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Forschungsinstitut zur Zukunft der Arbeit Institute for the Study of Labor

# Tax Incentives as a Solution to the Uninsured: Evidence from the Self-Employed

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## ABSTRACT

## Tax Incentives as a Solution to the Uninsured: Evidence from the Self-Employed<sup>\*</sup>

Between the years 1996 and 2003, a series of amendments were made to the Tax Reform Act of 1986 (TRA86) that gradually increased the tax credit for health insurance purchases by the self-employed from 25 to 100 percent. We study how these changes in the tax code have influenced the likelihood that a self-employed person has health insurance coverage as the policy holder of the plan. The Current Population Survey (CPS) is used to construct a data set corresponding to 1995-2005. The empirical analysis is performed for prime-age men and women, and accounts for differences in family structure and potential eligibility. The difference-in-difference estimates suggest that the series of tax credits did not provide sufficient incentives for the self-employed to obtain health insurance coverage. Estimates of the price elasticity of demand confirm the limited response to changes in the after-tax health insurance premium. The effect was largest, however, among the single men and women in our sample, suggesting that a 10 percent decrease in the after-tax price increases the likelihood of coverage by 0.68 and 1.02 percentage points, respectively.

JEL Classification: J32, J48, I11

Keywords: health insurance, self-employment, elasticity, CPS

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### 1 Introduction

In his 2007 State of the Union address, President Bush is quoted as saying, "Changing the tax code is a vital and necessary step to making health care affordable for more Americans." The President is proposing a set of standard tax deductions to help the more than 45 million Americans who are without coverage. This amounts to nearly 18 percent of the non-elderly population (ages 64 and under). His proposed tax deductions are intended to "level the playing field for those who do not get health insurance through their job" and to help "put a basic private health insurance plan within reach" for the millions of Americans lacking coverage. According to the Kaiser Family Foundation (KFF, 2005) in 2004, the overwhelming majority (61 percent) of non-elderly Americans received their health insurance through their employers; individuals working in midsize/large firms (200+ employees) were offered health insurance 98 percent of the time whereas 59 percent of individuals working in small firms (3-199 employees) were offered coverage. About half (51 percent) of these employer-based plans covered only the worker and the remaining 49 percent covered the employee's dependents (e.g., spouse) as well. Only five percent of Americans have health insurance through a private non-group plan; the remaining 16 percent are covered by public programs (e.g., Medicaid). Those who lack health insurance often include low income persons, single mothers and their children, and self-employed individuals.

This paper seeks to address the question: Can we fix the health insurance problem with tax incentives? We investigate this question by examining a series of amendments made to the Tax Reform Act of 1986 (TRA86). The TRA86 granted self-employed persons the ability to deduct 25 percent of their health insurance premiums (i.e. own, spouse, and dependents) from their taxable income. The Small Business Job Protection Act of 1996 established a schedule which would gradually increase this deduction to 100 percent by 2007. Since then, the schedule has been accelerated twice with passage of the Taxpayer Relief Act of 1997 and the Tax and Trade Extension Relief Act of 1998. Through these series of amendments, the initial TRA86 tax credit was increased to 30, 40, 45, 60, 70 and 100 percent in 1996, 1997, 1998, 1999, 2002, and 2003, respectively. Prior to this, the self-employed, who did not itemize their income tax deductions, paid for their health insurance with after-tax dollars. We use data from the 1996-2006 March Supplements of the Current Population Survey (CPS) to analyze the effect

of these amendments in the tax code for the period corresponding to 1995-2005. Specifically, we examine how changes in the tax code, concerning the deductibility of health insurance premiums by the self-employed, has affected whether an individual has coverage as a policy holder.

The most notable paper addressing the issues surrounding the initial tax reform is Gruber and Poterba (1994), hereafter G&P94. They examine the original TRA86 with respect to the price elasticity of demand for health insurance coverage. They argue that if the price elasticities are negligible, then providing tax credits may not necessarily lead to significant improvements in coverage rates. Using data from the 1986-1987 and 1989-1990 CPS, they analyze the decision of the self-employed to purchase health insurance before and after the initial 25 percent tax credit. Using a difference-in-difference (diff-in-diff) model, they compare wage/salary employees and self-employed people and show that the subsidy increased the demand for health insurance among the latter, with marginal statistical significance. They show that the estimated effect of the policy depends on the individual's marginal tax rate (MTR), i.e. the tax credit is more valuable for single individuals at higher MTRs. By comparison, we focus on estimating the effects of the subsequent amendments made to the TRA86 using the 10 most recent years of CPS data.

The time frame we consider is not only longer than that analyzed by G&P94 but it also provides a cleaner "natural experiment." Their analysis is complicated by other changes that accompanied the TRA86; the MTRs and medical care expenditure deduction rules and rates were also altered during the same time period they consider. Following G&P94's strategy, we take a two-fold approach in analyzing the effect of the amendments. We first use a diffin-diff approach where we study whether self-employed persons were more likely to purchase health insurance as a policy holder, relative to wage/salary employees, over time as the TRA86 amendments provided more generous tax credits. Second, we estimate the price elasticity of health insurance demand for various subgroups. Due to data limitations, G&P94 cannot distinguish between private health insurance coverage in one's own name and that in someone else's name (such as a spouse) and we show that this leads to somewhat inflated estimates of elasticity. The empirical analysis is performed for prime-age (ages 25-60) workers, both male and female. Overall, we find very small estimates of the price semi-elasticity of demand. Single persons and married couples without children tend to have the most elastic demand. A 10 percent decrease in the health insurance premium increases the likelihood that a self-employed single man (woman) has coverage in his (her) own name by 0.68 (1.02) percentage points. These figures, taken together with the diff-in-diff estimates, provide no evidence that the increased generosity of the TRA86 tax credits helped to close or reduce the gap in health insurance coverage between the self-employed and wage/salary workers. This finding is consistent with others in the literature.

Efforts directed at using tax policy to solve the uninsurance problem include Marquis and Long (1995), Gruber (2004), and Holtz-Eakin (2005). In their attempts to quantify the effect of tax credits on the number of uninsured persons, Marquis and Long and Holtz-Eakin estimate the price elasticity of demand for working families/individuals. Note that these exercises are limited by the availability of reliable price measures in the private non-group market. Marquis and Long use data from the 1988 March CPS and the 1987 Survey of Income and Program Participation (SIPP). Their policy simulations suggest that even a tax credit that reduces the after-tax premium by 40 percent would increase the number of families purchasing non-group health insurance by no more than 8 percentage points. More recently, Holtz-Eakin estimates the price elasticity of demand using data from the 2001 SIPP. He also finds a very limited response: for example, a 50 percent tax credit increases the individual demand by 3.5 percentage points. While their elasticity estimates differ somewhat, both studies conclude that even sizeable tax subsidies to the working uninsured will generate only a limited response in the non-group market. Gruber uses a microsimulation model to compare the efficiency implications of various policies proposed to remedy the uninsurance problem. He finds that the inefficiencies associated with tax credits are greater than those stemming from a possible expansion of public insurance.

Other papers in the literature have addressed the connection between the labor market and health insurance coverage. Thomasson (2002, 2003) provides an excellent history of the evolution of the American health insurance market highlighting the 1942 Stabilization Act and the 1954 Internal Revenue Code. Together these laws enabled employers to deduct their contributions to their employees' health insurance plans from their payroll taxes. This has led to the strong linkage between wage/salary employment and health insurance coverage. The coupling of health insurance and employment has arisen not only because of the nature of the tax system but also because: 1) the administrative costs are lowered when selling insurance to firms; 2) moral hazard concerns are eased with the provision of benefits in the form of services, as opposed to cash indemnities; and 3) the pooling of risk across employees alleviates problems associated with adverse selection. Gruber and Madrian (2001) and Madrian (2006) provide extensive reviews of the recent literature on the relationship between health insurance and employment.

One of the primary concerns with this link is that it limits job turnover which may in turn affect worker productivity and ultimately impact economic growth. Madrian (1994) and Gruber and Madrian (1994) find such evidence of "job-lock." By comparison, Holtz-Eakin et al. (1996) find no significant relationship between employer-provided health insurance and job turnover. And yet others have found that the impact varies by empirical specification or the group analyzed (e.g., Buchmueller and Valletta, 1996). Gruber and Madrian (1994, 1997) find that the Consolidated Omnibus Budget Reconciliation Act (COBRA) of 1985 affects job turnover and increases the rate of transition from employment to not being in the labor force. The COBRA requires employers, who sponsor health insurance plans, to offer their terminating employees, and their families, the right to continue their health insurance coverage through the employer's plan for 18 months. COBRA is often expensive—102 percent of the average employer cost—and usually excludes pre-existing conditions.

Since health insurance is often tied to employment in the U.S., many self-employed individuals do not have coverage. For example, in 1996, 31 percent of self-employed persons under age 63 were without health insurance. This compares to 18.5 percent of wage/salary workers that were lacking coverage (Perry and Rosen, 2004). Perry and Rosen (2004) find that the lack of health insurance coverage among the self-employed does not necessarily translate into worse health outcomes when they are compared to their wage/salary counterparts. Meer and Rosen (2002) note that the determinants of health status are mainly due to factors other than health insurance (e.g., genetics, behavior, health care, environment). Our descriptive figures below are consistent with these previous findings, i.e. wage/salary employees and the self-employed are very similar in terms of their self-reported health status. In what follows, we do not argue in favor of tax incentives to provide health insurance coverage nor do we address whether the policy is effective in terms of improving health outcomes for the self-employed. Our aim is simply to evaluate the effects of the policy on the health insurance coverage for the self-employed, abstracting away from any welfare gains or losses.

This paper proceeds in the following manner: Section 2 discusses the conceptual frame-

work and the empirical implementation. Section 3 describes the data used in the analysis. Section 4 presents the results and Section 5 concludes.

### 2 Conceptual Framework and Empirical Specification

This paper analyzes the effects of the TRA86 amendments on the likelihood that a self-employed person has health insurance coverage as the policy holder. The TRA86 granted self-employed persons the ability to deduct their (i.e. own, spouse, and dependents) health insurance premiums from their taxable income. Self-employed individuals include single owners of unincorporated businesses. Eligibility is restricted to self-employed persons with positive net profits who do not have access to employer-provided health insurance, for example, through their spouse. Currently, self-employed persons are allowed to deduct 100 percent of their health insurance premiums from their taxable income—previously it had been 25, 30, 40, 45, 60, and 70 percent. Originally in 1986, the 25 percent deduction was temporary and set to expire in 1992. The deductions were, however, made retroactive for persons who filed an amended return and were made permanent in 1996.<sup>1</sup> In 1998, nearly 2.7 percent of all returns claimed the selfemployed deduction and for the 2005 fiscal year, the estimated tax expenditure corresponding to the deduction was about \$3.2 billion (Lyke, 2005). While the primary goal of the TRA86 was to equate the tax deductibility of health insurance premiums for wage/salary employees and the self-employed, a secondary goal may have been to address the unusually large rates of uninsurance among the self-employed population. This latter issue is the question that this paper attempts to address.

