large, short-term changes in national income, employment, or security is not independently demonstrated. And overall development—better incomes, health, and education—is in fact strongly associated with rising emigration. All of these suggest that, as we review the small literature directly testing the overall effect of aid on migration, we should not have a strong prior that it will detect substantial deterrence of migration by aid.

The first systematic quantitative assessment of the global average effect of aid on emigration is the gravity model in Berthélemy et al. (2009). They find that aid raises net emigration from
the average poor country to high-income OECD countries: When aid rises by 10% of GDP this raises the average emigrant stock as a share of population by 1.5 percentage points. They also find that aid shifts the composition of emigration toward low-skill migrants, and that the share of bilateral aid raises emigration about twice as much as aggregate aid.

One complication in interpreting these results, a complication common to many cross-country findings, is the possibility of overcontrolling—that is, holding portions of the relevant causal pathway constant. The regressions used by Berthélemy et al. (2009) control for the aid recipient’s GDP per capita, population, and trade with the migrant destination country. This is a sensible empirical choice because all of these factors can affect migration independently of aid. But it has the drawback that all of these factors can likewise form part of the causal pathway from aid to migration. Thus the coefficient estimates on aid itself show the relationship between aid and migration other than any effects that aid might have via any effects on economic growth, population growth, or trade. In principle, aid could affect these other factors in ways that reduce migration, or increase it even more.

The broad finding of Berthélemy et al. has been challenged by a small, recent literature. Lanati and Thiele (2017), also in a gravity model, find no effect of bilateral aid on migration, and a negative effect of aggregate aid on migration.9 The principal innovation is the use of panel data, allowing fixed effects by origin (and destination). These results are difficult to compare with those of Berthélemy et al., because Lanati and Thiele use a different migration variable (gross migration flows annually 1995–2014 rather than net migration stocks in 2000), a different treatment variable (net aid flows rather than gross aid), a different set of countries (28 rather than 22 destination countries), and greatly different regression specifications. One example of how this complicates any comparison: Aid could decrease outmigration but also decrease return migration, such that a negative effect on gross migration is not incompatible with a positive effect on net migration. Given that Lanati and Thiele (2017) theorize any positive effect of aid on gross emigration as the alleviation of credit constraints—a channel that would not affect return migration—it is difficult to understand why the two sets of results would differ so much unless aid does affect return migration.

9In the regressions of Lanati and Thiele (2017) the coefficient on bilateral aid is similar in absolute value but opposite in sign to the coefficient on aggregate aid. Because an increase in bilateral aid also raises aggregate aid, this implies that the estimated effect of bilateral aid is indistinguishable from zero.
A further complication is that the use of origin-country fixed effects in Lanati and Thiele changes the results in ways that are the opposite of what we would expect if the unexpected finding of Berthélemy et al. arises from misspecification. In principle, it could be that the cross-sectional estimates of Berthélemy et al. find a positive effect of aggregate aid on migration due to an omitted, time-invariant trait of the migrant origin country that causes it to receive more aid and have more emigration. If this were correct, using migrant origin country fixed effects should remove that bias and cause a negative shift in the coefficient on aid. The opposite occurs: Using migrant origin country fixed effects causes a large positive shift in the aggregate aid coefficient (Lanati and Thiele 2017, Table 1, col. 2–3). This implies that any omitted origin-country fixed effects were biasing the results against the finding of Berthélemy et al. Removing any such bias in the framework of Berthélemy et al. would thus only strengthen their results. And here again, as in Berthélemy et al., possible overcontrolling complicates interpretation of the estimates.

Related challenges are faced by the two other cross-country studies of which we are aware, both of which find limited deterrence of migration by aid. Gamso and Yuldashev (2017) find, in a 25-year panel with country fixed-effects, that aid supporting ‘governance’ (such as ‘legal and judicial development’ and ‘public sector policy and administrative management’) reduces emigration, but no other type of aid does so. This is only about a tenth of all aid (Gamso and Yuldashev 2017, Table 5). In particular, they find that aid intended to stimulate economic activity does not affect migration. This result is difficult to compare with the other results above because Gamso and Yuldashev do not test the effects of aggregate aid. Murat (2017) similarly finds no effect of bilateral aid on overall migration, though a negative effect of bilateral aid on bilateral refugee flows in particular. All of the specifications in both of these analyses similarly suffer from possible overcontrolling as described above, making all coefficient estimates difficult to interpret.

In sum, the few cross-country studies testing the overall relationship between aid and migration fail to offer clear evidence that aid has substantially deterred migration on average. The only study to date published in a peer-reviewed journal finds that aid typically raises emigration. Very recent work has either found no effect on overall migration from the large share of aid that is bilateral (Lanati and Thiele 2017; Murat 2017), or no effect from the vast majority of both bilateral and multilateral aid that is not directed toward governance quality (Gamso and Yuldashev
All of the studies face important challenges in interpreting the coefficient estimates on aid as the policy impact of an increase in aid, all else equal, since all control for several country characteristics that could be changed by an increase in aid. This literature does suggest several interesting questions: For example, if the effect of multilateral aid really is different from bilateral aid, is this because multilateral aid is more effective or because bilateral aid builds bilateral ties that foster migration?

