



# Cost of a Policy: Social Trust and Health Insurance Uptake in Azerbaijan and Emerging Markets

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## Abstract

Do low levels of social trust increase a population's sense of insecurity and desire to get an insurance policy or alternatively make it turn to informal networks for safety nets? While generalized social trust is an important variable to explain insurance uptake, the existing literature offers conflicting accounts of its impact on a population's insurance demand. By employing a mixed-methods research design that combines multivariate regression of large-N cross-country data with a qualitative case study of Azerbaijan, the study provides a systematic analytical measurement of the impact of social trust on the voluntary purchase of health insurance in 93 emerging markets. The article finds a statistically significant positive effect of generalized trust on voluntary health insurance purchases. The findings suggest that in countries with a low level of social trust, people favor *informal* safety nets rather than *formal* contracts with insurance firms.

## Keywords

generalized social trust – emerging markets – voluntary health insurance – rentier economy – insurance market concentration

## 1 Introduction

As any other business operating on market principles of demand and supply, the insurance industry assumes that a customer is a proactive instrumental utility maximizer. Hence, the industry's business model presupposes that customers mostly procure insurance voluntarily,<sup>1</sup> according to their individual cost-benefit calculations. However, data from Latin America (MAPFRE 2018), ASEAN (Schanz, Alms & Company 2018a), sub-Saharan Africa (Schanz, Alms & Company 2018b), South and East Asia (Willis Towers Watson 2018; Crawford 2018, 10), and MENA (Schanz, Alms & Company 2018c, 41) shows that the key drivers of insurance industry growth are mandatory insurance types (Crawford 2018, 10).

What socio-economic factors may possibly explain the skeptical attitudes of emerging market populations towards voluntary insurance products? A range of studies provide alternative explanations (see, Shi, et al 2015, Cole et al. 2011, Dragos 2011, Elango & Jones 2011). Among these factors, one variable – the impact of generalized social trust<sup>2</sup> – seems puzzling. Generally, the literature acknowledges this variable as important in shaping insurance procurement preferences among the population (Shi et al 2015, Borisova 2017), as well as serving as a major factor influencing an individual's insurance uptake (Pye 2005). On the other hand, there is a dearth of empirical studies of large-N cross-country data on the matter. Additionally, most emerging market studies focus on trust in insurance companies (as a predictor of voluntary insurance procurement) (World Bank 2011, Ernst & Young 2014, Borisova 2017, Prokopyeva 2015). Swiss Re argues that in emerging markets “affordability is a major demand-side barrier, but ... even subsidies do not lead to improved take-up of insurance ... because of lack of trust in the industry” (Swiss Re 2017, 1). However, the impact of a broader concept – i.e. social trust – is not equally well scrutinized.

This gap in research incapacitates both governments' and insurance industry actors' ability to account for a major factor shaping demand for insurance products. A population's generalized trust is fundamental for retaining insurance users and increasing social safety and well-being in emerging markets. Without understanding a population's reaction to insurance uptake as

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1 Voluntary means here a type of insurance products which are not mandatory according to relevant national legislation.

2 “Generalized trust” is defined in this study as trust in other members of society. It may be distinguished from particularized trust, which corresponds to trust in the family, neighbors, or close friends.

a function of social trust, we are unlikely to grasp the increasing penetration of insurance schemes in the developing world. Hence, both the regulatory authorities and insurance companies have to work actively to understand the potential impacts of social trust on the population's insurance demand.

Consequently, this article provides a systematic analytical measurement of the impact of social trust on the insurance uptake of emerging market populations. Building on existing literature on insurance demand, and by employing data on 93 emerging markets, I argue that the level of generalized trust in society is a potent factor positively associated with a population's preferences for voluntary health insurance procurement. Along with corroborating the importance of personal (freedom to affect one's life), industry-specific (insurance penetration, Soviet legacy), and socio-economic factors (urbanization, education, GDP per capita), the research also finds that the levels of corruption perception, the shadow economy, natural resource dependence, and insurance industry concentration are not statistically significant in predicting the level of population's voluntary health insurance purchase in emerging markets.

This article makes several contributions to the scholarship on trust and insurance policy. This is the first systematic empirical assessment of the impact of the social trust environment on the level of voluntary insurance purchases encompassing 93 emerging markets, hence providing the most comprehensive analysis, given existing data. On the other hand, it contributes to the academic literature on the effects of generalized social trust in the developing world context. There are also research implications for the rule of law (corruption, the shadow economy), and resource-dependence literature. Second, unlike similar studies of population attitudes and practices of insurance procurement, this study complements quantitative cross-country statistical analysis with qualitative data from a focus group discussion with actual insurance users in one of the emerging economies. Additionally, while social trust is a structural-environmental factor, government policies can mediate its impact on voluntary insurance purchase. Hence, the article contributes to public policies regulating the insurance industry, by highlighting specific mechanisms through which generalized social trust translates into a consumer's specific perception, and then a decision to react to an insurance product.

I start by outlining alternative theories explaining the impact of different variables on voluntary insurance purchase. The following section discusses the research hypothesis. Then I move to the methods section, including variables and data. The next section outlines the results of the quantitative analysis. Subsequently, I discuss qualitative analysis findings and place them into a broader social context. The final section concludes by discussing research implications.

## 2 Theories Explaining Population Insurance Purchase

Before the examination of major explanations shaping the variation of a population's insurance demand, we conceptualize generalized trust. "Generalized trust" refers to trust in other members of society. It may be distinguished from the particularized trust, which corresponds to trust in the family, neighbors, or close friends. Generalized trust is measured by the percentage of a country's population who affirmatively answer the statement "Most people can be trusted". In the context of insurance purchases, individuals with higher levels of generalized trust are more likely to believe that insurance companies and other actors involved in the insurance industry will act in good faith and fulfill their obligations. People with high levels of generalized trust tend to believe that others will act in a trustworthy manner, even if they have no personal relationship with them. This is different from particularized trust, which is based on personal relationships and experiences with specific individuals or groups. Generalized trust is based on a more abstract belief in the overall honesty and reliability of others in society.

The effect of generalized trust on insurance purchases is complex and can vary. On the one hand, individuals with higher levels of generalized trust may be more likely to purchase insurance because they believe that insurance providers will act in good faith and provide fair compensation in the event of a loss. On the other hand, individuals with higher levels of generalized trust may also be less likely to purchase insurance because they believe that other members of society will be willing to help them in the event of a loss, reducing their need for insurance.

Economic and sociological literature provides several major explanations for the variation of a population's insurance demand. The first set of explanations underlines the importance of modernization, with concomitant rising levels of urbanization, education, income, and other personal determinants on insurance demand (Dragos 2014, Alhassan and Biekpe 2016). According to Zelizer (1978), a dominant mode of collective attitudes toward human life, specifically the sacralization of human body, death, and life, historically prevented an active penetration of life insurance among Americans. Since the human body and death were sacral concepts, selling and purchasing them, and assigning a monetary value to them in a life insurance policy was deemed blasphemous. However, with modernization that led to urbanization after the American Civil War, the situation changed. Urbanization meant that orphans and widows could not rely anymore on the assistance of their extended family, but depended solely on the wage of a male breadwinner. Hence, in the case of the latter's death in an urban setting, families and society, in general,

had little choice but to accept life insurance as a religiously meritorious act of “active beneficence” which guarantees deceased policy-holders an easy after-life (Zelizer 1978, 605). Thus, modernization (with concomitant urbanization) gradually led to a change in religious attitudes and superstitions related to life insurance purchase.