To provide a sense of how these deductions translated into real savings, Table 1 lists the average individual health insurance premiums and the corresponding real tax savings for different MTRs.<sup>2</sup> Information on the average health insurance premiums are from the 1996-2004 Medical Expenditure Panel Survey-Insurance Component (MEPS-IC).<sup>3</sup> For example in

<sup>&</sup>lt;sup>1</sup>Note that the deductions are still not fully equalized as health insurance premiums, purchased by the self-employed, cannot be deducted from payroll taxes. Thus, self-employed persons must pay SECA (Self-Employment Contributions Act) payroll taxes when purchasing insurance for themselves or their dependents whereas wage/salary workers pay health insurance premiums with pre-tax dollars which are not subject to FICA (Federal Insurance Contributions Act) taxes or federal income taxes. The latter was allowed in 1979 with the passage of the Revenue Act of 1978.

<sup>&</sup>lt;sup>2</sup>All real figures are expressed in constant 2006 US\$ throughout the text and in the tables.

<sup>&</sup>lt;sup>3</sup>These premiums correspond to the average total individual health insurance premiums per enrolled employee at private-sector establishments that employ 10 or less persons and offer health insurance. We approximate the

1996, the average individual health insurance premium was \$2,229 (\$2,465) in nominal (real) terms. For individuals with a 15 (28) percent MTR, this translated into a real savings of \$100 (\$187) when the TRA86-mandated tax credit equaled 30 percent. By comparison in 2003, the average nominal (real) individual health insurance premium rose to \$3,834 (\$3,594). This translated into a real savings of \$575 (\$1,074) for individuals with a 15 (28) percent MTR as for the first time self-employed persons were able to deduct the entire premium from their taxable income.

In order to examine the effects of the TRA86 amendments on the health insurance coverage of the self-employed, we first utilize a diff-in-diff approach and follow G&P94 by comparing the self-employed to wage/salary employees over time. For this purpose, we use the following regression where the dependent variable, Y, takes on a value of "1" if individual i in state swas the policy holder of his/her health insurance plan in period t, and "0" otherwise.

$$Y_{its} = X_{its}\alpha + SelfEmp_{its}\gamma + \sum_{t=1996}^{2005} \delta_t Year_{its} + \sum_{t=1996}^{2005} \theta_t (SelfEmp_{its} \times Year_{its}) + State_{its}\pi_s + \varepsilon_{its},$$
(1)

Some individuals may have health insurance coverage from alternative sources, such as through a spouse's plan. The TRA86 amendments would not necessarily affect having any kind of coverage but it is more likely that they provided incentives for the self-employed to obtain coverage in their own name. Thus, we focus specifically on having a health insurance plan as the policy holder. By comparison, G&P94 focus on coverage under a private health insurance plan either in one's own name or in someone else's name. They do this because the CPS questionnaire changed in March 1988 making the survey responses regarding policy holder status inconsistent over time. X is a vector including individual and family characteristics as well as a constant term. Self Emp takes on a value of "1" if an individual is self-employed, and "0" otherwise (i.e. wage/salary employee). Year is the set of year fixed effects, State is a vector of state fixed effects, and  $\varepsilon$  is the error term which we assume is distributed normally. The omitted year is 1995—the year in which the deduction equaled 25 percent, the least generous in the time frame we analyze.

The key identifying assumption in estimating our model is that in the absence of the

figures corresponding to 1995 and 2005 by adjusting the adjacent year's figure for the rate of inflation (as measured by the Consumer Price Index)—i.e. between 1995-1996 and 2004-2005, respectively.

TRA86 amendments, the unobservable differences between the self-employed (treatment group) and the wage/salary employees (control group) would be the same over time. In other words, the diff-in-diff approach provides an unbiased estimate of the effect of the tax policy change assuming that the unobservable trend factors do not vary across the groups. In order to check whether these assumptions hold in our data, we perform a series of robustness checks that consider different time periods and use different control groups. These results are reported in Section 4.

Another assumption made in estimating (1) is that SelfEmp is exogenous. Over the time period we analyze, the overall unincorporated self-employment rate increased from 6.6 percent in 1995 to 7.2 percent in 2005, averaging 7.1 percent for the entire 10-year period. In order to provide support for the assumption of exogeneity we explore the extent of possible bias due to compositional changes within the self-employed and/or wage/salary population with the figures provided in Table 2. Table 2 exploits the longitudinal feature of the CPS in addressing the possible endogeneity of SelfEmp. The CPS can be used to create a panel of two-year cross sections by matching a subsample of individuals between each consecutive survey year. This subset of the CPS is referred to as the "outgoing rotation group" (ORG).<sup>4</sup> This feature of the CPS provides us with an opportunity to examine the possible effects of the TRA86 amendments on the year-to-year changes in labor market status, i.e. between wage/salary employment and self-employment. For this subset of individuals, we find that the fraction of individuals who switch jobs—from wage/salary employment into self-employment and vice versa-in any given year is quite small; it is well under half a percent of our ORG sample. This is likely because the two observations we have for each individual are only 12 months apart. Only about two percent of the sample switches over the entire 10-year period.

More importantly, there does not seem to be any patterns, in terms of gaining health insurance coverage, as individuals move into self-employment; only about 0.2 percent of the sample switch from wage/salary employment to self-employment and gain health insurance coverage over the entire period considered. In fact, it is slightly more likely that they lose their policy holder status when they switch to self-employment (0.5 percent). Similarly, among the self-employed individuals who switch into wage/salary employment, a larger portion gain coverage as a policy holder rather than lose it. All of this reflects the link between health

<sup>&</sup>lt;sup>4</sup>See the Data section below for a detailed description of how the panel is created.

insurance coverage and full-time wage/salary employment in the U.S. Overall, there does not seem to be any discernable pattern over time that would indicate that the increasing generosity of the TRA86 amendments encouraged wage/salary employees to switch into self-employment. This is similar to the findings of Holtz-Eakin et al. (1996) who find no effect of health insurance portability on the likelihood of transition from wage/salary employment to self-employment. While we are not suggesting that the decision to be self-employed is exogenous, it is clearly not related to the likelihood of gaining health insurance coverage, nor is it made in response to the TRA86 amendments. Thus, we proceed with the assumption of exogeneity as any possible endogeneity bias seems to be quite small based on the figures provided in Table 2.

We use a linear probability model (LPM) to estimate (1). Alternatively, we could estimate (1) with a probit or logit model. As discussed in Hotz et al. (2006), LPMs in diff-in-diff settings are preferable because they are less computationally intense and easier to interpret.<sup>5</sup> This specification allows us to see how self-employed persons were affected, relative to wage/salary employees, and to gauge the effects of the increased generosity of the TRA86 health insurance deductions over time. Hence, the  $\hat{\theta}$ s are the diff-in-diff estimates. The literature (e.g., Perry and Rosen, 2004) has established that the rate of health insurance coverage is lower for selfemployed persons than for wage/salary individuals. Thus, we expect the estimated  $\gamma$  to be negative. If the TRA86 amendments did in fact encourage the self-employed to obtain health insurance coverage as a policy holder over time, we would expect the estimated  $\theta$ s to be positive.

The differences in terms of health insurance coverage between the self-employed and the wage/salary employees is largely due to the high cost associated with obtaining health insurance in the private non-group market, although other factors such as differences in risk attitudes, age, etc. of the self-employed population might be important as well. In studying the initial TRA86 tax credit and the demand for health insurance, G&P94 specify a discrete choice model of individual insurance demand. Following their specification we also estimate the following model:

$$Y_{its} = X_{its}\phi + SelfEmp_{its}\psi + \sum_{t=1996}^{2005} \zeta_t Year_{its} + State_{its}\eta_s + P_{its}\lambda + \mu_{its},$$
(2)

 $<sup>{}^{5}</sup>$ Ai and Norton (2003) discuss the problems associated with estimating the marginal effects for the interaction terms in non-linear models. They show that in order to correctly estimate the marginal effect of an interaction term, the entire cross-derivative must be calculated. However, there are difficulties associated with multiple interaction terms, as in the case of our model.

where Y, X, SelfEmp, Year, and State are defined as before and  $\mu$  is the error term which is normally distributed. P is a measure of the after-tax premium. We estimate this model with a LPM as well as with a probit. We conduct the empirical analyses of (1) and (2) separately for men and women. Then, we divide our sample according to differences in family structure and eligibility. Details on these estimations as well as the results are reported in Section 4.

#### 3 Data

The data used in this paper come from the CPS. The CPS is a monthly survey sponsored by the Census Bureau and the Bureau of Labor Statistics (BLS). Each month the CPS surveys some 50,000 households ("occupied units") and is designed to represent the U.S. civilian, non-institutionalized population.<sup>6</sup> Respondents are asked questions about themselves and persons in the household who are ages 16 and above. The questions center on demographic characteristics and labor market activities but include other annual supplementary information as well (e.g., health insurance, tobacco use, computer ownership). The respondent ("reference person") is often the owner or renter of the selected housing unit.

This study uses data from the 1996-2006 CPS surveys. The 1996 survey was the first year in which detailed questions concerning the source of health insurance coverage were asked. The analysis for this paper focuses on workers between the ages of 25 and 60. We exclude individuals who were: 1) disabled; 2) full-time students; 3) in the Armed Forces; 4) missing information on any of the variables used in the analysis as well as those who were 5) unemployed; 6) not in the labor force; and/or 7) working without pay.<sup>7</sup> In our sample, we not only include the respondents but also any other individual in their family (e.g., spouse) who satisfy the age restriction and the other criteria mentioned above.

We perform the empirical analysis for men and women separately. In addition, we further divide men and women into subsamples based on family structure and eligibility status. Marital status is important in terms of having alternative sources of coverage.<sup>8</sup> Single individuals are a special group since they can only have coverage as a policy holder. Married individuals, on the

<sup>&</sup>lt;sup>6</sup>Beginning in July 2001, the sample size increased to 60,000 occupied households.

<sup>&</sup>lt;sup>7</sup>Later, in Section 4, we expand the sample to include not working persons—i.e. individuals in groups 5, 6, and 7.