But the literature as it stands does not offer strong evidence that aid has systematically deterred migration, and rather implies that aid may have encouraged migration. As we emphasized at the beginning of this section, the literature testing for overall effects has a substantial burden of proof to bear because the evidence for each step in the underlying causal mechanism is itself weak. This literature does not yet offer lessons that would be programmatically useful for aid planners interested in deterring migration. A promising way forward is to seek large exogenous changes or discontinuities in aid exposure—such as across time, networks, cohorts, or areas—to look for well-identified effects on migration.

5 Four lessons

Today the evidence that aid can greatly and sustainably deter emigration from poor countries is weak at best. Aid tends to follow geopolitical concerns (Kuziemko and Werker 2006; Faye and Niehaus 2012) and there is minimal evidence that it has systematically targeted the geographic areas or sectors considered most influential for migration flows. Aid flows may have a positive effect on economic growth—though this remains controversial—but more importantly, economic growth has historically raised emigration in almost all developing countries. Large increases in youth employment may well deter emigration in the short term, in countries that remain poor, but the best evaluation evidence finds most donor projects have had little success creating youth employment at large scale.

Aid practitioners’ most common questions of such research are operational: Where, when, and what kind of aid should they give to best serve their obvious implicit mandate to deter migration? But the scant empirical research literature does not allow general operational lessons of this kind.
We draw four lessons for aid policymakers and researchers with an interest in affecting migration flows from poor countries.

First, the evidence suggests that aid-supported programs to increase employment of young workers, in both rural and urban areas, can modestly reduce the potential for surges of emigration in the short term. We qualify this assessment with ‘modestly’ because most such efforts have failed to achieve large changes in youth employment at scale. We qualify it with ‘rural and urban’ because there is no clear evidence that poor countries with more urban or more rural populations have different emigration rates. And we qualify it with ‘short term’ because the principal generator of youth employment—economic growth—tends to raise emigration in the medium and long term. Among countries that remain poor but manage to get more youths into jobs, migration rates are likely to fall somewhat. But in countries that get more youths into jobs sustainably, by developing a dynamic and growing economy, the typical net effect is likely to be an increase in migration.

This implies a reasonable aspiration for aid seeking to deter migration: to help at the margin to get youths into predictable jobs, shielding their families from shocks and mitigating sudden surges of migration—during the decades that emigration steadily rises along with development. Although some aid projects have sought to go further, especially by mitigating migration pressures arising from conflict, the literature offers little evidence that aid to mitigate existing civil conflict has typically done so.

Second, greater transparency and reporting is necessary to understand this phenomenon. The public documentation available on aid programming is too high-level to help researchers and other policymakers understand how these projects actually play out on the ground. A good first step would be to follow the precedent set by OECD Creditor Monitoring System reporting of aid projects targeting environmental and gender inequality. Tracking these aid efforts is necessary to inform both impact evaluation and any future programming.

Third, policy and research should focus on diverse experimentation in local context, continuously modified by feedback from rigorous evaluation. This approach has been called Problem-Driven Iterative Adaption (Andrews et al. 2013). While more could be learned from refinements
of cross-country regressions, that research program is unlikely to result in reliable guides to
donors seeking to deter migration in a given setting. Carefully evaluating the impact of new aid
efforts on international migration requires counterfactuals—places, cohorts, networks, or time
periods with less or no exposure to the aid intervention, but otherwise similar, for comparison.
And it requires tracking affected families to determine if they have gone abroad. Particularly
important is testing a diverse range of new policies to raise youth employment, given the very
poor track record of most past efforts. Research facilities created under the European Union Trust
Fund for Africa offer an excellent opportunity for new research of this kind—combining diverse
experimentation with counterfactuals and migrant tracking—an opportunity that remains to be
seized.

Fourth, aid seeking to shape migration must look far beyond efforts to deter migration. Demo-
graphic realities imply that large-scale migration will occur in some form. Most notably, these
realities include estimates of the net increase of 800 million workers in sub-Saharan Africa by
the year 2050, at a time when populations in many migrant-destination countries are aging and
stagnating (Hanson and McIntosh 2016). The true demographic surge to come may be even
larger (Bertoli 2017). The evidence reviewed here does not offer strong reasons to believe that a
large portion of those future flows can be deterred with aid policy, and the literature suggests a
limited role for deterring them with interdiction (e.g. Gathmann 2008; Czaika and Haas 2017).

