Bad Advice: Explaining the Persistence of Whole Life Insurance

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Abstract

We conduct a series of field experiments to evaluate two competing views of the role of financial intermediaries in providing product recommendations to potentially uninformed consumers. The first argues that financial intermediaries may provide valuable product education, helping consumers decide which of many complicated products is right for them. The second view argues that intermediaries recommend and sell products that maximize the agents well-being. Audit studies in the Indian insurance market find evidence consistent with the second view: agents recommend a product that provides them high commissions, though it is strictly dominated by alternative products. Consumers demonstrating lower levels of sophistication are more likely to be offered the wrong product. Finally, we exploit a natural experiment that occurred during out audits to test how disclosure requirements affect product recommendations. We find that requiring disclosure of commission levels makes agents less likely to recommend the product for which disclosure is required.

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1 Introduction

This paper examines the market for life insurance in India. We study how commissions motivate agents to provide advice and to reveal information about financial products, and how consumers use (or misuse) this information in making financial decisions. This topic is timely given the financial crisis and related proposals for strong regulation of agent behavior in retail finance. Mortgage brokers, for example, have been widely blamed for making loans that were too large for low income borrowers during the height of the recent housing boom.

We focus on the market for life insurance in India for the following reasons. First, given the complexity of life insurance, consumers likely require help in making purchasing decisions. Second, popular press accounts suggest that life insurance agents in India engage in unethical business practices. Agents are often accused of promising unrealistic returns¹ or suggesting only high commission products. Third, the industry is large, with approximately 44 billion dollars of premiums collected in the 2007-2008 financial year, 2.7 million insurance sales agents who collected approximately 3.73 billion dollars in commissions in 2007-2008, and a total of 105 million insurance customers. Approximately 20 percent of household savings in India is invested in whole life insurance plans (IRDA 2009). Fourth, approximately 90 percent of insurance purchasers buy through agents, thus agent behavior in this market has large ramifications. And lastly, the policy environment for household financial products is changing rapidly in India, and better information on how these markets work is crucial for making optimal policy.

Commissions motivated sales agents are of particular importance in emerging economies where a large fraction of the population currently does not have access to household financial services such as life insurance, mutual funds, and bank accounts. Supporters of commission-based distribution often argue that commissions give brokers the incentive to educate households. Emerging markets, in particular, have a large number of newly middle-class households without any prior experience with such financial products. Systematic empirical evidence is needed to inform the policy debate about whether commissions motivated agents are suitable for encouraging the adoption of complicated household financial products.

This project consists of two related experiments. Both use an audit study methodology, in ¹See for example, "LIC agents promise 200% return on '0-investment' plan," Economic Times, 22 February 2008. which we hired and trained individuals to visit life insurance agents, express interest in life insurance policies, and seek recommendations. The goal of the first set of audits was to test whether, and under what circumstances, agents recommend products suitable for consumers. In particular, we focused on two common life insurance products: whole life and term life. We chose these two products because, in the Indian context, consumers are always better off purchasing a term life insurance product than whole life. (In section II, we detail how a consumer can combine a savings account with a term insurance policy, providing four times more investment value over their life). In the first part of the study, our auditors would visit agents, explaining that they are primarily interested in risk coverage, not investment, and ask for a suitable product.

A range of evidence suggests that individuals with low levels of financial literacy make poor investment decisions (Lusardi and Mitchell, 2007). One of the most frequently advocated policy responses is to provide individuals with financial advice. This solution makes sense only if those with limited literacy receive good advice. In this first set of audits, we tested whether advice provided by agents varies by the level of sophistication her clients demonstrate. In fact, we find that less sophisticated agents are more likely to receive a suggestion for whole insurance, suggesting that agents discriminate in the types of advice they provide. We also tested whether agents provided better advice to prospective buyers who signaled that they were "shopping around"; Overall, the evidence from the first set of 196 audits suggests that life insurance agents provide bad advice.

In the second set of audits we test economic theories on how disclosure regulation affects the quality of advice provided by life insurance agents. Mandating that agents disclose commissions has been a popular policy response to perceived mis-selling. In theory, once consumers understand the incentives faced by agents, they will be able to filter the advice and recommendations, improving the chance they choose the product best suited for them, rather than the product that maximizes the agents commissions. We take advantage of a natural experiment: as of July 1, 2010, the Indian insurance regulator mandated that insurance agents disclose the commissions they earned on equity linked life insurance products. As of now we have data on 140 audits conducted before July 1, and 118 audits conducted after July 1.

This paper speaks directly to the small, but growing, literature on the role of brokers and financial advisors in selling financial products. This literature is based on the premise that, in contrast to the market for consumption goods such as pizza, buyers of financial products need advice and guidance both to determine which product or products are suitable for them, and to select the best-valued product from the set of products that are suitable.

The theoretical literature can be, in some sense, divided into two strands: one posits that consumers are perfectly rational, understand that incentives such as commissions may motivate agents to recommend particular products, and therefore discount such advice. A second set of literature argues that consumers are subject to behavioral biases, and may not be able to process all available information and make informed conclusions.

Bolton at al. (2005) develops a model in which two intermediaries compete, each offering two products, one suitable for one type of clients, the other for the other type of clients. While intermediaries have an incentive to mis-sell, competition may eliminate misbehavior. Indeed, while one might presume that in a world with competition, in which consumers can rationally discount biased advice, commissions to agents would not play an important role in consumer decisions, this is not necessarily so. Inderst and Ottaviani (2010) show that even in a fully rational world, producers of financial products will pay financial advisors commissions to promote their products. Del Guerico and Reuter (2010) argue that sellers of mutual fund products in the US that charge high fees may provide intangible financial services which investors value.

A second, more pessimistic, view, argues that consumers are irrational, and market equilibria in which consumers make poorly informed decisions may persist, even in the face of competition. Gabaix and Laibson (2005) develop a market equilibrium model in which myopic consumers systematically make bad decisions, and firms do not have an incentive to debias consumers. Carlin (2009) explores how markets for financial products work in which being informed is an endogenous decision. Firms have an incentive to increase the complexity of products, as it reduces the number of informed consumers, increasing rents earned by firms.