 $<sup>^{8}</sup>$ Abraham et al. (2002) and Beeson-Royalty and Abraham (2003) address the joint nature of the household demand for health insurance.

other hand, can be covered under their spouse's health insurance plan. We further explore the possibility that the presence of children may reduce the likelihood of self-insuring by considering married persons without children. Finally, we also address the eligibility restrictions of the TRA86, as noted previously, by identifying the individuals who are not covered as a dependent under an employer-provided health insurance plan and whose real annual earnings are at least \$2000.

The CPS uses a 4-8-4 sampling scheme meaning that each household is in the survey for four consecutive months, out for the next eight, and then returns for the following four months. This survey design creates a longitudinal, albeit short, component called the "outgoing rotation group" (ORG). Our analysis uses a series of pooled cross-sections which includes duplicate observations on individuals who are part of the ORG sample.<sup>9</sup> About 38 percent of our sample is composed of ORG individuals. The pooled cross-sections include repeated observations for the ORG respondents and thus we adjust the standard errors by clustering within individuals in order to correct for the possible autocorrelation. This allows us to maintain the largest sample size and improves the precision of our estimates.<sup>10</sup>

The 1996-2006 CPS cross-sectional data we use correspond to 1995-2005. This is because the health insurance questions are asked once a year in March and refer to coverage at any time during the previous calendar year. An individual is classified as having health insurance if he/she is covered by: 1) a private plan through an employer (either as a policy holder or dependent); 2) a private plan purchased directly (either as a policy holder or dependent); 3) a private plan provided by someone outside of the household; 4) Medicare; 5) Medicaid; or 6) another type of plan (i.e. state-only plan, Military Health plan, and Indian Health Service).<sup>11</sup> The dependent variable used in the empirical analysis is whether an individual was covered by a non-public health insurance plan in their own name in the prior year (i.e. policy holders in categories 1 and 2). Individuals are considered self-employed if they indicate being self-employed, in terms of the longest job held within the past year, and if their business was unincorporated. This is consistent with the BLS' definition of self-employment (Hipple,

 $<sup>^{9}</sup>$ In a given survey, individuals are uniquely identified by two variables: a household identifier (HHID) and an individual line number within the household (LINENO). Across surveys, one needs to supplement these two variables with others in order to match individuals over time. Following Madrian and Lefgren (1999), we use gender, race, age, educational attainment, and foreign birth status to obtain a good match.

<sup>&</sup>lt;sup>10</sup>The results are robust to eliminating either the first or the second observation on each ORG individual, thus omitting repeated observations on each individual.

<sup>&</sup>lt;sup>11</sup>Note that these categories are not necessarily mutually exclusive.

2004).<sup>12</sup> Since the longest job held corresponds to the prior year, it accords well with the health insurance variables.

The controls for individual characteristics used in the analysis include age and its square. The three race variables are White, Black, and other. The ethnic categories include Hispanic and other. We include the following levels of completed schooling: high school graduate, some college, college degree, or an advanced degree. Those with less than a high school degree are the omitted category. For the family characteristics, we form the following dummy variables for the number of own-children ages 18 and younger: having no children (excluded category), one child only, and more than one child. Family income is defined as the combined income of all family members during the last 12 months. It includes income from jobs, net income from a business/farm/rental unit, pensions, dividends, interest, social security payments, and any other money income received by family members ages 15 and above. This measure is adjusted for inflation and for the number of family members.<sup>13</sup>

Table 3a (3b) provides the descriptive statistics for men (women) by employment status. To begin, the sample of working men—both wage/salary and self-employed—is larger than for women. Self-employed persons are slightly older than their wage/salary counterparts. A smaller fraction of the self-employed are minorities and fewer of them report working the typical hours per week (36-55 hours) compared to the wage/salary employees. While most men are full-time workers, there is a noticeably larger fraction of women who are part-time workers. Since we focus on prime-age working individuals, the large majority of the sample reports their health status as excellent, very good, or good. The wage/salary employees and the self-employed are very similar in terms of their self-reported health status. For both sexes, a larger portion of the wage/salary employees have some type of health insurance coverage than do the self-employed (83.1 versus 65.8 percent for men and 86.5 versus 75.8 percent for women, respectively). This difference between the wage/salary employees and the self-employed is even more pronounced when one considers only the policy holders (71.9 versus 39.2 percent for men and 60.2 versus 26.9 percent for women).

The majority of our sample is married, and self-employed people are even more likely to be so than wage/salary workers. The adjusted family income is higher among the wage/salary men

<sup>&</sup>lt;sup>12</sup>Self-reports of self-employment can be problematic as individuals can report themselves as "self-employed" when they are not really working or are not in the labor force.

<sup>&</sup>lt;sup>13</sup>Adjusted family income is total family income divided by the square root of the number of family members.

than the self-employed men which is also partly reflected in the MTRs. Among the married persons, a larger percentage of men and women in wage/salary employment are married to spouses who have some source of health insurance coverage but fewer of them report being married to spouses who are policy holders. For both the wage/salary employees and the self-employed, it is more common for the women to be married to spouses with their own employer-provided health insurance plan than it is for men. For example, among the men in wage/salary employment (self-employment), 37.1 (42.3) percent are married to spouses who are policy holders of employer-provided health insurance plans, whereas the corresponding figure for women is 63.6 (62.2) percent. In the next section, we present the estimation results of our diff-in-diff and insurance demand models and discuss some robustness checks.

#### 4 Estimation and Results

Tables 4a and 4b provide the simple sample means and the unadjusted diff-in-diff estimates for men and women, respectively. Between 1995 and 2005, there are downward trends in the rate of health insurance coverage as a policy holder. For example in 1995, 70.7 (58.7) percent of all men (women) in our sample had health insurance coverage as a policy holder whereas in 2005 this rate dropped to 65.9 (57.1) percent. Similarly for the wage/salary men (women), the rates fell from 73.0 (60.4) to 68.6 (59.1) percent. While the rate of coverage is always higher for wage/salary employees than for self-employed workers, there are corresponding decreases in the rates of coverage for the self-employed men and women over time as well. In 1995, 41.1 (28.1) percent of the self-employed men (women) had coverage under their own name; this figure drops to 34.3 (23.0) percent 10 years later. The simple differences listed in columns 4 and 5 illustrate these year-by-year changes for each worker-type. The simple diff-indiff estimates provided in the last columns of Tables 4a and 4b reveal the gap in coverage, that is growing over time, between self-employed persons and wage/salary workers. These simple diff-in-diff estimates are statistically insignificant except for women in 2005. While crude, the figures provided in Tables 4a and 4b are some of the first evidence that the TRA86 amendments did not help in eliminating, or reducing, the gap in coverage for self-employed persons. Next, we estimate a series of diff-in-diff specifications by controlling for a variety of other factors.

The estimates of (1) can be found in Tables 5a and 5b; the full set of results are available

in Appendix Tables 1a and 1b. Each regression also includes a set of state-specific effects (not reported) to account for any state-level differences. The regression results are summarized as follows: Individuals are less likely to have coverage in their own name if they are self-employed, Black, Hispanic, less educated, younger, a single man, or a married woman, and have lower family incomes. The diff-in-diff technique is performed by comparing self-employed persons to wage/salary workers relative to 1995—the year in which the TRA86 tax credit was the least generous (25 percent) during the time period we analyze.

Table 5a (5b), column 1, provides the estimates of (1) for all men (women) in our sample. Clearly, being self-employed lowers the likelihood that one has a health insurance plan in his/her name. The negative and statistically significant coefficient estimate on this indicator implies that the coverage rates are about 32.6 (30.2) percentage points lower for self-employed men (women) compared to those in wage/salary employment. The coefficient estimates on the year dummies are almost all negative and gain statistical significance in the latter years. Jointly, the year dummies are statistically significant and collectively they suggest that the rate of coverage has declined over time for both groups; a finding consistent with the figures presented in Tables 4a and 4b. Similarly, the estimated coefficients on the interaction terms are nearly all negative but only gain statistical significance in 2005; jointly they are not statistically significant. Again consistent with the naive diff-in-diff presented in Tables 4a and 4b, this implies that the TRA86 amendments did not help to close the gap in health insurance coverage between the self-employed and wage/salary employees. In fact, the negative coefficient estimates suggest that the gap in coverage between the self-employed and the wage/salary grew in size rather than shrunk over time. However, these effects are not statistically significant.

Tables 5a and 5b, columns 2-4, restrict the sample by family structure. Column 2 considers single persons. This group is unique in that they do not have any other possible sources of health insurance coverage from another family member. (Recall that full-time students and individuals under the age of 25 are omitted from our sample.) Perhaps due to this lack of alternatives, the gap in health insurance coverage between the wage/salary employees and the self-employed is smaller for the singles than it was for the full sample. While smaller in magnitude, the estimated coefficient on SelfEmp remains statistically significant. In the case of single men and women, the only individual interaction terms that gain statistical significance are negative. So far, we have yet to find evidence that the gap in coverage has decreased

over time as the tax credits became more generous. Column 3 considers married persons and column 4 refers to married persons without children. While health insurance coverage decisions are often made in the context of the household for married couples, the presence of children presumably limits the likelihood of self-insuring. Again, the interaction terms remain jointly (and individually) statistically insignificant for both groups (with the marginal exception of married women without children). In sum, redefining our sample according to family structure leaves the results unchanged—the diff-in-diff estimates show no effect of the TRA86 amendments.

The TRA86 restricted eligibility to persons with positive net profits who do not have access to employer-provided health insurance. Unfortunately, the CPS data do not include information on profits earned. In columns 5 and 6 of Tables 5a and 5b, we use the same income restriction as in G&P94 and eliminate those persons who earn less than \$2000 per year in real terms. These columns also eliminate anyone who is covered as a dependent under an employer-provided health insurance plan, although it is not clear whether this rule is being enforced. We refer to these individuals as "eligible" but given the limitations of our data we cannot determine with certainty if an individual has access to employer-provided health insurance.<sup>14</sup> Although our eligibility classification may not be exact, it provides us with an opportunity to investigate this group more closely. The incentives provided by the tax credits are greater for these individuals, holding everything else constant. Restricting our sample in this manner produces some statistical significance on a limited number of the individual interaction terms, but each coefficient estimate remains negative. In the case of eligible men (see Table 5a, column 5) the interaction terms are jointly statistically significant (albeit at the 10 percent level). However, the diff-in-diff estimates do not suggest that the gap in coverage is closing over time as the individual interaction terms, including those that are statistically significant, are all negative.