Shi et al (2015), Hess, Leuenberger, and Scherrer (1996) argue for a positive association between the amount of per capita income, as well as perseverance and thrift (Park & Lemaire 2011), and the level of insurance penetration.<sup>3</sup> As a result, some researchers believe that growing economic welfare will gradually increase the rates of insurance penetration in emerging markets (Faulkner 2002). This perspective generally argues that increasing incomes make insurance affordable and more attractive. Education (Kjosevski 2012) is tightly connected with both urbanization and rising GDP (Dragos 2014, Alhassan and Biekpe 2016) in determining insurance demand. Linked to the broader ‘modernization’ paradigm, these factors boost a social taste for the instrumental application of a utilitarian rational choice, hence leading to a higher probability of insurance purchase.

Among other factors, an emerging economy’s rentier state environment can negatively affect insurance culture by undermining economic effectiveness (Mahdavy 1970, Ross 2012), and accountability. In such societies, insurance companies and individuals living off natural rent, subsidies, or state hand-outs do not have market incentives to embrace an effective customer-oriented approach. Individuals rely on the government to mitigate the negative repercussions of risks, otherwise transferred on insurance companies. Such a rentier social environment leads economic actors to treat insurance premiums as a ready resource for expropriation and consumption, rather than financial capital growth based on the instrumental application of a probability theory.

Among other modernization-related factors shaping a country’s ‘insurance culture’ is the levels of fatalism or freedom to affect one’s life choices (Black and Skipper 2000) related to fatalism dominant in a given society. Yusuf, Gbadamosi, and Hamadu (2009, 37) argue that “reliance on life insurance results from a distrust of God’s protecting care.” Hence a social setting with a lower level of fatalism is predicted to increase motivation for purchasing insurance voluntarily.

A second group of explanations points to the importance of industry-specific dynamics on a population’s insurance demand. Insurance penetration and

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3 Insurance penetration is the share (in %) of a country’s GDP that constitutes the premium income of insurance industry (or the amount of premium income divided by the volume of GDP).

insurance density are two major measures of a given insurance market's development level (Swiss Re 2017, Ernst & Young 2014). Higher insurance market development leads to greater versatility and quality of services, hence driving the population into the insurance market. Monopolization or concentration levels of the insurance industry belong to these explanations (Pye 2005, 2008; Aliyeva 2011, 9). Lower concentration usually leads to higher market competition, which in turn translates into greater care for customer feedback, lower prices, higher quality, and a greater range of insurance products. Consequently, a higher concentration has the opposite effect, including weak insurer outreach to customers for feedback (Naujoks et al 2016), and the resulting limited population awareness about specifics of insurance policies and terms (Borisova 2017). For instance, while during the communist period in Central and Eastern Europe (CEE) and the former Soviet Union, the state was the sole provider of insurance, this legacy was carried over to the post-communist period in such countries as Russia, Kazakhstan, Belarus, where the markets are dominated by state-owned insurance corporations (Rosgosstrakh, EIC, and Belgosstrakh respectively).<sup>4</sup>

Other industry-specific variables are economic growth and investment climate. Hence economic crises are predicted to have a negative association with the level of insurance pervasiveness in a given country (Park, Borde, Choi 2002). High rates of inflation make it both difficult (Greene 1954) and unprofitable (Ahlgrim & D'Arcy 2012) for insurers to invest in and have satisfactory profit margins on the market. Since insurance serves (along with banking and capital markets) as a major pillar of any financial system, it is very sensitive to the health of banks (Chen, et al 2014). Without flexible and broad investment opportunities offered by banking and capital markets, insurers face obstacles to capitalize on their funds.

The third strand of theories focuses on informality (with the effect of social capital), and the rule of law (including corruption, and the shadow economy) as defining factors of population insurance demand. Trust and generally social capital are mentioned as important factors of insurance demand (Shi et al 2015, Camargo and Gonçalves 2014, Jowett 2002). Informality and the shadow economy (Polese et al 2014, Mobarak and Rosenzweig 2012) shape 'insurance culture' and social welfare in a given society (RNSF 2017). The presence of a considerable shadow economy not only opens up opportunities to neglect formal demands and norms of insurance legislation (Williams & Nadin 2012) but also undermines trust in formal contractual relations – people do not treat

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4 Post-communist CEE countries demonstrate considerably less insurance market concentration than post-Soviet states (Kjosevski 2012).

insurance contracts and obligations as being backed by an effective enforcement mechanism. Hence, it is not surprising that ‘predictability’ is singled out as one of the three most important factors affecting insurance culture (Hofstede 1995).

An important factor, related to informality, is the rule of law in a given society. According to the range of studies, law enforcement heavily affects the dynamics of medical insurance (Jain, et al 2014), life insurance penetration and density (Kjosevski 2012), as well as the overall insurance industry (Koblensky 2017). Hofstede (1995) points to social solidarity as an important value affecting insurance culture. Distrust in formal laws and high corruption diminish citizen trust in insurance contract terms. If, for instance, an agent asks a kickback for releasing customer insurance claim payment, then the customer is likely to rely on personal savings and/or her personal network to deal with the next emergency instead of seeking formal insurance coverage. However, Kjosevski (2012) notes that although the rule of law is important for life insurance demand, the control of corruption is not a significant predictor of it.

### 3 Hypothesis: the Effect of Generalized Social Trust

While extant literature postulates a significant effect of generalized social trust on a population’s insurance uptake, including health insurance, there is no consensus on the direction of its effect. Indeed, a higher generalized trust may affect a population’s insurance purchase both positively and negatively. Some research (Murgai, et al 2002) postulates that social trust is negatively associated with population insurance uptake – i.e., the lower social trust, the higher the probability of insurance purchase; and vice versa, a higher social trust leads to a greater reliance on informal (kinship and neighborhood) rather than formal (like insurance) channels to cope with possible emergencies. As an actor finds itself in an environment with low generalized trust, it strives to shield itself from vicissitudes by relying on formal means of securing insurance, because informal channels are untrustworthy.

On the contrary, higher generalized trust increases the probability of informal insurance schemes. For instance, agricultural communities pooling resources together in insurance schemes to shield from possible negative weather effects should weigh the positive returns of such insurance against the backdrop of “transaction costs of monitoring behavior, enforcing participation, and coordinating transfers” (Murgai, et al 2002, 246). In this situation, higher generalized trust decreases risks of transaction costs, and thus ensures

the maximization of the positive yield of the insurance scheme. As a result, higher generalized trust leads to a higher probability of entering into informal insurance setups.

