Get rich or die tryin’: Perceived earnings, perceived mortality rate and the value of a statistical life of potential work-migrants from Nepal

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Abstract

Do potential migrants have accurate information about the risks and returns of migrating abroad? And, given the information they have, what is their revealed willingness to trade risks for higher earnings? To answer these questions, this paper sets up and analyzes a randomized field experiment among 3,319 potential work migrants from Nepal to Malaysia and the Persian Gulf countries. The experiment provides them with information on wages and mortality incidences in their choice destination and tracks their migration decision three months later. I find that potential migrants severely overestimate their mortality rate abroad, and that information on mortality incidences lowers this expectation. Potential migrants without prior foreign migration experience also overestimate their earnings potential abroad, and information on earnings lowers this expectation. Using exogenous variation in expectations for the inexperienced potential migrants generated by the experiment, I estimate migration elasticities of 0.7 in expected earnings and 0.5 in expected mortality. The experiment allows me to calculate the trade-off the inexperienced potential migrants make between earnings and mortality risk, and hence their value of a statistical life (VSL). The estimates range from $0.28 million to $0.54 million ($0.97m - $1.85m in PPP), which is a reasonable range for a poor population. At this revealed willingness to trade earnings for mortality risk, misinformation lowers migration.

JEL codes: F22, J61, J17, D84, O12

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1 Introduction

The number of workers moving across international borders for work is increasing. By 2013, international migrants accounted for over 12 percent of the total population in the global North, over six times the share in 1990 (UNDESA, 2015). The 2011 Gallup poll estimates that more than 1 billion people want to migrate abroad for temporary work (Esipova, Ray, and Publiese, 2011). Anecdotes and media reports abound on the risks these migrants are undertaking in search of a better life for themselves or their families. For example, more than 3,770 migrants died in the Mediterranean Sea in 2015 on their way to Europe (International Organization for Migration, 2015). In 2014, about 445 people died while trying to cross the US-Mexico border (Carroll, 2015). A high death toll is not the plight only of those who try to migrate illegally or who are forced to move. The Guardian reports that almost 1,000 workers, all of whom were legal migrants from Nepal, India and Bangladesh, died in Qatar in 2012 and 2013 (Gibson, 2014).

The intense desire to migrate despite the risks has led policymakers to be concerned that potential migrants may have unrealistic expectations about migration. In countries like Nepal, where more than 7 percent of adult, working-age males leave the country for work abroad in a given year, there is great concern that they make the decision recklessly. Put together, these notions suggest that the observed rate of migration is higher than is optimal and that accurate information would lower the level.

Academic studies, on the other hand, find migration to be profitable and hugely beneficial for the marginal migrant and his or her family (see Bryan, Chowdhury, and Mobarak, 2014; McKenzie, Stillman, and Gibson, 2010, for a few examples). These studies suggest that the level of migration is suboptimal and that increased migration would be welfare improving. If anything, potential migrants’ beliefs about earnings and risks are pessimistic, which suppresses migration (as briefly suggested in Bryan, Chowdhury, and Mobarak, 2014). Alternatively, many academic studies assume that individuals are fully informed and have rational expectations about the conditions at their destinations, and attribute low levels of migration to high costs, monetary and otherwise (see Kennan and Walker, 2011; Morten and Oliveira, 2014; Morten, 2013; Shenoy, 2015, for example).

1 An extreme example of the opinion of many policymakers is the following quote from an expert on Nepali migration: “They go without asking questions. They are not ready to listen. They just want to go. They never even bother to ask how much they will earn.” (Pattisson, 2013a). Though this statement may be an exaggeration, the view that potential migrants lack information or are misinformed is widely held.

2 Migrants working at high-risk jobs for low wages has been dubbed a form of modern-day slavery. Several newspaper articles and commissioned research reports express this view (see Deen, 2013; The Asia Foundation, 2013, and other news articles quoted elsewhere in the paper).
This literature argues that the costs, most of which are fixed, keep migration sub-optimally low and give rise to a large spatial disparity in earnings.

In this paper, I investigate whether misinformation causes suboptimal levels of migration in the context of the migration of Nepali workers to Malaysia and the Persian Gulf countries. Given the concerns on the part of policymakers, I focus on how potential migrants’ beliefs on earnings and the mortality rate abroad, and the tradeoff between these two factors – the value of a statistical life (VSL) – affect migration.

Using data collected for this study, I find that potential migrants are indeed misinformed about potential earnings and mortality risk, but not always in a way that policymakers expect. Consistent with widely held notions described above, inexperienced potential migrants, meaning those who have never before migrated abroad for work, overestimate their earning potential. Compared to experienced migrants – those who are better informed as they have migrated abroad for work before – they expect to earn 26 percent more. I argue that this estimate is a lower bound on the extent of misinformation as the pool of experienced migrants in my sample is likely to be selected from the higher end of the actual earnings distribution. This suggests that, even in a context where 15 percent of the households have a current migrant in one of these destinations, potential migrants can still be misinformed about their earning potential abroad. However, contrary to popular belief, potential migrants also overestimate their mortality risk abroad. The median inexperienced potential migrant expects the mortality rate to be 7 times the actual mortality rate they face, and the median experienced potential migrant expects the mortality rate to be 4 times the actual average rate. Misinformation at the mean is even larger at 13 and 21 times the actual rate for the experienced and inexperienced potential migrants, respectively.

This two-sided misinformation implies that migration decisions are being made inefficiently, and that potential migrants would make different choices with accurate information. Whether these inefficiencies cause the aggregate migration level to be too high or too low depends upon two things: the elasticity of migration with respect to expected earnings abroad and the elasticity of migration with respect to expected mortality rate abroad. These two elasticities will also pin down the VSL, which will elucidate whether potential work migrants are making reasonable trade-off with the information that they have.

To estimate these elasticities and the VSL, I conducted a randomized controlled trial that provides information and observes changes in expectations and subsequent migration decisions. Among 3,319 potential migrants who came to Kathmandu to apply for a passport in January 2015, I randomly provided information on earnings and/or mortality incidences of Nepali workers in their destination of choice. The earnings information treatments provided information on the average contractual wages reported to the official authority of Nepal by two cohorts of migrants. The mortality incidence information treatments consisted of death tolls of Nepali migrants from some pre-determined districts in Nepal. To avoid deception, I gave individuals information from different districts with high and low numbers of deaths. Death information was cross-randomized with wage information.
The informational interventions changed the earnings and mortality rate expectations of potential migrants, particularly of those who were likely to be misinformed. To measure the effect of information on their expectations, I elicited their beliefs on earnings upon migration and on the mortality risk to be faced while abroad. The information treatment on deaths, particularly the ‘low’ death information, lowered their expected mortality rate by 20 percent relative to the expectation of those who did not receive any information (control group). The effect was larger for inexperienced potential migrants, at 30 percent relative to the expectation of the control group. Information on earnings also lowered earnings expectations for the inexperienced potential migrants: compared to the control group, those who received earnings information expected to earn 8 percent less. However, for the experienced, providing wage information had no effect. This is not surprising, as the experienced migrants had better information about their earning potential abroad.

Moreover, these changes in expectations led to changes in migration decisions. Three months after the interventions, inexperienced potential migrants provided with ‘low’ death information were 7 percentage points more likely to have migrated, and those provided with wage information were 6 percentage points less likely to have migrated. The effects are about 30 percent of the migration rates observed in the group that did not receive any information. This finding has the clear policy implication that a simple and well-targeted informational intervention can change perceptions as well as the actual migration decisions of potential migrants.

Using the experimental setup, I estimate a binary choice model of the migration decisions of inexperienced potential migrants with randomized information assignments as instruments for mortality risks and earnings from migration. Under the assumption that the information treatments did not change unobserved amenities associated with migration (which I discuss in the main text), the estimated coefficients imply an earnings elasticity of migration of 0.7 and an elasticity of migration with respect to expected mortality rate of 0.5. The (negative) ratio of coefficients on mortality rate and earnings gives the implicit value of a statistical life (VSL) as revealed by their decision to migrate. These coefficients imply a VSL of $0.28 million to $0.54 million ($0.97m - $1.85m in PPP). These estimates are lower compared to the estimates for the US (Viscusi and Aldy, 2003), but these differences can be accounted for by differences in earnings. In both cases, the estimates of VSL are 100 to 300 times the median household income. This suggests that, given the level of information that potential migrants have, the tradeoff they are willing to make does not appear to be unreasonably low. Furthermore, this level of VSL and the estimated earnings and mortality elasticities of migration suggest that misinformation along these two dimensions has indeed lowered migration overall. This result is driven by the fact that misinformation on mortality rate dwarfs misinformation on earnings, whereas the migration response to changes in these expectations are roughly the same.

These findings raise the question of how such a large level of misinformation on mortality rate can persist despite high migration flows. To investigate this, I infer the change in the perceived

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3 Since the information treatments did not change earnings expectations of experienced potential migrants, this strategy would not work for this group.

4 In per-capita terms, the estimate for Nepal would be higher given the larger household sizes.
mortality rate for potential migrants following an actual death of a migrant. I take the migration response to an actual migrant death from my other work (Shrestha, 2016a), and use the estimated earnings elasticity and the VSL to translate the migration response into an induced change in beliefs on mortality rate. This exercise suggests that potential migrants update their beliefs on mortality rate by a considerable amount following death events. Additionally, the response is greater when there have been more migrant deaths in the recent past. As explored in Shrestha (2016a), these patterns are inconsistent with models of rational learning. Models of learnings fallacy, such as the law of ‘small’ numbers, combined with some heuristic decision rules may explain the observed high levels of overestimation as well as the sensitivity to recent information about migrant deaths (see Rabin, 2002; Tversky and Kahneman, 1971, 1973; Kahneman and Tversky, 1974, for related literature). Therefore, a fallacious belief-formation process, which leads to high overestimation of mortality rate abroad among potential migrants, has kept migration levels lower than optimal in this context.

Apart from providing an important insight into how beliefs can affect migration, this paper makes a methodological contribution to the literature estimating the VSL from revealed preferences. Thus far, much of the empirical literature has taken the route of estimating the wage hedonic regression (see Thaler and Rosen (1976) for a theoretical foundation, and Viscusi and Aldy, 2003 and Cropper, Hammitt, and Robinson, 2011 for reviews). One key issue with this literature is that in many settings, mortality risks are correlated with unobserved determinants of wages confounding identification (see Ashenfelter, 2006; Ashenfelter and Greenstone, 2004a, for critiques). In this study, the use of randomized treatments as instruments effectively solves the omitted variables and endogeneity problem. Further, by directly measuring individual perceptions on earnings and mortality risk, I overcome the bias resulting from measurement error of the risks or the issue of decision-makers being unaware of the true risks (see Black and Kniesner, 2003, for effects of biases from measurement errors). To the best of my knowledge, this is the first study to estimate the VSL using exogenous variations in perceived risks and rewards generated from a randomized experiment.

This paper also contributes to the relatively scant literature seeking to quantify the extent of misinformation on earnings in context of international migration. McKenzie, Gibson, and Stillman (2013) and Seshan and Zubrickas (2015) find that those who do not migrate, including family members, have different expectations about earnings abroad. However, contrary to the current study, these studies find that potential migrants and their family members underestimate the potential earnings from migration. In a context similar to these studies, Beam (2015) finds that

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5 Though I elicit subjective perceptions on earnings and wages, it is different from the strand of literature that estimates VSL by eliciting subjective willingness to pay directly. See Cropper, Hammitt, and Robinson (2011) for a review of this literature.

6 This paper is closest in approach to Greenstone, Ryan, and Yankovich (2014) and León and Miguel (2013) who use a discrete-choice framework to study re-enlistment decisions of US soldiers and transportation choices of travelers to the Sierra Leone airport, respectively. While the institutional settings in their respective contexts drive identification in these studies, the identification of this study comes from the randomized assignment of information treatments. See Section 6 for a detailed discussion.
attending a job fair increases expectations of earnings abroad, but does not induce them to take any actions towards migrating abroad. This study also adds to the literature on the effectiveness of providing information on improving outcomes for migrants. Shrestha and Yang (2015) find that informing Filipino maids working in Singapore about the legal processes for changing jobs improves their working conditions and, for those with worse job characteristics, facilitates job transition. On the other hand, Bryan, Chowdhury, and Mobarak (2014) find that providing job related information in the context of seasonal migration within Bangladesh has absolutely no effect on migration or other outcomes. To the best of my knowledge, there are no other rigorous studies that quantify the extent of misinformation on risks associated with migration.

This paper builds on and adapts the literature on eliciting probabilistic expectations in developing countries to the current context. Many studies in developing countries have used some variant of the elicitation methodology developed in Manski (2004) and Dominitz and Manski (1997) and have adapted it to diverse contexts (see Attanasio, 2009; Delavande, Giné, and McKenzie, 2011, for recent reviews). Specifically, this study adapts the approach used in Attanasio and Kaufmann (2009) to elicit the range of subject beliefs, and the approaches used in Dizon-Ross (2014) and Delavande and Kohler (2009) to elicit a coarse measure of the entire probability distribution of the subjects’ beliefs. While the latter studies elicit probability density function (pdf) of beliefs within a pre-determined and wide range of values, I allow for the range of values to be determined by the range of beliefs of the respondents themselves. This allows for a more precise estimate of the p.d.f. of their beliefs. As far as I know, in a developing country context, McKenzie, Gibson, and Stillman (2013) remains the only other study to elicit subjective expectations of potential earnings from migration abroad, and Delavande and Kohler (2009) is the only other study to elicit subjective expectations on mortality rate.

Finally, this paper relates to a growing literature on the effectiveness of targeted information in ameliorating information failure. Some examples of studies where information interventions have proven to be quite successful include Jensen (2010), Nguyen (2008), and Dinkelman and Martínez A (2014) on improving schooling; Dizon-Ross (2014) on parental investment in the schooling of their children; Duflo and Saez (2003) on better planning for retirement; De Mel, McKenzie, and Woodruff (2011) on better access to credit; Dupas (2011a) and Godlonton, Munthali, and Thornton (2015) on safer sexual behaviors; Madajewicz, Pfaff, Van Geen, Graziano, Hussein, Momotaj, Sylvi, and Ahsan (2007) on choices of safe drinking water; and Shrestha and Yang (2015) on improving job satisfaction among migrant workers. This study shows another context where providing credible information can be a powerful policy tool to enable potential migrants to make informed decisions.

The rest of the paper is organized as follows: Section 2 describes the context and the study setting, Section 3 outlines the intervention design and empirical strategy, Section 4 discusses the
effect of the interventions on perceptions, Section 5 describes the follow-up survey and presents the
effect of the interventions on migration and other outcomes, Section 6 outlines the methodology
for VSL estimation and presents the results, Section 7 uses the VSL and the elasticity estimates to
understand the large extent of misinformation on mortality risks, and Section 8 concludes.

2  Context and study setting

With remittances from abroad comprising almost a third of the national GDP, international mi-
gration for work is tremendously important for Nepal. In this section, I first describe the national
context of migration to Malaysia and the Persian Gulf countries. I then describe the context specific
to this study and compare the study sample with the population of migrants in the country along
a few observable characteristics.

2.1  Context

In recent years, Nepal has been one of the biggest suppliers of low-skill labor to Malaysia and
the Persian Gulf countries. This phenomenon, however, is quite recent. As Appendix Table A.1
shows that historically migrant-to-population ratio hovered slightly above 3 percent and was driven
mostly by migration to India, with which Nepal maintains an open border. However, between 2001
and 2011, the share of non-India migrants exploded six-fold with only a small change in the share
of India migrants. The rising Maoist conflict in the early 2000s and the economic instability during
the conflict and in years following the end of that conflict are often cited as key reasons behind this
surge. However, in Shrestha (2016b), I find that migration flows to non-India destinations are more
responsive to shocks in the destination economies than to incomes at the origin. This suggests that
the booming demand for low-skill labor in Malaysia and the Persian Gulf countries in the 2000s is
key in attracting many Nepali workers.

By 2011, one out of every four households had an international work migrant and almost a
fifth (18 percent) had a migrant in destinations outside India. More than a fifth (22 percent) of
Nepal’s male working-age population (15-45) is abroad, mostly for work. This surge has been driven
by work-related migration to these primary destinations: Malaysia, Qatar, Saudi Arabia, and the
United Arab Emirates. This type of migration is typically temporary with each episode lasting
2-3 years.\footnote{The modal migration duration to the Persian Gulf countries is 2 years and to Malaysia is 3 years.} In many of the countries, especially in the Persian Gulf, a work visa is tied to specific
employment with a specific employer.\footnote{Naidu, Nyarko, and Wang (2014) study the impact of relaxing such a constraint in Saudi Arabia.} It is rare that such migrants eventually end up permanently
residing in the destination countries.

The outflow of Nepali workers to these countries has continued to increase in recent years.
Appendix Figure A.1 shows the numbers of work permits granted by the Department of Foreign
Employment (DoFE) for Nepali workers seeking employment abroad.\footnote{The Government of Nepal has allowed private recruitment of workers to certain countries since the mid 90s upon
clearance from the Ministry of Labor. The Department of Foreign Employment was established in December 2008 to}
of males acquiring work permits was about 7 percent of the adult working-age population in the country. As a result, remittance income as a share of national GDP increased from a mere 2.4 percent in 2001 to about 29 percent in 2013 (The World Bank).

The process of finding jobs in these destination countries is heavily intermediated. Potential migrants typically contact (or are contacted by) independent local agents who link them to recruitment firms, popularly known as “manpower companies”, in Kathmandu. These local agents are typically fellow villagers with good contacts in the manpower companies who recruit people for foreign employment from their own or neighboring villages. In addition, most local agents also help potential migrants obtain passports and other related travel documents. The manpower companies receive job vacancies from firms (or employment agencies) abroad. They are responsible for screening (if at all) and matching individuals with job openings, processing contracts, obtaining necessary clearances from the DoFE, obtaining medical clearances, arranging for travel, visa and other related tasks. Both local agents and the manpower companies receive a commission, which potential workers pay prior to departure. It is unclear what fraction of the total costs of intermediation is borne by the employer, the employee, and what portions of the service charge go to the local agents and the manpower companies.\footnote{Though the Government of Nepal has agreements with some countries that employers, not potential workers, must pay the cost of migration (including travel costs and intermediation fees), the agreements do not seem to hold in practice. The amounts potential work migrants expect to pay is, in reality, higher than the cost of travel and reasonable levels of intermediation fees.}

With a large share of the adult male population working mostly in a handful of destination countries, one might expect that information about the risks and rewards of migration would flow back home. Information, especially about earnings abroad, would be expected to flow well among potential work migrants though information about mortality rate, due to its rare occurrence, may be harder to learn. The potential migrants could even use the social network of current migrants to find work abroad (as in Munshi, 2003).

However, there is a growing sense among policymakers that potential migrants do not have proper information about the rewards of migration. Anecdotes abound on how migrants discover the true nature of their jobs to their frustration and dissatisfaction only upon arrival at their destination. Since the intermediaries are paid only when people migrate, they have financial incentives to distort the information they provide, drawing potential migrants abroad. Though migrants need contracts from employers to receive clearances prior to migration, recruitment agents and agencies commonly acknowledge that many of these contracts are not honored (the potential migrants may or may not be aware of this). Further, a large share of the potential migrant earnings comes from over-time compensation, which may not be explicitly mentioned in the contracts that workers receive. Because of these varied and biased sources of information, and because of somewhat fraudulent paperwork practices, potential migrants are often misinformed about their potential earnings.

Similarly, policymakers and journalists alike are of the opinion that potential migrants are submitting themselves to high risk of mortality by migrating to these countries. In recent years, handle the increased flow of migrant workers to these destinations. The DoFE numbers presented here exclude work migrants to India and to other developed countries.\footnotetext{handle the increased flow of migrant workers to these destinations. The DoFE numbers presented here exclude work migrants to India and to other developed countries.}
national and international media have given considerable attention to the numbers of Nepali workers who die abroad, and to the exploitative conditions they work under. (see Pattisson, 2013b, and several ensuing articles in *The Guardian*, for instance). With a distinctly humanitarian perspective, they portray the system, as a ‘modern-day slavery’. This focus could give potential migrants a misleading impression of mortality rates, as the stocks of Nepali migrants in these countries are rarely included in these reports. Further, deaths of men of the same age group in Nepal rarely receive media or policy attention unless they are a result of some horrific accident. Such biases in reporting could make it much harder for potential migrants to be accurately informed about the underlying death rates from migration abroad.

All of this culminates in a belief among policymakers that potential migrants, knowingly or unknowingly, are trading high risks at unreasonably low prices. However, policymakers’ beliefs are, after all, beliefs – not often fully guided by rigorous evidence. For instance, there is no evidence on potential migrants’ actual beliefs on mortality rate and whether they actually respond to media coverage of deaths. The higher death tolls could, in fact, simply reflect increased migration to those destinations as a result of increased opportunities abroad.

2.2 Study setting and sample

The baseline survey for this study and the experiment was conducted at the Department of Passport (DoP) in Kathmandu in January, 2015. Though Nepali citizens can obtain a new passport from the office of the Chief District Officer in their respective district headquarters at a cost of US $50, it takes almost 3 months to receive a passport. On the other hand, if they apply for their passports at the DoP in Kathmandu, they can opt for the ‘fast-track’ option and obtain their passport within a week at a cost of US $100. Many potential migrants, who are often guided by local agents, use this expedited service to obtain their passports. DoP officials estimated that during the period of the study, an average of 2,500 individuals applied for passports every day. However, not everyone who has a passport will eventually migrate. In fact, many of the study subjects mentioned that they were not sure whether they would eventually go for foreign employment and were applying for passports just to have the option of going abroad.

For this study, passport applicants who just finished submitting their applications were approached and screened for eligibility for the study. Any male applicant who expressed an intention of working in Malaysia or the Persian Gulf countries was eligible. Enumerators explained the purpose of this study, and those who consented to be interviewed were taken to a designated section on the premises of DoP for the full interview. Due to the large volume of people submitting their applications, the enumerators could not systematically keep a record of how many people they approached in a day. Though the office accepted applications from 8:00 AM until 4:00 PM, most eligible applicants chose the morning hours. On most days, the eligible applicants stopped coming in by 2:00 PM.

12 The estimates of the number of Nepali leaving the country hovers around 1,000 to 2,000 per day, many of whom may have old passports.
13 Due to the large volume of people submitting their applications, the enumerators could not systematically keep a record of how many people they approached in a day. Though the office accepted applications from 8:00 AM until 4:00 PM, most eligible applicants chose the morning hours. On most days, the eligible applicants stopped coming in by 2:00 PM.
work migration abroad, and to see how information affected their migration decision. They were not told the exact nature of the information treatment.

The DoP office is a busy environment, yet the study was conducted in an area reserved exclusively for the study, free from outside interference. The DoP restricts non-applicants from entering the premises of the office, due to the volume of applicants, so no family members, friends, or local recruitment agents interfered with the interviews. Figure 1 shows the setting, with individuals queuing at the application counters, and the designated area in the foreground, where enumerators are interviewing the respondents and entering their responses in electronic data collection devices.