Overall the results presented in Tables 5a and 5b are consistent with the naive diff-in-diff estimates provided in Tables 4a and 4b. The diff-in-diff estimates are almost always statistically insignificant in the regression context (with the exception of eligible men and married women without children) when we are able to include other controls in the analysis but the estimated

<sup>&</sup>lt;sup>14</sup>The reasons for this are: 1) if a spouse reports no employer-provided insurance, it does not necessarily imply that he/she was not offered such a plan; and 2) even if a spouse has coverage under such a plan, we cannot confirm whether the spouse was given the option of including the respondent under the policy.

coefficients on the interaction terms are never positive. If the TRA86 amendments did in fact encourage self-employed persons to obtain coverage, the estimated  $\theta$ s would be positive. Together these findings suggest that the gap between the wage/ salary employees and the selfemployed was not reduced by the tax credits introduced through the TRA86 amendments. In order to confirm these findings, we performed two robustness checks. First, we expanded our sample to include those individuals who were not working. An individual is defined as not working if he/she is unemployed, not part of the labor force, or working without pay. As before, we consider the longest job held within the past year for these classifications. Like the selfemployed, not working individuals do not have access to employer-provided health insurance. While both groups purchase their health insurance in the private non-group market, the not working group was not eligible for the tax credits. For this robustness check, we added a dummy variable for not working and its interactions with the year dummies.<sup>15</sup> Second, we re-estimated our model using 1995-1997 as the omitted reference years instead of omitting a single year (i.e. 1995). None of these exercises alter the main conclusions presented above.

Our results so far indicate that there has been no response to the decreases in the after-tax price of health insurance implying that the demand is price inelastic. Next, we investigate the degree of price elasticity of demand for coverage as a policy holder using the TRA86 amendments as an identification strategy. In order to obtain an estimate of the price elasticity of demand, we need to explicitly control for the differences over time in the after-tax premium of health insurance between the self-employed and the wage/salaried. As discussed above, during the period we consider the coverage rates have been decreasing for both the wage/salary employees and the self-employed individuals. Cutler (2003) studies the reasons for the decline in health insurance coverage rates in the 1990s despite the economic boom the U.S. experienced. He finds that the entire decline among the wage/salary employees can be explained by the increase in employees' costs of insurance plans.

Wage/salary employees face lower premiums compared to the self-employed not only because their employers sponsor part of the premium but also because employer-provided insurance is based on group rates that are substantially below individually purchased plan rates. G&P94 indicate that while some self-employed might have access to group insurance coverage,

 $<sup>^{15}</sup>$  This exercise was only performed only for columns 1-4 of Tables 5a and 5b because we were not able to impose the \$2000 earnings threshold for this sample to explore the set of eligibles.

most of them purchase individual insurance. They calculate the after-tax premium of health insurance for a single year with data on the distribution of expenditures on health care and insurance purchased in the non-group market from the 1977 National Medical Care Expenditure Survey (NMCES). We obtain average individual premium figures using the Medical Expenditure Panel Survey-Insurance Component (MEPS-IC). The Agency for Healthcare Research and Quality (AHRQ) makes available annual tables from the MEPS-IC corresponding to 1996-2004 which list the average individual premiums per enrolled employee at private-sector establishments that offer health insurance. The figures are provided for each state and vary by firm size. For the wage/salary employees, we use the overall firm averages, by state and by year.

The AHRQ's MEPS does not have similar information for privately-purchased non-group plans. In fact, obtaining meaningful and reliable average premium figures for individually purchased plans from any source is nearly impossible.<sup>16</sup> Since no reliable estimates exist, we proxy for the premium of plans purchased in the non-group market with the MEPS-IC figures corresponding to firms employing less than 10 employees. These premiums reflect the best proxy for what a self-employed individual would face in the market for non-group health insurance. In order to construct an after-tax figure, we obtain estimated MTRs using the NBER's TAXSIM program.<sup>17</sup> This program calculates individuals' MTRs using information reported on their tax returns including the tax year, state of residence, marital status, exemptions, various sources of income (such as wage/salary, dividend, other property, social security, and pensions) and transfers (such as unemployment compensation and welfare). As in G&P94, the after-tax premium of health insurance, P, is defined as:

$$P = \begin{cases} I \times (1 - \beta \tau) & \text{if wage/salary employee} \\ T \times (1 - max(\beta, TRA_t)\tau) & \text{if self-employed,} \end{cases}$$
(3)

where I is the employee's contribution to his/her health insurance plan and  $\beta$  is the fraction of the health insurance cost that is claimed as an itemized deduction on one's income tax return. Individuals (both wage/salary and self-employed) are allowed to deduct their health insurance

<sup>&</sup>lt;sup>16</sup>MEPS has a Household Component (MEPS-HC) which is a survey of individuals and families. The MEPS-HC asks the respondents, who report having coverage from an individual policy, what their out-of-pocket premiums are. This is a very small sample and hence cannot provide reliable summary statistics at the state-level for each year between 1995 and 2005.

<sup>&</sup>lt;sup>17</sup>For more information on TAXSIM, see www.nber.org/taxsim or Feenberg and Coutts (1993).

premiums from their taxable income as long as the cost, together with the other eligible medical care expenditures, constitute at least 7.5 percent of their adjusted gross income (AGI).  $\tau$  is the individual's MTR on earned income, and T is the total health insurance premium which represents both the employee's and the employer's contribution to the health insurance plan.  $TRA_t$  is the deduction rate allowed by the TRA86 in each year (e.g.,  $TRA_{1996} = 0.3$ ).

G&P94 faced additional challenges in estimating the price elasticity of demand because during the period they analyzed changes other than the partial deductibility of health insurance premiums by the self-employed occurred. First, the MTRs were substantially reduced; they note that the top MTR dropped from 50 to 28 percent with the passage of the TRA86. Second, the amount of permissible medical expenses one could deduct from their income tax returns was raised from 5 to 7.5 percent of AGI. Third, the allowable deduction, for taxpayers who do not itemize, rose from \$3760 to \$5000. It is easier in our case to form a price measure because our period of analysis is free of other confounding policy changes.

To begin, we estimated (2) omitting P. As was the case with the diff-in-diff model presented above, the estimated coefficient on SelfEmp is negative and statistically significant. Once we include the after-tax health insurance premium in our regression,  $\hat{\psi}$  is slightly smaller in magnitude but it maintains its sign and statistical significance. Table 6 reports only the coefficient estimate on P and the price semi-elasticity of demand; the full set of results can be found in the Appendix Tables 2a and 2b. The first set of results in Table 6 (M1), corresponding to the men, report the LPM estimates of (2). The coefficient estimates of  $\lambda$ s and their standard errors can be found in the first two rows.  $\hat{\lambda}$  represents the derivative of demand with respect to the after-tax price  $(\frac{\partial Y}{\partial P})$ . This is then multiplied by the corresponding cell average of the after-tax health insurance premium for the self-employed to obtain the price semi-elasticity which is reported in the third row.<sup>18</sup> For example, in (M1) column 1, the partial derivative of Y with respect to P is -0.012. To obtain the price semi-elasticity we multiply this figure by 3.127, yielding -0.038. Thus, a 10 percent decrease in the after-tax health insurance premium increases the probability that a self-employed man has coverage as the policy holder by 0.38 percentage points suggesting that this group's demand is relatively price inelastic.

Columns 2 and 3 divide the sample into single and married persons. The price semi-

<sup>&</sup>lt;sup>18</sup>Following G&P94, we use the after-tax price for the self-employed since the focus is on their behavioral response to the TRA86 and the wage/salary persons merely act as controls for economy wide events.

elasticity of demand for single men is larger in magnitude (-0.068) and reveals a greater degree of price sensitivity compared to those who are married. This finding was expected since singles lack alternative sources of coverage and hence are more likely to respond to this particular change in policy. Column 4 corresponds to the set of married individuals without children. Although for both the subsample of married men and married men without children the price response is virtually zero, those without children have a demand that is relatively more price elastic. In both cases, the coefficient estimate on P is statistically insignificant. Finally, columns 5 and 6 consider the set of eligible respondents. We would expect to see a greater response to the TRA86 amendments among these persons, however,  $\hat{\lambda}$  is statistically insignificant. A possible explanation for this is due to the eligibility conditions: in order to be eligible, these individuals cannot be covered as a dependent under an employer-provided health insurance plan. And so, if they have coverage, the policy must have already been in their own name. Further restricting the sample to include only those eligible persons without children (i.e. column 6) yields statistically significant  $\hat{\lambda}$ s. The semi-elasticity of demand for these men is -0.055 implying that, as expected, the lack of children makes individuals relatively more price sensitive.

The results are quite similar for the sample of women with slightly higher estimates of the price semi-elasticities (see Table 6 (W1)). The statistically significant estimates of  $\hat{\lambda}$  correspond to the entire sample of women, the single women, and the set of eligibles without children (i.e. columns 1, 2, and 6). The corresponding price semi-elasticities are -0.047, -0.102, and -0.084, displaying a very limited response to changes in the after-tax price of health insurance. Thus, overall we see the largest response to the tax credits, in terms of the estimated price elasticity, by the single men and women.

Alternatively, we estimated (2) with a probit model. The estimates from this model are found in Table 6, rows (M2) and (W2). Provided here are the coefficient estimate on P, its derivative (i.e. marginal effect), and the corresponding price semi-elasticity.<sup>19</sup> The estimated coefficient on P is again statistically significant in columns 1, 2, and 6 for the entire sample of men and women, the singles, and the eligibles without children. Estimating (2) with a probit essentially leaves the results unchanged; the semi-elasticities are very similar to

<sup>&</sup>lt;sup>19</sup>To calculate the marginal effects we evaluate the derivative with respect to price for each individual observation and take the sample average.

those obtained under LPM and the order of magnitude across subsamples is preserved. An additional robustness check is the expansion of our sample to include those individuals who were not working, for the reasons mentioned previously. Finally, rather than clustering our standard errors, we eliminated the duplicate observations corresponding to the persons in the ORG. For this purpose, we began by eliminating the first observation on each ORG person and next eliminated the second observation instead. Our conclusions were not altered by either of these exercises.<sup>20</sup>

In several instances G&P94 also obtained statistically insignificant responses to price changes. However, their statistically significant price derivatives, as in the case of single men, yielded larger price elasticities compared to the ones we estimate. As a final exercise, we attempt to provide an explanation for these differences. To do this, we re-estimate (2) again with an LPM model but use G&P94's definition of Y—namely, health insurance coverage as a policy holder or in someone else's name (i.e. categories 1, 2, 3 as described in Section 3). The largest difference between (M1) and (M3), as well as (W1) and (W3), is for married individuals without children. By using this alternative definition of coverage, we obtain semi-elasticities that are larger in magnitude. The estimates are still smaller than what G&P94 find but indicate that at least part of the difference stems from the definition of coverage. By not considering the policy holder status, we along with G&P94 are probably capturing either the response of the individual or possibly that of the spouse to the policy change without begin able to distinguish between the two.