Other research, on the contrary, postulates a positive relationship between social trust and formal insurance uptake. This strand of research argues that a higher social trust leads to a greater probability of insurance purchase, thanks to several factors. First, a higher social trust environment increases the chances that actors will replicate the decisions of other agents who have already purchased insurance. Cai et al (2015) show that trust “networks do effectively transfer information about the functions and benefits of insurance” (p. 82) leading to higher insurance take-up rates. Thus, trust contributes to social learning and experience exchange which in turn leads to higher formal insurance adoption.

Second, a higher social trust increases the chance of collective absorption of “aggregate shocks that affect a whole community” (Dercon 2015, 132–3). Since some members of the community are more exposed to basic risk than others, social trust increases the probability that other individuals will “commit to offer mutual protection to each other against such idiosyncratic shocks” (Dercon 2015, 133). This in turn increases the willingness of the agents to procure insurance. As a result, greater social trust leads to a greater willingness to share knowledge and risks, thereby contributing to a higher insurance adoption.

Indeed, does an individual’s worry about their social surroundings lead to a higher preoccupation with personal insurance? Or is it significant trust in a social environment that makes people in emerging markets trust their resources to long-term insurance schemes?

While the literature is inconclusive, I test the following hypothesis of the effect of generalized social trust:

**Hypothesis:** *Higher generalized social trust in a given society increases the probability of its population’s voluntary health insurance uptake.*

#### 4 Methodology

To test the proposed hypothesis, I use a mixed-methods research design. I start with multivariable OLS regression of cross-country large-N data compiled from open sources. Then I specify the model and proceed to measure the direction and impact of generalized social trust on population health insurance purchases in 93 countries. I follow up with the discussion of qualitative data drawn from three focus group discussions held in Azerbaijan.

#### 4.1 *Quantitative Method*

##### 4.1.1 Variables and Model Specification

Table 1 reflects descriptive statistics of the quantitative analysis variables. In terms of the outcome variable, no significant cross-country surveys measure voluntary insurance purchases per se. Insurance regulators of different countries publish annual insurance market reports on the share of voluntary vs. mandatory insurance premiums. However, “voluntary” insurance segments in these reports provide an incomplete picture of population insurance demand. For instance, these reports put different private and public employers’ procurement of insurance for their staff into the voluntary insurance segment, while in reality the population/employees do not purchase this insurance out of personal volition. To overcome this imprecision, I use as an outcome variable “personal purchase of health insurance” – a measurement of the World Bank’s (WB) Global Financial Inclusion survey (2011). While the measurement pertains only to the purchase of health insurance (on top of national health insurance), it is the only available valid indicator of a *voluntary* insurance procurement. Hence, the dependent variable is *Personal Purchase of Health Insurance* measured as a percentage of country respondents who had *personally* purchased health insurance from a total sample of respondents in each country. Since the variable data is available only for 2011, the measures for all other variables are also provided for the year 2011. Consequently, the dataset is a cross-sectional one. The independent variable is *Generalized Social Trust* measured as a percentage of country respondents agreeing with the statement that “Most people can be trusted” in 2010–2011 by Gallup World Poll.

To account for the effect of modernization-related variables, I include into the statistical model *Urbanization* (measured as a percentage of urban people in a country’s total population) (World Bank 2017), *Education* (calculated as the latest available number of new entrants in the last grade of lower secondary education, divided by the population at the entrance age for the last grade of lower secondary education) (UNESCO 2017), and *GDP per capita* (based on purchasing power parity in constant 2011 international dollars) (World Bank 2017). *Rentier Environment* in a country is measured by the percentage of GDP drawn from total natural rents, defined as “the sum of oil rents, natural gas rents, coal rents (hard and soft), mineral rents, and forest rents” (World Bank 2017). *Freedom to Affect Life* (or anti-fatalism) in a given social context is drawn from the Gallup World Poll and measures the percentage of people who think that they have the freedom to affect their life choices (Helliwell, Layard, and Sachs 2018).

Second, industry-specific variables are accounted for in the following way: the level of monopolism in insurance is operationalized by *Industry*

TABLE 1 Descriptive statistics

Variable	Measurement	N	Mean	SD	Min	Max	Source
<b>Dependent</b>							
<i>Personal Purchase of Insurance</i>	Percentage of respondents who personally purchased insurance	102	.0540	.0623	.001	.4398	World Bank (2011)
<b>Independent</b>							
<i>Generalized Social Trust</i>	Percentage of respondents who agree that “Most people can be trusted” in 2011	102	.1982	.1144	.032	.603	World Values Survey (2014), Gallup (2017)
<b>Control</b>							
<i>Urbanization</i>	Percentage of urban population	102	.5109	.2050	.1091	.9461	World Bank (2017)
<i>Education</i>	Share of new entrants in the last grade of lower secondary education	101	67.37	25.38	10.02	109.74	World Bank (2017)
<i>Income</i>	GDP per capita, PPP, in constant 2011 USD	102	8117.4	6331.1	682.4	24310.0	World Bank (2017)
<i>Growth rate</i>	Average % of annual GDP growth rate between 2008–2017	102	3.9969	2.0315	-2.6713	8.2638	World Bank (2017)
<i>Insurance Penetration</i>	The ratio of underwritten premium to country GDP	102	1.62	1.63	.01	12.9	Constructed from international reports and national accounts by the author.

TABLE 1 Descriptive statistics (*cont.*)

Variable	Measurement	N	Mean	SD	Min	Max	Source
<i>Insurance Market Concentration Ratio (CR5)</i>	Concentration ratio for the share of five biggest companies by collected premium size	96	67.64	20.93	28.6	100	Constructed from annual reports of insurance supervisory commissions of different countries.
<i>Corruption</i>	Corruption Perception Index (2011)	102	30.04	10.06	15	72	Transparency International (2011)
<i>Shadow Economy</i>	Percentage of GDP belonging to shadow economy	102	.4173	.1363	.1354	0.85	Mai and Schneider (2016), Schneider (2016)
<i>Rentier Environment</i>	Percentage of GDP drawn from natural rents (2011)	100	.1139	.1302	.0001	.6012	World Bank (2017)
<i>Freedom to Affect Life</i>	Percentage of people who think that they have a freedom to affect own life choices (2011)	102	.6937	.1429	.3333	.9341	Gallup (2017)
<i>Social Support</i>	Percentage of respondents who have somebody to rely on in times of trouble in 2011	102	.7647	.1268	.3029	.9478	Gallup (2017)
<i>Post-Soviet</i>	1 = A country was formerly part of the Soviet Union, 0 if otherwise.	102	.1274	.3351	0	1	Constructed by the author.

*Concentration* ratio, measured as the ratio of the combined market shares of the five biggest firms to the whole market size of a given country (CR5). The variable was constructed based on the following sources: 1. relevant figures published by national agencies regulating the insurance industry; 2. international business reports (including the reports of Africa Re (2019), and Atlas Magazine (2016)). *Insurance Penetration* is a variable denoting the maturity of a country's domestic insurance sector and is measured as the ratio of underwritten insurance premiums to a country's GDP. The variable was constructed based on the following sources: 1. relevant figures published by national agencies regulating the insurance industry; 2. International business reports (including the reports of MAPFRE (2015), OECD (2020), PwC (2018), Africa Re (2020), and AIG (2013)).