Instead, aid agencies seeking to shape future migration flows can focus on cooperation with
migrant-origin countries that alters how migration occurs, maximizing its potential benefits for
everyone involved. Aid agencies can work with migrant-origin countries to develop safe, law-
ful, and mutually beneficial channels for lower-skill labor mobility (Gibson and McKenzie 2014;
Clemens and Postel 2017). Foreign assistance is often required for up-front costs like providing
identity documents to potential migrants, developing systems to monitor and enforce labor re-
cruitment laws, and agencies to monitor returns and prevent overstays. Such activities do not
substitute for more traditional aid, but complement it. For example, the local economic stimulus
of remittances would tend to raise demand for the produce of any aid-supported farms or small
businesses (Minasyan and Nunnenkamp 2016).

Aid agencies can also shape higher-skill migration for mutual benefit, such as facilitating finance
and technology transfers to equitably share the training costs of skilled migrants, and strengthening origin-country training institutions to give migrants precisely the skills they need for rapid employment and integration at the destination (Clemens 2015; Clemens et al. 2015). This field is wide open for innovation. For example, none of the projects currently supported by the EU Trust Fund for Africa have the goal of creating mutually beneficial labor mobility channels between Africa and the rest of the world. Current aid efforts around the world have devoted essentially none of their portfolio to supporting innovative ways to shape rather than deter migration. The first step in seizing this historic opportunity would be a substantial shift in aid agencies’ new mandate—away from an exclusive focus on deterring migration and toward shaping migration for mutual benefit.
References


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**Figure 1**: Fraction of Overseas Development Assistance allocated to ‘root causes’ programming in major migrant origin countries, 2015

Vertical axis shows fraction of aid in 2015 targeted to migration-relevant sectors including vocational training, small and medium enterprise support, agricultural development, environmental preservation, urban development, food aid, and disaster preparedness. Unit of analysis is recipient country. The first column shows the average fraction for all aid recipients, with a 95% confidence interval on the estimated mean fraction. The second column shows the same fraction for the ten countries that were the origins of the largest absolute numbers of asylum-seeker flows to DAC donor countries in 2015. The third column shows the ten aid recipient countries that were the origins of the largest asylum seeker flows to DAC donor countries relative to the origin-country population in 2015. The fourth column shows the ten countries with the largest emigrant stocks residing in DAC donor countries in absolute numbers—where emigrant is defined as any person born in that country who lives in a DAC donor country. The fifth column shows the ten countries with the largest emigrant stocks in DAC donor countries as a fraction of the origin-country population.
Figure 2: Years for the poorest quintile of countries to reach PPP$8,000/capita

Data for the 35 countries in the lowest quintile of GDP per capita (2005 PPP US$) in 2013, among which the average GDP per capita is PPP$1,757. Historical growth is average annual real GDP per capita growth 1990–2013 in this group (0.82%). The countries are: Bangladesh, Benin, Burkina Faso, Burundi, Cambodia, Cameroon, Central African Republic, Chad, Comoros, D.R. Congo, Djibouti, Ethiopia, Gambia, Guinea, Guinea-Bissau, Haiti, Kenya, Lesotho, Liberia, Madagascar, Malawi, Mali, Mauritania, Mozambique, Nepal, Niger, Rwanda, São Tome & Príncipe, Senegal, Sierra Leone, Tajikistan, Tanzania, Togo, Uganda, and Zimbabwe.
Figure 3: In poor countries, emigrant stocks rise with real incomes

(a) Level of emigrant stock vs. level of real income, 2013

(b) Change in emigrant stock vs. change in real income, from 1960 to 2013

Part (a) shows the cross-country relationship in 2013 for all countries on earth with available data (excluding Macau), and dashed lines show 95% confidence interval in local linear regression with Epanechnikov kernel, bandwidth 1 log point. Part (b) shows all countries on earth with comparable data available for both 1960 and 2013, and beginning of arrow shows 1960 datapoint and arrowhead shows 2013 datapoint for each country.
Figure 4: Emigration versus health, aging, and urbanization

(a) Child survival  
(b) Adult share of population  
(c) Urbanization

Cross-country relationships for a single year (2013), using all countries on earth with available data. Horizontal axis for child survival, whose distribution across countries exhibits high skewness, shown under zero-skewness hyperbolic transformation (Tsai et al. 2017): $-\ln(-x + 1.000795)$. Dashed lines show 95% confidence interval in local linear regression with Epanechnikov kernel, bandwidth (a) 1 log point, (b) 0.15, (c) 0.15, (d) 0.2 log points.
Figure 5: Emigrant stocks fall with youth employment

(a) All countries

Part (a) shows the cross-country relationship in 2013 for all countries on earth with available data (excluding Macau), and dashed lines show 95% confidence interval in local linear regression with Epanechnikov kernel, bandwidth 0.2 log points. Horizontal axis for youth employment, whose distribution across countries exhibits high skewness, shown under zero-skewness hyperbolic transformation (Tsai et al. 2017): $-\ln(-x + 1.049538)$. Part (b) shows cross-country relationship separately for countries in lowest quartile of income per capita (<PPP$3,954) and second quartile (>$PPP$3,954 and <PPP$11,717). Local linear regression with Epanechnikov kernel, bandwidth 0.3 log points.