Between January 4, 2015 and February 3, 2015, we interviewed 3,319 eligible potential migrants. Though the study was conducted in the DoP in Kathmandu, it appears to be representative of the population of current migrants in the country (Appendix Table A.2). The average potential migrant in the study sample is 27.6 years of age and has 7.5 years of schooling, quite similar to the age and schooling of current migrants in the 2011 census (top panel, columns 1 and 2). It is important to note that the study sample is predominantly low-skilled. Only 15 percent of the sample had completed more than 10 years of schooling, and only 2 percent had any college education. The study sample is predominantly rural and participants are equally likely to be from the southern plains (Terai) as from the hills and mountains – again, similar to the distribution of migrants in the census (second panel, columns 1 and 2). Compared to the migrants in the census, the study sample is slightly more likely to be from the mid-western and far-western regions. However, this difference could reflect a change in the actual trend as migration has become more ubiquitous in 2014 than it was in 2011. Similarly, the distribution of migrants looks similar across Malaysia and the Gulf countries in both the samples (third panel, columns 1 and 2).

There are three distinct groups of potential migrants in the study sample. There are 1,411 “inexperienced” potential migrants who have not yet migrated abroad for foreign employment. Of the remainder, 1,341 are “experienced” potential migrants, those who have migrated abroad for work abroad, but do not have an existing employment contract abroad. That is, these individuals have to search for employment again. The remaining 567 potential migrants are “on leave” from their work abroad. That is, they have an existing employment contract abroad and do not have to look for work. They are back in Nepal on a holiday and must renew their passports. For the remainder of the paper, I will use this classification unless explicitly noted otherwise.

The average inexperienced potential migrant is younger and slightly more educated than the experienced one, is 6.4 years younger and has 0.7 more years of schooling (Appendix Table A.2, columns 3 and 4). The difference in schooling is likely to represent the national cohort trend in schooling more than anything else. The geographic distribution of these two groups is quite similar, except that the inexperienced are more likely to be from mid-western and far-western regions than are the experienced ones – again possibly reflecting a geographic trend as migration became more ubiquitous over the years. In terms of destination choices, the inexperienced are more likely to

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14 The DoP made an exception for this study by letting the enumerators inside the premises and allowing them to conduct the interviews.
want to go to Malaysia than the experienced.

3 Survey design and empirical strategy

The first part of this section describes the nature of the information provided, along with the experimental design. I then describe the process by which expectations on earnings and mortality were measured. The second part of this section discusses balance checks, and the third part presents the empirical specification.

3.1 Design of the informational intervention

Each of the eligible male subjects who consented to be interviewed was asked questions on basic demographics, location and previous migration experience. They were also asked to name the destination country they were most likely to go to. They were given some information relevant to their chosen destination. The information was provided verbally by the enumerators as well as in the form of a card that the respondents could keep for the duration of the interview. The precise content of the information depended upon a random number generator built into the data-collection devices.

There were three types of information that could be provided to the individuals: basic information, wage information, and death information. When individuals were selected to receive either the wage or the death information, they could get either the ‘high’ variant of the information or the ‘low’ variant. I picked two different information treatment arms because there were no pre-existing information on the beliefs of potential migrants. Providing two different information treatments would ensure that at least one of them would serve as new information to the potential migrants. Since deliberate misinformation was already a concern in this context, I chose not to deceive them. For the wage information, the only source of information available was the wage reports made by previous cohorts of migrants to the DoFE in their application to receive the permit for employment abroad. Therefore, two different years were chosen to generate the ‘high’ and the ‘low’ variant of the wage information, and the year the information was pertinent to was stated clearly when providing the information. For the death information treatment arms, I provided information on the death toll from a reference district. I varied the reference district to generate the ‘high’ and ‘low’ variants. Death toll was provided instead of death rates to emulate the kind of information they would see in reality. Further, providing respondents with numbers prevents them from repeating the same rates when they were asked about their mortality beliefs later in the survey.

The following lays out the precise wording and the content of the information treatments:

1. Basic information: This information was provided to everybody. This contained information on the number of people leaving Nepal for work in the subject’s destination of choice. For example:

   Every month, XXXX people from Nepal leave for work in DEST
2. Wage information: A randomly chosen third of the respondents did not receive any information on wages. Another third received the ‘high’ variant with information for 2013, net earnings of $5,700, whereas the remainder received the ‘low’ variant with information for 2010, net earnings of $3,000, using the exchange rate at the time of the survey. However, simply adjusting the ‘low’ 2010 numbers for the observed exchange rate increase of 30 percent and yearly inflation rate of 10 percent, would bring the estimate quite close to the ‘high’ 2013 numbers. As the year of the statistic was clearly mentioned in the information provided to them, many seemed to have accounted for the changes themselves. Therefore, the manipulation within the two groups is not too large. In any case, the exact wording of the information was:

In YYYY, migrants to DEST earned NRs. EEEE only in a month

3. Death information: As with the wage information treatment, a randomly chosen third of the respondents received no information on deaths, another third received the ‘high’ variant and the remainder received the ‘low’ variant. The information provided was the number of deaths of Nepali migrants in their chosen destination from some pre-determined district. For the ‘high’ variant, the district was chosen from the top 25\textsuperscript{th} percentile of the mortality distribution in the country, whereas for the ‘low’ variant, the district was chosen from the bottom 25\textsuperscript{th} percentile.\textsuperscript{15} If the national migrant stock in the destination countries was evenly distributed throughout all the districts, the ‘high’ death information translated to an annual mortality rate of 1.9 per 1000 migrants and the ‘low’ death information translated to a mortality rate of 0.5 per 1000 migrants. The exact wording of the information was:

Last year, NN individuals from DIST, one of Nepal’s 75 districts, died in DEST

A built-in random number generator determined what wage and death information (if any) would be provided to each of the respondents. The assignment of wage information treatments was independent of the assignment of death information treatments. Figure 2 shows two examples of the cards shown to respondents. On the left is an example of the card shown to a respondent intending to migrate to Malaysia for work and who is chosen to receive a ‘high’ wage information and a ‘low’ death information. On the right is an example of the card shown to a respondent intending to migrate to Qatar for work and who is chosen to receive the ‘high’ death information and no wage information. The full set of information provided is shown in Appendix Table A.3. Table 1 shows the breakdown of the sample by randomization group.

\textsuperscript{15} Only 1.4 percent of the candidates that received any death information were from the same district as the reference district. 6.8 percent were from a neighboring district of the reference district.
3.2 Eliciting beliefs on earnings and mortality rate

After the cards were shown to the respondents, they were asked questions designed to elicit their beliefs on earnings and mortality upon migration.\textsuperscript{16} As discussed in the Introduction, the approach and questions derive from the probabilistic expectations elicitation method of Manski (2004) and Dominitz and Manski (1997) adapted to eliciting subjective probability with visual aids in developing countries. At first, the respondents were asked to mention a range of possible monthly earnings from migration:

If you worked in this job, what is the min/max earnings that you will make in a month?

When enumerators entered the range in their data-collection devices, the software uniformly divided the range into five categories. Enumerators then asked a more detailed question to elicit the entire probability distribution of their beliefs across the five categories spanning the range of their expected earnings. The script for the question to elicit the probability density function was:

Now I will give you 10 tokens to allocate to the 5 categories in the range that you mentioned. You should allocate more tokens to categories that you think are more likely and fewer tokens to categories that you think are less likely. That is, if you think that a particular category is extremely unlikely, you should put zero tokens. Similarly, if you think that a particular category is certain, you should put all the tokens in that category. If you think all of the categories are equally likely, you should put equal number of tokens in all of them. There are no right and wrong answers here, so you should place tokens according to your expectation about your earnings abroad. Note that each token represents a 1 in 10 chance of that category being likely.

This process of using tokens is similar to that of using beans by Delavande and Kohler (2009) to elicit subjective probability distribution on mortality.

To elicit the range of their beliefs on mortality rates abroad, the following leading question was asked:

Suppose that 1000 people just like you went to [DEST] for foreign employment for 2 years. Remember that these individuals are of the same age, health status, education, work experience and have all other characteristics as you do. Suppose all of them work in the same job. Now think about the working conditions and various risks they would face during their foreign employment. Many people will be fine but some get unlucky and get into accidents, get sick or even die. You may have heard about such deaths yourself. Taking all this into account, of the 1000 people that migrate for foreign employment, at least (most) how many will die within 2 years upon migrating to [DEST]?

\textsuperscript{16} During the pilot, I tried a variant of the questionnaire that elicited expectations both before and after the information intervention. The elicitation of expectations constituted the bulk of the questionnaire, and therefore respondents resorted to anchoring their answers when the same question was asked after the information intervention. Hence, I decided to elicit expectation only once in the survey after the information intervention. Consequently, I compare expectations across people of different groups.
The data-collection devices again automatically divided the range uniformly into five categories based on the range of expected mortality. Enumerators then asked the subjects to distribute the ten tokens across the five categories based on their beliefs, using a script very similar to the one described above. Enumerators were trained extensively on the scripts and were instructed to be patient with the respondents. They were instructed to repeat the script as well as give additional explanations if the respondents seemed unclear on what was being asked.

To minimize any confusion among respondents, a few confirmatory follow-up questions were added to ensure that the question captured their true beliefs. For instance, if someone answered “50” to the first question, a follow-up question would confirm whether they mean 1 out of 20 individuals would die. If, in response to the follow-up question, the respondent felt that his initial answer was not in line with his beliefs, he would reconcile his estimate.

### 3.3 Balance

Individuals in the initial survey were randomly assigned to various treatment groups based on a random number generator built into the software of the data-collection devices. Based on the random number, an appropriate intervention message would appear on the screens, which the enumerators would read out to the subjects after giving them the corresponding information cards. A few characteristics of the respondents were collected prior to randomization: their age, years of schooling, prior migration experience, location and their intended destination. I check for balance by comparing means for each of these characteristics between any two arms of each type of intervention. For the death interventions, I compare average characteristics in the control group with the ‘high’ treatment group, the control group with the ‘low’ treatment group and finally the ‘high’ treatment group with the ‘low’ treatment group. Appendix Tables A.4- A.9 show the detailed comparisons.

The overall sample looks well balanced with only 2 out of 48 comparisons significantly different for death groups at 95 and 90 percent significance levels. Similarly, 3 out of 48 comparisons in the wage groups are significant at the 95 percent significance level and 4 at the 90 percent level. These results are what one would expect purely from random chance. The joint tests across all comparisons have a p-value of 0.65 for comparisons within death information treatment arms and 0.48 for comparisons within wage information treatment arms, which affirms that randomization was balanced across these observable characteristics.

Since most of my analysis focuses on subgroups of inexperienced and experienced migrants, I present balance checks for these subgroups as well. For the sample of inexperienced potential migrants, only 1 out of 39 comparisons is significantly different at the 5 and 10 percent significance levels for both types of interventions. This is lower than what one would expect from random chance. Consequently, for the sample of experienced migrants, of the 42 comparisons, 3 appear

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17 In cases where respondents gave a range less than 5, they were asked to place tokens in the integer values that they mention. For instance, if they mentioned 1 and 4 as their range, they were asked to place tokens in categories: 1, 2, 3, and 4.

18 Since the survey did not have a pre-existing pool of potential candidates, randomization was done in-field in real time without the possibility of a stratification by prior experience.
significant at the 95 percent significance level and 7 at the 90 percent level. This is slightly higher than what one would expect by random chance alone (2 and 4 at the 95 and 90 percent significance levels). However, the joint test across all outcomes fails to reject equality across the treatment arms at conventional levels. Furthermore, in all of the empirical specifications to follow, the point estimates are similar and the substantive results the same with the inclusion or exclusion of these variables as controls.

3.4 Empirical specification

The randomized nature of the intervention implies that the basic empirical specification to estimate the effect of the programs is quite straightforward. I estimate

\[ y_i = \delta_1 \text{DeathLo}_i + \delta_2 \text{DeathHi}_i + \alpha_1 \text{WageLo}_i + \alpha_2 \text{WageHi}_i + X_i \beta + \epsilon_i \]  

(1)

where \( y_i \) is the outcome for individual \( i \), \( \text{DeathLo}_i \), \( \text{DeathHi}_i \), \( \text{WageLo}_i \) and \( \text{WageHi}_i \) are indicators of whether individual \( i \) receives any of these treatments. \( X_i \) are a set of controls which includes full set of interactions between education categories, age categories and location, indicators for the chosen destination, and enumerator fixed effects. \( \epsilon_i \) represents the error term, and I allow arbitrary correlation across individuals at the date of initial survey \( \times \) enumerators level. The standard errors remain quantitatively similar with alternative clustering specifications.

4 Does providing information affect perceptions?

Using data from the control group (which does not receive any information on wages or deaths), the first part of this section establishes that potential migrants are indeed misinformed about earnings and mortality risks of migration. To do so, I only use the data on the subjects that did not receive any informational intervention. In the second part of this section, I estimate the impact of the informational treatment on perceptions about mortality and earnings.

4.1 Descriptive evidence on the extent of misinformation

Misinformation in expected earnings

Misinformation about earnings abroad may persist even in cases where a large share of the population is a migrant. As discussed earlier, local agents and recruitment companies have an incentive to exaggerate earnings information to induce potential migrants to go. Moreover, previous migrants may also provide biased information. They may lie about their earnings to their social network if they fear social taxation, or feel pressure to maintain any social prestige they gain from having migrated abroad (as in McKenzie, Gibson, and Stillman, 2013, Seshan and Zubrickas, 2015, and Sayad, Macey, and Bourdieu, 2004). This has fueled concern among policymakers that potential migrants may overestimate their earning potential abroad.
However, systematic evidence on the degree of such misinformation is rare. To date, there are no credible surveys of migrants in the destination countries to determine the actual earnings of Nepali migrants. Further, the government does not have a way to track actual earnings abroad. The Department of Foreign Employment only receives reports of contractual earnings from potential migrants when they apply for permits to work abroad, and even this data is not publicly available. In this section, I use the survey data I collected to compare potential migrants’ expectations with a few benchmarks to establish that potential migrants are misinformed on their earning potential.

An inexperienced potential migrant expects to earn more than the experienced ones (those who have migrated before). On average, an inexperienced potential migrant expects to earn $12,300 (net) from one migration episode, which is 26 percent more than the expectation of those who have migrated before (Figure 3). This pattern holds for most of the distributions of earnings expectations. Above the 20th percentile, each quantile of expected earnings of inexperienced potential migrants is higher than the corresponding quantile for those who have migrated before. For instance, the median inexperienced potential migrant expects to earn 23 percent more compared to the median migrant with prior migration experience, and the extent of the discrepancy remains about the same even at the 95th percentile.

It is quite striking that the inexperienced migrants expect to earn more than those with greater experience and arguably better training. However, the sample of experienced migrants in this study is non-random: it only includes those who want to migrate again. If good experience in migration makes them more likely to migrate again (as in Bryan, Chowdhury, and Mobarak, 2014), then the extent of misinformation presented here is likely to be a lower-bound estimate of the actual gap in information. If experienced migrants migrate for lower earnings abroad because their outside option of staying home is much worse, then the extent of misinformation here is likely to be an upper bound. In the current context, however, the former channel is more likely to be predominant.

The expectations of potential migrants are also much higher compared to the information provided to them. As Figure 3 shows, only 15 percent of the inexperienced potential migrants and 10 percent of those who have migrated before expect to earn less than the ‘high’ information provided of $5,700. Virtually no one expects to make less than the ‘low’ information provided of $3,000. However, the official figures may not reflect the actual earnings of migrants abroad as it does not include over-time pay, which is often a large share of a migrant worker’s compensation abroad.

In any case, these comparisons, though not perfect, are suggestive of large information gaps between the earnings expectations of the inexperienced potential migrants and the actual earnings provided to them. As Figure 3 shows, only 15 percent of the inexperienced potential migrants and 10 percent of those who have migrated before expect to earn less than the ‘high’ information provided of $5,700. Virtually no one expects to make less than the ‘low’ information provided of $3,000. However, the official figures may not reflect the actual earnings of migrants abroad as it does not include over-time pay, which is often a large share of a migrant worker’s compensation abroad.

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they are likely to accrue once abroad. The actual extent of misinformation for inexperienced potential work migrants is likely to be bigger than 26 percent but smaller than that suggested by the comparison with the official figure.

**Misinformation on expected mortality rate**

Contrary to the popular notion, potential migrants seem to overestimate their mortality rate abroad by a large factor. The average expected two-year mortality rate of inexperienced migrant is 28 per 1000, which is 68 percent higher than the expectations of those who have migrated before. Figure 4 shows that not just the mean, but every quantile of expected mortality rate of inexperienced potential migrants is higher than the corresponding quantile for those who have prior migration experience. For instance, the median expected mortality rate for the experienced is 10 per thousand, whereas it is 5.8 for those who have migrated before. However, these expectations are much higher compared to the actual mortality rate faced by the migrants once abroad. The deaths data from the Foreign Employment Promotion Board, the authoritative data source for mortality of Nepali workers abroad, and migration data from the Census and the Department of Foreign Employment show that the two-year mortality rate of Nepali workers in these destination countries is 1.3 per thousand. Only 3 percent of inexperienced potential migrants and 11 percent of those who have migrated before expect the mortality rate to be lower than what it actually is. The overestimation at the mean is 21 times the actual figure for the inexperienced ones and 13 times for those who have migrated previously. The extent of overestimation is smaller at the median, but still 8 and 4 times the actual rate for both inexperienced and experienced (those who have migrated before), respectively.

The difference between the actual and reported mortality rates raises the question of whether the reports are errors in the reporting of their underlying beliefs or a truthful reporting of their mistaken beliefs. Reporting of the beliefs could be wrong because, despite measures taken during the interview process, subjects may not be able to articulate very small probabilities well (though they say the risk is 5 per 1000, it may be the same for them as 5 per 900, for instance). On the other hand, beliefs could be inaccurate because of biases in information sources as discussed above or because of the way potential migrants form beliefs. For most of the paper, I treat the reported beliefs as a true reporting of their (biased) beliefs, and I return to address this issue in Section 7 with evidence which is consistent with this.

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22 To put this number in perspective, the mortality rate of average Nepali men with the same age distribution as the sample is 4.7 per 1000 for a two-year period. The mortality rate of average US men with the same age distribution as the sample is 2.85 per 1000 for a two-year period. Note that this information on relative risks was not provided to the potential migrants.

23 The finding that (young) adults overestimate their mortality expectation is not uncommon. Delavande and Kohler (2009) find that males aged under 40 in rural Malawi have median mortality expectations that are over 6 times the true mortality rate with higher bias for younger cohorts. Similarly, Fischhoff, Parker, de Bruin, Downs, Palmgren, Dawes, and Manski (2000) find that adolescents aged 15-16 in the US overestimate their mortality rate by a factor of 33 even after excluding the “50 percent” responses.
4.2 Impact of information on beliefs

To guide the empirical analysis of the impact of information treatments on respondents’ beliefs, Appendix B outlines a simple learning model. In this model, individuals have normally distributed priors and believe that the information I provided is a random draw from another normal distribution. Individuals use Bayes’ rule to form their posterior beliefs, which results in a few testable predictions about the effect of informational interventions. First, individuals update in the direction of the information. To the extent that potential migrants (especially the inexperienced ones) overestimate their mortality risks and earning potential, information, when effective, would lower their perceived mortality risks and earning potential. Second, information lowers the individual variance of posterior belief, and third, the effect of the information is increasing with the quantile of individual belief distribution. In the rest of this section, I discuss the effect of information on the beliefs about earnings and mortality risk in light of this framework.

Effect on perception of mortality risks

Consistent with the framework, Table 2 shows that the ‘low’ death information lowers potential migrants’ perceived mortality risk of migration by 4 per thousand which is 20 percent of the control group mean (column 1). The effect with the controls (column 2) is only slightly larger. Other information treatments do not seem to alter the perceived mortality rate of migration by a substantive amount. For inexperienced potential migrants, providing the ‘low’ death information lowers their perceived mortality risk of migration by 7.4 per thousand, which is 27 percent of the control group mean (column 3). Adding controls (column 4) slightly increases this point estimate. The ‘high’ death information lowers expected mortality rate by 1.8 per thousand (3.9 with control), but the effect is not very precise (columns 3 and 4). These effects are consistent with the learning framework described in Appendix B and the fact that potential migrants, especially the inexperienced, overestimate their expected mortality rate relative to the truth as well as relative to the information provided to them.\(^{24}\) In terms of its effectiveness in filling the knowledge gap, the ‘low’ death information reduces perceived misinformation by 50 percent, and the ‘high’ death information reduces the perceived misinformation by 15 percent.\(^{25}\)

Furthermore, the ‘low’ death information treatment also lowers the perceived mortality risk of the experienced by 2.2 per thousand (3 with controls), which are 13 percent (17 with controls), but are estimated imprecisely (columns 5 and 6). Even though the effect is insignificant, it is quite

\(^{24}\) I also find that the inexperienced potential migrants update more drastically when the reference district happens to be their own or a neighboring one, suggesting that potential migrants consider signals from their own or neighboring districts as more precise. In fact, among those provided ‘low’ death information from a reference district that happens to be their own or a neighboring district, the average expected mortality rate for those is only 15 per 1000, almost half of the control group mean. But since there are only 30 individuals in this group, I do not conduct further analysis using this variation.

\(^{25}\) I define reduction in perceived misinformation as \(\frac{\hat{\delta}}{\theta_0 - \hat{s}}\), where \(\hat{\delta}\) is the effect of the intervention, \(\hat{\theta}_0\) is the prior mean estimated from the control group, which receives no information, and \(\hat{s}\) is the perceived mean of the signal distribution as calculated in Appendix B. If \(\hat{s}\) is taken to be the actual value of the information provided to them, the extent of reduction in misinformation is 28 and 8 percent for the ‘low’ and ‘high’ death information, respectively.
large and reduces misinformation by almost a third.\textsuperscript{26} The ‘high’ death information treatment has an imprecisely estimated positive effect on expected mortality rate for this group. In terms of the learning framework, this would mean the signal was interpreted as being noisy. Furthermore, the prior of the experienced group is much higher compared to the inexperienced group, which explains why the effect of information is opposite for this group.

As I have the entire probability distribution about beliefs of mortality risks, I show the results on various quantiles of an individual’s belief about the mortality risks in Appendix Table A.10. Consistent with the framework in Appendix B, the result suggests that the information affected the entire distribution of the individual belief with larger effects in higher quantiles of their belief distribution. For the inexperienced, the ‘low’ death information lowered the average of the 10th percentile of their beliefs by 6.5 deaths per thousand, which translates to 27 percent of the control group mean. Similarly, the information treatment lowered the average of the 90th percentile of their belief by 8.4.