Since post-Soviet countries have a communist legacy of pure market monopolism, I also include a dummy variable for the *Post-Soviet region* (variable = 1 if a country is a post-Soviet state, 0 = otherwise). Economic growth is a dynamic process that assumes economic efficiency over a multi-year horizon. Therefore, I measure the variable with *Growth rate*, the rate of GDP growth for 2011. Third, to account for informality-related variables, I use *Corruption* (drawn from Transparency International's Corruption Perception Index (CPI)), and *Shadow Economy* (measured as the percentage of the shadow economy in the volume of a country's GDP), both variables reflecting the situation in the year 2011. To provide an additional check for the pressure of the social environment on population insurance demand, I use *Social Support* denoting the presence of someone on whom a respondent can rely in case of an emergency (Gallup 2017).

#### 4.1.2 Model Specification

Pearson correlation coefficients of independent variables show only one salient correlation ( $> 0.60$ ) (Table 2): per capita *GDP* is saliently correlated with *Urbanization* (0.71), as is suggested by modernization theories (Kendall, Linden, and Murray 2007, 11). Collinearity diagnostics show no significant Variance Inflation Factors (VIF) values (Table 3). To further check for endogeneity, I perform the Wu-Hausman estimate and also calculate the Durbin score. First, using the 2SLS instrumental variables approach, we develop the test instrument. In the next stage, we use the instrument to obtain the Wu-Hausman estimate and Durbin score (Table 4). The significance of test statistics in the case Wu-Hausman and Durbin estimates is a sign of the presence of endogeneity. Since both of the statistics in our results are insignificant ( $p > 0.05$ ), we can conclude that our model is not likely to have endogeneity.

Consequently, the equation for the model is the following:

$$Y_i = \beta_0 + \beta_1 \text{Generalized Trust}_i + \beta_2 \text{Urbanization}_i + \beta_3 \text{Education}_i + \beta_4 \text{GDP}_i + \beta_5 \text{Growth rate}_i + \beta_6 \text{Corruption}_i + \beta_7 \text{Rentier Environment}_i + \beta_8 \text{Freedom to Affect Life}_i + \beta_9 \text{Insurance Penetration}_i + \beta_{10} \text{Concentration Ratio}_i + \beta_{11} \text{Social Support}_i + \beta_{12} \text{Post-Soviet}_i + \varepsilon_i$$

#### 4.2 *Qualitative Method*

I complement the large-N statistical analysis with a qualitative case study. While the quantitative analysis of cross-country data treats countries as cases (see Table 9), the qualitative study provides perspective on ordinary individuals' attitudes to and practices of insurance procurement. For my qualitative study, I draw on the results of three focus group discussions (FGD) held in Azerbaijan<sup>5</sup> – an emerging market with the characteristics of all our independent variables, including significant resource wealth, informality (Sadigov 2014), increasing per capita income and urbanization levels, shadow economy, social support – especially the role of familism, and post-Soviet legacy. FGD as a method was chosen to identify major inter-subjective group narratives (Roller and Lavrakas 2015), which cannot be grasped in individual qualitative interviews.

One focus group discussion was held with each of the following target groups: 1. current clients of the biggest local insurance company; 2. current clients of other insurance companies; 3. people who are potentially interested in purchasing insurance, but are not clients of any insurance companies yet. Each focus group consisted of 8 people, which is an optimal size for this method (Krueger & Casey 2014, 67). Hence, there were a total of 24 respondents divided into three FGDs. The selection of participants for each FGD was based on random sampling interviews of 250 people in different regions of Azerbaijan. From those who agreed to participate in the study, I selected 24 people based on their age, income, education, gender, and place of residence to reflect the statistical distribution of the entire Azerbaijani population, and hence ensure the representation of meaningful factors affecting insurance purchase among the FGD participants. The discussion questions touched on the following topics: 1. comprehension of insurance; 2. awareness about local companies and products on the insurance market; 3. usage of insurance services; 4. satisfaction with insurance services and the level of customer loyalty to existing companies; 5. perception of insurance salespeople; 6. perception of the biggest local insurance company; 7. perception of the local insurance market.

<sup>5</sup> FGDs were held in Baku (Azerbaijan) in December 2017 by the author of the article. The profile of each FGD participant is provided in the Appendix (Tables 6, 7, and 8).

TABLE 2 Correlation matrix

	<i>Generalized social trust</i>	<i>Urbanization</i>	<i>Education</i>	<i>Income</i>	<i>Growth rate</i>	<i>Insurance penetration</i>
<i>Generalized Social Trust</i>	1					
<i>Urbanization</i>	-0.1713*	1				
<i>Education</i>	-0.1820*	0.4536***	1			
<i>Income</i>	-0.1346	0.7150***	0.5893***	1		
<i>Growth rate</i>	-0.0035	-0.2973***	-0.1203	-0.3507***	1	
<i>Insurance Penetration</i>	-0.1301	0.2818***	0.2781***	0.3919***	-0.2079**	1
<i>Industry Concentration</i>	0.349***	-0.2394**	-0.4557***	-0.3538***	0.1269	-0.3018***
<i>Corruption</i>	-0.1981**	0.4040***	0.3252***	0.4369***	-0.1069	0.2494**
<i>Shadow Economy</i>	0.0747	-0.1413	-0.1680*	-0.3114***	0.2164**	-0.2754***
<i>Rentier Environment</i>	0.1644*	0.0229	-0.2850***	-0.1213	0.1132	-0.2451**
<i>Social Support</i>	-0.1661*	0.3345***	0.4394***	0.4280***	-0.0834	0.2586***
<i>Freedom to Affect Life</i>	-0.0480	0.0788	0.0619	0.0393	0.2933***	0.2626***
<i>Post-Soviet</i>	0.0980	0.1057	0.4343***	0.2427**	-0.1685*	-0.1380

## Notes:

\*  $p < 0.10$  (significant at 10% in a two-tailed t-test)\*\*  $p < 0.05$  (significant at 5%)\*\*\*  $p < 0.01$  (significant at 1%)

<i>Industry concentration</i>	<i>Corruption</i>	<i>Shadow economy</i>	<i>Rentier environment</i>	<i>Social support</i>	<i>Freedom to affect life</i>	<i>Post-Soviet</i>
1						
-0.2879***	1					
0.2453**	-0.2588***	1				
0.2826***	-0.2563**	0.0125	1			
-0.3559***	0.2158**	-0.1125	-0.0672	1		
-0.1485	0.1528	0.0029	-0.0938	0.260***	1	
-0.0534	-0.0195	0.0997	-0.0287	0.170*	-0.0889	1