### 5 Conclusions

In this paper, we analyze how the tax credits provided under the TRA86 amendments affected the rates of health insurance coverage among the self-employed. We find that even the full-deductibility of health insurance premiums was not sufficient to compensate the selfemployed for the high costs associated with obtaining health insurance coverage in the private non-group market. Using data from the CPS, corresponding to the period of 1995-2005, we obtain diff-in-diff estimates comparing the self-employed to wage/salary employees. These results provide no evidence that the tax credits helped to reduce or eliminate the gap in

<sup>&</sup>lt;sup>20</sup>The results of these robustness checks are available from the authors upon request.

coverage between these two groups. Estimates of the price elasticity of demand reveal a very limited response to reductions in the after-tax premium. This conclusion is consistent with earlier findings that the provision of subsidies in the non-group market is unlikely to generate sizeable reactions among the uninsured (Marquis and Long, 1995; Gruber, 2004; Holtz-Eakin, 2005).

The uninsurance problem gripping America has already become one of the leading issues in the upcoming 2008 Presidential elections. Having addressed the prior lack of prescription drug coverage for Medicare recipients with the passage of the Medicare Prescription Drug Plan in 2006, President Bush is now proposing a series of standard tax deductions aimed at addressing the nation's growing uninsured population. While our conclusions pertain to the self-employed population and may not generalize to other groups with high rates of uninsurance, our results do suggest that these types of policies, by themselves, may not provide sufficient incentives for individuals purchasing health insurance in the private non-group market. Even when the tax credits cover a substantial portion of the total premium, obtaining coverage in this market may still be difficult due to other factors such as search costs and potential denial. Last but not least, non-group policies are typically not as generous as the employer-provided plans in terms of their cost-sharing features (such as co- payments, co-insurance rates, deductibles) and extent of coverage (Pauly and Nichols, 2002). Therefore, offering tax credits alone, without adopting other policies, may not achieve the desired outcome.

Further questions need to be answered to address other relevant issues that are beyond the scope of the current analysis. For example, how has the non-group health insurance market been affected by these tax credits? Were firms encouraged to enter the market as the tax credits became more generous? How would extending the tax credits to other persons, e.g. the not working, affect the rates of coverage? Would the tax credits encourage individuals, who currently have employer-provided health insurance, to purchase their plan in the non-group market instead? Finally, what other regulations should be adopted in the non-group market to ensure that the tax credits have the intended outcomes? Future research on all of these issues is critical in providing a more complete answer to the question of whether tax incentives are the solution to the problem of the uninsured.

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Year	Tax subsidy as a	Average	Average	Real tax	savings
	% of premium	nominal premium	real premium	MTR=15%	MTR=28%
1995	25%	\$2,167	\$2,515	\$81	\$152
1996	30%	\$2,229	\$2,465	\$100	\$187
1997	40%	\$2,209	\$2,454	\$133	\$247
1998	45%	\$2,334	\$2,512	\$158	\$294
1999	60%	\$2,553	\$2,601	\$230	\$429
2000	60%	\$3,003	\$2,712	\$270	\$505
2001	60%	\$3,209	\$2,922	\$289	\$539
2002	70%	\$3,565	\$3,251	\$374	\$699
2003	100%	\$3,834	\$3,594	\$575	\$1,074
2004	100%	\$3,998	\$3,929	\$600	\$1,119
2005	100%	\$4,122	\$4,159	\$618	\$1,154

 Table 1: Health insurance premiums and the corresponding deductions in taxable income, 1995-2005

Notes: Prices reflect the average premiums per enrolled employee at small private-sector establishments (fewer than 10 employees) that offer health insurance. Real amounts are expressed in constant 2006 US\$. MTR = marginal tax rate. Source: MEPS.

		Previo	ously wage/salary			Previou	usly self-employed	
	Number	of switchers	% of swit	chers who	Number	of switchers	% of swite	chers who
	to self-em	ployment (%)	gain HI policy	lose HI policy	to wage	e/salary (%)	gain HI policy	lose HI policy
Years			holder status	holder status			holder status	holder status
1995	414	(0.21%)	0.02%	0.04%	438	(0.22%)	0.04%	0.03%
1996	613	(0.31%)	0.03%	0.06%	306	(0.15%)	0.03%	0.02%
1997	393	(0.20%)	0.02%	0.04%	423	(0.21%)	0.04%	0.02%
1998	371	(0.19%)	0.02%	0.04%	394	(0.20%)	0.04%	0.01%
1999	393	(0.20%)	0.02%	0.05%	395	(0.20%)	0.04%	0.02%
2000	371	(0.19%)	0.02%	0.04%	387	(0.19%)	0.05%	0.01%
2001	491	(0.25%)	0.02%	0.07%	519	(0.26%)	0.06%	0.03%
2002	470	(0.24%)	0.02%	0.05%	511	(0.26%)	0.05%	0.02%
2003	456	(0.23%)	0.02%	0.06%	417	(0.21%)	0.04%	0.02%
2004	464	(0.23%)	0.02%	0.04%	484	(0.24%)	0.05%	0.02%
All years	4,436	(2.23%)	0.19%	0.50%	4,274	(2.15%)	0.43%	0.20%

Notes: <sup>†</sup>The figures correspond to the men and women in the outgoing rotation group (ORG) only (N=199,161).

	wage,	/salary	Selt-en	nployed
	Mean	St. Error	Mean	St. Error
Individual characteristics				
Age	40.731	0.019	43.785	0.064
Age 25-34	0.307	0.001	0.189	0.003
Age 35-44	0.330	0.001	0.330	0.003
Age 45-54	0.264	0.001	0.329	0.003
Age 55-60	0.098	0.001	0.153	0.002
Race/Ethnicity				
White	0.841	0.001	0.890	0.002
Black	0.102	0.001	0.054	0.002
Hispanic	0.127	0.001	0.092	0.002
Education				
Years of schooling	13.499	0.006	13.439	0.020
Less than high school	0.101	0.001	0.108	0.002
High school degree	0.323	0.001	0.354	0.003
Some college degree	0.261	0.001	0.251	0.003
Bachelor's degree	0.207	0.001	0.179	0.003
Graduate degree	0.107	0.001	0.108	0.002
Weekly hours worked				
1-20	0.017	0.000	0.052	0.002
21-35	0.047	0.000	0.122	0.002
36-55	0.839	0.001	0.625	0.003
55+	0.097	0.001	0.200	0.003
Health status				
Excellent	0.350	0.001	0.338	0.003
Very good	0.367	0.001	0.361	0.003
Good	0.234	0.001	0.242	0.003
Fair	0.043	0.000	0.050	0.002
Poor	0.006	0.000	0.008	0.001
Health insurance				
Any	0.831	0.001	0.658	0.003
Policy holder	0.719	0.001	0.392	0.003
E				
F <i>amily characteristics</i>	0.669	0.001	0.709	0.003
Number of children under age 18	0.826	0.001	0.852	0.003
Number of children under age 18 No children	0.820	0.002	0.565	0.008
One child	0.303	0.001	0.365	0.003
More than one child				
	0.266	0.001	0.269	0.003
Adjusted family income (\$10,000) <sup>+</sup> Estimated marginal tax rate (MTR)*	4.825	0.009	4.399	0.033
MTR = 0	0.053	0.000	0.127	0.002
$0 < MTR \leq 10$	0.035	0.000	0.051	0.001
$10 < \text{MTR} \le 15$	0.426	0.001	0.402	0.003
$15 < MTR \leq 28$	0.362	0.001	0.284	0.003
MTR > 28	0.124	0.001	0.135	0.002
Spouse characteristics <sup>†</sup>				
Spouse has any health insurance (HI) coverage	0.892	0.001	0.778	0.003
Spouse is HI policy holder	0.391	0.001	0.503	0.004
Spouse is policy holder of an empprovided HI	0.371	0.001	0.423	0.004

#### Table 3a: Descriptive statistics, men

Notes: Means and standard errors are based on weighted and clustered data. <sup>+</sup> Family income is adjusted for the household size and expressed in constant 2006 US\$. \* MTR are estimated using the TAXSIM program. <sup>+</sup> Means for spouse characteristics are conditional on being married.

_	0	e/salary		nployed
	Mean	St. Error	Mean	St. Error
Individual characteristics				
Age	41.021	0.020	43.108	0.078
Age 25-34	0.296	0.001	0.203	0.003
Age 35-44	0.327	0.001	0.351	0.004
Age 45-54	0.277	0.001	0.313	0.004
Age 55-60	0.100	0.001	0.133	0.003
Race/Ethnicity				
White	0.811	0.001	0.881	0.003
Black	0.134	0.001	0.059	0.002
Hispanic	0.100	0.001	0.072	0.002
Education	10 (50	0.00 <b>5</b>	10 550	0.000
Years of schooling	13.652	0.005	13.759	0.022
Less than high school	0.071	0.001	0.067	0.002
High school degree	0.317	0.001	0.301	0.004
Some college degree	0.299	0.001	0.316	0.004
Bachelor's degree	0.213	0.001	0.210	0.003
Graduate degree	0.099	0.001	0.106	0.003
Weekly hours worked		0.004	0.050	0.004
1-20	0.090	0.001	0.258	0.004
21-35	0.155	0.001	0.212	0.003
36-55	0.722	0.001	0.430	0.004
55+	0.033	0.000	0.100	0.003
Health status	0.005	0.004	0.045	0.004
Excellent	0.325	0.001	0.365	0.004
Very good	0.369	0.001	0.354	0.004
Good	0.249	0.001	0.223	0.003
Fair	0.051	0.000	0.048	0.002
Poor	0.007	0.000	0.009	0.001
Health insurance	0.045	0.001	0.750	0.004
Any	0.865	0.001	0.758	0.004
Policy holder	0.602	0.001	0.269	0.004
Family characteristics				
Married	0.626	0.001	0.746	0.004
Number of children under age 18	0.850	0.002	0.987	0.010
No children	0.529	0.001	0.498	0.004
One child	0.204	0.001	0.177	0.003
More than one child	0.267	0.001	0.324	0.004
Adjusted family income $(\$10,000)^+$	4.588	0.009	4.607	0.041
Estimated marginal tax rate (MTR)* $MTR = 0$	0.002	0.001	0 1 4 2	0.002
MTR = 0	0.092		0.143	0.003
$0 \leq \text{MTR} \leq 10$	0.036	0.000	0.045	0.002
$0 \leq \text{MTR} \leq 15$	0.424	0.001	0.398	0.004
$0 \leq MTR \leq 28$	0.345	0.001	0.280	0.004
MTR > 28	0.102	0.001	0.134	0.003
Spouse characteristics <sup>†</sup>				
Spouse has any health insurance (HI) coverage	0.913	0.001	0.860	0.003
Spouse is HI policy holder	0.670	0.001	0.752	0.004
Spouse is policy holder of an empprovided HI	0.636	0.001	0.622	0.005

#### Table 3b: Descriptive statistics, women

Notes: Means and standard errors are based on weighted and clustered data. <sup>+</sup> Family income is adjusted for the household size and expressed in constant 2006 US\$. \* MTR are estimated using the TAXSIM program. <sup>+</sup> Means for spouse characteristics are conditional on being married.