Furthermore, for the inexperienced group, the effect of the information treatment seem to be coming from higher end of the distribution of expected mortality rate. As Appendix Figure A.2 shows, the effect of the ‘low’ death information is higher at higher deciles of the expected mortality rate distribution (bottom right plot). As the figure shows, other information treatments do not have statistically significant effects at any point of the distribution, except that the effect at the largest deciles are estimated more imprecisely than others. This suggests that the ‘low’ death information corrects expectations on mortality rates and does so from the individuals who are more likely to have much higher expectations about mortality rate, and are therefore, more likely to be misinformed.

These effects suggest that for the inexperienced potential migrants, the ‘low’ death information treatment lowered their entire distribution of beliefs on mortality rates consistent with simple Bayesian model of learning described in Appendix B. Further, it lowered the expected mortality rate from those who would have otherwise had higher expected mortality rates. Consequently, the group receiving this treatment had lower variance of the expected mortality rate than the control group.\textsuperscript{27}

**Effect on perceptions of earnings**

Consistent with the framework, Table 3 shows that the information interventions reduced the expected net earnings for the inexperienced potential migrants.\textsuperscript{28} The ‘high’ wage information

\textsuperscript{26} If $\hat{s}$ is taken to be the actual value of the information provided, then the reduction in misinformation is 14 percent.

\textsuperscript{27} I can reject equality of variance between the ‘low’ death information group and the control group using the robust Levene (1961) as well as Brown and Forsythe (1974) tests. I cannot reject equality of variance in expected mortality rate for any other pairwise comparison.

\textsuperscript{28} The net earnings from migration is their expected monthly earnings multiplied by the modal duration of a migration episode to their chosen destination after subtracting the expected fees of migrating abroad to that destination. All the effects of the interventions are concentrated in expected monthly earnings with no effect in expected fees (monetary costs) to migrate. The results are almost identical if the analysis is repeated on the (gross) earnings from migration. I use net earnings simply for ease of interpretation.
reduced the expected net earnings by $1,100, which is 8 percent of the control group mean (column 3). The ‘low’ wage information reduced expected earnings by $860, only slightly smaller than the effect of the ‘high’ wage information treatment. As discussed in Section 3.1, the information treatments differed in terms of the year of the statistic, but were similar after the numbers were adjusted for the inflation and the increase in exchange rate of the destination countries. Therefore, it is not surprising that the effects of these information treatments are also quite similar. In fact, this suggests that inexperienced potential migrants are quite sophisticated in the way they treat the wage information treatment.

The calculations in Appendix B provides some support for the inexperienced potential migrants interpreting the ‘high’ and the ‘low’ wage information in a similar way. Imposing a Bayesian learning model on the average inexperienced potential migrant’s beliefs in the control and treatment groups, one can infer the signal mean and variance without using information on the provided signal. The ‘high’ wage information was inferred as a signal drawn from a distribution with mean $6,700 and standard deviation of $1,200. Similarly, the ‘low’ wage information was inferred as a signal drawn from a distribution with mean $6,200 and a standard deviation of $1,600. The fact that these two distributions are quite similar is suggestive that the inexperienced potential migrants actually treated the ‘high’ and the ‘low’ wage information in a similar way.

Neither of the wage information treatments had any effect on the earnings expectation of the experienced potential migrants (Table 3, columns 5 and 6). The estimated effects are both small and statistically indistinguishable from zero. The lack of effect for the experienced potential migrants is expected as they have better source of information about their earnings potential.

Appendix Table A.11 shows the effect of the interventions on various quantiles of the individual’s probability distribution of their beliefs on earnings. For the inexperienced potential migrants, the ‘high’ wage intervention lowers the 10th percentile of their belief on earnings by about $800 (8 percent) and the ‘low’ wage intervention lowers it by $600 (6 percent). As predicted by the simple learning framework, the magnitudes of these effects become larger for higher quantiles of their beliefs.

Furthermore, for the inexperienced group, the effect of the information treatment seem to be coming from higher end of the distribution of expected net earnings. As Appendix Figure A.3 shows, the ‘high’ wage information appears to have lowered the earnings expectation more from the higher end of the expected earnings distribution whereas the ‘low’ wage information treatment seems to have lowered perceptions throughout the distribution without a higher effect at the higher end of the distribution. This suggests that individuals who did not completely believe the ‘low’ wage information provided are likely to have been at the higher end of the expected earnings distribution. Because of the larger effect of the ‘high’ wage information on higher end of the expected earnings distribution, this group has lower variance than the control group. Here too, the ‘high’ wage information managed to squeeze the distribution of expected earnings for the treatment group but

\[ I \text{ reject equality of variance using the } \text{Levene (1961)} \text{ and } \text{Brown and Forsythe (1974)} \text{ tests only for the comparison between the control group and the ‘high’ wage information group and not for other pairs.} \]
the ‘low’ wage failed to do so.

5 Does information affect migration and other outcomes?

The initial survey in January 2015 collected phone numbers for the respondent, his wife and a family member (when available). These subjects were contacted again in April 2015 through a telephone survey. The primary purpose of the telephone survey was to determine the migration status of the initial respondent. Upon contact and consent, enumerators administered a short survey, collecting information on migration-related details, job search efforts, and debt and asset positions. The first part of this section describes the follow-up survey protocols and discusses attrition. The second part discusses the effect of information on migration choices and robustness to various definitions of migration. The last part of this section describes the impact of informational interventions on other outcomes measured during the follow-up survey.

5.1 Follow-up survey and attrition

Follow-up survey and protocol

These April 2015 follow-up telephone surveys were conducted from the data collection firm’s office under close supervision of two supervisors. Enumerators were given specific SIM cards to be used during the office hours for the purposes of the follow-up survey. A protocol was developed to reach out to as many initial respondents (or their family members) as possible. Enumerators would first call the initial respondent’s phone number followed by the wife’s and the family member’s phone number if the former could not be contacted. If anyone picked up the phone, enumerators confirmed the identity of the initial respondent or their family members and made sure that they were talking about the correct initial respondent. Then enumerators noted the migration status of the initial respondent: if he was available, they administered the follow-up survey to him; if he had already migrated, they administered it to the telephone respondent (usually the wife, siblings or parents). In case the initial respondent was known to be in the country, enumerators made up to three attempts to administer the follow-up survey to him, before resorting to the telephone respondent.

If no one could be contacted on any of the phone numbers, then the enumerators would try the set of phone numbers again at another time or day. Enumerators attempted to call each set of numbers for six days with at least one attempt every day before giving up on contacting the subjects. If the telephone respondents were busy at the time of the call, enumerators made an appointment with them and contacted them at a time of their choosing. This protocol was designed to ensure that the subjects, or their family members, were contacted whenever possible and the failure to contact them either meant that the telephone numbers provided were either wrong or that the subjects had already migrated.
Attrition

Following this protocol, the enumerators were able to conduct detailed follow-up survey with 2,799 initial respondents (or their family members) between March 26 and April 24, 2015. This represents 84 percent of the overall sample, 85 percent of the inexperienced potential migrants, 86 percent of the experienced potential migrants, and only 78 percent for those who had an existing contract abroad and were back only on a leave. Since the main outcome of interest of the study is migration, attrition from the survey is also potentially an outcome to the extent that I am less likely to obtain information about a migrant.

I consider three separate measures of attrition. The first, Attrition-F, considers whether the full follow-up survey was conducted or not. The second, Attrition-M, considers whether it was possible to determine the migration status of the initial respondent. This measure differs from the first measure when enumerators were able to determine the migration status of the individuals but were not able to conduct the full follow-up interview. The attrition rate, according to this measure, is 13 percent for the overall sample, 12 percent each for the samples of inexperienced and experienced potential migrants. Among the 13 percent of the subjects with unknown migration status, it is possible to know about the attempted calls to the numbers provided by them. The phones of many in this group were switched off or not in operation, but for a few, the numbers provided were wrong (confirmed either by the telephone operator or by the person who answered the phone). In very few cases, the respondents refused to identify themselves or provide any information on the study subjects. Hence, my third measure of attrition (Attrition-W) indicates confirmed wrong numbers or refusal to interview. According to this measure, the attrition rate is about 3 percent in the overall sample as well as the subgroups.

The first measure of attrition, Attrition-F, is correlated with the information treatments. As the top panel of Table 4 shows, this measure of attrition is higher for death information treatments (marginally significant) and lower for wage information treatments (columns 1 and 2). For the inexperienced potential migrants, the ‘high’ wage information reduces this measure of attrition by 4 percentage points, significant at 10 percent level (columns 3 and 4). For the experienced potential migrants, the ‘low’ death information increases attrition by 6 percentage points (column 5).

The second measure of attrition, Attrition-M, is also correlated with information treatments. As the second panel of Table 4 shows, this measure of attrition matches the correlation pattern observed for Attrition-F. For the overall sample, death information treatments increase attrition whereas wage information treatment reduce it (columns 1 and 2). For the inexperienced potential migrants, in particular, the ‘high’ wage information treatment lowers this measure of attrition by 4 percentage points (columns 3 and 4). Whereas, for the experienced potential migrants, the ‘low’ death information treatment increases attrition by 6 percentage points (column 5).

The third measure of attrition, Attrition-W, is not correlated with any of the information

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Thirty

Follow-up surveys ended after a 7.8 magnitude earthquake struck Kathmandu on April 25, 2015, one day ahead of the planned end date. In the last working day (April 24), only 26 interviews (0.9 percent of total successful follow-up interviews) were conducted. When the follow-up interviews were in full swing, about 120 successful follow-up interviews were conducted in a day.
treatments (bottom panel, Table 4). This measure of attrition is low and, more importantly, not correlated with the treatment status. Particularly for the inexperienced migrants, even the direction of the effects does not match the pattern observed for other measures of attrition.

Attriters look broadly similar to non-attriters except for a few characteristics. As Appendix Table A.12 shows, attriters, by all three measures, have similar characteristics as non-attriters in except for completed years of schooling (first and second panels). For both the subgroups, I cannot reject the joint null that attriters and non-attriters have the same age, geography and locations. However, attriters have lower completed schooling by more than 1 year compared to non-attriters (first panel, row 2). This also makes some intuitive sense as those who have fewer years of schooling are likely to have fewer cellphones in the family or could be more likely to misreport phone numbers. However, as seen in Table 4, correlation patterns between treatments and attrition measures remain the same despite adding controls, including schooling.  

More importantly, attriters, as classified by the first measures, Attrited-F and Attrited-M, had anticipated earlier migration even during the initial survey in January. In the initial survey, respondents were asked to assign 10 tokens to five bins representing their likely time of migration: 0-3 months, 4-6 months, 8-9 months, 10-12 months, and 12+ months. Compared to non-attriters, attriters by those first two measures were more likely to indicate certainty of migrating within three months or a much quicker expected migration time (third panel, Appendix Table A.12). However, attriters by the third measure, Attrited-W, did not have different expectations than non-attriters. This suggests that attriters by the first two measure attrited precisely because they have migrated. To incorporate, I define my migration outcome based on different assumptions on the attriters. In measures of migration and other outcome that suffer from missing variables problem, I also estimate the Lee (2009) bounds of effects.

Since the two wage information treatments seem to have similar effects on the expected mortality and earnings as well as attrition, I pool the two treatments into a single wage information treatment group from this point forward. The results remain essentially the same with the more disaggregated specification as well.

5.2 Effect on migration

As discussed above, I have various measures of migration status based on various assumptions that I make about the attriters. For those whose migration status is observed, I treat them as migrants if they have already left or are confirmed to leave within two weeks of the follow-up survey.  

For my preferred measure of migration (Migrated-P), I assume all attriters are migrants except those subjects who provided wrong phone numbers or refused to provide any information to the enumerators. That is, this measure of migration treats Attrition-W as missing and considers those with switched off or unavailable phones as migrants. With this measure, as shown above, missing

Footnotes:
31 I also estimate selection on observables correction proposed by Fitzgerald, Gottschalk, and Moffitt (1998) to adjust for the fact that attriters are different from non-attriters. The key results are qualitative and quantitatively the same. All results presented in the paper are without the correction.
32 The results are essentially the same if the confirmed departure time is changed to 1 week or 0 week instead of 2.
data is uncorrelated with information treatment and hence the estimates of equation 1 are unbiased. Furthermore, those with phones switched off or unavailable during the follow-up had expected to migrate earlier and are indeed more likely to be actual migrants.

For the inexperienced potential migrants, migration decision is consistent with the change in expectations about earnings and mortality rate. As Table 5 shows, ‘low’ death information increased migration by 7 percentage points whereas the wage information treatments lowered migration by 6 percentage points (top panel, columns 3 and 4). These effects are over 20 percent of the migration rate observed in the control group. The effects are also what one would expect, given the change in expectations that the treatments induced. The ‘low’ death information lowered the expected mortality rate abroad, making the destinations more appealing and inducing more them to migrate. On the other hand, the wage information treatments lowered the expected earnings abroad, making destinations less attractive and inducing fewer of them to migrate.

The effect on expectations also resonate on migration decision of the experienced potential migrants. As Table 5 shows, the ‘low’ death information, which lowered expected mortality rates abroad increased migration by 9 percentage points (top panel, columns 5 and 6). On the other hand, the wage information treatments, which failed to induce a change in expectations, also failed to induce a migration response.

The effect of information treatments remain qualitatively and quantitatively similar for the second measure of migration (Migrated-A). This measure of migration treats all attriters as having migrated. As the second panel of Table 5 shows, the effect of information treatments on this measure of migration is quite similar to the effect on the preferred measure (Migrated-P).

Because of the missing variables problem, the effect of the information treatments on the basic measure of migration (Migrated-B) is biased. This measure treats all those individuals with unconfirmed migration status (Attrited-M) as missing. For the inexperienced potential migrants, ‘low’ death information is not correlated with Attrited-M, and hence, as Table 5 shows, the effect on this measure of migration is almost the same as for the previous two measures of migration (bottom panel, columns 3 and 4). However, the effect of wage information treatment is two thirds the size of the effect for other measure of migration. This is precisely what one would expect if wage interventions led the potential migrants to not migrate and therefore more likely to be found during the follow-up survey.

The third panel of Table 5 shows the results for this measure of migration (Migrated-B). For the inexperienced potential migrants, ‘low’ death information treatment increased migration by 7 percentage points. This effect, significant at 5 percent level, is almost 30 percent of the migration rate in the control group. For this group, death ‘high’ information also increases migration slightly (9 percent) but the effect is insignificant. Note that since missing data (Attrition-M) is not correlated with death interventions, these points estimates similar to the preferred measure of migration. However, since missing data (Attrition-M) is correlated with wage information treatments, the point estimate for wage information treatments is lower and not significantly different from zero at conventional levels. This is precisely what one would expect if wage interventions led
the inexperienced potential migrants to not migrate and therefore more likely to be found during the follow-up survey. Similarly, for the experienced migrants, ‘low’ death information, which increased attrition, has a smaller effect than for other measures. Again, this is what one would expect if ‘low’ death information led the experienced potential migrants to migrate more and therefore less likely to be found during the follow-up survey.

Lee (2009) bounds on effect of the information treatments on the basic measure of migration (Migrated-B), also supports that attrition (Attrited-M) captures unobserved migration. As Table 6 shows, the bounds on the effects of the death information treatments for inexperienced potential migrants are tight and similar in magnitude as the effect on the preferred measure of migration (second panel, columns 1 and 2). However, the lower bound on the effect of wage information on migration is similar to the effect on the preferred measure (Migrated-P) whereas the upper bound on the effect is similar to the effect on the basic measure (Migrated-B). That is, selectively dropping a random subset of those who migrated and are from the wage information treatment group, in order to balance attrition, produces an estimate not too different from the effect on the basic measure (Migrated-B). However, selectively dropping a random subset of those who did not migrate and are from the wage information treatment group to balance attrition produces an estimate different from the effect on the basic measure and very similar to the effect on the preferred measure (Migrated-P). This also suggests that attrition is likely to be more among migrants than non-migrants.

5.3 Effect on other outcomes

In this section, I investigate the effect of the information treatments in other outcomes that were collected using the full follow-up survey. This would shed light on other effects of the intervention or the mechanism of the migration effect. Since these measures were collected through the full follow-up survey, these measures suffer from attrition (Attrition-F).

Appendix Table A.13 shows that the information treatments did not affect whether the potential migrants choose the same country or region (Persian Gulf versus others) as they did during the initial survey. Between the initial survey and the follow-up, about 40 percent of the inexperienced and 28 percent of experienced potential migrants changed their destination country. The information treatments barely changed this – the effects are not just statistically insignificant, but also numerically small. The same holds true for potential migrants changing their intended (or chosen) destination region.

The wage information increases the chance that inexperienced potential migrants seek new manpower companies, but has no effect on seeking consultations from other source. As Appendix Table A.14 shows, inexperienced migrants receiving wage information are 6 percentage points more likely to consult different manpower companies after the initial survey (top panel, columns 3 and 4). This effect is 26 percent of the likelihood in the control group. The Lee (2009) bounds on this estimate are positive and large, suggesting that the effect is large despite the missing variables concern (Appendix Table A.15, middle panel, column 3). This probably reflects an action that
inexperienced potential migrants can take upon realizing that they had been misinformed. However, none of the information treatments affect whether they consult with family members or friends (mid and bottom panel, Appendix Table A.14). Similarly, none of the information treatments affects any of these outcomes for the experienced potential migrants.

As Appendix Table A.16 shows, none of the information treatments changed whether households took out new loans (top panel), paid back old loans (mid panel), or bought new assets (bottom panel). However, for the experienced potential migrants, the ‘low’ death information increases the probability that they bought new assets between the two rounds of the survey and wage information reduces the likelihood of buying new assets. The wage result is particularly inconsistent with the rest of the results as it did not affect perceptions or expectation or any other outcome, hence I attribute this odd result to random chance.

6 Estimates of VSL

Since the information treatments are effective in changing the expectations of inexperienced potential migrants concerning both earnings and mortality rate associated with migration, I estimate the value of a statistical life (VSL) for this group by using the information treatments as instruments. The first part of this section describes the methodology and the contribution of this paper in estimating VSL, the second presents the estimates for the pool of inexperienced potential migrants, and the third explores robustness. The final part estimates the VSL for various subgroups.

6.1 Methodology and contribution

Schelling (1968) shaped the way economists think about VSL as the willingness to trade-off wealth $W$ for a marginal change in the probability of death $d$ holding everything else constant. That is,

$$VSL = \frac{dW}{dd}$$

holding everything else, including utility, constant.

The empirical approach to estimating VSL in this context can be motivated by a simple binary choice framework. The utility that a potential migrant $i$ receives from migrating can be written as

$$U_i^M = \alpha + \beta d_i + \gamma W_i + \varepsilon_i$$

where $W_i$ is the expected earnings from migration, $d_i$ is the expected mortality risk from migration, and $\varepsilon_i$ represents the unobserved individual specific factors that influence the utility from migration. The utility that the potential migrant $i$ receives from not migrating is unobserved and can simply be written as $U_i^H = \alpha' + u_i$. Then the migration decision $M_i$ of potential migrant $i$ is given by

$$M_i = 1 \left( U_i^M > U_i^H \right)$$

$$= 1 \left( u_i - \varepsilon_i < \alpha - \alpha' + \beta d_i + \gamma W_i \right)$$
with
\[ E_i [M_i] = Pr \left( u_i - \varepsilon_i < \alpha - \alpha' + \beta d_i + \gamma W_i \right) \]

By making assumptions on the distribution of \( \varepsilon_i \equiv u_i - \varepsilon_i, \beta \) and \( \gamma \) could be consistently estimated if \( d_i \) and \( W_i \) are not correlated with \( \varepsilon_i \). But because of omitted variables (such as inherent ability or carefulness), \( W_i \) and \( p_i \) are likely to be correlated with \( \varepsilon_i \) (which includes, among other things, earning option and mortality risks of not migrating). To solve this problem, I use the exogenous variation in \( d_i \) and \( W_i \) generated by the informational interventions as instruments for \( d_i \) and \( W_i \) for the pool of inexperienced migrants.

Hence, I estimate the following system of equations
\[
\begin{align*}
E_i [M_i] &= Pr \left( \varepsilon_i < \alpha - \alpha' + \beta d_i + \gamma W_i \right) \\
d_i &= \mu_1 DeathLo_i + \mu_2 DeathHi_i + \mu_3 WageInfo_i + \eta_i \\
W_i &= \delta_1 DeathLo_i + \delta_2 DeathHi_i + \delta_3 WageInfo_i + \nu_i
\end{align*}
\]

where \( DeathLo_i, DeathHi_i \) and \( WageInfo_i \) indicate whether potential migrant \( i \) receives the ‘low’ death information or the ‘high’ death information or any of the wage information.

To make progress in estimation, I assume that \( (\varepsilon_i, \eta_i, \nu_i) \) are individually and jointly normally distributed. Randomization guarantees that \( (\eta_i, \nu_i) \) is independent of the informational treatments. Furthermore, with the assumption that the treatments did not change unobserved amenities associated with migration, the information treatment is also uncorrelated with \( \varepsilon \).\textsuperscript{33} Given the random assignment of treatment and the assumption on error terms, maximum likelihood estimation of equation (2) yields the most efficient estimator of \( \beta \) and \( \gamma \) up to scale. Given this setup, VSL is simply the ratio of two estimates
\[
VSL = \frac{dW}{dd} = -\frac{\partial E[M]}{\partial d} = -\frac{\beta}{\gamma}
\]

and can be estimated by \( \hat{VSL} = -\frac{\hat{\beta}}{\gamma} \).

I estimate this equation using both the levels and logarithm of expectations to allow \( \eta \) and \( \nu \) to be log-normally distributed. I also estimate the model with 2SLS assuming linear probability model and find that the point estimates for the VSL are similar. The advantage of estimating equation (2) over estimating 2SLS is that it gives the ratio of coefficients an utility constant interpretation as the definition of the VSL implies. The results with 2SLS estimates are presented in the appendix.

This method of estimating VSL by observing choices of individuals is quite novel in the rich literature on the subject. Most estimates follow the wage hedonic approach following seminal work by Thaler and Rosen (1976) (see Viscusi and Aldy, 2003; Cropper, Hammitt, and Robinson, 2011, \textsuperscript{33} One way to check this assumption is to see whether the information treatments changed their occupation choices, and it does not. Furthermore, for the inexperienced potential migrants the wage information treatments do not change mortality rate expectations and the death information treatments do not change earnings expectations (columns 3 and 4 of Table 2 and Table 3). These results suggest that the exclusion assumption is likely to hold in this context. \textsuperscript{34}}
for review of empirical estimates). Thaler and Rosen (1976) show that the slope of the observed market locus in the wage-mortality risk plane gives the willingness to pay of the workers to avoid marginal increments in mortality risks (i.e. the VSL). But getting consistent estimate of the market locus (or its slope) has been difficult because of two key problems.