TABLE 3 Collinearity diagnostics

Variables	VIF	SQRT VIF	Tolerance	R-Squared	Eigenval	Cond index
Generalized Social Trust	1.21	1.1	0.8236	0.1764	10.8196	1.000
Urbanization	2.55	1.6	0.3921	0.6079	0.9283	3.414
Education	2.52	1.59	0.3967	0.6033	0.8563	3.5546
Income	3.2	1.79	0.3129	0.6871	0.4626	4.8364
Growth rate	1.57	1.25	0.6362	0.3638	0.2721	6.3056
Insurance Penetration	1.51	1.23	0.6631	0.3369	0.2232	6.9626
Concentration Ratio	1.56	1.25	0.6419	0.3581	0.127	9.2296
Corruption	1.5	1.22	0.6687	0.3313	0.0857	11.2377
Shadow economy	1.34	1.16	0.7445	0.2555	0.0647	12.9279
Rentier Environment	1.44	1.2	0.6928	0.3072	0.0557	13.9386
Social Support	1.49	1.22	0.6704	0.3296	0.0437	15.7266
Freedom to Affect Life	1.38	1.17	0.7252	0.2748	0.0362	17.2938
Post-Soviet	1.62	1.27	0.619	0.381	0.0183	24.3356
Mean VIF	1.76				Condition Number: 40.2315	

TABLE 4 Endogeneity test results (Wu-Hausman test and Durbin score)

Durbin (score) $\chi^2(1)$	2.50196 (p = 0.1137)
Wu-Hausman F(1,79)	2.18408 (p = 0.1434)

## 5 Quantitative Analysis Results

The results of regression analysis (Table 5 and Figure 1 and Figure 2) support the research expectations, thus lending support to the research Hypothesis. Generalized social trust is a significant predictor of population health insurance demand. It is positively correlated with the outcome variable, meaning that a 1 percent increase in the share of generalized trust in a society increases a given population's voluntary health insurance purchase by approximately 19.1

percent. Among control variables, modernization (*Urbanization, Education, GDP*), and insurance industry-related (*Insurance Penetration, Post-Soviet*) factors are statistically significant predictors of voluntary insurance purchase. The research model correctly predicts the direction of association between the dependent, the independent, and the control variables, except for *Urbanization*. The latter is negatively associated with voluntary health insurance purchase in emerging markets. One possible explanation of the result may be that in the recent period non-urban insurance policies like agriculture/crop insurance are one the dominant segments driving the local insurance industry in many emerging markets (Crawford 2018).

TABLE 5 Predictors of insurance demand in selected emerging markets

<i>Dependent variable: voluntary purchase of health insurance</i>	
<i>Independent variable</i>	
Generalized Social Trust	.1918 (.111)*
<i>Control variables</i>	
Urbanization	-.0806 (.041)*
Education	.0006 (.0003)**
Income	3.53 (1.49)**
Growth rate	.0057 (.004)
Insurance Penetration	.008 (.004)**
Concentration Ratio	-.0001(.0002)
Corruption	.0008 (.0005)
Shadow economy	-.0003 (.0005)
Rentier Environment	-.031 (.040)
Social Support	.041 (.036)
Freedom to Affect Life	.042 (.036)
Post-Soviet	-.045 (.016)***
Constant	-.108 (.046)**
Observations	93
R <sup>2</sup>	0.5018

Notes: Absolute value of robust standard errors in parentheses.

\*  $p < 0.10$  (significant at 10%)

\*\*  $p < 0.05$  (significant at 5%)

\*\*\*  $p < 0.01$  (significant at 1%)

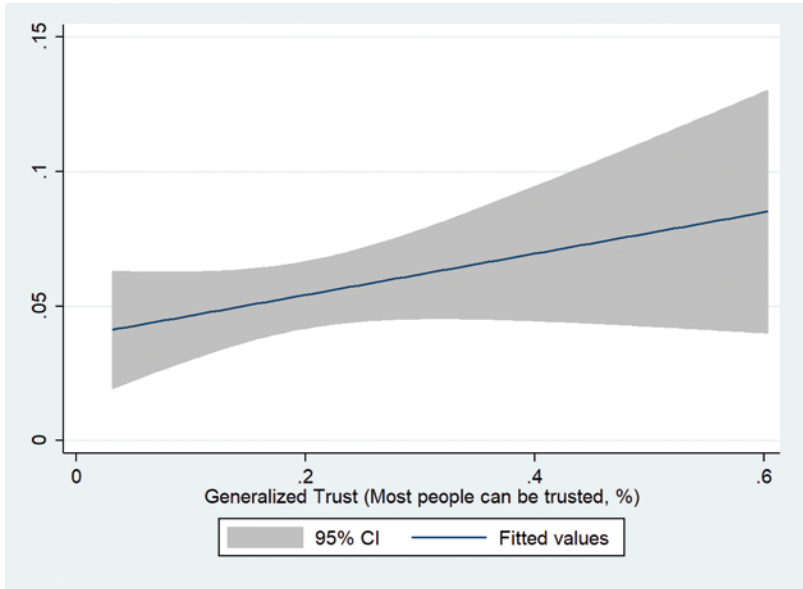


FIGURE 1 Association between generalized social trust and voluntary insurance uptake rates

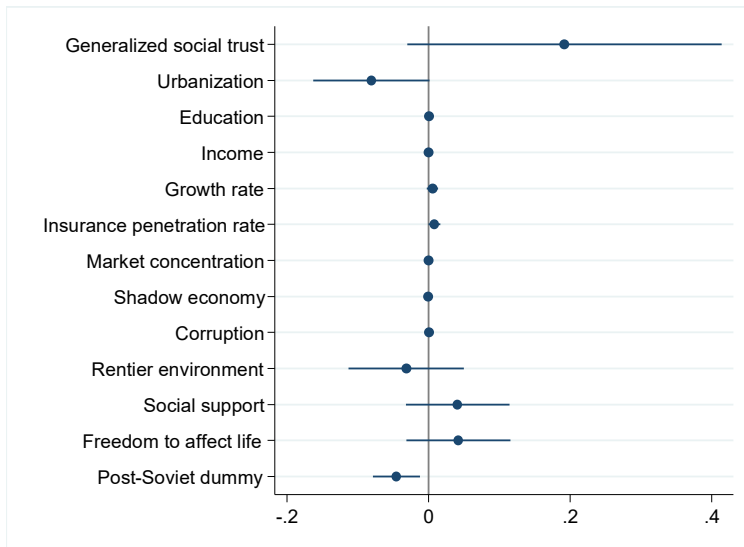


FIGURE 2 Average marginal effects for the regression model

Insignificant predictors of health insurance demand in emerging markets are informality and rule of law factors (*Shadow Economy*, *Corruption*), some socioeconomic (*Rentier Environment*), industry-specific (market *Concentration Ratio*), and individual (*Social Support*, *Freedom to affect life*) determinants. *Rentier Environment* in the research dataset included rent from all types of natural resources. The variable's weak effect on insurance demand may be because it does not localize the effect of various natural resources. While some resources may have a dramatically higher effect on economic dynamics (including the insurance industry) than others (Ross 2012), the measurement of their separate effects might be a productive avenue for further research. Insignificance of *Market Concentration* may be due to the fact that insurance markets in developing countries are dominated by international corporations (AXA, SONAR, Allianz in Africa; Allianz, Prudential, Manulife, AXA in South-East Asia; Zurich and Metlife in South America). Spanning markets and regions, these industry giants compete globally, thus ensuring tight quality control to ensure high customer satisfaction. Consequently, a high market concentration spearheaded by the mix of internationally active players and purely domestic companies (especially in MENA and Latin America) may not necessarily negatively affect the population's voluntary purchase of health insurance, while the high market concentration in some regions (like the post-Soviet one) leads to the monopolization by local companies which do not compete in international markets beyond their respective countries. In the latter case, a high market concentration should lead to the decreasing quality of service, as is discussed in-depth later, in the qualitative research section.