The theoretical work is complemented by a small, but growing, empirical literature on the role of competition and commissions in the market for consumer financial products. In a paper that precedes this one, Koerner, Mullainathan, and Schoar (2010) conduct an audit study in the United States, examining the quality of financial advice provided by advisors. Woodward (2008) demonstrates mortgage buyers in the U.S. make poor decisions while searching for mortgages. A series of papers (e.g. Choi et al 2009) demonstrate that consumers fail to make mean-variance efficient investment decisions, paying substantially more in fees for mutual funds, for example,

than they would if they consistently bought the low-cost provider. In work perhaps most closely related to this paper, Bergstresser et al. (2009) look at the role of mutual fund brokers in the United States. They find that funds sold through brokers underperform those sold through other distribution channels, even before you account for substantially higher fees (both management fees and entry/exit fees). Buyers who use brokers are slightly less educated, but by and large similar to those who do not. They do not find that brokers reduce returns-chasing behavior.

In the next section we describe the basic economics of the life insurance industry in India including detailed calculations on why whole insurance policies are dominated by term policies and economic theories of why individuals might still purchase whole policies. In Section III we present a simple model of communication between life insurance agents that motivates the design of our audits. Section IV presents the experimental design and Section V presents our results. Section VI concludes.

2 Term and Whole Life Insurance in India

Life insurance products may be complicated. In this section, we lay out key differences between term and whole life insurance products, and demonstrate that the insurance offerings from the largest insurance company in India violate the law of one price, as long as an individual has access to a bank account.

We start by comparing two product offerings from the Life Insurance Corporation of India (LIC). For many years, LIC was the government-run monopoly provider of life insurance and still maintains a very large market share: LIC policies constituted 70.9 percent of new policies issued during 2008-2009 (IRDA 2009). We consider the LIC Whole Life Plan (Policy #2), and LIC Term Plan (Policy #162), for coverage of Rs. 500,000 (approximately USD \$12,000), for a 34 year old male with no adverse health conditions, commencing coverage in 2010.

For the whole life policy, such a customer would make 47 annual payments of Rs. 13,574 each (ca. \$260 at 2010 exchange rates). The policy pays Rs. 500,000 if the client dies before age 80. In case the client survives until age 80, which would be the year 2056, the product pays a maturation benefit equal to the coverage amount (Rs. 500,000). In addition, the client may receive "bonus" payments each year, which the insurance company will declare if profitable. Unlike interest or

dividends, these bonus payments are not paid to the client directly. Rather the bonus is added to the notional coverage amount, paid in case of death of the client, or, at maturity. The insurance company does not make any express commitment as to whether, and how much, bonus it will offer, but historically has offered bonuses of approximately 2-3 percent. We assume in our analysis that the bonus will be three percent each year the client is alive.

A critical point to be made here is that the bonus is not compounded. Rather, the bonus added is simply the amount of initial coverage, multiplied by the bonus fraction. For example, if the company declares a 3% bonus each year, the amount of coverage offered by the policy will increase by .03*500,000=Rs. 15,000 each year. Thus, after 47 years, when the policy matures, its face value will be Rs. 500,000 + 47*15,000=Rs. 1,205,000.

In contrast, if the policy premium grew at 3 percent per year (which would happen if the bonus payments were compounded), the policy would have a face value of Rs. 500,000*1.03^47, or Rs. 2,005,947, roughly 2.7 times higher. Stango and Ziman (2009) present evidence from psychology that individuals have difficulty understanding exponential growth, suggesting households may not truly appreciate the economic importance of the fact that the bonus payments are not compounded.

In Table 1, we compare the relative value the term versus life insurance, which costs Rs. 13,574 per year for 25 years, by constructing a "replicating portfolio" which includes bank savings and term life insurance, and provides equivalent coverage to the Rs. 500,000 whole life policy, and costs exactly the same amount as the whole life policy. Specifically, we consider a term life insurance plan that offers coverage of Rs. 500,000, for a twenty-five year term. As of April 2010, such a policy required an annual payment of Rs. 2,507. Compared to purchasing the whole life policy, a term buyer would thus pay Rs. 13,754-2,507=11,067 Rs. less for the first twenty-five years, and 13,754 Rs. less for each year from 26 to 47 years in the future. The replicating portfolio places these savings in term deposits at a government-owned bank, paying an assumed interest rate of 8 percentage points.

By the time term policy expires (2035), both the whole policy and replicating portfolio (by now, containing only the savings account, as the term policy will have expired without value) will have face values of Rs. 875,000, though of course the savings account will be much more liquid and therefore more valuable. From 2035 until 2056, the term policy will continue to grow at 8% compound interest, while the whole life policy will accrue 3 percent (non-compounded) bonuses.

How much more expensive is the term policy? Prior to maturity, the comparison is difficult, because the savings account is liquid, while the insurance policy is not. However, on the buyer's 80th birthday, the savings account will have a balance of approximately 5.1 million Rs., which is 4.2 times higher than the maturity value of the life insurance product.

Thus, for an equivalent investment, the buyer receives four times as much benefit if she purchases term plus savings relative to whole. We are not aware of many violations of the law of one price that are this dramatic. A benchmark might be the mutual fund industry: \$1 invested in a minimal fee S&P 500 fund might earn 8% per annum, and therefore be worth \$21 after 47 years. If an investor invested \$1 in a "high cost" mutual fund that charged 2% in fees, the value after 47 years would be 10.3, or about half as large. Thus, the markup of life insurance is in some sense twice as large as the mark-up on the highest cost index funds.

It is interesting to note that life insurance agents typically do not conduct the type of calculations we have just discussed to persuade clients towards or away from term insurance policies. They tend to rely on general statements about the differences between products. For example, two agents claimed that term insurance is not for women. Table 9 presents some anecdotes on particularly outlandish claims real life insurance agents made during our audits to persuade clients towards whole policies away from term.

3 A Model of Insurance Sales

In this section, we develop a very simple model which describes the interaction between agents and customers.

The life insurance product has a 'true' utility for the agent, u(), and perceived utility, v(). We draw this distinction because evaluating life insurance products is a difficult problem: individuals must not only know the probability they will die, but also understand how to properly discount future payments and benefits, and, in the case of whole insurance, must understand how investment value accrues in the product. This investment value is often stochastic. Conversations with a number of buyers of whole life insurance suggest that many individuals do not have a clear understanding of how investment value accrues.

We denote p^T the quantity of insurance term, and p^W the quantity of whole life insurance

the buyer purchases. Term life insurance is twice as expensive as whole life insurance, so for a given expenditure on whole (q^w) or term (q^t) the agent derives utility $u\left(q^t + \frac{q^w}{2}\right)$, where u' > 0, u'' < 0. We divide the expenditure on whole insurance, q^w , by 2 because it is substantially more expensive coverage.