327,951

20,252

Ν

Years	All men	Wage/salary	Self-employed	Wage/salary Diff (t+1 - t)	Self-employed Diff $(t+1 - t)$	Diff-in-Diff
	(1)	(2)	(3)	(4)	(5)	(5) - (4)
1995	0.707	0.730	0.411	-	-	-
	(0.003)	(0.003)	(0.013)			
1996	0.706	0.727	0.422	-0.003	0.011	0.014
	(0.003)	(0.003)	(0.013)	(0.004)	(0.018)	(0.019)
1997	0.699	0.727	0.397	-0.003	-0.014	-0.011
	(0.003)	(0.003)	(0.011)	(0.004)	(0.017)	(0.018)
1998	0.710	0.737	0.414	0.007*	0.003	-0.004
	(0.003)	(0.003)	(0.012)	(0.004)	(0.018)	(0.018)
1999	0.714	0.740	0.410	0.010**	-0.001	-0.011
	(0.003)	(0.003)	(0.012)	(0.004)	(0.018)	(0.018)
2000	0.712	0.738	0.407	0.008*	-0.004	-0.012
	(0.003)	(0.003)	(0.012)	(0.004)	(0.018)	(0.018)
2001	0.701	0.725	0.410	-0.005	-0.001	0.004
	(0.003)	(0.003)	(0.010)	(0.004)	(0.016)	(0.017)
2002	0.685	0.712	0.376	-0.018***	-0.035**	-0.017
	(0.003)	(0.003)	(0.010)	(0.004)	(0.016)	(0.017)
2003	0.675	0.700	0.383	-0.030***	-0.028*	0.002
	(0.003)	(0.003)	(0.010)	(0.004)	(0.016)	(0.017)
2004	0.662	0.690	0.353	-0.040***	-0.058***	-0.018
	(0.003)	(0.003)	(0.010)	(0.004)	(0.016)	(0.017)
2005	0.659	0.686	0.343	-0.044***	-0.068***	-0.024
	(0.003)	(0.003)	(0.010)	(0.004)	(0.016)	(0.017)
	(0.000)	(0.000)	(0.010)	(0.001)	(0.010)	
All years	0.693	0.719	0.392			
2	(0.001)	(0.001)	(0.003)			
Ν	377,454	346,513	30,941			

Table 4a: Proportion of health insurance policy holders, men

Notes: Means (standard errors) are based on weighted and clustered data. \* Significance at 10%. \*\* Significance at 5%. \*\*\* Significance at 1%.

Years	All women	Wage/salary	Self-employed	Wage/salary Diff (t+1 - t)	Self-employed Diff $(t+1 - t)$	Diff-in-Diff
	(1)	(2)	(3)	(4)	(5)	(5) - (4)
1995	0.587	0.604	0.281	_	_	-
1775	(0.004)	(0.004)	(0.014)	-	-	-
1996	0.590	0.605	0.277	0.001	-0.004	-0.005
1770	(0.004)	(0.004)	(0.015)	(0.005)	(0.020)	(0.021)
1997	0.585	0.605	0.263	0.001	-0.018	-0.019
	(0.003)	(0.004)	(0.013)	(0.005)	(0.019)	(0.020)
1998	0.585	0.604	0.281	0.000	0.001	0.001
	(0.003)	(0.004)	(0.013)	(0.005)	(0.019)	(0.020)
1999	0.580	0.598	0.279	-0.006	-0.002	0.004
	(0.003)	(0.004)	(0.014)	(0.005)	(0.020)	(0.020)
2000	0.588	0.608	0.267	0.004	-0.014	-0.018
	(0.004)	(0.004)	(0.013)	(0.005)	(0.019)	(0.020)
2001	0.589	0.607	0.272	0.003	-0.008	-0.011
	(0.003)	(0.003)	(0.011)	(0.005)	(0.018)	(0.018)
2002	0.581	0.600	0.260	-0.004	-0.021	-0.017
	(0.003)	(0.003)	(0.011)	(0.005)	(0.018)	(0.018)
2003	0.581	0.599	0.272	-0.005	-0.009	-0.004
	(0.003)	(0.003)	(0.011)	(0.005)	(0.018)	(0.019)
2004	0.580	0.598	0.282	-0.006	0.002	0.008
	(0.003)	(0.003)	(0.012)	(0.005)	(0.018)	(0.019)
2005	0.571	0.591	0.230	-0.013***	-0.051***	-0.038**
	(0.003)	(0.003)	(0.011)	(0.005)	(0.017)	(0.018)
All years	0.583	0.602	0.269			
-	(0.001)	(0.001)	(0.004)			
Ν	348,203	327,951	20,252			

#### Table 4b: Proportion of health insurance policy holders, women

Notes: Means (standard errors) are based on weighted and clustered data. \* Significance at 10%. \*\* Significance at 5%. \*\*\* Significance at 1%.

#### Table 5a: Regression results, men

Variable	All men	Single men	Married men	Married men without kids	Eligible men	Eligible men without kids
	(1)	(2)	(3)	(4)	(5)	(6)
Self-employed	-0.326***	-0.260***	-0.355***	-0.375***	-0.275***	-0.260***
	(0.013)	(0.025)	(0.015)	(0.023)	(0.015)	(0.021)
1996	-0.002	0.006	-0.007	-0.010	0.002	0.000
	(0.004)	(0.009)	(0.005)	(0.008)	(0.004)	(0.006)
1997	-0.005	0.010	-0.013**	-0.014*	0.002	0.002
	(0.004)	(0.008)	(0.005)	(0.008)	(0.004)	(0.006)
1998	-0.000	0.014*	-0.007	-0.009	0.001	0.001
	(0.004)	(0.008)	(0.005)	(0.008)	(0.004)	(0.006)
1999	0.002	0.019**	-0.007	-0.013	0.007*	0.005
	(0.004)	(0.008)	(0.005)	(0.008)	(0.004)	(0.006)
2000	-0.002	0.026***	-0.014***	-0.020**	0.006	0.007
	(0.004)	(0.008)	(0.005)	(0.008)	(0.004)	(0.006)
2001	-0.015***	0.008	-0.025***	-0.031***	-0.008*	-0.008
	(0.004)	(0.008)	(0.005)	(0.007)	(0.004)	(0.006)
2002	-0.026***	-0.016**	-0.029***	-0.040***	-0.017***	-0.023***
	(0.004)	(0.008)	(0.005)	(0.007)	(0.004)	(0.006)
2003	-0.038***	-0.024***	-0.043***	-0.046***	-0.028***	-0.030***
	(0.004)	(0.008)	(0.005)	(0.008)	(0.004)	(0.006)
2004	-0.046***	-0.029***	-0.052***	-0.064***	-0.034***	-0.036***
	(0.004)	(0.008)	(0.005)	(0.008)	(0.004)	(0.006)
2005	-0.048***	-0.032***	-0.054***	-0.069***	-0.037***	-0.042***
	(0.004)	(0.008)	(0.005)	(0.008)	(0.004)	(0.006)
Self-emp × 1996	0.005	-0.007	0.011	0.053	-0.007	-0.003
en-emp × 1770	(0.018)	(0.034)	(0.021)	(0.033)	(0.021)	(0.028)
Self-emp × 1997	-0.022	-0.038	-0.015	0.015	-0.018	-0.015
sen-emp × 1997	(0.017)	(0.033)	(0.020)	(0.031)	(0.020)	(0.013)
Self-emp × 1998	-0.011	-0.028	-0.002	0.021	-0.013	-0.015
sen-emp × 1998	(0.017)	(0.033)	(0.020)	(0.021	(0.020)	(0.013)
S-16	, ,	· · ·	. ,	· · · ·	-0.022	, ,
Self-emp × 1999	-0.020	-0.043	-0.008	0.034		-0.022
Salf amp x 2000	(0.017) -0.022	(0.033) -0.055*	(0.020) -0.009	(0.032) 0.009	(0.020) -0.028	(0.027) -0.046*
Self-emp $\times$ 2000						
2001	(0.017)	(0.034)	(0.020)	(0.032)	(0.021)	(0.028)
Self-emp $\times$ 2001	0.002	0.007	-0.000	0.006	-0.000	-0.013
	(0.016)	(0.032)	(0.019)	(0.031)	(0.019)	(0.027)
Self-emp $\times$ 2002	-0.011	-0.005	-0.012	0.002	-0.039**	-0.045*
16 0000	(0.016)	(0.031)	(0.018)	(0.030)	(0.019)	(0.027)
Self-emp $\times$ 2003	0.001	-0.035	0.013	0.037	-0.022	-0.037
2004	(0.016)	(0.031)	(0.019)	(0.031)	(0.019)	(0.027)
Self-emp $\times$ 2004	-0.014	-0.043	-0.004	0.047	-0.025	-0.027
	(0.016)	(0.031)	(0.018)	(0.030)	(0.019)	(0.026)
Self-emp $\times$ 2005	-0.030*	-0.061**	-0.022	-0.005	-0.053***	-0.068***
	(0.016)	(0.031)	(0.018)	(0.030)	(0.019)	(0.026)
oint significance (p-values)						
Year dummies	0.000	0.000	0.000	0.000	0.000	0.000
Interaction terms	0.309	0.263	0.705	0.498	0.097	0.177
Year DVs & interactions	0.000	0.000	0.000	0.000	0.000	0.000
$R^2$	0.124	0.149	0.116	0.106	0.179	0.157
Ν	377,454	108,132	269,322	95,292	307,777	160,749

Notes: All models include individual and family characteristics, a constant term, and state effects. For full regression results, see Appendix Table 1a. Excluded categories are non-Hispanic whites, less than high school degree, no children, year 1995, and its interaction with the self-employed indicator. Standard errors are in parantheses. \* Significance at 10%. \*\* Significance at 5%. \*\*\* Significance at 1%.