The random effect of the rule of law (shadow economy, corruption) on voluntary health insurance purchase can possibly be due to the fact that corruption in some cases may potentially increase the rates of economic development, savings, and market activity (Aidt 2003, Huntington 1968). Corruption in emerging markets with deficiencies in governance may enable market actors to buy their way through bureaucratic red tape (Rose-Ackermann 1999). As a result, corruption may not have a consistently uniform effect on economic dynamics (including the insurance industry). The random effect of *Social Support* on voluntary health insurance uptake may be due to significant cultural differences among countries (Hofstede 1991, Banfield 1958).

## 6 Qualitative Analysis

### 6.1 *Background: the Insurance Industry in Azerbaijan*

The latest industry statistics show that the Azerbaijani insurance sector, although profitable, is characterized by a very weak penetration and density by

average international standards. While in 2010 the insurance sector accounted for 2% of GDP, in 2017 insurance accounted for only 0.79% of GDP. This is not drastically different from 2016 when the insurance penetration rate stood at 0.81%. On average, insurance payments in Azerbaijan are 15 times lower than average payments internationally (Aliyeva 2011, 4). Hence, the insurance business is relatively less mature in Azerbaijan than in other countries. The concentration ratio as the share of the top five insurance market companies (CR5) in Azerbaijan equals 76.8% (FMSA 2018a), which is higher than the international average of 67.64% (Swiss Re 2017).

More importantly, voluntary insurance uptake levels among Azerbaijani citizens are low. The existing socio-economic structure incentivizes them to turn to insurance to avoid state punishment for the lack of compulsory coverage (like in the case of car insurance). The measure of the research's dependent variable for Azerbaijan is 1.2% of the respondents who voluntarily purchased health insurance. The result closely replicates other studies (World Bank 2005), which put the national level of health insurance coverage at 1% of the population. According to FMSA (2018d) data endowment insurance stands out as the dominant one. According to an insurance expert, Anar Sadikhov, endowment insurance cannot be viewed as a valid part of a voluntary insurance portfolio in Azerbaijan, because from the early-2010s this type of insurance was actively used by employees to evade compulsory state pension payments. According to local legislation, an employee had a choice to transfer part of his/her pension payments to an endowment insurance account, from which s/he could start earning additional interest rates (like in bank deposits). As a result, an increasing number of eligible employees started to use endowment insurance as a scheme to save on compulsory pension payments while getting additional interest income (author's interview with Anar Sadikhov in January 2018). To put it differently, endowment insurance is perceived by employees as a source of rentier earnings, rather than a rational instrument for managing risks.

Hence, the insurance industry in Azerbaijan is dominated by an incentive structure that leads to a weak voluntary population uptake: people pay for insurance when it is compulsory by law to have it. In the majority of cases then, purchasing insurance is either an instrument to increase financial yield or an act of avoiding legal punishment for breaking compulsory insurance requirements, rather than the result of rational-instrumental calculation by placing the burden of risks on insurance products. As our FGDs show, for "insurance" in a latter sense Azerbaijanis mostly prefer to rely on informal connections, borrowing resources from family and friends while under duress.

## 6.2 Focus Group Discussion Findings

FGD results are used to shed light on incentives that the existing state-level socio-economic environment provides for individuals when they are faced with a need for insurance. The main thread of the discussions during the FGDs consisted of numerous stories about insurance companies' 'unjust', 'selfish', and 'predatory' decisions in insurance cases. This is supported by many reports in which people lament insurance company 'fraud' in Azerbaijan (Karimzada 2018). Consequently, the majority of the focus group participants had low trust in the local insurance industry. Participant reasoning was the following: insurance companies and their clients have opposing interests. When an insurance case is approved, the insurance provider bears the costs, and thus earns less. On the other hand, if an insurance company succeeds in lowering the number and volume of payments to clients, the company earns more. As a result, potential and current insurance clients among my focus group respondents demonstrated almost no trust in insurance companies. The respondents argued that the companies would use every opportunity to dodge valid insurance cases. Or when unable to avoid payments, insurance companies will do everything in their power to pay less than is required to cover client damage. For instance, one of my FGD participants argued that she faced a situation when a local medical insurance company changed her doctor's original prescription for cheaper drugs that did not treat her health problem effectively. Thus, the respondent perception of the insurance sphere is that of a zero-sum game, in which insurance companies have all the leverage and ambition to cheat their clients of valid payments. Therefore, FGD participants argued that to successfully get claims from insurance companies, one needs to have informal acquaintances (*tapş*) (Sayfutdinova 2018) in a given insurance company – otherwise it is almost impossible to get fair treatment.

As a counterpoise, the respondents argued that a higher emphasis on ethics, and the dominance of morality both on a societal level and individually is the only factor that can potentially keep insurance companies from breaching their formal contractual obligations toward their clients. Ethics and morality were seen by the FGD participants as the only mechanisms that guarantee the concurrence between officially declared norms (rules, laws) and their actual enforcement. The respondents defined morality as a glue that holds society together when other formal and some informal mechanisms are disintegrating under monetary relations. Neither better legislation, nor better enforcement of existing laws was viewed as a viable solution to address the perceived fundamental disparity of interests between insurance companies and their clients. Respondents reasoned that if laws are enforced and followed inadequately in

other social spheres in Azerbaijan, then they will not be followed also in the insurance business, dominated by companies with a high capacity to hijack public interest. Only better/higher ethics and conscience of insurance providers can force insurance agents to respect contracts. Generally, a social environment dominated by ethics narratives and concomitant ceremonial formalism (as opposed to instrumental rationality) has been shown to define choices of the Azerbaijani and generally post-Soviet citizens in agriculture (Wegren 2005), attitudes toward legality and enforcement of contracts (Ledeneva 2006), education and research (Libman & Zweynert 2014), and other spheres (Zavisca and Gerber 2016). Hence, personal ethics becomes a counterpoise to the pervading lack of trust among post-Soviet actors striving for collective action (Yakovlev, Freinkman, Ershova 2017). Preference for ethical (rather than technocratic) solutions to socioeconomic problems is corroborated by other empirical data on the Azerbaijani population. The survey of the Azerbaijani Citizens' KAP toward bribe offers (2015) (Sadigov 2017) showed that the respondents saw the root cause of many social problems in Azerbaijan (corruption, high divorce rates, early marriages) in the weak stature of ethics in society.