However, agents do not necessarily perceive the true utility of a particular product. Perceived utility is v(), where again, v' > 0 and v'' < 0.

We characterize the misperception by multiplying the premium amount by τ for term, and ω for whole, inside the utility function.

$$v\left(q^{t}\right) = u\left(\tau q^{t} + \omega \frac{q^{w}}{2}\right)$$

Sophisticated agents would have $\tau = \omega = 1$, and correctly perceive that whole life insurance is twice as expensive as term life insurance.

Unsophisticated agents may have $\tau < 1$ and $\omega > 2$, and thus choose to purchase only whole life insurance.

Customers vary by type. The most important dimension for our purposes is the level of sophistication. Customers may be Sophisticated (S) or non-sophisticated (N) about the relative value of term vs. whole life insurance.

The marketing game:

- 1. Buyer arrives, potentially signalling sophistication
- 2. Agent (optionally) makes a sales pitch, in which they seek to increase τ , ω , or both.
- 3. Agent makes a 'final recommendation'
- 4. Buyer purchases or moves on

Agents are compensated in the following manner: the agent is paid Λq^w if buyer purchases a whole policy, or λq^t if the buyer purchases a term policy, with $\lambda < \Lambda$. An agent has one unit of persuasion effort, which can be allocated across eight possible statements. The agent can talk up (or talk down) term, which has the effect of raising τ (or lowering it), or the agent can talk up (or talk down) whole, raising (or lowering) ω . Moreover, the agent can do so by making true claims or by making false claims. Examples of true claims would be statements about historic bonus payouts; examples of false claims would be forward looking statements ("bonuses are sure to increase") or comments about the suitability of a particular product ("term policies only make sense for businessmen.") Table 9, discussed below, contains examples of false and inappropriate claims made by sales agents.

Formally, after an information session, an agent can change the buyers view of both products to:

$$\hat{\tau} = \tau + \sqrt{e_h^\tau} + \sqrt{e_d^\tau} \tag{1}$$

$$\hat{\omega} = \omega + \sqrt{e_h^{\omega}} + \sqrt{e_d^{\omega}} \tag{2}$$

subject to the constraint that $e_h^{\tau} + e_d^{\tau} + e_h^{\omega} + e_d^{\omega} = 1$.

Of course, an agent can also talk down the value of a policy, in which case the view following an interview would be:

$$\hat{\tau} = \tau - \sqrt{e_h^\tau} - \sqrt{e_d^\tau} \tag{3}$$

$$\hat{\omega} = \omega - \sqrt{e_h^{\omega}} - \sqrt{e_d^{\omega}} \tag{4}$$

Finally, the agent could talk up the value of one type of policy, while talking down the value of another.

We assume that sophisticated agents may be persuaded by honest statements, but not by dishonest statements; in contrast, unsophisticated agents are persuaded equally by both honest and dishonest statements.

Suppose only Term Life insurance is available, and the customer will purchase the policy with certainty.

In this case the customer will purchase insurance until the marginal utility of insurance is no greater than that for any other good (μ):

$$v'\left(q^{t}\right) = u'\left(\hat{\tau}q^{t}\right) = \mu$$

The benefit of persuasion is to increase $\hat{\tau}$, therefore the quantity of insurance purchased, and thus the commission. For a sophisticated buyer, effort choice would be $e_h^{\tau} = 1$, for an unsophisticated buyer, effort choice would be $e_h^{\tau} = e_l^{\tau} = \frac{1}{2}$.

An agent's decision problem is more difficult when the buyer may choose between whole and term.

CASE 1. τ large and ω small. If τ is very large and ω very small, then the agent would realize there is no point in exerting effort to raise ω , because the buyer will buy only the term policy. Hence, the agent would exert effort only to increase τ , and set $e_h^{\tau} = 1$ for a sophisticated buyer, and $e_h^{\tau} = e_l^{\tau} = \frac{1}{2}$ for an unsophisticated buyer. The agent would purchase term, with an inflated level of $\hat{\tau} = \tau + 1$ for a sophisticated buyer and $\hat{\tau} = \tau + 2\sqrt{\frac{1}{2}}$

CASE 2, τ small and ω large. A similar logic applies: the agent would exert effort only to increase ω , and set $e_h^{\omega} = 1$ for a sophisticated buyer, and $e_h^{\omega} = e_l^{\omega} = \frac{1}{2}$ for an unsophisticated buyer.

CASE 3, $\tau/\omega \approx 2$. If, in contrast, τ and ω are close enough such that the buyer might actually purchase the whole life policy, the agent should spend time both talking down τ , and talking up ω . This would maximize the probability that the agent chooses ω , which has a much higher commission for the agent. Thus we might expect to see $e_h^{\tau} = -\frac{1}{4}$, $e_d^t = -\frac{1}{4}$, $e_h^{\omega} = \frac{1}{4}$, $e_d^{\omega} = \frac{1}{4}$.

We look for empirical results consistent with this model:

- Whenever $\tau < 2\omega$, the agent recommends whole life insurance
- When τ is close to 2w, agents spend time both promoting whole life insurance and criticizing term life insurance
- Agents never exert effort to "debias" customers
- Agents lie to unsophisticated agents, but tell the truth to sophisticated agents

This model presents a partial-equilibrium explanation for the apparently puzzling behavior of life insurance agents: they speak poorly about products they sell. However, it does not explain why firms do not offer more attractive whole life insurance policies. Subsequent work will develop an equilibrium model of provision of financial advice with myopic consumers, along the lines of Inderst and Ottaviani (2010).

4 Experimental Design

4.1 Setting

Our experimental setup relies on sending auditors to insurance agents in India. The vast majority of audits were conducted by three auditors, one man and two women, between the ages of 20 and 40. They are high school graduates and thus completed introductory training sessions on the life insurance industry and its semantics; they learned for example the meaning of words such as "sum assured", "term", "maturity", and "premium". Afterwards, the auditors were trained in the specific scripts they were to follow when meeting with the agents. Within the script, there was flexibility, but there were specific prompts/statements that the auditors were instructed to always include (such as the inquiry of whether any rebates or discounts were available, and stating the desire to maximize risk coverage to allude to term insurance). The specific script requirements differed slightly between the term vs. whole life experiment and the ULIP disclosure experiment (which we discuss in detail below). Auditors memorized the script, particularly the key prompts, as they would be unable to use notes in their meetings with the agents. An exit interview form was created for data collection, whereby immediately after an audit was completed, the auditor would complete an exit interview form.