First, in most estimations using the wage hedonic approach, mortality risk is correlated with unobserved determinants of wages (see Ashenfelter, 2006, for a critique). This introduces a selection bias in the estimates with an unknown direction and magnitude of the bias. The current study overcomes this problem by using exogenous variation in (expected) earnings and (expected) mortality risks generated by randomly provided information.34

The second issue with the wage hedonic approach is that mortality risks are measured with errors and maybe known imperfectly to agents. Black and Kniesner (2003) emphasize that the measurement errors are non-classical in nature and leads to large biases in either direction.35 In this study, I directly measure expectations on earnings and mortality risks without the need to worry about whether they (as well as the econometrician) know the actual mortality rate and the earnings involved.36 Rather than the actual risks involved with the occupation, it is the perceived risks that is actually relevant in the decision-making process.

The second, and somewhat new, approach to estimating VSL is by modeling the choices made by individuals or populations. In this vein, Ashenfelter and Greenstone (2004b) model the decision of states to adopt a higher speed limit to compute VSL. In their setting, states choose to adopt higher speed limit if the monetary value of times saved per marginal fatality is higher than the VSL. The authors estimate the monetary value of times saved per marginal fatality by instrumenting fatalities with a plausibly exogenous increase in speed limits in rural interstate roads in the US from 55 mph to 65 mph in 1987. Though this gives them a well identified upper bound estimate of the VSL, their estimates of actual VSL suffers from lack of exogenous variation in modeling the decision of the states to adopt the speed limit. Furthermore, this VSL is the tradeoff by the state (or the median voter if the preference of the states represent the policy choices of the median voter) and could be different from the tradeoff made by individuals.

In a more refined modeling of individual choices, Greenstone, Ryan, and Yankovich (2014) study the reenlistment decision (and occupation choices within the military) of US soldiers when faced with varying monetary incentives and mortality risks. In a methodology similar to this paper, the authors infer the VSL of US soldiers by looking at the ratio of coefficients on mortality risk and monetary incentives of a discrete choice model of occupation choice. The identifying variation in their study comes from the institutional process that determines compensation for reenlistment and variety of occupations undergoing different mortality risks as the US engages in various military actions. Another study that employs the discrete choice framework to estimate the VSL is León and

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34 Lee and Taylor (2014) is one of the rare studies to estimate VSL using an exogenous variation in plant level risk. They exploit the random assignment of federal safety inspection to instrument for plant level risk to estimate the equilibrium relationship between wages and risks.

35 In fact, they estimate VSL to be negative in half their specifications.

36 This, of course, is assuming that the respondents are able to articulate the risks accurately during the survey.
Miguel (2013), which examines the transportation choices made by travelers to the international airport in Sierra Leone. The identifying variation in this study comes from the availability of different options at different periods over which the data was collected.

This study is methodologically similar to Greenstone, Ryan, and Yankovich (2014) and León and Miguel (2013), as it infers VSL from the ratio of coefficients in a model of migration choices of potential migrants, but it extends the approach with a randomized information experiment that introduces exogenous variation in perceptions of earnings and mortality risks. To the best of my knowledge, this is the first study to employ randomized controlled trial in estimating the VSL.

6.2 Estimates of VSL for inexperienced potential migrants

Both the logarithmic and the levels specifications estimate migration elasticities that are quite similar across specifications. As Table 7 shows, across all three measures of migration, an increase in (logarithm of) expected mortality rate lowers probability of migration and an increase in (logarithm of) expected earnings increases migration probability as expected (top panel). For the preferred measure of migration (Migrated-P), an increase in one percent in expected mortality rate reduces migration by 0.16 percentage points (column 1). This translates to an elasticity of migration to expected mortality risk of 0.5. Similarly, an increase in one percent in expected earnings increases migration by 0.22 percentage points, which translates to an elasticity of migration to expected earnings of 0.7. The bottom panel of the table estimates similar elasticities with the levels specification. An increase in expected mortality rate by 1 percentage points reduces migration rate by 6 percentage points (column 1). This point estimate translates to an elasticity of 0.5, which is exactly the same elasticity from the logarithmic specification. An increase in expected earnings by $1000 increases migration rate by 1.1 percentage points which implies an elasticity of 0.5 which is only slightly smaller compared to the elasticity estimated using the logarithmic specification. Since expected mortality and expected earnings are more likely to follow a log-normal distribution than a normal distribution, I prefer the estimates with logarithms rather than levels.37

These estimates suggest that misinformation has actually lowered the migration rate because potential migrants overestimate mortality more than they overestimate earnings. If inexperienced potential migrants had true information on the mortality risk (1.3 per 1000 for two-year period instead of 27.57), migration would increase by 47 percentage points from its current level (assuming the effect are the same for large changes in perceptions). Similarly, if inexperienced potential migrants had the same net earnings expectations as the experienced ones ($9,660 instead of $12,270), migration would decrease by 5 percentage points. The net effect on migration would therefore be an increase of 42 percentage points – a remarkable 140 percent. Even assuming a much lower actual earnings of $6,000 for the inexperienced (since the expectations of the experienced are likely to be an upper bound on the counterfactual earnings), migration would still go up by by 31 percentage points (102 percent from the current level).

37 I cannot reject the null of normality for the log of both expectations in the untreated group using a Kolmogorov-Smirnov test. However, the more stringent forms of the test reject normality.
The VSL implied by this choice is the ratio of the marginal effect of the expectations on migration decision. For the logarithmic specifications, the estimates of VSL range from $0.28 million to $0.63 million, depending upon the different measures of migration used (top panel, Table 7). The VSL using the preferred measure of migration (Migrated-P) is estimated more precisely than others but the estimated magnitudes are quite similar. For the levels specification, the estimates of the VSL range from $0.43 million to $2.35 million for various measures of migration (bottom panel). The levels specification yields larger and noisier estimates than the logarithmic specifications. Except for the measure of migration with attrition problem (Migrated-B), all the estimates are statistically different from zero and qualitatively similar to their logarithmic counterparts. The VSL from the preferred measure with the levels specification is $0.54 million and its logarithmic counterpart is within one standard error from this estimate. 38

Comparison with estimates in the literature

It is hard to compare these estimates of VSL, estimated for the pool of potential international migrants from Nepal, to most estimates in the literature, which apply to the US labor market. As reviewed in Viscusi and Aldy (2003) and Cropper, Hammitt, and Robinson (2011), typical US estimates range from $5.5 million to $12.4 million (in 2014 US$).39 The preferred estimates in this study ranges from $0.28 million to $0.54 million ($0.97 million to $1.85 million in PPP$).40 It is reasonable to expect a lower VSL in the context of Nepal compared to the US as the average Nepali potential migrant has a much lower income: US GDP per capita is 23 times the GDP per capita of Nepal in PPP terms. In fact, several studies find the developing country estimates of the VSL are in general lower than the estimates from the US (in Viscusi and Aldy, 2003, for example).41 Nevertheless, the VSL estimates in this paper are a comparable proportions of the median household income in Nepal as the estimates in the US: 150 to 300 times the median household income in Nepal versus 100 to 250 times that in the US.

Estimates for populations outside the US, especially for developing countries, is quite rate and vary widely. For instance Kremer, Leino, Miguel, and Zwane (2011) estimate the VSL of less than $1000 based on the revealed willingness of Kenyan households to travel further for cleaner water. León and Miguel (2013) estimate a VSL of $0.6m to $0.9m from the revealed choices on transportation options while traveling to the international airport in Sierra Leone. Greenstone and Jack (2015) highlight the paucity of VSL estimates in developing countries and call for more research in developing revealed preference measures of the willingness to pay for lower mortality (through improving environment quality).

38 The 2-SLS estimation of equation (2) produces very similar point estimates for VSL but are estimated with larger standard errors (results in Appendix Table A.17).
39 Deflated using Urban CPI series.
40 Using PPP conversion factor (US$ to PPP$ for Nepal) of 3.45 from The World Bank.
41 Interestingly, the estimates of VSL from Greenstone, Ryan, and Yankovich (2014) ($0.18 million to $0.83 million in 2014 US$) are more in line with those from this study. However the VSL is expected to be much lower among US soldiers, who probably have higher preference for risky activities, than the average American. In fact, even within the soldiers, the authors find a lower VSL for those taking risky jobs.
6.3 Robustness to various points on the belief distribution

If potential migrants have uncertain priors about earnings and mortality rate while abroad, then they may not act as expected utility maximizers who maximize the probability weighted average of utilities in various states of the world. In such cases, the expected value of their beliefs may not be the right measure that influences their migration decision. It could be possible that people behave in an uncertainty-averse manner and use a different utility maximization rule. For instance, Gilboa and Schmeidler (1989) propose a max-min rule where agents maximize utility assuming the worst possible state. In this part, I explore robustness of the VSL estimates to using alternative points in their belief distribution.

Table 8 shows that the estimates in Section (6.2) are robust to a few alternative decision-making rules. In column 1, I assume that individuals are extremely cautious about migrating and assume the worst. That is, they assume that the actual mortality risk is the highest end of their belief distribution and the actual earnings, at the lowest. With this assumption, the estimated VSL is $0.16 million using the logarithmic specification and $0.37 million using the levels specification. These estimates are smaller than those in Table 7 but are unlikely to be statistically different. Similarly, column 3 assumes the opposite of column 2: that the individuals take the most optimistic view in making their migration decision. They assume that earnings are the highest end of the belief distribution and mortality is the lowest end of their belief distribution. With this assumption, the estimated VSL is slightly higher but statistically similar to the corresponding estimates in Table 7. Column 2 performs this exercise assuming that the midpoint of their belief distribution are the relevant parameters and column 5 does the same assuming that their most strongly held beliefs are the relevant parameters. Both of these exercises produce slightly lower estimates than Table 7, but well within a margin of statistical errors. This table suggests that the estimates of VSL are quite robust to alternative decision-making rules on migration with the estimates ranging between $0.16 million to $0.32 million with the logarithmic specification and $0.35 million to $0.61 million with the levels specifications.

6.4 Estimates of VSL for subgroups of inexperienced potential migrants

In this part, I present VSL estimates of equation (2) for various subgroups of the inexperienced potential migrants. Table 9 presents results of these estimates.

As Table 9 shows, the older half of the inexperienced potential migrants seem to have higher but less precisely estimated VSL than the younger ones (columns 1 and 2). The difference is driven by the differences in elasticities with which migration responds to changes in expectations. The implied elasticities of migration with respect to expected mortality and earnings are 0.4 and 0.2 respectively for the old whereas they are 0.6 and 1.1 for the young.

Columns (3) and (4) show the results bifurcated by education level. The low group refers to those with at most 8 years of schooling (below median) and the high group refers to the rest. Even the high education group is low-skill with average schooling of 10 years. The low education group has an average schooling of 5 years (median of 6 years). The low educated group is quite sensitive
to changes in expected mortality (elasticity of 0.6) but extremely insensitive to changes in expected earnings (elasticity of 0.05). Hence, this group has extremely large but imprecisely estimated VSL. Similarly, the more educated groups are also less sensitive to changes in expected earnings with an elasticity of 0.16. However, the earnings estimates are quite noisy. This subgroup analysis is less informative than the previous one as the responsiveness to changes in expected earnings is estimated with large standard errors. A change in specification (for example, using the levels instead of logarithms) or estimating the equation using 2SLS (as in Appendix Table A.19) does not improve precision of this estimate. It is possible that the responsiveness to expected earnings does not vary much by education (at least in this range of low schooling in the data) and hence, splitting the sample this way leads to nothing but a loss in statistical power.

Inexperienced workers who choose manual work have lower estimated VSL than those who pick non-manual work (column 5 and 6). It is important to note that even the jobs classified as non-manual are low-skilled, labor-intensive work as drivers, guards, security personnel, domestic workers, and hotel and restaurant workers. The difference between these two subgroups arises, again, from the difference in responsiveness to changes in expected earnings. The manual laborers are more than twice as responsive as the non-manual workers to changes in expected earnings with an elasticity of 1.0. Hence, this group has a lower VSL of $0.14 million compared to the workers in non-manual group with a (imprecisely estimated) VSL of $0.41 million.

7 Why is expected mortality rate so high?

Section 6.2 establishes that the estimated VSL are reasonable and that misinformation actually has led to lower migration in this context. At the implied willingness to trade off earnings for mortality rate, migration is suppressed because of extremely high expectations of mortality rate relative to the truth. In this section, I show that the high mortality rate expectation is a consequence of over-inference by potential migrants in response to actual migrant deaths rather than misreporting or an artifact of data collection method.

The instrumental variables estimate of the VSL and the migration elasticities are consistent even though the expectations are measured with error. The instrumental variables estimate also solves any measurement issue that can be modeled as an additive component (either in logarithmic or in levels of the expectations). Hence, I use the VSL and the elasticity estimates, along with my estimates from Shrestha (2016a) to infer the change in perceived mortality rate for potential migrants in response to a single migrant death.

In Shrestha (2016a), I find that, after controlling for an array of confounding fixed effects, one migrant death in a district reduces monthly migrant flow from that district by 0.9 percent for 12 months. This represents a total of 11 percent reduction of monthly migrant flow (albeit over a year) in response to a single death. I then calculate a one-time increase in migrant earnings necessary to induce the same number of potential migrants to migrate so that the net effect on migration is zero. Using the earnings elasticity of migration estimate of 0.7 from Section 6.2, I find that migrant
earnings need to increase by 15 percent. That is, a one-time increase in migrant earnings of 15 percent will offset the reduction in migrant flows caused by a single migrant death.

Finally, I use the estimate of VSL from Section 6.2, to translate the change in earnings to change in perceived mortality rate. I use the following discretized formulation of the VSL and the elasticities to do so,

\[ \Delta d = \Delta \frac{W}{VSL} = \frac{1}{VSL} \cdot \beta \cdot \frac{1}{\varepsilon} \cdot W \]  

where \( d \) represents the perceived probability of death and \( W \) is the average potential earnings from migration, \( \beta \) is the migration effect of the death, and \( \varepsilon \) is the earnings elasticity of migration. Using the preferred estimate of VSL and \( \frac{\beta}{\varepsilon} = 0.15 \) from above, I find that the change in perceived probability following a single death in the district is 6.7 per thousand.\(^{42}\)

The high perceived mortality rates expressed by the potential migrants are consistent with the effect on perceptions generated by a single death and their exposure to migrant deaths. The inexperienced potential migrants expect the mortality rate to be 27.6 per thousand per migration episode. From the estimates above, they only need 4.1 deaths in their district to generate this level of expected mortality rate starting form a prior of zero. In 2013, an average district experienced 4.3 deaths in five months, suggesting that such high level of mortality perception can be generated even if potential migrants are making decisions about mortality risks only based on past five months of migrant mortality incidences in their districts.

In Shrestha (2016a), I also find evidence that potential migrants react more adversely when there have been more migrant deaths in the recent past. Subsequent migrant flow falls more drastically in response to a migrant death in districts which have experienced many migrant deaths in the recent past compared to the response in districts which have experienced few migrant deaths in the recent past. That is, potential migrants seem to be over-weighting recent deaths in forming their priors on mortality rate. In Shrestha (2016a), I show that the amount of updating following a migrant death, and the responsiveness of updating recent deaths cannot be generated by a rational Bayesian learnings model. A model of a learning fallacy, the law of ‘small’ numbers, correctly predicts the over-inference result as well as the dependence on the number of deaths in the recent past (see Rabin, 2002, for mathematical formulation). Belief in the law of ‘small’ numbers, in conjunction with availability or other heuristic decision rule could also explain the high observed overestimation of mortality rate (as in Tversky and Kahneman, 1971, 1973; Kahneman and Tversky, 1974). One such heuristic explanation could be that potential migrants do not pay attention to migrant deaths unless they are actively thinking about migrating abroad, in which case they form their priors by observing migrant deaths in their districts in the past few months. Since they also commit the fallacy of believing in the law of ‘small’ numbers which makes them over-infer from recent information such as actual migrant deaths in the district or even the information provided in this study.

\(^{42}\) Assuming that each component of equation (3) is normally distributed with the estimated mean and variance, and also that these components are uncorrelated with each other, the standard error for the change in perceived mortality rate is 3.72. The calculation is robust to using VSL and elasticity estimate from the levels specification, which results in a change in perceived mortality rate of 5.8 per thousand.
Hence, the high expectation of mortality rate among potential migrants is consistent with the experience potential migrants probably have and the way they appear to process it. The large extent of misinformation seems to be driven by the fallacious way they form their priors on mortality rate abroad.

8 Conclusion

The gain from international migration is expected to be huge, but there could still be important non-institutional barriers to migration. I show that misinformation about both the rewards and risk associated with migration could be important deterrent, even in a context where a large share of population migrates for work. I find that potential work migrants from Nepal to Malaysia and the Persian Gulf countries overestimate their earnings potential as well as the mortality rate abroad. Contrary to the prevalent belief among policymakers, the extent of overestimation of mortality rate far outweighs the extent of overestimation of earnings. Individuals are not migrating recklessly by trading off high mortality risk for small increase in earnings: the estimated VSL of $0.28 million to $0.63 million, revealed from their decision to migrate, is quite reasonable for a poor population. Therefore, at their current willingness to trade off mortality risk with earnings, they would be more willing to migrate abroad if they had accurate information about the earnings and mortality risk abroad.

However, the reason for low migration in this study is distinct from those seen in the literature. Though misinformation on earnings has been documented previously in other contexts, most notably in McKenzie, Gibson, and Stillman (2013), misinformation on the risks of migration has not. This finding suggests that information frictions, particularly about risks that workers face abroad, could suppress migration substantially. Failing to take these into account could lead researchers to estimate high (fixed) costs of migration. In this regard, the estimated costs of migration have to be interpreted not just as monetary and psychic, but also as perceived cost, stemming from misinformation on earnings and, more importantly, risks.

Furthermore, in conjunction with my findings in Shrestha (2016a), I show that such misinformation on mortality rate may arise because of fallacious inference by potential migrants. I find they seem to drastically update their beliefs about the mortality rate in response to an actual death of a migrant. Furthermore, the response to a migrant death is larger when potential migrants have seen more migrant deaths in recent months. While models of rational Bayesian learning fail to generate the magnitude of updating or the dependence on recent migrant deaths, models of learning fallacy, such as the law of ‘small’ numbers, combined with some heuristic decision rules can explain the large observed overestimation.

Finally, this paper presents a novel and credible way to estimate the VSL of inexperienced potential work migrants from Nepal. I estimate the VSL by exploiting the exogenous variation in expectation of earnings and mortality risks generated by randomly provided information in a model of migration decision. Two features of this setting make this approach to estimating the
trade-off between earnings and mortality rate feasible. First, inexperienced potential migrants are misinformed about the mortality rate as well as earnings they could make abroad. Second, they are responsive to information provided to them and their migration choices reflect the changed perceptions induced by the information treatments. This approach could potentially be applied to other settings that meet the two criteria.
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Figures and Tables

Figures

Figure 1: Study setting in Department of Passport

Note: This picture shows the study setting at the Department of Passport in Kathmandu during January 2015. The people waiting to submit their passport applications are standing in line in front of several counters along the wall to the right. To the top left is the waiting area for applicants before they stand up in line in front of the counters. The foreground shows the area reserved exclusively for this study. People who finished submitting their application were approached and screened for feasibility for the study. Once they consent, they would be brought to this area for interviews.
Note: This figure shows samples of two cards shown to the respondents. The person receiving the card to the left wants to go to Malaysia. He got the general information on national flow of workers to Malaysia, the wage information of 2013 (‘high’ wage), and (‘low’) death information indicating the number of migrants who died in Malaysia and were from a pre-determined district.

The person receiving the card to the right wants to go to Qatar. He got the general information on national flow of workers to Qatar, and (‘high’) death information indicating the number of migrants who died in Qatar and were from a pre-determined district. This individual did not get any wage information.
Figure 3: Earnings expectations of potential migrants

Source: Author’s calculations on the survey data collected for this project.

Note: This figure shows the cumulative distribution function (cdf) of expected net earnings from migration for potential migrants in the control group (they do not receive any information on wages or deaths). The solid blue line plots the cdf for the inexperienced ones whereas the dashed red line plots the cdf for the experienced potential migrants.

“Inexperienced” refers to potential migrants who have not yet migrated for foreign employment. “Experienced” refers to potential migrants who have migrated in the past for foreign employment.

The means for these two groups are indicated in the figure by vertical lines and are labeled accordingly. The black vertical lines to the left show the level of information that was provided to the ‘high’ and ‘low’ wage treatment groups.
Figure 4: Misinformation on expected mortality rate among potential migrants

Source: Author’s calculations on the survey data collected for this project

Note: The figure shows the cumulative distribution function (cdf) of expected mortality rate abroad for potential migrants in the control group (they do not receive any information on wages or deaths). The solid blue line plots the cdf for the inexperienced ones whereas the dashed red line plots the cdf for the experienced potential migrants.

“Inexperienced” refers to potential migrants who have not yet migrated for foreign employment. “Experienced” refers to potential migrants who have migrated in the past for foreign employment.

The means for these two groups are indicated in the figure by vertical lines and are labeled accordingly. The short-dashed green vertical line represents the true mortality rate faced by the migrants. True mortality rate is computed using deaths data from the Foreign Employment Promotion Board and the migrant stock data from Census 2011. The black vertical lines to the left show the level of information that was provided to the ‘high’ and ‘low’ wage treatment groups and are labeled accordingly.