#### Table 5b: Regression results, women

	All women	Single women	Married women	Married women	Eligible women	Eligible women
Variable				without kids		without kids
	(1)	(2)	(3)	(4)	(5)	(6)
Self-employed	-0.302***	-0.241***	-0.322***	-0.320***	-0.323***	-0.281***
	(0.013)	(0.030)	(0.015)	(0.026)	(0.021)	(0.029)
1996	-0.001	0.009	-0.008	-0.012	0.001	-0.002
	(0.005)	(0.007)	(0.006)	(0.009)	(0.005)	(0.006)
1997	-0.005	-0.002	-0.006	-0.017*	-0.007	-0.014**
	(0.005)	(0.007)	(0.006)	(0.009)	(0.005)	(0.006)
1998	-0.010**	-0.004	-0.012*	-0.025***	-0.010**	-0.018***
	(0.005)	(0.007)	(0.006)	(0.009)	(0.005)	(0.006)
1999	-0.017***	0.006	-0.030***	-0.031***	-0.008	-0.013**
	(0.005)	(0.007)	(0.006)	(0.009)	(0.005)	(0.006)
2000	-0.011**	0.009	-0.021***	-0.027***	-0.006	-0.017***
	(0.005)	(0.007)	(0.006)	(0.010)	(0.005)	(0.006)
2001	-0.014***	-0.002	-0.022***	-0.038***	-0.010**	-0.021***
	(0.004)	(0.007)	(0.006)	(0.009)	(0.005)	(0.006)
2002	-0.023***	-0.013*	-0.029***	-0.038***	-0.022***	-0.031***
	(0.004)	(0.007)	(0.006)	(0.009)	(0.005)	(0.006)
2003	-0.027***	-0.024***	-0.027***	-0.035***	-0.032***	-0.038***
	(0.004)	(0.007)	(0.006)	(0.009)	(0.005)	(0.006)
2004	-0.029***	-0.023***	-0.030***	-0.042***	-0.032***	-0.039***
	(0.004)	(0.007)	(0.006)	(0.009)	(0.005)	(0.006)
2005	-0.039***	-0.043***	-0.035***	-0.046***	-0.044***	-0.051***
	(0.004)	(0.007)	(0.006)	(0.009)	(0.005)	(0.006)
Self-emp × 1996	-0.010	-0.048	0.006	-0.011	0.001	-0.028
1	(0.019)	(0.042)	(0.022)	(0.038)	(0.031)	(0.042)
Self-emp × 1997	-0.024	-0.052	-0.016	-0.010	-0.048*	-0.047
1	(0.018)	(0.040)	(0.021)	(0.035)	(0.029)	(0.039)
Self-emp $\times$ 1998	-0.006	-0.025	0.002	0.001	-0.019	-0.029
1	(0.018)	(0.041)	(0.020)	(0.035)	(0.029)	(0.038)
Self-emp × 1999	0.008	-0.018	0.025	0.013	0.004	0.008
	(0.019)	(0.043)	(0.021)	(0.035)	(0.029)	(0.040)
Self-emp $\times$ 2000	-0.022	-0.053	-0.007	-0.006	-0.033	-0.034
	(0.019)	(0.042)	(0.021)	(0.035)	(0.030)	(0.040)
Self-emp $\times$ 2001	-0.016	-0.044	-0.004	-0.020	-0.033	-0.060
	(0.017)	(0.038)	(0.019)	(0.033)	(0.027)	(0.037)
Self-emp × 2002	-0.014	-0.076**	0.009	0.005	-0.033	-0.049
en emp × 2002	(0.017)	(0.038)	(0.019)	(0.034)	(0.027)	(0.038)
Self-emp × 2003	-0.007	-0.069*	0.018	0.005	-0.039	-0.075**
en-emp × 2003	(0.018)	(0.038)	(0.020)	(0.034)	(0.027)	(0.037)
Self-emp $\times$ 2004	0.000	-0.021	0.009	-0.014	-0.006	-0.033
sen-emp × 2004	(0.018)	(0.038)	(0.019)	(0.034)	(0.027)	(0.037)
Self-emp × 2005	-0.038**	-0.065*	-0.030	-0.080**	-0.046*	-0.094**
sen-emp × 2003			(0.019)		(0.027)	
	(0.017)	(0.038)	(0.019)	(0.032)	(0.027)	(0.038)
oint significance (p-values)	0.000	0.000	0.000	0.000	0.000	0.000
Year dummies	0.000	0.000	0.000	0.000	0.000	0.000
Interaction terms	0.261	0.589	0.151	0.107	0.403	0.191
Year DVs & interactions	0.000	0.000	0.000	0.000	0.000	0.000
$R^2$	0.120	0.161	0.074	0.056	0.130	0.097
Ν	348,203	122,196	226,007	89,356	236,374	127,934

Notes: All models include individual and family characteristics, a constant term, and state effects. For full regression results, see Appendix Table 1a. Excluded categories are non-Hispanic whites, less than high school degree, no children, year 1995, and its interaction with the self-employed indicator. Standard errors are in parantheses. \* Significance at 10%. \*\* Significance at 5%. \*\*\* Significance at 1%.

MEN	All men	Single men	Married men	Married men without kids	Eligible men	Eligible men without kids
	(1)	(2)	(3)	(4)	(5)	(6)
(M1) Health insurance/Policy holder (LPM)						
Coefficient	-0.012**	-0.022**	-0.004	-0.015	0.002	-0.018**
	(0.005)	(0.010)	(0.006)	(0.011)	(0.006)	(0.009)
Semi-elasticity	-0.038	-0.068	-0.013	-0.047	0.006	-0.055
(M2) Health insurance/Policy holder (Probit)						
Coefficient	-0.039***	-0.063**	-0.012	-0.032	-0.010	-0.068**
	(0.015)	(0.031)	(0.017)	(0.029)	(0.019)	(0.027)
Marginal effect	-0.012***	-0.020**	-0.004	-0.010	-0.003	-0.019**
Semi-elasticity	-0.038	-0.062	-0.013	-0.031	-0.009	-0.058
(M3) Health insurance/Gruber & Poterba measure (LPM)						
Coefficient	-0.006	-0.026**	0.004	-0.035***	-0.003	-0.025***
	(0.005)	(0.010)	(0.006)	(0.009)	(0.006)	(0.009)
Semi-elasticity	-0.019	-0.081	0.013	-0.110	-0.009	-0.077
Ν	377,454	108,132	269,322	95,292	307,777	160,749
	All women	Single women	Married women	Married women	Eligible women	Eligible womer
WOMEN	All women	Single women	Married women	Married women without kids	Eligible women	Eligible womer without kids
WOMEN	All women (1)	Single women (2)	Married women (3)		Eligible women (5)	8
		Ŭ		without kids	Ŭ	without kids
		Ŭ		without kids	Ŭ	without kids
(W1) Health insurance/Policy holder (LPM)	(1)	(2)	(3)	without kids (4)	(5)	without kids (6)
(W1) Health insurance/Policy holder (LPM)	(1) -0.015**	(2) -0.032***	(3) -0.001	without kids (4) -0.008	(5)	without kids (6) -0.027**
(W1) Health insurance/Policy holder (LPM) Coefficient Semi-elasticity	(1) -0.015** (0.006)	(2) -0.032*** (0.012)	(3) -0.001 (0.007)	without kids (4) -0.008 (0.012)	(5) -0.010 (0.008)	without kids (6) -0.027** (0.012)
(W1) Health insurance/Policy holder (LPM) Coefficient Semi-elasticity	(1) -0.015** (0.006)	(2) -0.032*** (0.012)	(3) -0.001 (0.007)	without kids (4) -0.008 (0.012)	(5) -0.010 (0.008)	without kids (6) -0.027** (0.012)
<ul> <li>(W1) Health insurance/Policy holder (LPM)</li> <li>Coefficient</li> <li>Semi-elasticity</li> <li>(W2) Health insurance/Policy holder (Probit)</li> </ul>	(1) -0.015** (0.006) -0.047	(2) -0.032*** (0.012) -0.102	(3) -0.001 (0.007) -0.003	without kids (4) -0.008 (0.012) -0.025	(5) -0.010 (0.008) -0.031	without kids (6) -0.027** (0.012) -0.084
<ul> <li>(W1) Health insurance/Policy holder (LPM)</li> <li>Coefficient</li> <li>Semi-elasticity</li> <li>(W2) Health insurance/Policy holder (Probit)</li> </ul>	(1) -0.015** (0.006) -0.047 -0.042**	(2) -0.032*** (0.012) -0.102 -0.067*	(3) -0.001 (0.007) -0.003 0.002	without kids (4) -0.008 (0.012) -0.025 -0.029	(5) -0.010 (0.008) -0.031 -0.033	without kids (6) -0.027** (0.012) -0.084 -0.067*
<ul> <li>(W1) Health insurance/Policy holder (LPM)</li> <li>Coefficient</li> <li>Semi-elasticity</li> <li>(W2) Health insurance/Policy holder (Probit)</li> <li>Coefficient</li> </ul>	<ul> <li>(1)</li> <li>-0.015**</li> <li>(0.006)</li> <li>-0.047</li> <li>-0.042**</li> <li>(0.019)</li> </ul>	(2) -0.032*** (0.012) -0.102 -0.067* (0.036)	(3) -0.001 (0.007) -0.003 0.002 (0.023)	without kids (4) -0.008 (0.012) -0.025 -0.029 (0.036)	(5) -0.010 (0.008) -0.031 -0.033 (0.025)	without kids (6) -0.027** (0.012) -0.084 -0.067* (0.035)
<ul> <li>(W1) Health insurance/Policy holder (LPM)</li> <li>Coefficient</li> <li>Semi-elasticity</li> <li>(W2) Health insurance/Policy holder (Probit)</li> <li>Coefficient</li> <li>Coefficient</li> <li>Marginal effect</li> <li>Semi-elasticity</li> </ul>	<ul> <li>(1)</li> <li>-0.015**</li> <li>(0.006)</li> <li>-0.047</li> <li>-0.042**</li> <li>(0.019)</li> <li>-0.015**</li> </ul>	(2) -0.032*** (0.012) -0.102 -0.067* (0.036) -0.020*	(3) -0.001 (0.007) -0.003 0.002 (0.023) 0.001	without kids (4) -0.008 (0.012) -0.025 -0.029 (0.036) -0.011	(5) -0.010 (0.008) -0.031 -0.033 (0.025) -0.010	without kids (6) -0.027** (0.012) -0.084 -0.067* (0.035) -0.019*
<ul> <li>(W1) Health insurance/Policy holder (LPM)</li> <li>Coefficient</li> <li>Semi-elasticity</li> <li>(W2) Health insurance/Policy holder (Probit)</li> <li>Coefficient</li> <li>Coefficient</li> <li>Marginal effect</li> <li>Semi-elasticity</li> </ul>	<ul> <li>(1)</li> <li>-0.015**</li> <li>(0.006)</li> <li>-0.047</li> <li>-0.042**</li> <li>(0.019)</li> <li>-0.015**</li> </ul>	(2) -0.032*** (0.012) -0.102 -0.067* (0.036) -0.020*	(3) -0.001 (0.007) -0.003 0.002 (0.023) 0.001	without kids (4) -0.008 (0.012) -0.025 -0.029 (0.036) -0.011	(5) -0.010 (0.008) -0.031 -0.033 (0.025) -0.010	without kids (6) -0.027** (0.012) -0.084 -0.067* (0.035) -0.019*
<ul> <li>(W1) Health insurance/Policy holder (LPM)</li> <li>Coefficient</li> <li>Semi-elasticity</li> <li>(W2) Health insurance/Policy holder (Probit)</li> <li>Coefficient</li> <li>Marginal effect</li> <li>Semi-elasticity</li> <li>(W3) Health insurance/Gruber &amp; Poterba measure (LPM)</li> </ul>	<ul> <li>(1)</li> <li>-0.015**</li> <li>(0.006)</li> <li>-0.047</li> <li>-0.042**</li> <li>(0.019)</li> <li>-0.015**</li> <li>-0.047</li> </ul>	(2) -0.032*** (0.012) -0.102 -0.067* (0.036) -0.020* -0.064	(3) -0.001 (0.007) -0.003 0.002 (0.023) 0.001 0.003	without kids (4) -0.008 (0.012) -0.025 -0.029 (0.036) -0.011 -0.035	(5) -0.010 (0.008) -0.031 -0.033 (0.025) -0.010 -0.031	without kids (6) -0.027** (0.012) -0.084 -0.067* (0.035) -0.019* -0.059
<ul> <li>(W2) Health insurance/Policy holder (Probit)</li> <li>Coefficient</li> <li>Marginal effect Semi-elasticity</li> <li>(W3) Health insurance/Gruber &amp; Poterba measure (LPM)</li> </ul>	<ul> <li>(1)</li> <li>-0.015**</li> <li>(0.006)</li> <li>-0.047</li> <li>-0.042**</li> <li>(0.019)</li> <li>-0.015**</li> <li>-0.047</li> <li>-0.047</li> <li>-0.020***</li> </ul>	(2) -0.032*** (0.012) -0.102 -0.067* (0.036) -0.020* -0.064 -0.036***	(3) -0.001 (0.007) -0.003 0.002 (0.023) 0.001 0.003 0.002	without kids (4) -0.008 (0.012) -0.025 -0.029 (0.036) -0.011 -0.035 -0.020*	(5) -0.010 (0.008) -0.031 -0.033 (0.025) -0.010 -0.031 -0.019**	<ul> <li>(6)</li> <li>-0.027**</li> <li>(0.012)</li> <li>-0.084</li> <li>-0.067*</li> <li>(0.035)</li> <li>-0.019*</li> <li>-0.059</li> <li>-0.029**</li> </ul>