The agents were identified via a number of different sources, most of which were websites. While these websites are national in scope, we filtered our search to life insurance agents in the study city, thus obtaining a list of possible agents to audit. We also included a small number of life insurance agents in our initial audits which our auditors physically identified in passing, as well as a partial list of LIC agents serving in our study city. In total, we identified 930 agents for whom we had the name and the address and/or phone number.

Auditors were instructed not to lie during any of the sessions, and all will be given a cash bonus which they may use to purchase a life insurance policy from the agent of their choice upon the completion of the experiment.

4.2 Sample Selection

Treatments were randomly assigned to auditors and auditors were randomly assigned to agents. The randomization was two tiered. First we randomly assigned treatments to agents. We used five different scripts over the period of the experiment. For the term vs. whole life experiment, we used four different scripts, which we denote script 1 - 4. For the disclosure policy, we utilize a single script, numbered 5. Within each of these scripts, there was at least one variable/treatment for randomization. In scripts 1 and 2, we randomized the level of sophistication the auditor demonstrated. For scripts 3 and 4, we randomized sophistication, and the level of "shopping around" the auditor reported doing. These two treatments were orthogonal. In script 5, we randomized whether the agent reported knowledge of the change in disclosure requirements.

Finally, auditors were randomly assigned to agents. Note that because the randomizations were done orthogonally/independently, this means that each auditor did not necessarily do an equivalent number of treatment and control audits for a given variable of interest (i.e. sophistication and/or competition).

Since we were acquiring agents as we were conducting the audits, we randomized in batches as we proceeded. The auditors were given discretion to visit the agents in the order they felt would be more convenient. As they completed a batch, our research manager would give them new prospective agents to contact.

The listings of life insurance agents were not particularly high quality. Of the 930 agents for whom we obtained information, we were able to actually physically/telephonically contact 333 unique agents. This low success rate does not harm our ability to test the effects of our various treatments, as our contact procedures were identical across treatments. While some agents were visited more than once, care was taken to ensure no auditor visited the same agent twice. Any repeat visits were spaced at least four weeks apart, both to minimize the burden on the agents, and to reduce the chance the agent would learn of the study.

As July 1st approached, we discontinued the "shopping around" treatments, in order to focus on the regulatory reform. Hence, we have insufficient observations (23) to analyze that treatment in this version of the paper. Thus, the subsequent analysis analyzes 454 audits for the two basic experiments. Of these 454 audits, 196 audits test how sophistication affects the term recommendation and/or kickbacks, and 258 audits test how disclosure policy knowledge affects commission disclosure and/or kickbacks. Of these last 258, 140 occurred pre-disclosure and 118 represent our preliminary post-disclosure audits.

4.3 Experimental Treatments

In the first experiment, our basic script required the auditor to express his/her interest in the life insurance policy, provide personal details (if prompted by the agent), and then express an interest in risk coverage, explicitly bringing up the idea of a term plan, and then waiting for a recommendation from the agent. After the recommendation was made, the auditor would inquire as to the policy details, and then inquire as to whether the agent would be willing to provide a discount or rebate.

Within this script we initially randomized the sophistication of the auditor. Sophisticated auditors say:

"In the past, I have spent time shopping for the policies, and am perhaps surprisingly somewhat familiar with the different types of policies: ULIPs, term, whole life insurance. However, I am less familiar with the specific policies that your firm offers, so I was hoping you can walk me through them and recommend a policy specific for my situation."

Unsophisticated agents, on the other hand, state:

"I am aware of the complexities of Life Insurance Products and I don't understand them very much; however I am interested in purchasing a policy. Would you help me with this?"

As mentioned earlier, endowment/whole life policies usually have larger commissions and thus are a more lucrative recommendation for the agent. Initial pilots yielded very few term recommendations. We therefore built into the auditors script several statements that suggest a term policy is a better fit for the client. Specifically, the agent expressed a desire to maximize risk coverage, and stated that they did not want to use life insurance as an investment vehicle.

We look at two outcome variables to test the impact of sophistication. The first is whether or not the agent recommended an endowment/whole life policy (or a combination plan that included an endowment/whole life policy); the second is whether the agent offered a kickback, and the amount. Because the kickback discussion was not systematically prompted by the auditor, but rather volunteered by the agent, our outcome of interest is whether or not the agent explicitly made mention of a specific kickback amount.

In the second experiment, we were interested in the effects of the mandatory commission disclosure policy and its effects on the price of the product via kickbacks. This paper looks mainly at the pre-disclosure data, and includes preliminary analysis of the post-disclosure data. This was a similar but shorter script that focused on a popular product in India, the Unit Linked Insurance Plan. ULIP policies, like whole life insurance, provide both insurance coverage and investment value. However, the underlying value is linked to a market index, rather than bonuses announced by the life insurance company. We randomly assigned whether our auditors would allude to the new policy that requires disclosure or not. We did not explicitly mention the regulatory policy change, since we thought it unlikely the "average person" would be familiar with regulatory reform. Rather, we alluded to it by asking for information about commissions. This will also allow us to test compliance of the law:

"Can you give me more information about the commission charges I'll be paying? I have heard that there are discounts offered in the market in life insurance. How much of a discount would you be able to give me?"

The control setting is the auditor without disclosure knowledge who never directly inquires about commissions but simply asks:

"I have heard that there are discounts offered in the market in life insurance. How much of a discount would you be able to give me?"

Agents typically fund kickbacks from their commission. We are again interested in testing the effect of knowledge on two specific outcomes: whether or not the agent disclosed a commission, and whether a kickback was offered.

5 Results

5.1 Summary Statistics on Audits

Table 4 presents summary statistics on the proportion of audits that result in the various possible policy recommendations. Columns 1 and 2 show that in the first experiment that whole and endowment insurance products, despite being dominated by term products, constitute more than 50 percent of the recommendations given by life insurance agents. Fifteen percent of audits resulted in term insurance recommendations.

Columns 3 - 6 present the proportion of recommendations in the various products in the second experiment on the effect of disclosure. Columns 3 and 4 present the proportion of product type recommendations in the data before the required commissions disclosure came into effect, and columns 5 and 6 present the product type recommendations after the commission disclosure came into effect. There are two key points to note about these summary statistics. First, in Columns 4 and 6 we see that the majority (83% pre-disclosure and 53% post-disclosure) of product recommendations are for ULIPs, which is substantially higher than the fraction of audits where ULIPs were recommended in the first experiment (Column 2). This results because in the second experiment our auditors specifically asked for ULIP products in the script. In fact, it is somewhat surprising that more agents did not recommend ULIPs in the second experiment.