Tables

Table 1: Sample size by randomization groups

| Death Information treatment | None | ‘Low’ | ‘High’ | Total  |
|-----------------------------|------|-------|--------|--------|
| Wage information            |      |       |        |        |
| None                        | 376  | 354   | 384    | 1,114  |
| ‘Low’                       | 339  | 359   | 352    | 1,050  |
| ‘High’                      | 382  | 410   | 363    | 1,155  |
| Total                       | 1,097| 1,123 | 1,099  | 3,319  |

Note: This table shows the sample size in each of the information treatment cells. Within each of death and wage information, respondents were equally likely to receive no information, ‘low’ information, and ‘high’ information with equal probability. Death information was cross-randomized with wage information.
### Table 2: Effects of information treatments on expected mortality rate (per 1000 migrants)

|               | (1)  | (2)  | (3)  | (4)  | (5)  | (6)  |
|---------------|------|------|------|------|------|------|
| Death info: 'high' | 0.221 | -0.743 | -1.849 | -3.889 | 1.598 | 1.150 |
|               | (1.587) | (1.644) | (3.047) | (3.013) | (2.124) | (2.146) |
| Death info: 'low' | -4.327*** | -4.843*** | -7.413** | -8.081** | -2.250 | -3.020 |
|               | (1.733) | (1.708) | (3.247) | (3.221) | (2.071) | (2.344) |
| Wage info: 'high' | -0.843 | -1.218 | 2.098 | 1.781 | -2.899 | -4.198 |
|               | (1.678) | (1.680) | (2.931) | (3.179) | (2.586) | (2.812) |
| Wage info: 'low' | -0.626 | -0.699 | 2.209 | 2.580 | -3.125 | -2.817 |
|               | (1.843) | (1.846) | (2.991) | (3.028) | (2.889) | (2.955) |
| Controls      | NO   | YES  | NO   | YES  | NO   | YES  |
| Observations  | 3319 | 3319 | 1411 | 1411 | 1341 | 1341 |
| R-squared     | 0.003 | 0.087 | 0.005 | 0.112 | 0.004 | 0.118 |
| Control group mean | 21.276 | 27.570 | 17.417 |       |       |       |
| SD            | (39.973) | (51.029) |       |       |       |       |

Source: Author’s calculations on the survey data collected for this project.
Note: This table shows the impact of information treatments on expected mortality rate (per 1000 migrants) estimated using equation (1). Odd numbered columns do not have any controls, even numbered columns control for a full set of interaction of age categories, education categories, location and geography, full set of interaction of location, geography and administrative regions, destination fixed effects, and surveyor fixed effects. Standard errors, reported in parentheses, are clustered at the surveyor × date of interview level. “Inexperienced” refers to potential migrants who have not yet migrated for foreign employment. “Experienced” refers to potential migrants who have not yet migrated for foreign employment. “Inexperienced” refers to potential migrants who have not yet migrated for foreign employment. “Experienced” refers to potential migrants who have migrated in the past, but do not have an existing job contract abroad; it excludes those who are back home on leave from their work abroad. ***: p < 0.01; **: p < 0.05; *: p < 0.1

### Table 3: Effects of information treatments on expected net earnings (in USD ‘000)

|               | (1)  | (2)  | (3)  | (4)  | (5)  | (6)  |
|---------------|------|------|------|------|------|------|
| Death info: 'high' | -0.498* | -0.461* | -0.647 | -0.357 | -0.500 | -0.339 |
|               | (0.279) | (0.263) | (0.432) | (0.393) | (0.342) | (0.288) |
| Death info: 'low' | -0.160 | -0.069 | -0.604 | -0.193 | 0.157 | 0.118 |
|               | (0.243) | (0.229) | (0.433) | (0.333) | (0.327) | (0.299) |
| Wage info: 'high' | -0.280 | -0.459*** | -1.071** | -0.988*** | 0.238 | -0.034 |
|               | (0.260) | (0.211) | (0.426) | (0.339) | (0.297) | (0.251) |
| Wage info: 'low' | 0.072 | 0.007 | -0.858** | -0.402 | 0.557 | 0.241 |
|               | (0.270) | (0.213) | (0.416) | (0.328) | (0.342) | (0.312) |
| Controls      | NO   | YES  | NO   | YES  | NO   | YES  |
| Observations  | 3319 | 3319 | 1411 | 1411 | 1341 | 1341 |
| SD            | (38.183) | (11.122) |       |       |       |       |

Source: Author’s calculations on the survey data collected for this project.
Note: This table shows the impact of information treatments on expected net earnings from migration (in USD ‘000) estimated using equation (1). Odd numbered columns do not have any controls, even numbered columns control for a full set of interaction of age categories, education categories, location and geography, full set of interaction of location, geography and administrative regions, destination fixed effects, and surveyor fixed effects. Standard errors, reported in parentheses, are clustered at the surveyor × date of interview level. “Inexperienced” refers to potential migrants who have not yet migrated for foreign employment. “Experienced” refers to potential migrants who have not yet migrated for foreign employment. “Inexperienced” refers to potential migrants who have migrated in the past, but do not have an existing job contract abroad; it excludes those who are back home on leave from their work abroad. ***: p < 0.01; **: p < 0.05; *: p < 0.1
Table 4: Correlation between information treatments and various attrition measures

|                  | All (1) | Inexperienced (2) | Experienced (3) | (4) | (5) | (6) |
|------------------|---------|-------------------|-----------------|-----|-----|-----|
| Attrition F - did not conduct full follow-up survey |         |                   |                 |     |     |     |
| Death info: ‘high’ | 0.006   | 0.004             | -0.001          | 0.010| 0.016| 0.011|
| (0.016)          | (0.015) | (0.023)           | (0.025)         |     |     |     |
| Death info: ‘low’ | 0.031*  | 0.024             | 0.013           | 0.010| 0.063***| 0.048** |
| (0.016)          | (0.016) | (0.025)           | (0.026)         |     |     |     |
| Wage info: ‘high’| -0.031**| -0.030**          | -0.040*         | -0.039*| -0.021| -0.011|
| (0.015)          | (0.015) | (0.023)           | (0.023)         |     |     |     |
| Wage info: ‘low’ | 0.003   | -0.002            | 0.008           | -0.002| 0.011| 0.000 |
| (0.017)          | (0.017) | (0.025)           | (0.025)         |     |     |     |
| Controls         | NO      | YES               | NO              | YES | NO  | YES |
| Control group mean | 0.162  | 0.152             | 0.149           |     |     |     |
| SD               | (0.369) |                   | (0.360)         |     |     |     |
| Attrition M - do not know migration status |         |                   |                 |     |     |     |
| Death info: ‘high’ | 0.018   | 0.016             | 0.005           | 0.017| 0.025| 0.020|
| (0.015)          | (0.015) | (0.022)           | (0.023)         |     |     |     |
| Death info: ‘low’ | 0.037** | 0.029**           | 0.013           | 0.009| 0.068***| 0.056***|
| (0.015)          | (0.014) | (0.023)           | (0.023)         |     |     |     |
| Wage info: ‘high’| -0.031**| -0.030**          | -0.044**        | -0.042**| -0.015| -0.012|
| (0.014)          | (0.014) | (0.021)           | (0.021)         |     |     |     |
| Wage info: ‘low’ | -0.003  | -0.005            | -0.013          | -0.024| 0.015| 0.004 |
| (0.015)          | (0.015) | (0.023)           | (0.023)         |     |     |     |
| Controls         | NO      | YES               | NO              | YES | NO  | YES |
| Control group mean | 0.130  | 0.127             | 0.112           |     |     |     |
| SD               | (0.337) |                   | (0.334)         |     |     |     |
| Attrition W - Wrong numbers or refused to interview |         |                   |                 |     |     |     |
| Death info: ‘high’ | 0.002   | 0.001             | -0.002          | 0.001| -0.003| -0.000|
| (0.008)          | (0.008) | (0.012)           | (0.012)         |     |     |     |
| Death info: ‘low’ | 0.004   | 0.002             | -0.003          | -0.003| 0.014| 0.013 |
| (0.009)          | (0.009) | (0.013)           | (0.013)         |     |     |     |
| Wage info: ‘high’| -0.001  | 0.000             | -0.011          | -0.005| -0.001| 0.005 |
| (0.007)          | (0.008) | (0.011)           | (0.011)         |     |     |     |
| Wage info: ‘low’ | 0.003   | 0.004             | 0.009           | 0.014| -0.006| -0.010|
| (0.007)          | (0.007) | (0.013)           | (0.013)         |     |     |     |
| Controls         | NO      | YES               | NO              | YES | NO  | YES |
| Control group mean | 0.040  | 0.036             | 0.043           |     |     |     |
| SD               | (0.196) |                   | (0.188)         |     |     |     |

Source: Author’s calculations on the survey data collected for this project

Note: This table checks whether the three measures of attrition are correlated with information treatments using equation (1). The heading of each panel indicates and defines the measure of migration. Odd numbered columns do not have any controls, even numbered columns control for a full set of interaction of age categories, education categories, location and geography, full set of interaction of location, geography and administrative regions, destination fixed effects, and surveyor fixed effects. Standard errors, reported in parentheses, are clustered at the surveyor × date of interview level. “Inexperienced” refers to potential migrants who have not yet migrated for foreign employment. “Experienced” refers to potential migrants who have migrated in the past, but do not have an existing job contract abroad; it excludes those who are back home on leave from their work abroad. ***: p < 0.01; **: p < 0.05; *: p < 0.1
Table 5: Effects of information treatments on actual migration

|                     | All (1) | Inexperienced (2) | Experienced (3) |   |   |   |
|---------------------|---------|-------------------|-----------------|---|---|---|
| **Effect on preferred measure of migration, Migrated-P** |         |                   |                 |   |   |   |
| Death info: ‘high’ | 0.036*  | 0.040**           | 0.019           | 0.034 | 0.056 | 0.044 |
|                     | (0.020) | (0.019)           | (0.029)         | (0.030) | (0.034) | (0.038) |
| Death info: ‘low’  | 0.062***| 0.071***          | 0.069**         | 0.072** | 0.095*** | 0.088*** |
|                     | (0.021) | (0.020)           | (0.031)         | (0.031) | (0.030) | (0.032) |
| Wage info: any     | -0.008  | -0.015            | -0.057**        | -0.067** | 0.022 | 0.018 |
|                     | (0.019) | (0.018)           | (0.027)         | (0.029) | (0.029) | (0.031) |
| Controls           | NO      | YES               | NO              | YES | NO | YES |
| Observations       | 3210    | 3210              | 1364            | 1364 | 1297 | 1297 |
| R-squared          | 0.003   | 0.240             | 0.007           | 0.136 | 0.007 | 0.168 |
| Control group mean | 0.410   |                   | 0.308           |       | 0.370 |       |
| SD                 | (0.493) |                   | (0.463)         |       | (0.484) |       |

|                     |         |                   |                 |   |   |   |
| **Effect on alternative measure of migration, Migrated-A** |         |                   |                 |   |   |   |
| Death info: ‘high’ | 0.036*  | 0.040**           | 0.017           | 0.033 | 0.052 | 0.043 |
|                     | (0.019) | (0.018)           | (0.029)         | (0.030) | (0.034) | (0.037) |
| Death info: ‘low’  | 0.062***| 0.071***          | 0.064**         | 0.068** | 0.100*** | 0.094*** |
|                     | (0.020) | (0.019)           | (0.031)         | (0.031) | (0.030) | (0.031) |
| Wage info: any     | -0.008  | -0.015            | -0.056**        | -0.062** | 0.019 | 0.016 |
|                     | (0.019) | (0.018)           | (0.027)         | (0.029) | (0.028) | (0.030) |
| Controls           | NO      | YES               | NO              | YES | NO | YES |
| Observations       | 3319    | 3319              | 1411            | 1411 | 1341 | 1341 |
| R-squared          | 0.003   | 0.226             | 0.006           | 0.138 | 0.007 | 0.163 |
| Control group mean | 0.434   |                   | 0.333           |       | 0.398 |       |
| SD                 | (0.496) |                   | (0.473)         |       | (0.491) |       |

|                     |         |                   |                 |   |   |   |
| **Effect on basic measure of migration, Migrated-B** |         |                   |                 |   |   |   |
| Death info: ‘high’ | 0.028   | 0.032*            | 0.016           | 0.023 | 0.039 | 0.026 |
|                     | (0.020) | (0.019)           | (0.028)         | (0.030) | (0.034) | (0.038) |
| Death info: ‘low’  | 0.045** | 0.060***          | 0.063**         | 0.069** | 0.063** | 0.068* |
|                     | (0.021) | (0.020)           | (0.030)         | (0.030) | (0.032) | (0.035) |
| Wage info: any     | 0.004   | -0.004            | -0.039          | -0.044 | 0.023 | 0.020 |
|                     | (0.019) | (0.018)           | (0.025)         | (0.028) | (0.030) | (0.031) |
| Controls           | NO      | YES               | NO              | YES | NO | YES |
| Observations       | 2877    | 2877              | 1242            | 1242 | 1181 | 1181 |
| R-squared          | 0.002   | 0.264             | 0.006           | 0.132 | 0.004 | 0.177 |
| Control group mean | 0.349   |                   | 0.236           |       | 0.322 |       |
| SD                 | (0.477) |                   | (0.426)         |       | (0.469) |       |

Source: Author’s calculations on the survey data collected for this project.
Note: This table shows the impact of information treatments on various measures of migration, estimated using equation (1). The heading of each panel indicates and defines the measure of migration. Odd numbered columns do not have any controls, even numbered columns control for a full set of interaction of age categories, education categories, location and geography, full set of interaction of location, geography and administrative regions, destination fixed effects, and surveyor fixed effects. Standard errors, reported in parentheses, are clustered at the surveyor × date of interview level. “Inexperienced” refers to potential migrants who have not yet migrated for foreign employment. “Experienced” refers to potential migrants who have migrated in the past, but do not have an existing job contract abroad; it excludes those who are back home on leave from their work abroad. ***: p < 0.01; **: p < 0.05; *: p < 0.1
Table 6: Lee (2009) bounds of treatment effect on basic migration (Migrated-B)

|                | Death Info |             | Wage info |             |
|----------------|------------|-------------|-----------|-------------|
|                | High (1)   | Low (2)     | Any (3)   |             |
| Sample: All    | Lower bound|             |           |             |
|                | 0.021      | 0.030       | -0.006    |             |
|                | (0.024)    | (0.024)     | (0.022)   |             |
|                | Upper bound|             |           |             |
|                | 0.043*     | 0.073***    | 0.013     |             |
|                | (0.025)    | (0.025)     | (0.021)   |             |
| 95 % CI        | [-0.019 0.085] | [-0.010 0.115] | [-0.043 0.048] | |
| Sample: Inexperienced | Lower bound |             |           |             |
|                | 0.015      | 0.063**     | -0.063**  |             |
|                | (0.030)    | (0.031)     | (0.032)   |             |
|                | Upper bound|             |           |             |
|                | 0.022      | 0.077**     | -0.031    |             |
|                | (0.035)    | (0.036)     | (0.028)   |             |
| 95 % CI        | [-0.041 0.088] | [0.006 0.143] | [-0.117 0.016] | |
| Sample: Experienced | Lower bound |             |           |             |
|                | 0.027      | 0.040       | 0.023     |             |
|                | (0.036)    | (0.037)     | (0.031)   |             |
|                | Upper bound|             |           |             |
|                | 0.056      | 0.121***    | 0.029     |             |
|                | (0.039)    | (0.041)     | (0.033)   |             |
| 95 % CI        | [-0.035 0.122] | [-0.022 0.189] | [-0.035 0.092] | |

Source: Author's calculations on the survey data collected for this project

Note: This table shows the estimated Lee (2009) bounds for the basic definition of migration (Migrated-B). See Table 5 and the text for the definition of Migrated-B. Each column in each panel represents a separate estimation of the bounds. Each estimation is performed on the sample of the treatment group indicated by the column heading and the control group. For each estimation a lower bound, an upper bound is reported with standard errors in parentheses. The 95% confidence interval on the bounds is reported in brackets. “Inexperienced” refers to potential migrants who have not yet migrated for foreign employment. “Experienced” refers to potential migrants who have migrated in the past, but do not have an existing job contract abroad; it excludes those who are back home on leave from their work abroad. *** : p < 0.01; ** : p < 0.05; * : p < 0.1
Table 7: Binary choice instrumental variable estimates of VSL for inexperienced potential migrants

|                               | Migrated - P Preferred (1) | Migrated - A Alternative (2) | Migrated - B Basic (3) |
|--------------------------------|----------------------------|------------------------------|------------------------|
| Log(expected mortality per 1000) | **-0.485*** (0.040)        | **-0.460*** (0.068)          | **-0.513*** (0.043)    |
| Log(expected net earnings, USD '000) | **0.699*** (0.099)        | 0.768*** (0.137)            | **0.332*** (0.087)    |
| VSL (in '000 USD)                | **282.412*** (50.938)     | 245.497*** (75.040)         | 632.501*** (188.667)  |

**Logarithmic specification**

| Marginal Effects | Log(expected mortality per 1000) | Log(expected net earnings, USD '000) |
|------------------|---------------------------------|-------------------------------------|
|                  | **-0.155*** (0.011)            | **0.224*** (0.031)                  |
|                  | **-0.149*** (0.020)            | 0.248*** (0.046)                    |
|                  | **-0.160*** (0.012)           | 0.103*** (0.027)                    |

| Levels specification | Expected mortality (per 1000) | Expected net earnings (USD '000) |
|----------------------|--------------------------------|---------------------------------|
| Coefficients        |                               |                                 |
|                      | **-0.017*** (0.002)           | 0.031** (0.013)                 |
|                      | **-0.016*** (0.001)          | 0.038*** (0.007)                |
|                      | **-0.017*** (0.002)          | 0.007 (0.013)                   |

| Marginal Effects | Expected mortality (per 1000) | Expected net earnings (USD '000) |
|------------------|--------------------------------|---------------------------------|
|                  | **-0.006*** (0.001)           | 0.011** (0.005)                 |
|                  | **-0.006*** (0.000)          | 0.013*** (0.003)                |
|                  | **-0.006*** (0.001)          | 0.003 (0.005)                   |

| VSL (in '000 USD) |                 |                       |
|-------------------|-----------------|-----------------------|
|                   | **538.220*** (264.302) | 430.156*** (94.444) |
|                   | **2354.663** (4471.196) |

Source: Author’s calculations on the survey data collected for this project

Note: This table shows instrumented probit estimates of the effect of expected earnings and expected mortality rate on migration choices of inexperienced potential migrants, estimated using equation (2). Information treatments are used as instruments for expected earnings and expected mortality. The heading of each column indicates the measure of migration used as the outcome variable. See text and Table 5 for the definition of these measures. The heading of each panel indicates whether the logarithm or levels of expectations is used in the estimation. Coefficients of estimations as well as marginal effects are reported with standard errors in parentheses. Standard errors are clustered at the surveyor × date of interview level. The bottom of each panel presents the VSL, which is estimated as the ratio of two marginal effects. Standard errors for the VSL are computed using the delta method. ***: p < 0.01; **: p < 0.05; *: p < 0.1
Table 8: Robustness in estimates of VSL under some alternative utility maximization rule

|                         | Least optimistic | Median   | Most optimistic | Most likely (modal) |
|-------------------------|------------------|----------|-----------------|--------------------|
|                         | (1)              | (2)      | (3)             | (4)                |
| **Logarithmic specification** |                  |          |                 |                    |
| **Coefficients**        |                  |          |                 |                    |
| Beliefs on mortality risk per 1000 | -0.484*** | -0.477*** | -0.431***       | -0.438***          |
| (0.113)                 | (0.028)          | (0.053)  |                 | (0.047)            |
| Beliefs on net earnings, USD '000 | 0.767*** | 0.807*** | 0.781***        | 0.824***           |
| (0.166)                 | (0.107)          | (0.071)  |                 | (0.113)            |
| **Marginal Effects**    |                  |          |                 |                    |
| Beliefs on mortality risk per 1000 | -0.155*** | -0.152*** | -0.139***       | -0.139***          |
| (0.033)                 | (0.008)          | (0.015)  |                 | (0.013)            |
| Beliefs on net earnings, USD '000 | 0.246*** | 0.257*** | 0.251***        | 0.262***           |
| (0.057)                 | (0.032)          | (0.022)  |                 | (0.035)            |
| VSL (in '000 USD)       | 157.360**        | 238.197*** | 322.092***    | 215.996***         |
| (68.405)                | (36.457)         | (54.377) |                 | (46.097)           |
| **Levels specification** |                  |          |                 |                    |
| **Coefficients**        |                  |          |                 |                    |
| Beliefs on mortality risk per 1000 | -0.013*** | -0.017*** | -0.021***       | -0.016***          |
| (0.001)                 | (0.003)          | (0.002)  |                 | (0.001)            |
| Beliefs on net earnings, USD '000 | 0.034**  | 0.048*** | 0.034***        | 0.051***           |
| (0.014)                 | (0.015)          | (0.010)  |                 | (0.006)            |
| **Marginal Effects**    |                  |          |                 |                    |
| Beliefs on mortality risk per 1000 | -0.005*** | -0.006*** | -0.007***       | -0.006***          |
| (0.000)                 | (0.001)          | (0.001)  |                 | (0.000)            |
| Beliefs on net earnings, USD '000 | 0.012*** | 0.017*** | 0.012***        | 0.018***           |
| (0.005)                 | (0.005)          | (0.003)  |                 | (0.002)            |
| VSL (in '000 USD)       | 368.865**        | 353.220** | 613.984***    | 320.578***         |
| (158.346)               | (154.951)        | (196.121)|                 | (35.699)           |

Source: Author’s calculations on the survey data collected for this project.

Note: This table shows instrumented probit estimates of the effect of beliefs on earnings and mortality rate on migration choices of inexperienced potential migrants, estimated using equation (2). The preferred measure of migration (Migrated-P) is used as the dependent variable. Information treatments are used as instruments for beliefs on earnings and mortality rate. Instead of using the expected value of their beliefs as the variables of interest, this table takes different points in these belief distributions based on assumptions on the relevant decision-making parameters.

The first column assumes that potential migrants are least optimistic about migration while making their migration decision. They take the maximum of their belief distribution on mortality rate and the minimum of their belief distribution on net earning as the relevant parameter in their migration decision.

The second column assumes that potential migrants make migration choices by taking the median of their belief distributions. They take the minimum of their belief distribution on mortality rate and the maximum of their belief distribution on net earnings as the relevant parameter in their migration decision.

The third column assumes that potential migrants are most optimistic about migration while making their migration decision. They take the most likely points in their belief distribution on mortality rate and the maximum of their belief distribution on net earnings as the relevant parameter in their migration decision.

The fourth column assumes that potential migrants take the most likely points in their belief distribution as the relevant parameters for their migration decision.