As a result of this ethics-dominated perception, the FGD participants did not define the insurance sphere as a business, based on mutual benefits, in which companies have to earn money by providing services. Instead, the field of insurance was viewed by the respondents as a service akin to state welfare, or first medical aid, in which a suffering citizen can never shoulder responsibility for causing insurance damage – because of being a victim in an insurance situation. For instance, if a client of an insurance company causes a car accident, in which she suffers physical injuries or her car gets damaged, then, according to the majority of the FGD respondents, she should not be liable for any insurance costs, even though formally (i.e., according to her insurance contract) she is guilty of creating the insurance situation. For the FGD respondents, being a victim of an insurance situation is already enough of a burden, which relinquishes the clients of any liabilities before insurance companies and other people involved in the case, even though the formal contract between the client and the company may stipulate client liability for causing the accident. Participants in all three FGDs agreed that the relations between insurance companies and their clients should be based on the scale of resulting damages for a specific accident and not on uniform contracts because the final resulting damage for the clients widely varies from one situation to another. Thus, the dominant collective narrative of FGD participants is the localization of standardized global rules, i.e., changing the scope of applicability and the meaning of universal laws according to specific circumstances.

According to the FGD respondents, if insurance companies demand liability from their clients under duress, then these insurance companies act

immorally, display egoism, and hence are surely trying their best to defraud their clients. At the same time, the respondents involved in the focus groups confessed that they never read insurance contracts because of 'laziness' (6 FGD participants out of a total of 24 participants), and a 'lack of interest in details' (12 out of 24 FGD participants). They rather passively sign these contracts. The respondents assigned an insurance company the role of a 'parent' whose main mission is to care for the 'safety' of its often irresponsible 'children' – i.e., its clients. Consequently, the respondents demonstrate a dominant social narrative of clear-cut passivity, and reactive attitudes toward responsibilities, which was noted in Azerbaijani insurance customers in other studies too (Ibrahimli 2016).

As a result, when insurance companies do not fit this population-devised idealized image and require their clients to take responsibilities outlined in formal contracts, this reality leads to very negative feedback from local insurance consumers. The FGD participants agreed that insurance company insistence on formal contractual relations as very cold, detached and inhumane attitude that does not consider the peculiarities of various insurance situations and local circumstances which can take place in life. As one participant noted, the 'most important quality of an insurance agent is compassion, understanding that a client's distress is not an object of [insurance claim] negotiations'.

All these developments show a social environment inconducive to trust in insurance companies. A shared sentiment among the FGD participants was that it is more advisable and safer to rely on old and trusted informal social safety nets, turning to financial and health-related assistance to their kin, friends, and neighbors to mitigate the consequences of emergencies. In most cases, current and potential clients among the FGD participants did not know basic information about insurance products and business, its logic, assumptions, and inner workings. This finding is corroborated by other researchers. According to Ibrahimli, the level of insurance knowledge in Azerbaijan is so low that people treat their insurance policy as a formal document (on par with a driver's license or vehicle registration document) to be presented to police during an accident: 'the majority of people ... are not even aware that they could get paid based on insurance policy' (Ibrahimli (2017). Low population awareness also substantially decreases the rates of voluntary insurance purchase.

### 6.3 *Putting FGD Findings in the Social Context of Azerbaijan*

What society-wide processes can shed light on the FGD findings? The dominance of informality and the rentier nature of the local economy in the wake of the oil boom are potent society-wide factors that may potentially shape insurance practices and their perception by individuals in Azerbaijan.

Azerbaijani society historically has been dominated by the traditional ethos of neopatrimonialism and nepotism (Ramazanova 2011; Sadigov 2018). The dominance of informality and internationally low level of interpersonal trust (Sadigov 2017) leads to population distrust for any formal institutions, including contractual relations. On the one hand, insurance clients in Azerbaijan project their patrimonial image of society on insurance companies and see them as parents of a big family of clients. This means that formal client-firm communication based on formal contracts is seen as out of place. Communicating with insurance companies through the lens of informality, insurance clients try to go beyond their formal contracts.

It is not coincidental that some FGD participants argued that opening insurance cases and receiving insurance payments are bound only on personal acquaintances and protection in insurance companies. In this case, the majority of clients may not think of formal insurance contracts as something important at all. In such a volatile social context where formal rules are not respected and are weakly enforced, economic actors are predictably wary of investing money with insurance companies that offer in exchange “just a piece of contract paper which can easily be reneged upon” (male, 29 years-old, FGD-3 participant).

A considerable improvement in living standards in Azerbaijan led to the exacerbation of interpersonal distrust, nepotism, and conflict. Since 2005<sup>6</sup> Azerbaijan experienced an oil boom. The ensuing dramatic rise in per capita incomes led to the rentier economic development model, in which government spending relies heavily on oil windfalls. The Azerbaijani population's economic activity replicates this rentier model. Roughly between 7–10% of the economically active population in Azerbaijan lives off a rentier income (SSCAR 2018).

In such a rentier context, when both state and population depend on natural and monetary rents, without active production of added value based on the instrumental application of scientific methods, insurance based on a business model of probabilistic monetary efficiency may not be easily accepted. Living off natural rents, the population may project the same type of business model to insurance companies. In this type of thinking, insurance payments of clients are an ‘easy prey’ source of money that people feed companies for further ‘consumption’. In this mindset, an insurance company does not have an obligation to provide any service. In line with this, one of the dominant views among the FGD participants of the study was that the insurance business did

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6 The year when first oil revenues from 1994 oil contracts started to flow into the state budget.

not add any economic value – these companies just feed off client payments akin to ‘donations’, while doing their best to shield themselves off from their clients’ claim payments.

## 7 Conclusion

This article offered a comprehensive analysis of the determinants of voluntary health insurance purchase in emerging markets. Addressing the dearth of empirical measurements of voluntary insurance purchase by emerging market populations, this article provides a systematic analytical measurement of the impact of social trust on voluntary health insurance uptake in emerging markets. Combining regression analysis and qualitative FGD data in a mixed-methods research design, this article argues that generalized social trust is positively associated with voluntary insurance purchases among emerging market populations. Qualitative data contributes to large-N statistical analysis by showing how the dominance of informality, and a rentier economic environment leads to the rejection of formal insurance in an insurance market with a high concentration and weak competition.

This article has several theoretical implications. First, by establishing a positive association between generalized trust and insurance demand, this article’s findings contribute to the debates in insurance research. My findings support a broader claim that significant trust in a social environment in emerging markets creates incentives to invest their resources in long-term insurance schemes. Thus, less trust in society pushes people to integrate more with family and friends in bonding social structures, and hence rely on informal safety nets, rather than formal insurance contracts with companies.