The second interesting summary statistic is that the fraction of agents who recommend ULIPs is 30 percentage points lower during the post-disclosure period than during the pre-disclosure period. This is consistent with the idea that agents believe that the ULIP will ultimately be a harder sell in the post-disclosure period because they are now forced to disclose the level of commissions they earn. Given the number of observations in the post-disclosure period is relatively small (118) we cannot infer too much from these results, but they do suggest that disclosure requirements may have powerful effects. We statistically test this hypothesis in the next section of the paper. We are currently conducting more audits in the post-disclosure period to confirm these initial results.

One potential risk in conducting audit studies such as ours is that brokers will somehow become aware that they are being audited and change their behavior or refuse to participate. Our data suggests, however, that the life insurance agents were largely receptive to our auditors. The auditors were asked to rate the overall attitude of the agents as positive, indifferent, or negative. Agents unwilling to engage were automatically classified as negative. Of the 309 non-post disclosure audits analyzed herein, 274 (89%) had agents with positive attitude, 25 (8%) were classified as indifferent, and 10 (3%) were classified as negative.

As mentioned earlier, the audit venues were somewhat dependent on the agent's preference, though the agent's office was prioritized. Some agents for example either lacked physical space or expressed interest in traveling to the auditor's home. Meeting a prospective client at their home is a relatively common practice; by doing this the agent intends to build trust with the client. Table 6 offers a breakdown of the audit venues, with 66% taking place in the agent's office. Male agents conducted the vast majority (408, or 89.5%) of audits.

Lastly, the major life insurer in India is a partially state owned enterprise known as the Life Insurance Corporation (LIC). Of our 454 audits, 277 (61%) were done with LIC agents. This is consistent with LIC's market share, 66 percent of total premiums collected.²

6 Sophistication Effects on Product Recommendations

Our model predicts that individuals that are sophisticated about life insurance products will be more likely to receive truthful information from life insurance agents. This result arises in the model because agents internalize that sophisticated agents are not swayed by dishonest information, and thus presenting dishonest information to sophisticated agents is wasted persuasive effort. In the specific context of our audits this prediction suggests that life insurance agents should be more likely to recommend the term policy to sophisticated agents. Note that we designed our scripts so sophistication here only means that the potential customer is knowledgeable about life insurance products; both sophisticated and unsophisticated agents state that they have the same objective needs in terms of life insurance.

The results from the first experiment, reported in 6, provide evidence in support of this prediction. Column (1) examines whole life insurance, which has particularly high costs (fees and commission) for the consumer. We find that agents who present themselves as sophisticated are much less likely to receive a recommendation for this product. The point estimate, -14%, is large, and significant at the five percent level. Approximately 32% of the non-sophisticated sample receives

² "LIC Market share rises to 66 per cent." http://www.mydigitalfc.com/insurance/lic-market-share-rises-66-cent-890> Oct. 25, 1999.

a recommendation for whole life only.

In column (2), we examine whether demonstrating sophistication affects the probability that an agent recommends only an endowment policy. We find a negative point estimate, which is small and not statistically significant, although the confidence interval comfortably includes an effect size of -10%. Finally, in column (3) we regress a dummy for whether the agents final recommendation includes any whole or endowment policy: the coefficient is economically meaningful, but not significantly significant.

In columns (4)-(6) we repeat this analysis, including a dummy variable for whether the agent represents the Life Insurance Corporation of India, by far India's largest life insurance corporation. We find that LIC agents are much more likely to recommend endowment and whole life insurance policies. As expected, including this control does not affect the coefficients on the sophisticated dummy. We view the LIC result as important: LIC enjoys a reputation as a very trustworthy firm, as it enjoys government backing. The fact that agents representing it were much less likely to recommend a suitable product seems inconsistent with the view that a government owned-firm includes social welfare in its objective function.

In Table 7, we examine whether the level of sophistication affects the likelihood an agent offers a kickback. LIC agents seem more likely than non-LIC agents to recommend a kickback. This may be viewed as surprising, as one might have expected a government-owned firm to be more likely to comply with regulations. Overall, of all the 309 audits across both experiments, 100 (32%) agents agreed to kickbacks and specified amounts.³

7 The Effects of Disclosure Requirements

In response to concern that individuals may choose unsuitable financial products, governments around the world have increased disclosure requirements. However, there is only limited evidence on whether disclosure requirements are effective, particularly in emerging markets. There are several reasons disclosure requirements may not be effective. In India, for example, the sheer number of agents (over 1 million) makes monitoring quite difficult. Moreover, even if a customer is harmed, the

 $^{^{3}}$ One thing to note is the popularity of a particular endowment/whole life products recommended by LIC. These products include *Jeevan Anand* and *Jeevan Saral*. Advertisements throughout India highlight this product, and it seems that agents are particularly keen to recommend it.

slow speed of the legal system may dissuade consumers from filing a lawsuit. Finally, even if agents comply with disclosure requirements, they may alter the mix of products they sell (for example, shifting towards less regulated products) in response to changes in disclosure requirements.

In this section, we describe the effect of an important change in disclosure requirements: as of July 1st, 2010, agents were required to disclose the commissions earned from sales of products. There are two specific features of this policy we emphasize before discussing our empirical results. First, it is important to note that the disclosure of commissions required on July 1st is in addition to a disclosure requirement on total charges that came into effect earlier in 2010. In other words, prior to July 1 agents were required to disclose the total charges (i.e. the total costs) of the policies they sell, but they were *not* required to disclose how much of those charges went to commissions versus how much went to the life insurance company. Thus, the new legislation requiring the specific disclosure of commissions gives the potential life insurance customer more information on the agency problem between himself and the agent, but does not change the amount of information on total costs. This allows us to interpret our results mainly as the effect of better information about agency versus just information about costs more generally.

Second, there are two primary ways information on commissions can be disclosed. The first way, which is what our auditors have measured so far, is a verbal disclosure of commission, i.e. the agent verbally saying the commission he would receive on a sale. The second way is to disclose the commission in writing. In many cases the agents will create an "illustration" sheet that provides written details on the policy they recommend. After July 1st, it was common for this illustration sheet to explicitly state the commission level that agents would earn on a particular product.