The heading of each panel indicates whether the logarithm or levels of expectations is used in the estimation. Coefficients of estimations as well as marginal effects are reported with standard errors in parentheses. Standard errors are clustered at the surveyor × date of interview level. VSL is estimated as the ratio of two marginal effects and its standard error computed using the delta method. ***: p < 0.01; **: p < 0.05; *: p < 0.1
Table 9: Binary choice instrumental variable estimates of VSL for subgroups

|                | Old (1) | Young (2) | Low educ (3) | High educ (4) | Manual (5) | Non-manual (6) |
|----------------|---------|-----------|--------------|--------------|------------|----------------|
| **Logarithmic specification** |         |           |              |              |            |                |
| **Coefficients** |         |           |              |              |            |                |
| Log(expected mortality per 1000) | -0.334*** | -0.607*** | -0.716*** | -0.287*** | -0.540*** | -0.428*** |
| (0.106)          | (0.020) | (0.032)   | (0.041)      | (0.025)      | (0.059)    |                |
| Log(expected net earnings, USD '000) | 0.232    | 1.135***  | 0.063        | 0.127        | 1.201***   | 0.492          |
| (0.295)          | (0.173) | (0.092)   | (0.110)      | (0.123)      | (0.508)    |                |
| Log(expected mortality per 1000) | -0.115*** | -0.180*** | -0.216*** | -0.093*** | -0.163*** | -0.139*** |
| (0.034)          | (0.005) | (0.006)   | (0.013)      | (0.006)      | (0.017)    |                |
| Log(expected net earnings, USD '000) | 0.080    | 0.336***  | 0.019        | 0.041        | 0.362***   | 0.160          |
| (0.102)          | (0.043) | (0.028)   | (0.035)      | (0.032)      | (0.161)    |                |
| **Levels specification** |         |           |              |              |            |                |
| **Coefficients** |         |           |              |              |            |                |
| Log(expected mortality per 1000) | -0.015   | -0.016*** | -0.020*** | -0.011*** | -0.007*** | -0.012** |
| (0.010)          | (0.001) | (0.000)   | (0.003)      | (0.000)      | (0.006)    |                |
| Log(expected net earnings, USD '000) | 0.011    | 0.077***  | 0.010        | -0.034*      | 0.209***   | 0.014          |
| (0.015)          | (0.015) | (0.011)   | (0.018)      | (0.001)      | (0.021)    |                |
| Log(expected mortality per 1000) | -0.006   | -0.005*** | -0.007*** | -0.004*** | -0.002*** | -0.004** |
| (0.004)          | (0.000) | (0.000)   | (0.001)      | (0.000)      | (0.002)    |                |
| Log(expected net earnings, USD '000) | 0.004    | 0.026***  | 0.004        | -0.011**     | 0.063***   | 0.005          |
| (0.005)          | (0.005) | (0.004)   | (0.006)      | (0.000)      | (0.007)    |                |
| **Marginal Effects** |         |           |              |              |            |                |
| Log(expected mortality per 1000) | -0.115*** | -0.180*** | -0.216*** | -0.093*** | -0.163*** | -0.139*** |
| (0.034)          | (0.005) | (0.006)   | (0.013)      | (0.006)      | (0.017)    |                |
| Log(expected net earnings, USD '000) | 0.080    | 0.336***  | 0.019        | 0.041        | 0.362***   | 0.160          |
| (0.102)          | (0.043) | (0.028)   | (0.035)      | (0.032)      | (0.161)    |                |
| **VSL (in '000 USD)** | 691.685  | 176.361*** | 3784.212     | 1098.457     | 142.562*** | 411.008       |
| (989.257)        | (25.987)| (5476.132) | (931.811)    | (16.757)     | (411.136)  |                |

Source: Author’s calculations on the survey data collected for this project

Note: This table shows instrumented probit estimates of the effect of expected earnings and expected mortality rate on migration choices for various subgroups of inexperienced potential migrants, estimated using equation (2). The preferred measure of migration (Migrated-P) is used as the dependent variable. Information treatments are used as instruments for beliefs on earnings and mortality rate in all cases. “Old” refers to those who are 21 years or higher, and “Young” refers to the rest. 58 percent of the sample is old. “Low educ” refers to those who have 8 or fewer years of schooling, and “High educ” refers to the rest. 50 percent of the sample has low education. “Manual” refers to those who want to migrate as construction or other manual labor work, and “Non-manual” refers to the rest who migrate for other low-skill work. 38 percent of sample wants to migrate for manual work. The heading of each panel indicates whether the logarithm or levels of expectations is used in the estimation. Coefficients of estimations as well as marginal effects are reported with standard errors in parentheses. Standard errors are clustered at the surveyor x date of interview level. VSL is estimated as the ratio of two marginal effects and its standard error computed using the delta method. ****: p < 0.01; ***: p < 0.05; *: p < 0.1
Appendix A  Figures and Tables

A.I  Figures

Figure A.1:  Permits granted by DoFE for work abroad

Source:  Author’s calculation on the data provided by Department of Foreign Employment (DoFE).
Note:  This figure shows the number of work-permits issued by DoFE for work abroad by year and destination country.
Figure A.2: Quantile treatment effects of information treatments on expected mortality for inexperienced potential migrants

Source: Author’s calculations on the survey data collected for this project
Note: Figure shows the Least Absolute Deviation estimates of equation (1) on expected mortality rate at each decile for the group of inexperienced potential migrants. Point estimates are shown as red dots with 95% confidence bands in blue. The estimates control for destination fixed effects, fixed effects for schooling categories, age categories, location and geography. The figure consolidates estimates from 9 different estimates at each decile.
Figure A.3: Quantile treatment effects of information treatment on expected net earnings for inexperienced potential migrants

Source: Author’s calculations on the survey data collected for this project
Note: Figure shows the Least Absolute Deviation estimates of equation (1) on expected net earnings at each decile for the group of inexperienced potential migrants. Point estimates are shown as red dots with 95% confidence bands in blue. The estimates control for destination fixed effects, fixed effects for schooling categories, age categories, location and geography. The figure consolidates estimates from 9 different estimates at each decile.

**A.II Tables**

Table A.1: International migration from Nepal and remittance income

| Year | Migrant/Population share | Remittance Income | % of GDP |
|------|--------------------------|------------------|----------|
|      | All  | India | Non-India |        |
| 1961 | 3.49 |
| 1981 | 2.68 | 2.48  | 0.19     |
| 1991 | 3.56 | 3.17  | 0.37     | 1.5     |
| 2001 | 3.41 | 2.61  | 0.78     | 2.4     |
| 2011 | 7.43 | 2.80  | 4.63     | 22.4    |

Source: Migrant/Population share from the Census reports for respective years, Remittance as a share of GDP from the World Development Indicator database (The World Bank)
Note: This table shows the migrant to population share for each of the census years since 1961. It also shows the share broken down by destination. The last column shows the personal remittance income as a share of national GDP for the years available.
|                                | Census (2011) mean/(SD) | Survey Data mean/(SD) | Inexperienced mean/(SD) | Experienced mean/(SD) | On leave mean/(SD) |
|--------------------------------|--------------------------|------------------------|-------------------------|-----------------------|-------------------|
|                                | (1)                      | (2)                    | (3)                     | (4)                   | (5)               |
| **Demographics**               |                          |                        |                         |                       |                   |
| **Age**                        | 27.171                   | 27.573                 | 23.502                  | 29.966                | 32.040 |
|                                | (6.944)                  | (7.148)                | (5.883)                 | (6.402)               | (6.433) |
| **Completed Education**        | 7.189                    | 7.469                  | 7.777                   | 7.046                 | 7.706 |
|                                | (3.418)                  | (3.532)                | (3.409)                 | (3.582)               | (3.618) |
| **Geography and Location**    |                          |                        |                         |                       |                   |
| **Hills and Mountain**         | 0.495                    | 0.501                  | 0.517                   | 0.472                 | 0.530 |
|                                | (0.500)                  | (0.500)                | (0.500)                 | (0.499)               | (0.500) |
| **Southern Plain (Terai)**     | 0.505                    | 0.499                  | 0.483                   | 0.528                 | 0.470 |
|                                | (0.500)                  | (0.500)                | (0.500)                 | (0.499)               | (0.500) |
| **Urban**                      | 0.113                    | 0.083                  | 0.073                   | 0.088                 | 0.093 |
|                                | (0.317)                  | (0.275)                | (0.260)                 | (0.283)               | (0.291) |
| **Eastern Region**             | 0.333                    | 0.276                  | 0.245                   | 0.293                 | 0.315 |
|                                | (0.471)                  | (0.447)                | (0.430)                 | (0.455)               | (0.465) |
| **Central Region**             | 0.281                    | 0.373                  | 0.413                   | 0.366                 | 0.287 |
|                                | (0.450)                  | (0.484)                | (0.493)                 | (0.482)               | (0.453) |
| **Western Region**             | 0.292                    | 0.159                  | 0.074                   | 0.180                 | 0.324 |
|                                | (0.455)                  | (0.366)                | (0.261)                 | (0.384)               | (0.468) |
| **Mid/Far Western Region**     | 0.094                    | 0.192                  | 0.269                   | 0.160                 | 0.074 |
|                                | (0.291)                  | (0.394)                | (0.443)                 | (0.367)               | (0.262) |
| **Destination Country**        |                          |                        |                         |                       |                   |
| **Malaysia**                   | 0.264                    | 0.255                  | 0.359                   | 0.204                 | 0.118 |
|                                | (0.441)                  | (0.436)                | (0.480)                 | (0.403)               | (0.323) |
| **Qatar**                      | 0.296                    | 0.232                  | 0.201                   | 0.231                 | 0.310 |
|                                | (0.457)                  | (0.422)                | (0.401)                 | (0.421)               | (0.463) |
| **Saudi Arabia**               | 0.245                    | 0.198                  | 0.135                   | 0.212                 | 0.319 |
|                                | (0.430)                  | (0.398)                | (0.342)                 | (0.409)               | (0.466) |
| **U.A.E.**                     | 0.138                    | 0.230                  | 0.232                   | 0.239                 | 0.208 |
|                                | (0.345)                  | (0.421)                | (0.422)                 | (0.427)               | (0.406) |
| **Other destinations**         | 0.056                    | 0.085                  | 0.073                   | 0.115                 | 0.046 |
|                                | (0.231)                  | (0.279)                | (0.260)                 | (0.319)               | (0.209) |

Source: Author’s calculations using 2011 Housing and Population Census Public Use Microdata Sample and the survey data collected for this project.

Note: This table presents the descriptive statistics of the absentee population in the 2011 Housing and Population Census (column 1) and the study sample (columns 2 - 5). The Housing and Population Census of Nepal defines absentee population as “persons away or absent from birth place or usual place [of residence] for employment or study or business purpose [abroad]”. Columns 3-5 presents the descriptive statistics by subgroups of the study sample. “Inexperienced” refers to potential migrants who have not yet migrated for foreign employment. “Experienced” refers to potential migrants who have migrated in the past, but do not have an existing job contract abroad. “On leave” refers to potential migrants who are back home on leave from their work abroad.
### Table A.3: Description of information provided to the subjects

| Destination Countries | Malaysia | Qatar | Saudi Arabia | U.A.E | Kuwait |
|------------------------|----------|-------|--------------|-------|--------|
| Monthly flow           | 14,100   | 8,300 | 6,500        | 4,200 | 700    |
| Wage ‘High’ (NPR)      | 24,500   | 25,000| 23,000       | 26,000| 26,500 |
| Wage ‘Low’ (NPR)       | 12,500   | 15,500| 13,500       | 19,000| 15,000 |
| Death ‘High’           | 9        | 8     | 9            | 3     | 2      |
| Death ‘Low’            | 2        | 1     | 2            | 1     | 1      |

Note: This table presents the exact nature of information provided to the participants. Each row lists the information provided in each of the treatment groups for potential migrants to the Destination countries listed in the columns. Monthly flow is the average number of work-related migrants leaving Nepal every month in 2013. Wage information is provided as monthly wages in Nepali Rupees (exchange rate US$ 1 = NPR 100). Death information provided indicates the number of deaths that occurred in a pre-determined district in 2013.
Table A.4: Randomization balance table: Death

| Demographics          | Death information | Low' - None | 'High' - None | 'High' - Low' | Joint test |
|-----------------------|-------------------|-------------|---------------|---------------|-----------|
|                       | None (1) | 'Low' (2) | 'High' (3) | b/(se) (4) | b/(se) (5) | b/(se) (6) | F/(p) (7) |
| Age                   | 27.919 | 27.585 | 27.216 | −0.334 | −0.703** | −0.369 | 2.662 |
| Completed education   | 7.462 | 7.498 | 7.448 | 0.036 | −0.014 | −0.050 | 0.059 |
| Migrated before       | 0.590 | 0.576 | 0.559 | −0.014 | −0.031 | −0.017 | 1.092 |
| Heard of deaths       | 0.213 | 0.260 | 0.244 | 0.046** | 0.031 | −0.015 | 1.983 |
| On leave              | 0.308 | 0.277 | 0.309 | −0.031 | 0.002 | 0.033 | 1.038 |

| Geography and location|          |            |             |            |          |          |
|-----------------------|-----------------|-------------|----------------|-------------|-----------|
| Eastern               | 0.285 | 0.267 | 0.277 | −0.018 | −0.009 | 0.009 | 0.459 |
| Central               | 0.366 | 0.382 | 0.369 | 0.016 | −0.003 | −0.013 | 0.325 |
| Western               | 0.167 | 0.159 | 0.152 | −0.007 | −0.015 | −0.007 | 0.452 |
| Mid/Far Western       | 0.181 | 0.191 | 0.202 | 0.010 | 0.021 | 0.011 | 0.752 |
| Southern plain (Terai)| 0.489 | 0.492 | 0.517 | 0.004 | 0.028 | 0.024 | 1.032 |
| Urban                 | 0.074 | 0.092 | 0.082 | 0.018 | 0.008 | −0.010 | 1.176 |

| Chosen destination    |          |            |             |            |          |          |
| Malaysia              | 0.256 | 0.246 | 0.263 | −0.010 | 0.007 | 0.017 | 0.439 |
| Qatar                 | 0.218 | 0.231 | 0.247 | 0.013 | 0.029 | 0.016 | 1.277 |
| Saudi Arabia          | 0.201 | 0.198 | 0.194 | −0.004 | −0.008 | −0.004 | 0.101 |
| U.A.E                 | 0.242 | 0.231 | 0.218 | −0.012 | −0.024 | −0.012 | 0.899 |
| Other                 | 0.082 | 0.095 | 0.078 | 0.013 | −0.004 | −0.017 | 1.141 |

Joint test across all regressions: F-stat 0.878
p-value 0.650

Source: Author’s calculations on the survey data collected for this project
Note: This table checks whether death information treatments are correlated with characteristics collected prior to the treatment. The first three columns show the mean and standard deviations of the variables for each treatment arm. The next three columns show the difference between the two groups and the standard errors of the difference. The column heading indicates which arms are being compared. Column 7 tests whether the three arms have the same mean. The bottom of the panel presents the F-statistic and the associated p-value for a joint test of equality of all outcomes across all treatment arms. ***: p < 0.01; **: p < 0.05; *: p < 0.1
Table A.5: Randomization balance table: Wage

|                | Wage information | 'Low' - | 'High' - | Joint test |
|----------------|------------------|---------|----------|------------|
|                | None (mean/(sd)) | 'Low' (b/(se)) | 'High' (b/(se)) | F/(p) |
| Demographics   |                  |         |          |            |
| Age            | 27.747 (7.126)   | -0.609** | 0.054    | 0.663**    | 2.863 |
| Completed education | 7.327 (3.551)   | 0.215   | 0.005    | 0.022      | 1.308 |
| Migrated before | 0.578 (0.494)    | -0.016  | 0.025    | 0.034      | 0.956 |
| Heard of deaths | 0.244 (0.430)    | -0.005  | -0.009   | -0.005     | 0.079 |
| On leave       | 0.278 (0.448)    | 0.025   | 0.034    | 0.008      | 0.964 |
| Geography and location |        |         |          |            |
| Eastern        | 0.276 (0.447)    | -0.000  | 0.002    | 0.003      | 0.102 |
| Central        | 0.359 (0.480)    | 0.030   | 0.012    | -0.017     | 1.012 |
| Western        | 0.162 (0.368)    | -0.011  | 0.004    | 0.015      | 0.485 |
| Mid/Far Western| 0.204 (0.403)    | -0.018  | -0.018   | -0.000     | 0.798 |
| Southern plain (Terai) | 0.525 (0.500) | -0.028  | -0.049** | -0.021     | 2.732 |
| Urban          | 0.075 (0.264)    | 0.015   | 0.007    | -0.008     | 0.811 |
| Chosen destination |        |         |          |            |
| Malaysia       | 0.247 (0.431)    | 0.009   | 0.015    | 0.005      | 0.325 |
| Qatar          | 0.240 (0.427)    | -0.011  | -0.013   | -0.002     | 0.304 |
| Saudi Arabia   | 0.194 (0.396)    | -0.006  | 0.016    | 0.023      | 0.973 |
| U.A.E          | 0.225 (0.418)    | 0.015   | 0.002    | -0.013     | 0.395 |
| Other          | 0.094 (0.292)    | -0.007  | -0.020*  | -0.013     | 1.479 |

Joint test across all regressions: F-stat 0.990
p-value 0.480

Source: Author’s calculations on the survey data collected for this project
Note: This table checks whether wage information treatments are correlated with characteristics collected prior to the treatment. The first three columns show the mean and standard deviations of the variables for each treatment arm. The next three columns show the difference between the two groups and the standard errors of the difference. The column heading indicates which groups are being compared. Column 7 tests whether the three arms have the same mean. The bottom of the panel presents the F-statistic and the associated p-value for a joint test of equality of all outcomes across all treatment arms. **: p < 0.05; ***: p < 0.01; **: p < 0.05; *: p < 0.1

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Table A.6: Randomization balance table for inexperienced potential migrants: Death

|                        | Death information | 'Low' - | 'High' - | Joint test | F/(p) |
|------------------------|-------------------|---------|----------|------------|-------|
|                        | mean/(sd)         | b/(se)  | b/(se)   | b/(se)     |       |
|                        | None              | 'Low'   | 'High'   |            |       |
| Age                    | 23.969            | 23.532  | 23.041   | -0.437     | -0.928** -0.490 |
|                        | (6.318)           | (5.805) | (5.506)  | (0.398)    | (0.387) (0.365) |
| Completed education    | 7.733             | 7.704   | 7.889    | -0.030     | 0.155  0.185 |
|                        | (3.397)           | (3.427) | (3.405)  | (0.224)    | (0.223) (0.220) |

Demographics

| Geography and location |          |        |          |          |       |
|------------------------|----------|--------|----------|----------|-------|
| Eastern                | 0.242    | 0.227  | 0.264    | -0.015   | 0.022  0.037 0.900 |
|                        | (0.429)  | (0.419)| (0.441)  | (0.028)  | (0.028) (0.028) (0.407) |
| Central                | 0.411    | 0.426  | 0.402    | 0.015    | -0.009 -0.024 0.300 |
|                        | (0.493)  | (0.495)| (0.491)  | (0.032)  | (0.032) (0.032) (0.741) |
| Western                | 0.080    | 0.076  | 0.066    | -0.004   | -0.014 -0.010 0.355 |
|                        | (0.272)  | (0.265)| (0.249)  | (0.018)  | (0.017) (0.017) (0.701) |
| Mid/Far Western        | 0.267    | 0.271  | 0.268    | 0.004    | 0.001 -0.003 0.012 |
|                        | (0.443)  | (0.445)| (0.443)  | (0.029)  | (0.029) (0.029) (0.988) |
| Southern plain (Terai)| 0.484    | 0.479  | 0.487    | -0.005   | 0.002  0.008 0.029 |
|                        | (0.500)  | (0.500)| (0.500)  | (0.033)  | (0.033) (0.032) (0.971) |
| Urban                  | 0.076    | 0.074  | 0.070    | -0.002   | -0.005 -0.003 0.053 |
|                        | (0.265)  | (0.261)| (0.256)  | (0.017)  | (0.017) (0.017) (0.949) |

Chosen destination

|          | Malaysia | Qatar | Saudi Arabia | U.A.E | Other |
|----------|----------|-------|--------------|-------|-------|
|          | 0.376    | 0.187 | 0.136        | 0.238 | 0.064 |
|          | (0.485)  | (0.390)| (0.343)      | (0.426)| (0.246)|

Joint test across all regressions: F-stat 0.625 p-value 0.909

Source: Author’s calculations on the survey data collected for this project

Note: This table checks whether death information treatments are correlated with characteristics collected prior to the treatment for inexperienced potential migrants (those who have never migrated before for foreign employment). The first three columns show the mean and standard deviations of the variables for each treatment arm. The next three columns show the difference between the two groups and the standard errors of the difference. The column heading indicates which groups are being compared. Column 7 tests whether the three arms have the same mean. The bottom of the panel presents the F-statistic and the associated p-value for a joint test of equality of all outcomes across all treatment arms. *** : p < 0.01; ** : p < 0.05; * : p < 0.1
### Table A.7: Randomization balance table for inexperienced potential migrants: Wage

| Wage information | 'Low' - None | 'High' - None | 'Low' - None | 'High' - None | 'High' - Joint test | F/(p) |
|------------------|--------------|---------------|--------------|---------------|---------------------|-------|
|                  | mean/(sd)    | mean/(sd)     | mean/(sd)    | b/(se)        | b/(se)              | (p)   |
| Demographics     |              |               |              |               |                     |       |
| Age              | 23.740       | 23.237        | 23.524       | −0.503        | −0.217              | 0.856 |
|                  | (6.001)      | (5.749)       | (5.896)      | (0.385)       | (0.386)             | (0.380) |
| Completed education | 7.864       | 7.670         | 7.794        | −0.194        | −0.070              | 0.387 |
|                  | (3.357)      | (3.415)       | (3.457)      | (0.222)       | (0.221)             | (0.224) |
| Geography and location |            |               |              |               |                     |       |
| Eastern          | 0.264        | 0.230         | 0.239        | −0.033        | −0.025              | 0.759 |
|                  | (0.441)      | (0.422)       | (0.427)      | (0.028)       | (0.028)             | (0.028) |
| Central          | 0.372        | 0.443         | 0.424        | 0.071**       | 0.052               | −0.019 |
|                  | (0.484)      | (0.497)       | (0.495)      | (0.032)       | (0.032)             | (0.032) |
| Western          | 0.087        | 0.070         | 0.064        | −0.018        | −0.023              | 0.005 |
|                  | (0.282)      | (0.255)       | (0.246)      | (0.018)       | (0.017)             | (0.016) |
| Mid/Far Western  | 0.277        | 0.257         | 0.272        | −0.020        | −0.004              | 0.016 |
|                  | (0.448)      | (0.437)       | (0.446)      | (0.029)       | (0.029)             | (0.029) |
| Southern plain (Terai) | 0.496       | 0.465         | 0.489        | −0.031        | −0.007              | 0.023 |
|                  | (0.501)      | (0.499)       | (0.500)      | (0.033)       | (0.032)             | (0.033) |
| Urban            | 0.066        | 0.087         | 0.067        | 0.021         | 0.001               | −0.020 |
|                  | (0.248)      | (0.282)       | (0.249)      | (0.017)       | (0.016)             | (0.017) |
| Chosen destination|              |               |              |               |                     |       |
| Malaysia         | 0.366        | 0.335         | 0.374        | −0.031        | 0.008               | 0.039 |
|                  | (0.482)      | (0.472)       | (0.484)      | (0.031)       | (0.031)             | (0.031) |
| Qatar            | 0.194        | 0.211         | 0.200        | 0.017         | 0.006               | −0.011 |
|                  | (0.396)      | (0.408)       | (0.400)      | (0.026)       | (0.026)             | (0.026) |
| Saudi Arabia     | 0.132        | 0.124         | 0.150        | −0.008        | 0.018               | 0.026 |
|                  | (0.339)      | (0.330)       | (0.357)      | (0.022)       | (0.023)             | (0.022) |
| U.A.E            | 0.226        | 0.257         | 0.214        | 0.031         | −0.011              | −0.042 |
|                  | (0.418)      | (0.437)       | (0.411)      | (0.028)       | (0.027)             | (0.028) |
| Other            | 0.083        | 0.074         | 0.062        | −0.009        | −0.021              | −0.012 |
|                  | (0.276)      | (0.262)       | (0.242)      | (0.018)       | (0.017)             | (0.016) |

Joint test across all regressions: F-stat 0.914
p-value 0.576

Source: Author’s calculations on the survey data collected for this project

Note: This table checks whether wage information treatments are correlated with characteristics collected prior to the treatment for inexperienced potential migrants (those who have never migrated before for foreign employment). The first three columns show the mean and standard deviations of the variables for each treatment arm. The next three columns show the difference between the two groups and the standard errors of the difference. The column heading indicates which groups are being compared. Column 7 tests whether the three arms have the same mean. The bottom of the panel presents the F-statistic and the associated p-value for a joint test of equality of all outcomes across all treatment arms. **∗**: p < 0.01; **∗∗**: p < 0.05; * : p < 0.1
Table A.8: Randomization balance table for experienced migrants: Death

| Death information | Demographics | 'Low' - | 'High' - | 'High' - | Joint test |
|-------------------|--------------|---------|----------|----------|------------|
| None mean/(sd)    | 0.053        | 0.054   | 0.001    | 2.332    |            |
| 'Low' mean/(sd)   | 0.053        | 0.054   | 0.001    | 2.332    |            |
| 'High' mean/(sd)  | 0.053        | 0.054   | 0.001    | 2.332    |            |
| b/(se)            | 0.028        | 0.029   | 0.029    | 0.097    |            |
| 'Low' b/(se)      | 0.028        | 0.029   | 0.029    | 0.097    |            |
| 'High' b/(se)     | 0.028        | 0.029   | 0.029    | 0.097    |            |
| Joint test F/(p)  | 0.199        | 1.999   | 0.302    | 0.097    |            |
| Joint test across all regressions: F-stat | 1.339 |            |          |          |
| p-value           | 0.126        |          |          |          |

Source: Author’s calculations on the survey data collected for this project

Note: This table checks whether death information treatments are correlated with characteristics collected prior to the treatment for experienced potential migrants (those who have migrated before for foreign employment but do not have an existing job contract abroad). The first three columns show the mean and standard deviations of the variables for each treatment arm. The next three columns show the difference between the two groups and the standard errors of the difference. The column heading indicates which groups are being compared. Column 7 tests whether the three arms have the same mean. The bottom of the panel presents the F-statistic and the associated p-value for a joint test of equality of all outcomes across all treatment arms.