Second, the research finding of the insignificant effect of the rentier environment on population insurance demand contributes to resource-dependence literature, by implicitly showing that oil and gas rents may have a more dramatic effect on the development of markets and economies in comparison to the dependence on other natural rents. Third, the finding that the rule of law (*Shadow Economy, Corruption*) has a statistically insignificant effect on voluntary health insurance purchase corroborates studies with a similar outcome (Kjosevski 2012). More broadly, the finding contributes to the academic debates on whether corruption raises or decreases market efficiency (Meon and Weill 2010). Concurring with broader literature, the finding may suggest that the effect of corruption and shadow economy on population choices (including insurance procurement) is mediated by an intermediate mechanism.

As suggested by relevant literature (Bardhan 1997, Rose-Ackerman 1999), most likely corruption aids market operation in countries with weak bureaucratic efficiency.

Several suggestions for future research can be proposed in turn. First, subsequent studies can expand this article's scope, by collecting and researching data on all emerging market populations' voluntary purchase of insurance products in general. Second, future studies are well advised to pursue further some unexpected results of the research. The random effect of rule of law (corruption and shadow economy), the role of resource rents, the effect of insurance market competition on potential and actual customer satisfaction, and the impact of social support on insurance procurement are all important research problems in their own right. Third, methodologically, future research can use small-N studies comparing developments in various countries to provide further a nuanced picture of the causal impact of generalized trust on emerging market populations' insurance perception, demand, and actual uptake. The combination of a large-N study with a single-case analysis by this research should be viewed as an initial step, while future research can expand available research cases. This might help the insurance industry, as more recent and comprehensive data on incentives for voluntary insurance purchase by population in emerging markets becomes available.

### Disclosure Statement

No conflict of interest was reported by the author.

### Appendix: FGD Participant Information

TABLE 6 The list of the participants for the Focus Group Discussion One

#	Name, surname	Residence	Monthly income	Profile
1	Anonymous	Capital	AZN 2000	39-year-old male director of an auto-garage
2	Anonymous	Mid-size provincial town	AZN 700	24-year-old male mortgage specialist at a local branch of an Azerbaijani bank
3	Anonymous	Rural	AZN 500	48-year-old female entrepreneur

TABLE 6 The list of the participants for the Focus Group Discussion One (*cont.*)

#	Name, surname	Residence	Monthly income	Profile
4	Anonymous	Big Provincial city	AZN 680	30-year-old male supervisor for big food wholesaler
5	Anonymous	Capital	AZN 400	42-year-old female accountant for a local company
6	Anonymous	Big Provincial city	AZN 700	32-year-old male sales manager
7	Anonymous	Capital	AZN 800	53-year-old female leading specialist of the Central Bank of Azerbaijan
8	Anonymous	Capital	AZN 1200	25-year-old male consultant at a local branch of international consulting agency

TABLE 7 The list of the participants for the Focus Group Discussion Two

#	Name, surname	Residence	Monthly income	Profile
1	Anonymous	Capital	AZN 1000	34-year-old male public servant
2	Anonymous	Mid-size provincial town	AZN 300	27-year-old female sales representative of a local company
3	Anonymous	Rural	AZN 800	48-year-old male private entrepreneur
4	Anonymous	Capital	AZN 1100	25-year-old male consultant for local company
5	Anonymous	Capital	AZN 400	31-year-old female deputy director for a local company
6	Anonymous	Big Provincial city	AZN 1300	47-year-old male entrepreneur
7	Anonymous	Capital	AZN 400	37-year-old female specialist for local company
8	Anonymous	Rural	AZN 800	29-year-old male entrepreneur

TABLE 8 The list of the participants for the Focus Group Discussion Three

#	Name, surname	Residence	Monthly income	Profile
1	Anonymous	Big Provincial city	AZN 270	29-year-old female working as a doctor in provincial city polyclinic
2	Anonymous	Rural region	AZN 200	33-year-old female teacher at the local secondary school
3	Anonymous	Mid-size provincial town	AZN 1200	41-year-old male entrepreneur
4	Anonymous	Capital	AZN 370	55-year-old scientific female worker at the National Academy of Sciences
5	Anonymous	Capital	AZN 500	48-year-old female leading specialist at a statistical agency
6	Anonymous	Capital	AZN 400	37-year-old female manager at a local medical equipment procurement company
7	Anonymous	Big Provincial city	AZN 800	50-year-old male corrector at a local TV channel
8	Anonymous	Capital	AZN 600	25-year-old male seller

TABLE 9 List of countries included in the study

Country name	ISO code
Afghanistan	AFG
Albania	ALB
Algeria	DZA
Angola	AGO
Argentina	ARG
Armenia	ARM
Azerbaijan	AZE
Bangladesh	BGD
Belarus	BLR

TABLE 9 List of countries included in the study (*cont.*)

Country name	ISO code
Benin	BEN
Bolivia	BOL
Bosnia and Herzegovina	BIH
Botswana	BWA
Brazil	BRA
Bulgaria	BGR
Burkina Faso	BFA
Burundi	BDI
Cambodia	KHM
Cameroon	CMR
Central African Republic	CAF
Chad	TCD
Chile	CHL
China	CHN
Colombia	COL
Comoros	COM
Congo, (Brazzaville)	COG
Congo, (Kinshasa)	COD
Costa Rica	CRI
Djibouti	DJI
Dominican Republic	DOM
Ecuador	ECU
Egypt, Arab Rep.	EGY
El Salvador	SLV
Gabon	GAB
Georgia	GEO
Ghana	GHA
Guatemala	GTM
Guinea	GIN
Haiti	HTI
Honduras	HND
India	IND
Indonesia	IDN
Iraq	IRQ
Jamaica	JAM

TABLE 9 List of countries included in the study (*cont.*)

Country name	ISO code
Jordan	JOR
Kazakhstan	KAZ
Kenya	KEN
Kosovo	XXK
Kyrgyz Republic	KGZ
Lao PDR	LAO
Latvia	LVA
Lebanon	LBN
Lesotho	LSO
Liberia	LBR
Lithuania	LTU
Macedonia	MKD
Madagascar	MDG
Malawi	MWI
Malaysia	MYS
Mali	MLI
Mauritania	MRT
Mauritius	MUS
Mexico	MEX
Moldova	MDA
Mongolia	MNG
Montenegro	MNE
Morocco	MAR
Nepal	NPL
Nicaragua	NIC
Niger	NER
Nigeria	NGA
Pakistan	PAK
Panama	PAN
Paraguay	PRY
Peru	PER
Philippines	PHL
Romania	ROU
Russia	RUS
Rwanda	RWA
Senegal	SEN

TABLE 9 List of countries included in the study (*cont.*)

Country name	ISO code
Serbia	SRB
Sierra Leone	SLE
South Africa	ZAF
Sri Lanka	LKA
Sudan	SDN
Swaziland	SWZ
Syrian Arab Republic	SYR
Tajikistan	TJK
Tanzania	TZA
Thailand	THA
Togo	TGO
Turkey	TUR
Uganda	UGA
Ukraine	UKR
Uruguay	URY
Uzbekistan	UZB
Venezuela, RB	VEN
Vietnam	VNM
West Bank and Gaza	PSE
Yemen, Rep.	YEM
Zambia	ZMB
Zimbabwe	ZWE

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