By comparing our results before and after the policy change we will be able to (1) test whether agents reduce their tendency to recommend products where there are more stringent disclosure requirements (2) test whether this disclosure requirement actually changed the information agents provide to sophisticated and unsophisticated customers (3) estimate whether disclosure requirements actually lead to greater kickbacks because they force commission levels to be public knowledge.

7.1 Did the Disclosure Requirement Change Products Recommended?

We first test whether audits conducted after the disclosure requirements were made public were less likely to result in the agent recommending a ULIP policy. Table 8 presents these results. Each column represents the results of a regression where the dependent variable equals 1 if a ULIP was recommended and 0 otherwise. The independent variable *Post* indicates whether or not the audit transpired after the legislation went into effect, July 1st (our earliest post-disclosure audits occurred on July 2nd). *Disclosure Knowledge* equals one where the client expresses awareness that agents receive commissions. Finally, we control for whether the agent is from LIC in some regressions, with a dummy variable *LIC* as well as auditor venue dummy variables. The only difference between Columns (1) and (2) is that Column (2) includes an interaction between the Post variable and the Disclosure Knowledge treatment.

In both Columns (1) and (2) we see that the Post variable has a statistically and economically large and negative relationship on whether a ULIP product was recommended. This result is consistent with the idea that requiring greater disclosure requirements for a specific product, in this case ULIPs, leads to greater recommendations of other products (primarily whole and endowment policies). In Column (1) the result is significant at the 1 percent level, and in Column (2) the result is significant at the 1 percent level. In terms of magnitudes, given the overall percentage of ULIP recommendations in this sample was 71 percent, the approximately 20 percent decrease in ULIP recommendations once disclosure commission became mandatory is an economically large effect. Overall, these results suggest that the disclosure requirements reduced agents' willingness to recommend ULIP products.

However, we do not find that audits where our agents showed knowledge of the new disclosure requirements are associated with lower levels of ULIP recommendations. The coefficient on the "Disclosure Knowledge" variable is small and statistically insignificant. In the "Disclosure Knowledge" treatment the auditor explicitly asked for more information about the commission levels; it is possible that asking about these commission levels had no effect because agents realized that commissions would have to be disclosed when they provided the illustration sheet of the policy. We also find no evidence that asking for commission information had a differential effect on whether a ULIP policy was recommended before and after July 1st. Overall, however, the evidence does suggest that the disclosure requirement lead to substantially fewer ULIP recommendations.

7.2 Did the Disclosure Requirements Lead to Greater Verbal Disclosure?

Table 9 analyzes the effect of the disclosure requirement on whether agents were more likely to verbally disclose the commission level of the product they recommended and whether the disclosure requirement led to a higher chance of the agent offering a kickback.

The dependent variable in Columns (1) - (3) of this table equal one if the agent verbally disclosed the level of commissions and zero otherwise. We see that the disclosure legislation does not seem to have made any significant impact on verbal disclosures. Theoretically, it is not clear whether we should expect a greater level of verbal disclosure after the requirement comes into force, as it is difficult for the regulator to verify whether a verbal disclosure was made. It is easier to verify whether an illustration sheet was given to the client and whether that sheet disclosed the correct level of commissions. We are currently updating our data to include whether a written disclosure was made, as the policy might have been more effective in encouraging written disclosures versus verbal disclosures.

The dependent variable in Columns (4)-(6) equals one if the agent agreed to a kickback. In theory, greater disclosure could lead to more price competition via kickbacks because the disclosure gives the client a better idea of how much the agent is receiving for the sale. We find, however, no change in whether kickbacks were offered in the post disclosure period. We also find no effect of our auditor asking about commissions on whether they ultimately received a kickback offer.

8 Conclusion

A critical question facing emerging markets with large swathes of the population entering the formal financial system is how these new clients will receive good information on how to make financial decisions. Clearly, the private sector will be important in educating new investors and providing suitable products. Recent events in developed economies suggest that regulation may be necessary to ensure that the private sector's own incentives do not compromise the quality of financial decisions made by private individuals. This issue is of particular importance emerging markets where new investors have little experience with formal financial products to begin with. We conduct an audit study on life insurance agents to evaluate the quality of advice they provide, test theories on who gets good advice, and evaluate the potential for disclosure requirements to improve the quality of advice. We present three major findings.

First, we show that whole life insurance is economically inferior to a combination of investing in savings accounts and purchasing term insurance. Despite the large economic losses associated with investing in whole insurance we find that life insurance agents overwhelmingly encourage the purchase of whole insurance. This is likely due to the larger commissions offered to agents for selling whole insurance.

Second, we find that agents who demonstrate some knowledge of insurance products get better advice. Auditors that stated they had a deep understanding of insurance products were fourteen percentage points less likely to receive a recommendation of whole life insurance, a financially inferior product. This result suggests that the poor or ill-educated might be the most harmed by financial product agents.

Third, we find that requiring disclosure of commissions on one particular product led to that product being recommended less but did not increase verbal disclosure of commission levels. This result is interesting in that it suggests that hiding information is an important part of life insurance agents' business, and that disclosure requirements can change the optimal strategy of agents. However, in this case it appears that the disclosure requirement on one product simply had the effect of pushing agents to recommend more opaque products. These results suggest that the disclosure requirements for financial products need to be consistent across the menu of substitutable products.

Overall, our results suggest that for life insurance, which is a large and important savings cum insurance product in India, that agents primarily work to maximize their commissions and play little role in educating the public about optimal decisions.

9 References

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Panel A: Financial Products			
	LIC WHOLE LIFE	LIC Term Life	Savings Account
Policy Description	An individual purchases	An individual purchases	Fixed term deposit for
	a policy for a pre-	a policy for a pre-	five years or longer,
	specified term, which	specified term, which	State Bank of India
	promises a pre-specified	promises a pre-specified	
	benefit in case of death	benefit in case of death	
	until the buyer turns	during the term only.	
	80. If the respon-	Once the policy expires,	
	dent lives until the age	it has no residual value.	
	of 80, the policy ma- tures, and the agent	The coverage amount is constant.	
	can obtain the cover-	constant.	
	age amount in cash.		
	The coverage amount		
	increases by Rs. 15,000		
	per year via bonuses.		
Plan Name	The Whole Life Plan	Anmol Jeevan - I	SBI Fixed Deposit
LIC Plan Number	Plan # 2	Plan # 164	-
	POLICY TERMS	POLICY TERMS	Terms
Annual Rate	8%		
Bonus Percentage	3%		
Coverage Amount	500,000	500,000	
Interest Rate			8%
Age	34	34	
Payment Term (years)	47	25	
Yearly	13574	2507	
Total Nominal Payments	637,978	62,675	