*** : p < 0.01; ** : p < 0.05; * : p < 0.1
Table A.9: Randomization balance table for experienced migrants: Wage

| Demographics | Wage information | 'Low' - | 'High' - | Joint test |
|--------------|-----------------|---------|----------|-----------|
|              | None            | 'Low'   | 'High'   |           |
|              | mean/(sd)       | mean/(sd) | mean/(sd) |           |
|              | (1)             | (2)     | (3)      |           |
| Age          | 30.101          | 29.491  | 30.250   | −0.610    | 0.149    | 0.759*    | 1.691 |
| Completed education | 6.815  | 7.236   | 7.108    | 0.421*    | 0.293    | −0.128    | 1.615 |
| Heard of deaths | 0.241  | 0.243   | 0.246    | 0.002     | 0.005    | 0.002     | 0.015 |
| Geography and location |          |         |          |           |         |           |       |
| Eastern      | 0.258           | 0.311   | 0.313    | 0.053*    | 0.054*   | 0.001     | 2.133 |
| Central      | 0.378           | 0.365   | 0.356    | −0.014    | −0.023   | −0.009    | 0.264 |
| Western      | 0.176           | 0.165   | 0.196    | −0.011    | 0.020    | 0.031     | 0.724 |
| Mid/Far Western | 0.187  | 0.158   | 0.136    | −0.029    | −0.051***| −0.022    | 2.285 |
| Southern plain (Terai) | 0.568  | 0.547   | 0.472    | −0.020    | −0.096***| −0.075**  | 4.729 |
| Urban        | 0.086           | 0.095   | 0.084    | 0.009     | −0.002   | −0.011    | 0.177 |
| Chosen destination |         |         |          |           |         |           |       |
| Malaysia     | 0.194           | 0.217   | 0.203    | 0.023     | 0.009    | −0.014    | 0.358 |
| Qatar        | 0.239           | 0.219   | 0.233    | −0.020    | −0.006   | 0.014     | 0.248 |
| Saudi Arabia | 0.204           | 0.219   | 0.213    | 0.015     | 0.009    | −0.006    | 0.145 |
| U.A.E        | 0.237           | 0.229   | 0.250    | −0.008    | 0.013    | 0.021     | 0.281 |
| Other        | 0.127           | 0.117   | 0.101    | −0.010    | −0.026   | −0.015    | 0.757 |
|              | (0.428)         | (0.430) | (0.431)  | (0.029)   | (0.028)  | (0.029)   | (0.985) |

Joint test across all regressions: F-stat 1.165 p-value 0.264

Source: Author's calculations on the survey data collected for this project
Note: This table checks whether wage information treatments are correlated with characteristics collected prior to the treatment for experienced potential migrants (those who have migrated before for foreign employment but do not have an existing job contract abroad). The first three columns show the mean and standard deviations of the variables for each treatment arm. The next three columns show the difference between the two groups and the standard errors of the difference. The column heading indicates which groups are being compared. Column 7 tests whether the three arms have the same mean. The bottom of the panel presents the F-statistic and the associated p-value for a joint test of equality of all outcomes across all treatment arms. ***: p < 0.01; **: p < 0.05; *: p < 0.1
Table A.10: Estimates of treatment effects at various quantiles of beliefs on mortality rate

| Quantiles: | p = min | p=10 | p=30 | p=50 | p=70 | p=90 | p=max |
|------------|---------|------|------|------|------|------|-------|
|            | (1)     | (2)  | (3)  | (4)  | (5)  | (6)  | (7)   |
| **Sample: All** |         |      |      |      |      |      |       |
| Death info: ‘high’ | 0.019   | 0.020 | 0.010 | 0.190 | 0.821 | 0.803 | 0.710 |
|              | (1.242) | (1.359) | (1.445) | (1.550) | (1.695) | (1.803) | (1.986) |
| Death info: ‘low’ | -3.417** | -3.745** | -4.002** | -4.263** | -4.415** | -4.880** | -5.627*** |
|              | (1.319) | (1.445) | (1.569) | (1.689) | (1.838) | (1.958) | (2.154) |
| Wage info: ‘high’ | -0.766 | -0.768 | -0.858 | -0.746 | -0.870 | -0.774 | -0.951 |
|              | (1.281) | (1.382) | (1.498) | (1.631) | (1.797) | (1.915) | (2.136) |
| Wage info: ‘low’ | -0.433 | -0.431 | -0.664 | -0.564 | -0.702 | -0.702 | -0.297 |
|              | (1.381) | (1.518) | (1.631) | (1.771) | (1.960) | (2.105) | (2.361) |
| Observations | 3319    | 3319  | 3319  | 3319  | 3319  | 3319  | 3319  |
| R-squared    | 0.003   | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 |
| Control group mean | 16.798 | 18.797 | 20.239 | 22.028 | 24.011 | 26.188 | 29.846 |
| SD           | (27.790) | (30.547) | (34.915) | (37.849) | (41.906) | (46.580) | (55.176) |
| **Sample: Inexperienced** |         |      |      |      |      |      |       |
| Death info: ‘high’ | -1.924 | -1.780 | -1.728 | -1.623 | -1.640 | -1.834 | -2.459 |
|              | (2.421) | (2.617) | (2.775) | (2.950) | (3.226) | (3.462) | (3.819) |
| Death info: ‘low’ | -6.211** | -6.494** | -6.771** | -6.993** | -7.559** | -8.443** | -10.048** |
|              | (2.480) | (2.682) | (2.897) | (3.085) | (3.438) | (3.701) | (4.081) |
| Wage info: ‘high’ | 1.336 | 1.535 | 1.313 | 1.776 | 2.242 | 2.664 | 2.609 |
|              | (2.206) | (2.392) | (2.600) | (2.803) | (3.125) | (3.366) | (3.658) |
| Wage info: ‘low’ | 1.823 | 2.058 | 1.491 | 1.806 | 2.290 | 3.357 | 3.538 |
|              | (2.315) | (2.513) | (2.686) | (2.847) | (3.158) | (3.378) | (3.735) |
| Observations | 1411    | 1411  | 1411  | 1411  | 1411  | 1411  | 1411  |
| R-squared    | 0.006   | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.006 |
| Control group mean | 21.933 | 24.042 | 25.991 | 28.000 | 31.179 | 34.097 | 39.412 |
| SD           | (34.748) | (37.808) | (43.960) | (47.232) | (53.928) | (60.295) | (70.535) |
| **Sample: Experienced** |         |      |      |      |      |      |       |
| Death info: ‘high’ | 1.217 | 1.050 | 0.970 | 1.251 | 2.622 | 2.889 | 3.381 |
|              | (1.537) | (1.706) | (1.837) | (2.020) | (2.380) | (2.521) | (2.818) |
| Death info: ‘low’ | -1.310 | -1.823 | -2.144 | -2.474 | -2.329 | -2.399 | -2.451 |
|              | (1.661) | (1.802) | (1.925) | (2.080) | (2.148) | (2.267) | (2.591) |
| Wage info: ‘high’ | -2.110 | -2.293 | -2.262 | -2.392 | -3.080 | -3.080 | -3.275 |
|              | (1.857) | (2.052) | (2.254) | (2.508) | (2.823) | (2.973) | (3.395) |
| Wage info: ‘low’ | -2.262 | -2.481 | -2.441 | -2.516 | -3.388 | -3.020 | -3.858 |
|              | (2.131) | (2.350) | (2.536) | (2.809) | (3.121) | (3.335) | (3.816) |
| Observations | 1341    | 1341  | 1341  | 1341  | 1341  | 1341  | 1341  |
| R-squared    | 0.003   | 0.003 | 0.003 | 0.004 | 0.005 | 0.005 | 0.004 |
| Control group mean | 13.609 | 15.643 | 16.745 | 18.469 | 19.565 | 21.034 | 23.155 |
| SD           | (20.826) | (23.696) | (26.048) | (28.955) | (29.430) | (31.750) | (36.517) |

Source: Author’s calculations on the survey data collected for this project
Note: This table shows the effect of the information treatments on various p−quantiles of individual belief about mortality rate abroad, estimated using equation (1). The p in the column headings indicates the quantile of the beliefs used as the outcome. “Inexperienced” refers to potential migrants who have not yet migrated for foreign employment. “Experienced” refers to potential migrants who have migrated in the past, but do not have an existing job contract abroad; it excludes those who are back home on leave from their work abroad. ***: p < 0.01; **: p < 0.05; *: p < 0.1
Table A.11: Estimates of effects at various quantiles of beliefs on net earnings

| Quantiles: | p=min | p=10 | p=30 | p=50 | p=70 | p=90 | p=max |
|------------|-------|------|------|------|------|------|-------|
|            | (1)   | (2)  | (3)  | (4)  | (5)  | (6)  | (7)   |
| Sample: All|       |      |      |      |      |      |       |
| Death info: ‘high’ | -0.424* | -0.369 | -0.341 | -0.421 | -0.426 | -0.458 | -0.573* |
|             | (0.243) | (0.234) | (0.242) | (0.261) | (0.271) | (0.286) | (0.322) |
| Death info: ‘low’ | -0.208 | -0.104 | -0.026 | -0.087 | -0.069 | -0.085 | -0.112 |
|             | (0.213) | (0.204) | (0.207) | (0.222) | (0.229) | (0.244) | (0.297) |
| Wage info: ‘high’ | -0.176 | -0.136 | -0.123 | -0.189 | -0.210 | -0.232 | -0.386 |
|             | (0.236) | (0.221) | (0.225) | (0.237) | (0.246) | (0.261) | (0.297) |
| Wage info: ‘low’ | 0.084  | 0.200  | 0.187  | 0.151  | 0.127  | 0.136  | 0.130  |
|             | (0.248) | (0.236) | (0.241) | (0.249) | (0.259) | (0.270) | (0.316) |
| Observations | 3319   | 3319  | 3319  | 3319  | 3319  | 3319  | 3319  |
| R-squared   | 0.001  | 0.001 | 0.001 | 0.002 | 0.001 | 0.001 | 0.002 |
| Control group mean | 9.326 | 9.583 | 9.916 | 10.527 | 10.968 | 11.442 | 12.455 |
| SD          | (7.560) | (5.330) | (5.109) | (5.870) | (6.199) | (6.476) | (9.005) |
| **Sample: Inexperienced** |      |      |      |      |      |      |       |
| Death info: ‘high’ | -0.536 | -0.378 | -0.305 | -0.446 | -0.491 | -0.521 | -0.669 |
|             | (0.376) | (0.322) | (0.329) | (0.370) | (0.384) | (0.409) | (0.482) |
| Death info: ‘low’ | -0.492 | -0.327 | -0.253 | -0.400 | -0.425 | -0.487 | -0.696 |
|             | (0.374) | (0.322) | (0.324) | (0.362) | (0.381) | (0.402) | (0.492) |
| Wage info: ‘high’ | -0.917*** | -0.803** | -0.718** | -0.862** | -0.921** | -0.948** | -1.312*** |
|             | (0.379) | (0.328) | (0.337) | (0.366) | (0.386) | (0.408) | (0.484) |
| Wage info: ‘low’ | -0.796** | -0.594* | -0.581* | -0.660* | -0.708* | -0.710* | -0.972** |
|             | (0.377) | (0.325) | (0.329) | (0.353) | (0.369) | (0.386) | (0.467) |
| Observations | 1411   | 1411  | 1411  | 1411  | 1411  | 1411  | 1411  |
| R-squared   | 0.008  | 0.006 | 0.005 | 0.006 | 0.006 | 0.006 | 0.008 |
| Control group mean | 10.297 | 10.339 | 10.688 | 10.527 | 10.968 | 11.442 | 12.455 |
| SD          | (10.402) | (6.480) | (5.871) | (7.163) | (7.575) | (7.864) | (11.930) |
| **Sample: Experienced** |      |      |      |      |      |      |       |
| Death info: ‘high’ | -0.429 | -0.471 | -0.489 | -0.536 | -0.508 | -0.535 | -0.593 |
|             | (0.296) | (0.308) | (0.326) | (0.339) | (0.357) | (0.372) | (0.410) |
| Death info: ‘low’ | 0.057  | 0.081  | 0.157  | 0.134  | 0.170  | 0.155  | 0.095  |
|             | (0.280) | (0.297) | (0.314) | (0.327) | (0.336) | (0.355) | (0.391) |
| Wage info: ‘high’ | 0.312  | 0.300  | 0.262  | 0.239  | 0.240  | 0.196  | 0.218  |
|             | (0.269) | (0.275) | (0.287) | (0.296) | (0.307) | (0.319) | (0.344) |
| Wage info: ‘low’ | 0.564* | 0.595* | 0.563* | 0.545  | 0.537  | 0.536  | 0.661  |
|             | (0.299) | (0.314) | (0.328) | (0.331) | (0.358) | (0.373) | (0.410) |
| Observations | 1341   | 1341  | 1341  | 1341  | 1341  | 1341  | 1341  |
| R-squared   | 0.005  | 0.005 | 0.005 | 0.005 | 0.004 | 0.004 | 0.004 |
| Control group mean | 8.385 | 8.848 | 9.197 | 9.616 | 9.923 | 10.341 | 11.036 |
| SD          | (3.800) | (3.967) | (4.214) | (4.380) | (4.594) | (4.869) | (5.421) |

Source: Author’s calculations on the survey data collected for this project

Note: This table shows the effect of the information treatments on various \( p \)–quantiles of individual belief about earnings abroad, estimated using equation (1). The \( p \) in the column headings indicates the quantile of the beliefs used as the outcome. “Inexperienced” refers to potential migrants who have not yet migrated for foreign employment. “Experienced” refers to potential migrants who have migrated in the past, but do not have an existing job contract abroad; it excludes those who are back home on leave from their work abroad. *** : \( p < 0.01; ** : p < 0.05; * : p < 0.1 \)
Table A.12: Characteristics of the attriters

| Attrition measure   | F   | M   | W   | F   | M   | W   | F   | M   | W   |
|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                     | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
| **Demographics**    |     |     |     |     |     |     |     |     |     |
| Age                 | 0.417 | 0.797** | 1.005 | 0.080 | 0.343 | 0.756 | -0.535 | -0.413 | 0.296 |
|                     | (0.351) | (0.380) | (0.825) | (0.434) | (0.490) | (1.015) | (0.502) | (0.543) | (1.007) |
| Completed years     | -1.158*** | -1.128*** | -1.670*** | -1.313*** | -1.297*** | -1.836*** | -1.161*** | -1.061*** | -1.811*** |
| of schooling        | (0.178) | (0.188) | (0.344) | (0.271) | (0.291) | (0.508) | (0.301) | (0.315) | (0.555) |
| **Geography and location** |     |     |     |     |     |     |     |     |     |
| Eastern             | -0.004 | -0.003 | 0.056 | -0.013 | 0.005 | 0.143** | -0.005 | -0.006 | 0.073 |
|                     | (0.021) | (0.023) | (0.046) | (0.032) | (0.035) | (0.072) | (0.036) | (0.038) | (0.074) |
| Central             | 0.019 | 0.009 | 0.061 | -0.020 | -0.038 | -0.031 | 0.065* | 0.053 | 0.044 |
|                     | (0.023) | (0.025) | (0.048) | (0.037) | (0.040) | (0.072) | (0.039) | (0.041) | (0.075) |
| Western             | -0.038** | -0.030* | -0.079*** | -0.014 | -0.023 | -0.010 | -0.072*** | -0.062** | -0.092** |
|                     | (0.016) | (0.018) | (0.027) | (0.018) | (0.019) | (0.036) | (0.026) | (0.029) | (0.045) |
| Mid/Far Western     | 0.023 | 0.024 | -0.037 | 0.047 | 0.057 | -0.103* | 0.012 | 0.016 | -0.026 |
|                     | (0.019) | (0.021) | (0.035) | (0.034) | (0.038) | (0.056) | (0.030) | (0.032) | (0.053) |
| Southern Plain      | 0.035 | 0.045* | 0.129*** | -0.020 | 0.021 | 0.160** | 0.101*** | 0.082** | 0.136* |
| (Terai)             | (0.024) | (0.025) | (0.047) | (0.037) | (0.041) | (0.071) | (0.039) | (0.041) | (0.073) |
| Urban               | 0.000 | 0.007 | 0.000 | -0.007 | -0.002 | -0.009 | 0.022 | 0.028 | 0.027 |
|                     | (0.013) | (0.014) | (0.027) | (0.019) | (0.021) | (0.036) | (0.024) | (0.026) | (0.049) |
| **Expected time of migration** |     |     |     |     |     |     |     |     |     |
| Within 2 months     | 0.109*** | 0.131*** | 0.058 | 0.068** | 0.062* | 0.033 | 0.098** | 0.112*** | 0.111 |
|                     | (0.024) | (0.025) | (0.049) | (0.033) | (0.036) | (0.063) | (0.039) | (0.042) | (0.077) |
| Certainly in 3      | 0.113*** | 0.135*** | 0.064 | 0.066** | 0.062* | 0.029 | 0.102*** | 0.114*** | 0.126 |
| months              | (0.024) | (0.025) | (0.048) | (0.032) | (0.036) | (0.063) | (0.039) | (0.042) | (0.077) |

Source: Author’s calculations on the survey data collected for this project.

Note: This table tests whether attriters are different from non-attriters on the characteristics shown in the left side of the table. The measure of attrition being tested is indicated by its corresponding letter in the second row of the table headings. The measures of attrition are defined in Table 4. Each cell is a separate regression. The estimated regression is \( y_i = \alpha + \beta_{\text{ATTRIT}_i} + \epsilon_i \) where \( y_i \) are the characteristics reported in the leftmost column and \( \text{ATTRIT}_i \) is the measure of attrition indicated by the column heading (second row of the table). The first row of the table headings indicate the sample for which the test is being performed. “Inexperienced” refers to potential migrants who have not yet migrated for foreign employment. “Experienced” refers to potential migrants who have migrated in the past, but do not have an existing job contract abroad; it excludes those who are back home on leave from their work abroad. Coefficients (\( \beta \)) are reported along with robust standard errors in parentheses. ***: \( p < 0.01 \); **: \( p < 0.05 \); *: \( p < 0.1 \).
## Table A.13: Effects of information treatments on chosen destination

|                        | All          | Inexperienced | Experienced |
|------------------------|--------------|---------------|-------------|
|                        | (1) (2)      | (3) (4)       | (5) (6)     |
| Destination country changed |              |               |             |
| Death info: ‘high’     | -0.005       | -0.034        | 0.032       |
|                        | (0.023)      | (0.035)       | (0.035)     |
| Death info: ‘low’      | -0.004       | -0.021        | 0.006       |
|                        | (0.022)      | (0.039)       | (0.033)     |
| Wage info: any         | -0.007       | -0.028        | 0.030       |
|                        | (0.020)      | (0.032)       | (0.029)     |
| Controls               | NO           | NO            | NO          |
| Observations           | 2687         | 1140          | 1107        |
| R-squared              | 0.000        | 0.002         | 0.002       |
| Control group mean     | 0.308        | 0.396         | 0.277       |
| SD                     | (0.462)      | (0.491)       | (0.449)     |
| Destination region changed |          |               |             |
| Death info: ‘high’     | -0.007       | -0.020        | -0.001      |
|                        | (0.016)      | (0.028)       | (0.024)     |
| Death info: ‘low’      | -0.004       | -0.012        | -0.004      |
|                        | (0.017)      | (0.032)       | (0.025)     |
| Wage info: any         | -0.010       | -0.016        | -0.002      |
|                        | (0.014)      | (0.025)       | (0.022)     |
| Controls               | NO           | NO            | NO          |
| Observations           | 2687         | 1140          | 1107        |
| R-squared              | 0.000        | 0.001         | 0.000       |
| Control group mean     | 0.146        | 0.209         | 0.115       |
| SD                     | (0.353)      | (0.408)       | (0.321)     |

Source: Author’s calculations on the survey data collected for this project.