Table 1: Comparing Whole and Term Life Insurance Policies Panel A: Financial Products

 Table 2: Comparing Whole and Term Life Insurance Policies

$\begin{array}{c} (1) \\ 2010 \\ 2011 \\ 2012 \\ 2013 \\ 2014 \\ 2015 \\ 2016 \\ 2017 \\ 2018 \end{array}$	$\begin{array}{c} (2) \\ 34 \\ 35 \\ 36 \\ 37 \\ 38 \\ 39 \\ 40 \\ 41 \end{array}$	(3) 1 2 3 4 5 6	$(4) \\13574 \\13$	$(5) \\515000 \\530000 \\545000 \\56000 \\56000 \\5600000 \\5600000 \\5600000 \\56000000000$ \\56000000000000000000000000	$(6) \\ 2507 \\ 2507$	(7) 11067 11067	(8) 11952.36
2011 2012 2013 2014 2015 2016 2017	34 35 36 37 38 39 40 41	$2 \\ 3 \\ 4 \\ 5$	$\begin{array}{c} 13574 \\ 13574 \\ 13574 \\ 13574 \\ 13574 \end{array}$	$530000 \\ 545000$	2507		
2012 2013 2014 2015 2016 2017	36 37 38 39 40 41	$egin{array}{c} 3 \ 4 \ 5 \end{array}$	$13574 \\ 13574$	545000		11067	0.4000 0000
2013 2014 2015 2016 2017	37 38 39 40 41	$\frac{4}{5}$	13574			11001	24860.9088
2014 2015 2016 2017	$38 \\ 39 \\ 40 \\ 41$	5		F 00000	2507	11067	38802.1415
$2015 \\ 2016 \\ 2017$	39 40 41		19574	560000	2507	11067	53858.67282
2016 2017	40 41		13574	575000	2507	11067	70119.72665
2017	41		13574	590000	2507	11067	87681.66478
		7	13574	605000	2507	11067	106648.558
		8	13574	620000	2507	11067	127132.8026
	42	9	13574	635000	2507	11067	149255.7868
2019	43	10	13574	650000	2507	11067	173148.6098
2020	44	11	13574	665000	2507	11067	198952.8585
2021	45	12	13574	680000	2507	11067	226821.4472
2022	46	13	13574	695000	2507	11067	256919.523
2023	47	14	13574	710000	2507	11067	289425.4448
2024	48	15	13574	725000	2507	11067	324531.8404
2025	49	16	13574	740000	2507	11067	362446.7477
2026	50	17	13574	755000	2507	11067	403394.8475
2027	51	18	13574	770000	2507	11067	447618.7953
2028	52	19	13574	785000	2507	11067	495380.6589
2029	53	20	13574	800000	2507	11067	546963.4716
2030	54	21	13574	815000	2507	11067	602672.9093
2031	55	22	13574	830000	2507	11067	662839.1021
2032	56	23	13574	845000	2507	11067	727818.5902
2033	57	24	13574	860000	2507	11067	797996.4375
2034	58	25	13574	875000	2507	11067	873788.5125
2035	59	$\frac{10}{26}$	13574	890000	-001	13574	958351.5134
2036	60	27	13574	905000		13574	1049679.555
2037	61	28	13574	920000		13574	1148313.839
2038	62	29	13574	935000		13574	1254838.866
2039	63	30	13574	950000		13574	1369885.895
2040	64	31	13574	965000		13574	1494136.687
2041	65	32	13574	980000		13574	1628327.542
2042	66	33	13574	995000		13574	1773253.665
2042	67	34	13574	1010000		13574	1929773.878
2044	68	35	13574	1025000		13574	2098815.709
2045	69	36	13574	1020000		13574	2281380.885
2046	70	37 37	13574	1040000 1055000		13574	2478551.276
2040 2047	71	38	13574	1070000		13574	2691495.298
2047	72	$\frac{38}{39}$	13574 13574	1070000		13574 13574	2921474.842
2048 2049	73	40	13574 13574	1100000		13574 13574	3169852.75
2049	74	40	13574	1115000		13574	3438100.89
2050	75	42	13574 13574	1130000		13574 13574	3727808.881
2051 2052	76	42	13574 13574	1130000 1145000		13574 13574	4040693.511
2052 2053	70 77	43 44	13574 13574	1143000 1160000		13574 13574	4378608.912
2055 2054	78	44 45	13574 13574	1175000		13574 13574	4378008.912 4743557.545
$2054 \\ 2055$	78 79	$\frac{45}{46}$	13574 13574			13574 13574	4745557.545 5137702.069
$2055 \\ 2056$	79 80	$40 \\ 47$	13574 13574	$\frac{1190000}{1205000}$		$13574 \\ 13574$	5563378.154
2000	00	±1	10014	1200000		10014	0000010.104

Notes: Panel A of this table gives the policy details for two standard life insurance policies, one whole and one term, providing Rs. 500,000 coverage to a 34-year old man.Panel B represents the flow of payments from the household to the insurance agency if she or he buys whole life, or if she or he buys term life and saves the difference between the higher whole premium and the term premium. The whole life insurance policy is replicated using a term policy and a savings account. The final line of the table indicates a households net asset position after paying Rs. 13,574 per annum, for a whole left policy (Column (5)), and for a t**2p** policy plus savings account (column (8)).

Table 3: Examples of False and Misleading Statements

The auditor, who is a muslim, should invest in a ULIP because his religion doesn't allow receiving interest income. The auditor cannot buy insurance because her husband is diabetic. No insurer will insure him. "Term insurance is not for Women."

"There is no such thing as a free look period. The agent should purchase insurance and then forget about it."

The agent, when asked for a term policy, offered an endowment life policy, describing it as term.

"Term plan is for people with high income and people who wants to hide their income."

"Term is not for people from middle class."

"Term is for people with high risk."

"Term is worthless."

"Term has low premium, so it is not a good product."

"Term is not for middle class."

"Term is only good for businessman."

"Term is difficult for women."

When asked about the "free look" period: "Once the policy is entered in the system, nothing can be done." "Women don't get insurance more than 300000 Rs."

When asked about the "free look" period: "Policy can be cancelled only if one provided good reason for it."

"Jeevan Anand [an Endowment/Whole policy] ' is a ULIP."

"Term is offered to women who has government jobs."

"If you take a ULIP, you may take a loan against the value." In fact, it is prohibited to borrow against ULIPS. "Term is for Government Employees."

"Term is for big businessman and people who invest in capital markets."

The above statements were noted by our auditors in the course of their meetings with Life Insurance agents.

	Table	4: Summary St	atistics on P ₁	Table 4: Summary Statistics on Products Recommended	nded		
	Expe	Experiment 1	Experimen	Experiment 2 - Pre-Data Experiment 2 - Post-Data	Experimen	t 2 - Post-Data	
Plan	\mathbf{Number}	Number Percentage	\mathbf{Number}	Percentage	\mathbf{N} umber	Percentage	
Endowment Plan	54	27.6	11	7.9	40	33.9	
Whole Life Plan	50	25.5	×	5.7	6	7.6	
Term Plan	29	14.8	2	1.4	0	0	This table
ULIP	28	14.3	117	83.6	63	53.4	T IIIS LAUDIE
Combination Plan	19	9.7	1	2.	4	3.4	
Other	11	5.6	1	2.	1	6.	
No Product Recommendation	Q	2.6	0	0	1	6.	
Total	196	100	140	100	118	100	
presents the number and percentage of audits that led to the product type recommended in Experiment 1, the pre-disclosure part of Experiment 2, and the	of audits that l	ed to the product	type recommen	ided in Experiment 1.	, the pre-disclosu	re part of Experiment	2, and the

he post-disclosure part of Experiment 2. ñ0

Venue	Number	Percentage	
Agent's Home	52	13.0	
Auditor's Home	16	4.9	
Agent's Office	252	65.5	
Auditor's Office	39	12.7	
Other	18	3.9	
Total	377	100	

Table 5: Summary Statistics on Audit Venue

Note: The presence of "combo" means that the categories are in some sense not mutually exclusive. A "combo" means that the agent recommended two or more products, which could represent a combination of the remaining categories.

r	Table 6: De	terminants of l	Product Recomm	endations		
	(1)	(2)	(3)	(4)	(5)	(6)
Dependent Variable:	Wholelife	Endowment	Endow/Whole	Wholelife	Endowment	Endow/Whole
Sophisticated	-0.141**	-0.0221	-0.0827	-0.134**	-0.0123	-0.0622
	(0.0618)	(0.0633)	(0.0671)	(0.0606)	(0.0608)	(0.0564)
LIC	· · · · ·	× ,	· · · · ·	0.213***	0.285***	0.590***
				(0.0578)	(0.0520)	(0.0635)
Constant	0.0565	0.00886	0.0331	-0.117*	-0.223***	-0.447***
	(0.0398)	(0.0258)	(0.0325)	(0.0657)	(0.0723)	(0.125)
Observations	196	196	196	196	196	196
R-squared	0.048	0.051	0.107	0.093	0.128	0.377

Robust standard errors in parentheses *** p<0.01, ** p<0.05, * p<0.1

	Ta	ble 7: Deter	<u>rminants of</u>
	(1)	(2)	(3)
VARIABLES	Kickback	Kickback	Kickback
Sophisticated	-0.0882	-0.0824	-0.0551
	(0.0673)	(0.0667)	(0.113)
LIC		0.166^{**}	0.185^{*}
		(0.0726)	(0.104)
LIC*Sophisticated			-0.0373
			(0.140)
Constant	0.635***	0.500^{**}	0.489**
	(0.239)	(0.229)	(0.232)
Observations	196	196	196
R-squared	0.053	0.076	0.076
Robust stan		-	ses
*** p<0.	01, ** p<0.	05, * p < 0.1	

Table 8: Effect of Disclosure on Pr	roduct Reco	mmendations
Dep Var = Ulip Recommended	(1)	(2)
Post Disclosure Regulation	-0.217***	-0.206***
	(0.0514)	(0.0751)
Disclosure Knowledge	-0.0131	-0.00443
	(0.0491)	(0.0666)
Agent Home	-0.0608	-0.0612
	(0.112)	(0.113)
Auditor Home	-0.133	-0.131
	(0.171)	(0.172)
Agent Office	-0.0522	-0.0528
	(0.101)	(0.101)
Auditor Office	-0.0426	-0.0436
	(0.197)	(0.198)
LIC	-0.438***	-0.437***
	(0.0509)	(0.0510)
Post Disclosure Regulation * Disclosure Knowledge		-0.0189
		(0.0978)
Observations	258	258
R-squared	0.347	0.347

* Significant at the 1% level. ** Significant at the 5% level. *** Significant at the 1% level. Robust standard errors included in brackets. The dependent variable equals 1 if a ulip product was recommended and 0 if a non-ulip product was recommended.

	(1)	(2)	(3)	(4)	(5)	(9)
Dependent Variable:	Disclosure	Disclosure	Disclosure	Kickback	Kickback	Kickback
Post Disclosure Regulation		-0.0418	0.00207		-0.0146	-0.00863
		(0.0729)	(0.104)		(0.0632)	(0.0934)
Disclosure Knowledge	-0.0352	-0.0381	-0.00611	0.0242	0.0235	0.0284
	(0.0681)	(0.0684)	(0.0871)	(0.0614)	(0.0616)	(0.0835)
Agent Home	-0.124	-0.126	-0.129	-0.0402	-0.0408	-0.0410
	(0.156)	(0.156)	(0.156)	(0.142)	(0.142)	(0.142)
Auditor Home	0.564^{**}	0.569^{**}	0.578^{**}	0.358	0.362	0.363
	(0.246)	(0.246)	(0.247)	(0.234)	(0.235)	(0.235)
Agent Office	-0.145	-0.158	-0.165	-0.158	-0.162	-0.162
	(0.135)	(0.137)	(0.138)	(0.126)	(0.127)	(0.127)
Auditor Office	0.0798	0.0602	0.0519	0.301	0.294	0.293
	(0.252)	(0.255)	(0.256)	(0.243)	(0.246)	(0.246)
Post Disclosure Regulation*Disclosure Knowledge			-0.0827			-0.0107
			(0.139)			(0.122)
Constant	0.227	0.224	0.204	0.0343	0.0306	0.0281
	(0.267)	(0.268)	(0.270)	(0.276)	(0.277)	(0.279)
Observations	219	219	219	256	256	256
R-squared	0.081	0.082	0.084	0.115	0.115	0.115

* Significant at the 1% level. Robust standard errors clustered at the auditor level included in brackets. The dependent variable in the first three columns is whether the commission was verbally disclosed to our auditor. The dependent variable in the second three columns is whether the agent offered a kickback.