Note: This table shows the impact of information treatments on changes in destination choices between treatment and follow-up, estimated using equation (1). The heading of each panel indicates the specific measure of destination choice. Odd numbered columns do not have any controls, even numbered columns control for a full set of interaction of age categories, education categories, location and geography, full set of interaction of location, geography and administrative regions, destination fixed effects, surveyor fixed effects, and respondent fixed effects. Standard errors, reported in parentheses, are clustered at the surveyor × date of interview level. “Inexperienced” refers to potential migrants who have not yet migrated for foreign employment. “Experienced” refers to potential migrants who have migrated in the past, but do not have an existing job contract abroad; it excludes those who are back home on leave from their work abroad. ***: p < 0.01; **: p < 0.05; *: p < 0.1.
|                      | All (1) |          | Inexperienced (2) | (3) | (4) | Experienced (5) | (6) |
|----------------------|---------|----------|-------------------|-----|-----|----------------|-----|
| **Consulted new manpower company** |         |          |                   |     |     |                 |     |
| Death info: ‘high’   | -0.027  | -0.012   | -0.004            | -0.004 | -0.053 | -0.008        |     |
|                      | (0.020) | (0.019) | (0.034)           | (0.033) | (0.035) | (0.035)       |     |
| Death info: ‘low’    | -0.014  | -0.009   | 0.008             | 0.018   | -0.051 | -0.031        |     |
|                      | (0.022) | (0.021) | (0.035)           | (0.035) | (0.032) | (0.031)       |     |
| Wage info: any       | 0.023   | 0.019    | 0.065**           | 0.064** | 0.003  | -0.015        |     |
|                      | (0.018) | (0.017) | (0.027)           | (0.027) | (0.030) | (0.028)       |     |
| Controls             | NO      | YES      | NO                | YES   | NO    | YES           |     |
| Observations         | 2714    | 2714     | 1171              | 1171 | 1120  | 1120          |     |
| R-squared            | 0.001   | 0.231    | 0.004             | 0.245   | 0.003  | 0.266         |     |
| Control group mean   | 0.269   | 0.241    | 0.241             | 0.343   |        |               |     |
| SD                   | (0.444) | (0.429)  | (0.477)           |         |       |               |     |
| **Consulted with family members** |         |          |                   |     |     |                 |     |
| Death info: ‘high’   | -0.024  | -0.018   | -0.029            | -0.025 | -0.040 | -0.032        |     |
|                      | (0.021) | (0.019) | (0.030)           | (0.028) | (0.033) | (0.031)       |     |
| Death info: ‘low’    | -0.002  | -0.008   | 0.029             | 0.015   | 0.004  | 0.013         |     |
|                      | (0.022) | (0.019) | (0.033)           | (0.031) | (0.030) | (0.030)       |     |
| Wage info: any       | 0.010   | 0.005    | 0.045             | 0.028   | -0.022 | -0.021        |     |
|                      | (0.018) | (0.018) | (0.029)           | (0.028) | (0.028) | (0.027)       |     |
| Controls             | NO      | YES      | NO                | YES   | NO    | YES           |     |
| Observations         | 2748    | 2748     | 1178              | 1178 | 1136  | 1136          |     |
| R-squared            | 0.001   | 0.237    | 0.005             | 0.267   | 0.002  | 0.254         |     |
| Control group mean   | 0.693   | 0.688    | 0.737             |        |       |               |     |
| SD                   | (0.462) | (0.465)  | (0.442)           |         |       |               |     |
| **Consulted with friends** |         |          |                   |     |     |                 |     |
| Death info: ‘high’   | -0.009  | -0.007   | -0.030            | -0.027 | -0.020 | -0.009        |     |
|                      | (0.022) | (0.020) | (0.034)           | (0.033) | (0.035) | (0.033)       |     |
| Death info: ‘low’    | 0.036*  | 0.034*   | 0.058*            | 0.051*  | 0.018  | 0.027         |     |
|                      | (0.021) | (0.020) | (0.031)           | (0.030) | (0.033) | (0.035)       |     |
| Wage info: any       | -0.006  | -0.010   | -0.006            | -0.017 | 0.002  | 0.010         |     |
|                      | (0.017) | (0.015) | (0.026)           | (0.025) | (0.029) | (0.029)       |     |
| Controls             | NO      | YES      | NO                | YES   | NO    | YES           |     |
| Observations         | 2748    | 2748     | 1181              | 1181 | 1136  | 1136          |     |
| R-squared            | 0.002   | 0.205    | 0.007             | 0.215   | 0.001  | 0.222         |     |
| Control group mean   | 0.689   | 0.741    | 0.682             |        |       |               |     |
| SD                   | (0.464) | (0.440)  | (0.468)           |         |       |               |     |

Source: Author’s calculations on the survey data collected for this project
Note: This table shows the impact of information treatments on seeking consulations during follow-up, estimated using equation (1). The heading of each panel indicates the specific measure of seeking consultations. Odd numbered columns do not have any controls, even numbered columns control for a full set of interaction of age categories, education categories, location and geography, full set of interaction of location, geography and administrative regions, destination fixed effects, surveyor fixed effects, and respondent fixed effects. Standard errors, reported in parentheses, are clustered at the surveyor × date of interview level. “Inexperienced” refers to potential migrants who have not yet migrated for foreign employment. “Experienced” refers to potential migrants who have migrated in the past, but do not have an existing job contract abroad; it excludes those who are back home on leave from their work abroad. ∗∗∗: p < 0.01; ∗∗: p < 0.05; ∗: p < 0.1.
Table A.15: Lee (2009) bounds of treatment effect on changing manpower companies

|                  | Death Info | Wage info |
|------------------|------------|-----------|
|                  | High       | Low       | Any       |
|                  | (1)        | (2)       | (3)       |
| **Sample: All**  |            |           |           |
| Lower bound      | -0.032     | -0.029    | 0.015     |
|                  | (0.022)    | (0.023)   | (0.022)   |
| Upper bound      | -0.016     | 0.023     | 0.027     |
|                  | (0.025)    | (0.026)   | (0.019)   |
| 95 % CI          | [-0.070 0.028] | [-0.067 0.066] | [-0.024 0.060] |
| **Sample: Inexperienced** |            |           |           |
| Lower bound      | -0.002     | 0.005     | 0.051     |
|                  | (0.035)    | (0.035)   | (0.034)   |
| Upper bound      | 0.006      | 0.024     | 0.071**   |
|                  | (0.039)    | (0.040)   | (0.030)   |
| 95 % CI          | [-0.067 0.079] | [-0.058 0.095] | [-0.008 0.124] |
| **Sample: Experienced** |            |           |           |
| Lower bound      | -0.063*    | -0.082**  | -0.000    |
|                  | (0.036)    | (0.038)   | (0.034)   |
| Upper bound      | -0.037     | 0.004     | 0.005     |
|                  | (0.039)    | (0.041)   | (0.031)   |
| 95 % CI          | [-0.126 0.031] | [-0.144 0.072] | [-0.065 0.063] |

Source: Author’s calculations on the survey data collected for this project

Note: This table shows the estimated Lee (2009) bounds for the effect of information treatments on whether they consulted new manpower companies between the initial and final surveys. Each column in each panel represents a separate estimation of the bounds. Each estimation is performed on the sample of the treatment group indicated by the column heading and the control group. For each estimation a lower bound, an upper bound is reported with standard errors in parentheses. The 95% confidence interval on the bounds is reported in brackets. “Inexperienced” refers to potential migrants who have not yet migrated for foreign employment. “Experienced” refers to potential migrants who have migrated in the past, but do not have an existing job contract abroad; it excludes those who are back home on leave from their work abroad. *** : p < 0.01; ** : p < 0.05; * : p < 0.1
Table A.16: Effects of information treatments on credit and assets

|                | All          | Inexperienced | Experienced |
|----------------|--------------|---------------|-------------|
|                | (1) (2)      | (3) (4)       | (5) (6)     |
| **Took out new loans** |              |               |             |
| Death info: ‘high’ | 0.027 0.011  | 0.003 -0.021  | 0.036 0.003 |
| (0.021) (0.021) | (0.031) (0.033) | (0.032) (0.034) |
| Death info: ‘low’  | 0.023 0.009  | 0.005 -0.020  | 0.052 0.027 |
| (0.021) (0.021) | (0.032) (0.034) | (0.034) (0.037) |
| Wage info: any    | 0.004 -0.000 | -0.009 -0.009 | 0.013 0.010 |
| (0.018) (0.018) | (0.027) (0.028) | (0.028) (0.026) |
| Controls         | NO YES       | NO YES        | NO YES      |
| Observations     | 2739 2739  | 1178 1178     | 1133 1133   |
| R-squared        | 0.001 0.092 | 0.000 0.184  | 0.003 0.132 |
| Control group mean | 0.293 0.314 | 0.314 0.286  |             |
| SD               | (0.456)      | (0.466)       | (0.453)     |
| **Paid back old loans** |              |               |             |
| Death info: ‘high’ | -0.019 -0.026* | -0.041* -0.020 | -0.003 -0.010 |
| (0.015) (0.015) | (0.024) (0.025) | (0.022) (0.023) |
| Death info: ‘low’  | -0.002 -0.007 | -0.016 -0.003 | 0.014 -0.003 |
| (0.014) (0.015) | (0.022) (0.024) | (0.022) (0.023) |
| Wage info: any    | 0.000 -0.004 | 0.020 0.026  | -0.015 -0.007 |
| (0.013) (0.013) | (0.019) (0.021) | (0.020) (0.019) |
| Controls         | NO YES       | NO YES        | NO YES      |
| Observations     | 2739 2739  | 1177 1177     | 1134 1134   |
| R-squared        | 0.001 0.081 | 0.003 0.156  | 0.001 0.146 |
| Control group mean | 0.119 0.129 | 0.129 0.120  |             |
| SD               | (0.324)      | (0.336)       | (0.327)     |
| **Bought new assets** |              |               |             |
| Death info: ‘high’ | 0.025 0.029  | 0.008 0.023  | -0.011 -0.001 |
| (0.023) (0.023) | (0.037) (0.037) | (0.029) (0.033) |
| Death info: ‘low’  | 0.046*** 0.043* | -0.033 -0.021 | 0.092*** 0.090** |
| (0.021) (0.022) | (0.033) (0.035) | (0.033) (0.037) |
| Wage info: any    | -0.005 -0.013 | 0.004 -0.008  | -0.059** -0.066** |
| (0.020) (0.020) | (0.032) (0.034) | (0.029) (0.028) |
| Controls         | NO YES       | NO YES        | NO YES      |
| Observations     | 2799 2799  | 1201 1201     | 1154 1154   |
| R-squared        | 0.002 0.085 | 0.001 0.129  | 0.014 0.135 |
| Control group mean | 0.305 0.321 | 0.321 0.321  |             |
| SD               | (0.461)      | (0.469)       | (0.469)     |

Source: Author’s calculations on the survey data collected for this project

Note: This table shows the impact of information treatments on reported changes in debt and asset position between treatment and follow-up, estimated using equation (1). The heading of each panel indicates the specific measure of destination choice. Odd numbered columns do not have any controls, even numbered columns control for a full set of interaction of age categories, education categories, location and geography, full set of interaction of location, geography and administrative regions, destination fixed effects, surveyor fixed effects, and respondent fixed effects. Standard errors, reported in parentheses, are clustered at the surveyor × date of interview level. “Inexperienced” refers to potential migrants who have not yet migrated for foreign employment. “Experienced” refers to potential migrants who have migrated in the past, but do not have an existing job contract abroad; it excludes those who are back home on leave from their work abroad. ∗∗∗: p < 0.01; ∗∗: p < 0.05; ∗: p < 0.1.
Table A.17: 2-SLS estimates of VSL for inexperienced potential migrants

|                      | Migrated - P Preferred | Migrated - A Alternative | Migrated - B Basic |
|----------------------|------------------------|-------------------------|--------------------|
|                      | (1)                    | (2)                     | (3)                |
|                      | (4)                    | (5)                     | (6)                |
| **Logarithmic specification** |                        |                         |                    |
| Log(expected mortality per 1000) | -0.247** | -0.246** | -0.240** | -0.246** | -0.221** | -0.243** |
|                      | (0.115)                | (0.104)                 | (0.116)            | (0.109)            | (0.102) | (0.096) |
| Log(expected net earnings, USD '000) | 0.344     | 0.576                  | 0.386              | 0.494              | 0.148   | 0.290   |
|                      | (0.350)                | (0.503)                 | (0.385)            | (0.516)            | (0.286) | (0.468) |
| VSL (in '000 USD)    | 292.658               | 173.893                 | 255.377            | 204.275            | 612.548 | 342.367 |
|                      | (322.218)             | (161.486)               | (275.531)          | (218.349)          | (1210.549) | (573.157) |
| Controls             | NO                     | YES                     | NO                 | YES                | NO     | YES     |
| **Levels specification** |                        |                         |                    |
| Expected mortality (per 1000) | -0.011* | -0.010** | -0.011* | -0.010* | -0.010* | -0.009* |
|                      | (0.006)                | (0.005)                 | (0.006)            | (0.005)            | (0.006) | (0.005) |
| Expected net earnings (USD '000) | 0.024     | 0.050                  | 0.028              | 0.050              | 0.007   | 0.012   |
|                      | (0.033)                | (0.050)                 | (0.036)            | (0.054)            | (0.026) | (0.039) |
| VSL (in '000 USD)    | 462.442               | 199.412                 | 383.485            | 195.258            | 1340.595 | 773.284 |
|                      | (699.784)             | (217.430)               | (527.758)          | (226.762)          | (4917.707) | (2680.114) |
| Controls             | NO                     | YES                     | NO                 | YES                | NO     | YES     |

Source: Author’s calculations on the survey data collected for this project.

Note: This table shows 2SLS estimates of the effect of expected earnings and expected mortality rate on migration choices of inexperienced potential migrants. Information treatments are used as instruments for expected earnings and expected mortality rate. The heading of each column indicates the measure of migration used. See Table 5 and the text for the definition of these measures. The heading of each panel indicates whether the logarithm or levels of expectations is used in the estimation. Standard errors, reported in parentheses, are clustered at the surveyor × date of interview level. VSL is estimated as the ratio of two marginal effects and its standard error computed using the delta method. *** : p < 0.01; ** : p < 0.05; * : p < 0.1
Table A.18: 2-SLS estimates of VSL for inexperienced potential migrants

|                               | Least optimistic | Median | Most optimistic | Most likely (modal) |
|-------------------------------|------------------|--------|-----------------|---------------------|
|                               | (1)              | (2)    | (3)             | (4)                 |
| **Logarithmic specification** |                  |        |                 |                     |
| Beliefs on mortality risk     | -0.237**         | -0.228* | -0.215**        | -0.204*             |
| per 1000                      | (0.115)          | (0.123) | (0.105)         | (0.116)             |
| Beliefs on net earnings, USD '000 | 0.343           | 0.352   | 0.377           | 0.352               |
|                               | (0.371)          | (0.359) | (0.339)         | (0.340)             |
| VSL (in '000 USD)             | 172.549          | 261.089 | 332.398         | 236.049             |
|                               | (206.176)        | (303.309)| (339.636)      | (263.643)           |
| **Levels specification**      |                  |        |                 |                     |
| Beliefs on mortality risk     | -0.008*          | -0.011* | -0.014*         | -0.012              |
| per 1000                      | (0.004)          | (0.006) | (0.008)         | (0.007)             |
| Beliefs on net earnings, USD '000 | 0.026           | 0.034   | 0.024           | 0.039               |
|                               | (0.038)          | (0.043) | (0.028)         | (0.045)             |
| VSL (in '000 USD)             | 303.364          | 331.859 | 560.740         | 303.301             |
|                               | (476.418)        | (460.645)| (687.942)      | (374.685)           |

Source: Author’s calculations on the survey data collected for this project

Note: This table shows 2SLS estimates of the effect of beliefs on earnings and mortality rate on migration choices of inexperienced potential migrants. The preferred measure of migration (Migrated-P) is used as the dependent variable. Information treatments are used as instruments for beliefs on earnings and mortality rate. Instead of using the expected value of their beliefs as the variables of interest, this table takes different points in these belief distribution based on assumptions on the relevant decision-making parameters.

See Table 8 for the various decision-making choices based on the column headings.

The heading of each panel indicates whether the logarithm or levels of beliefs is used in the estimation. Standard errors are reported in parentheses and are clustered at the surveyor × date of interview level. VSL is estimated as the ratio of two coefficients and its standard error computed using the delta method. **∗**: p < 0.01; **∗∗**: p < 0.05; ∗: p < 0.1
Table A.19: 2-SLS estimates of VSL for subgroups of inexperienced potential migrants

|                | Old     | Young   | Low educ | High educ | Manual | Non-manual |
|----------------|---------|---------|----------|-----------|--------|------------|
|                | (1)     | (2)     | (3)      | (4)       | (5)    | (6)        |
| **Logarithmic specification** |         |         |          |           |        |            |
| Log(expected mortality per 1000) | -0.112  | -0.510* | -0.324*  | -0.098    | -0.422 | -0.190*    |
|                 | (0.116) | (0.273) | (0.172)  | (0.103)   | (0.397) | (0.107)    |
| Log(expected net earnings, USD '000) | 0.056   | 0.936   | 0.075    | 0.066     | 0.915  | 0.221      |
|                 | (0.423) | (0.677) | (0.295)  | (0.413)   | (1.122) | (0.342)    |
| VSL (in '000 USD) | 952.133 | 179.565 | 1446.771 | 722.138   | 146.199| 407.212    |
|                 | (7377.217) | (115.255) | (5868.918) | (4711.036) | (191.642) | (658.415) |
| **Levels specification** |         |         |          |           |        |            |
| Expected mortality (per 1000) | -0.003  | -0.016  | -0.003   | -0.004    | 0.035  | -0.005*    |
|                 | (0.005) | (0.010) | (0.007)  | (0.003)   | (0.069) | (0.003)    |
| Expected net earnings (USD '000) | 0.006   | 0.075   | 0.012    | -0.008    | -0.184 | 0.007      |
|                 | (0.024) | (0.091) | (0.029)  | (0.026)   | (0.607) | (0.021)    |
| VSL (in '000 USD) | 508.188 | 212.716 | 271.592  | -447.926  | 191.417| 717.889    |
|                 | (2158.376) | (214.322) | (828.787) | (1274.781) | (446.338) | (2143.472) |

Source: Author’s calculations on the survey data collected for this project

Note: This table shows 2SLS estimates of the effect of expected earnings and expected mortality on migration choices for various subgroups of inexperienced potential migrants. The preferred measure of migration (Migrated-P) is used as the dependent variable. Information treatments are used as instruments for beliefs on earnings and mortality rate in all cases. See Table 9 for the definitions of the subgroups listed in the column headings.

The heading of each column indicates whether logarithm or levels of expectations is used in the estimation. Standard errors are reported in parentheses and are clustered at the surveyor x date of interview level. VSL is estimated as the ratio of two coefficients and its standard error computed using the delta method. ***: p < 0.01; **: p < 0.05; *: p < 0.1
Appendix B  Normal learning from information

Individuals have normally distributed priors over earnings (or mortality risks) with mean $\theta_0$ and variance $\sigma^2_\theta$. That is, priors $\theta \sim \mathcal{N}(\theta_0, \sigma^2_\theta)$. Individuals assume that the signal, $s$, they see is a random draw from the distribution $\mathcal{N}(\theta, \sigma^2_s)$. Upon receiving the signal, individuals update their prior according to Bayes’ rule. Normality of the priors and the signals mean that the posterior is also normally distributed with mean and variance given by

$$\theta | s \sim \mathcal{N}(\theta_1, \sigma^2_{\theta_1}) = \mathcal{N}\left(\frac{\sigma^2_s \cdot \theta_0 + \sigma^2_\theta \cdot s}{\sigma^2_s + \sigma^2_\theta}, \frac{\sigma^2_\theta \cdot \sigma^2_s}{\sigma^2_s + \sigma^2_\theta}\right)$$

This simple result has the following direct implications for the effect of the signal (assuming $s < \theta_0$ without loss of generality):

1. Individuals update towards the signal. That is $s < \theta_1 < \theta_0$. The extent of updating depends upon the variance of prior and the perceived variance of the signal.

2. Posterior is more precise than the prior or the signal. That is, $\sigma^2_{\theta_1} < \min\{\sigma^2_\theta, \sigma^2_s\}$

3. The effect of the information in each quantile of the individual belief distribution is increasing (in magnitude) with the quantile. Denote $\theta_1(p) - \theta_0(p)$ as the effect of the information on the $p^{th}$ quantile of the individual belief distribution. Then

$$D(p) \equiv \theta_1(p) - \theta_0(p) = (\theta_1 - \theta_0) + (\sigma_\theta - \sigma_s) \Phi^{-1}(p)$$

with

$$D'(p) = \frac{1}{\phi(z)} (\sigma_{\theta_1} - \sigma_{\theta}) < 0$$

where $\Phi(z)$ and $\phi(z)$ denote the standard normal distribution and density functions respectively. The inequality follows from 2.

These results are investigated systematically in Table 2 and Appendix Table A.10 for updating in response to a death signal, in Table 3 and Appendix Table A.11 for updating in response to an earnings signal. The results are discussed in Section 4.2.

Furthermore, this simple framework is useful to infer how the subjects perceive the noisiness of the information provided to them. The distribution of priors is given by the distribution of the beliefs of the average person in the control group and the distribution of the posterior is given by the distribution of the beliefs of the average person in each of the treatment groups. Using these moments from data and updating rule given above, I can recover the perceived distribution of signals from which the information provided to them is drawn. This exercise is useful because the exact nature of the information provided to them left enough room for them to perceive the signal in different ways. For instance, the wage information provided the earnings but clearly mentioned the year of information was either 2010 or 2013. Similarly, the death information only provided the number of migrant deaths from a district without giving any information on stock of the migrants from the reference district.

Based on their updating behavior of the inexperienced migrants, the implied distribution of the signal is
consistent with the information provided to them. The ‘high’ wage information provided to them translated to a signal with a mean of $6,700 and a standard deviation of $1,200. The actual information provided in this treatment translates to a net earnings of $5,800 in 2013, which is about 0.75 standard deviation of the implied mean. It could also be that individuals updated the 2013 information to 2015, making it more relevant to them. The ‘low’ wage information provided to them translated to a signal with a mean of $6,200 and a standard deviation of $1,600. The actual information provided in this treatment translates to a net earnings of $2,900 in 2010. This information is about 2 standard deviations away from the implied mean of the signal distribution. This suggests that individuals could indeed be re-interpreting the information provided to them to make it relevant to their decision. For instance, when they saw the information provided to them was of 2010, they factored in how wages could have evolved in the past five years and adjusted their beliefs accordingly. Some respondents assigned to this treatment group even complained during the survey saying that information could not have been true or is irrelevant for now. Furthermore, the implied distribution of signal seem similar for the ‘high’ and ‘low’ wage treatments indicating that these two treatments affects the behavior in a similar way.

Similarly, the ‘high’ death information translated to a signal with a mean mortality rate of 15 per 1000 with a standard deviation of 8.7, and the ‘low’ death information translated to a signal with a mean mortality rate of 13 per 1000 with a standard deviation of 4.4. The actual death rates implied by the information were 0.9 and 3.7 per 1000 respectively for the ‘low’ and ‘high’ treatments. This discrepancy could simply reflect the lack of knowledge about the migrant stock abroad or other biases leading to interpreting the signal with an upward bias.

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43 The same exercise could not be done with the experienced migrants as the information was irrelevant to them. The average individual in the treatment group (posterior) did not have a lower variance of his beliefs than the average individual in the control group (prior).

44 Between 2010 and 2013, exchange rates in destination countries appreciated relative to Nepali Rupees by about 30 percent, inflation in Nepal increased by about the same amount. Even with these two adjustments the information provided becomes similar to the one provided in the ‘high’ treatment.