Notes: All models include individual and family characteristics, a constant term, and state effects. For full regression results, see Appendix Tables 2a and 2b. Standard errors are in parantheses. \* Significance at 10%. \*\* Significance at 5%. \*\*\* Significance at 1%.

### Table 6: Estimates of insurance demand, men and women

Appendix Table 1a: Full set of estimation results for the adjusted difference-in-difference model, men

Variable	All men	Single men	Married men	Married men without kids	Eligible men	Eligible men without kids
	(1)	(2)	(3)	(4)	(5)	(6)
Self-employed	-0.326***	-0.260***	-0.355***	-0.375***	-0.275***	-0.260***
1 5	(0.013)	(0.025)	(0.015)	(0.023)	(0.015)	(0.021)
996	-0.002	0.006	-0.007	-0.010	0.002	0.000
	(0.004)	(0.009)	(0.005)	(0.008)	(0.004)	(0.006)
997	-0.005	0.010	-0.013**	-0.014*	0.002	0.002
	(0.004)	(0.008)	(0.005)	(0.008)	(0.004)	(0.006)
998	-0.000	0.014*	-0.007	-0.009	0.001	0.001
	(0.004)	(0.008)	(0.005)	(0.008)	(0.004)	(0.006)
1999	0.002	0.019**	-0.007	-0.013	0.007*	0.005
	(0.004)	(0.008)	(0.005)	(0.008)	(0.004)	(0.006)
2000	-0.002	0.026***	-0.014***	-0.020**	0.006	0.007
	(0.004)	(0.008)	(0.005)	(0.008)	(0.004)	(0.006)
2001	-0.015***	0.008	-0.025***	-0.031***	-0.008*	-0.008
	(0.004)	(0.008)	(0.005)	(0.007)	(0.004)	(0.006)
2002	-0.026***	-0.016**	-0.029***	-0.040***	-0.017***	-0.023***
	(0.004)	(0.008)	(0.005)	(0.007)	(0.004)	(0.006)
2003	-0.038***	-0.024***	-0.043***	-0.046***	-0.028***	-0.030***
	(0.004)	(0.008)	(0.005)	(0.008)	(0.004)	(0.006)
2004	-0.046***	-0.029***	-0.052***	-0.064***	-0.034***	-0.036***
	(0.004)	(0.008)	(0.005)	(0.008)	(0.004)	(0.006)
2005	-0.048***	-0.032***	-0.054***	-0.069***	-0.037***	-0.042***
2005	(0.004)	(0.008)	(0.005)	(0.008)	(0.004)	(0.006)
Self-emp × 1996	0.005	-0.007	0.011	0.053	-0.007	-0.003
$\sin - \sin p \times 1990$	(0.018)	(0.034)	(0.021)	(0.033)	(0.021)	(0.028)
Self-emp × 1997	-0.022	-0.038	-0.015	0.015	-0.018	-0.015
$\sin - \sin p \times 1997$						
Calf area x 1009	(0.017) -0.011	(0.033)	(0.020) -0.002	(0.031) 0.021	(0.020) -0.013	(0.027) -0.015
Self-emp × 1998		-0.028				
Calf amp x 1000	(0.017)	(0.033)	(0.020)	(0.031)	(0.020)	(0.027)
Self-emp × 1999	-0.020	-0.043	-0.008	0.034	-0.022	-0.022
C-16 × 2000	(0.017)	(0.033)	(0.020)	(0.032)	(0.020)	(0.027)
Self-emp $\times$ 2000	-0.022	-0.055*	-0.009	0.009	-0.028	-0.046*
16 ··· <b>2</b> 001	(0.017)	(0.034)	(0.020)	(0.032)	(0.021)	(0.028)
Self-emp $\times$ 2001	0.002	0.007	-0.000	0.006	-0.000	-0.013
	(0.016)	(0.032)	(0.019)	(0.031)	(0.019)	(0.027)
Self-emp $\times$ 2002	-0.011	-0.005	-0.012	0.002	-0.039**	-0.045*
16	(0.016)	(0.031)	(0.018)	(0.030)	(0.019)	(0.027)
Self-emp $\times$ 2003	0.001	-0.035	0.013	0.037	-0.022	-0.037
2004	(0.016)	(0.031)	(0.019)	(0.031)	(0.019)	(0.027)
Self-emp $\times$ 2004	-0.014	-0.043	-0.004	0.047	-0.025	-0.027
16 2005	(0.016)	(0.031)	(0.018)	(0.030)	(0.019)	(0.026)
Self-emp $\times$ 2005	-0.030*	-0.061**	-0.022	-0.005	-0.053***	-0.068***
	(0.016)	(0.031)	(0.018)	(0.030)	(0.019)	(0.026)
Age	0.012***	0.016***	0.008***	0.001	0.017***	0.013***
	(0.001)	(0.001)	(0.001)	(0.002)	(0.001)	(0.001)
Age squared/100	-0.010***	-0.013***	-0.005***	0.003*	-0.016***	-0.011***
	(0.001)	(0.002)	(0.001)	(0.002)	(0.001)	(0.001)
Black	-0.067***	-0.063***	-0.062***	-0.049***	-0.064***	-0.059***
	(0.003)	(0.005)	(0.004)	(0.007)	(0.004)	(0.005)
lispanic	-0.127***	-0.124***	-0.130***	-0.137***	-0.142***	-0.126***
	(0.003)	(0.005)	(0.003)	(0.006)	(0.003)	(0.004)

Variable	All men	Single men	Married men	Married men without kids	Eligible men	Eligible men without kids
Vallable	(1)	$\langle 2 \rangle$	(2)		(E)	
TT' 1 1 1 1	(1)	(2)	(3)	(4)	(5)	(6)
High school degree	0.165***	0.174***	0.160***	0.144***	0.179***	0.157***
	(0.003)	(0.006)	(0.004)	(0.007)	(0.004)	(0.005)
Some college degree	0.222***	0.253***	0.204***	0.175***	0.245***	0.221***
	(0.003)	(0.006)	(0.004)	(0.007)	(0.004)	(0.005)
Bachelor's degree	0.267***	0.329***	0.236***	0.195***	0.290***	0.281***
	(0.004)	(0.007)	(0.004)	(0.007)	(0.004)	(0.005)
Graduate degree	0.277***	0.343***	0.254***	0.214***	0.282***	0.275***
	(0.004)	(0.008)	(0.005)	(0.008)	(0.004)	(0.006)
Married	0.009***	-	-	-	0.104***	0.091***
	(0.002)				(0.002)	(0.003)
Adjusted family income	0.008***	0.016***	0.005***	0.005***	0.011***	0.010***
	(0.000)	(0.000)	(0.000)	(0.000)	(0.000)	(0.000)
One child	-0.000	0.005	0.001	-	0.012***	-
	(0.002)	(0.006)	(0.003)		(0.002)	
More than one child	0.017***	-0.020***	0.018***	-	0.007***	-
	(0.002)	(0.007)	(0.003)		(0.002)	
Constant	0.201***	0.002	0.275***	0.494***	0.065***	0.064**
	(0.019)	(0.032)	(0.025)	(0.036)	(0.019)	(0.025)
Joint significance (p-values)						
Year dummies	0.000	0.000	0.000	0.000	0.000	0.000
Interaction terms	0.309	0.263	0.705	0.498	0.097	0.177
Year DVs & interactions	0.000	0.000	0.000	0.000	0.000	0.000
$R^2$	0.124	0.149	0.116	0.106	0.179	0.157
Ν	377,454	108,132	269,322	95,292	307,777	160,749

Notes: Excluded categories are non-Hispanic whites, less than high school degree, no children, year 1995, and its interaction with the self-employed indicator. All models include state effects which are not reported here. Adjusted family income is in constant 2006 US\$10,000. Standard errors are in parantheses. \* Significance at 10%. \*\* Significance at 5%. \*\*\* Significance at 1%.

Appendix Table 1b: Full set of estimation results for the adjusted difference-in-difference model, women

	All women	Single women	Married women	Married women	Eligible women	Eligible women
Variable		-		without kids	-	without kids
	(1)	(2)	(3)	(4)	(5)	(6)
Self-employed	-0.302***	-0.241***	-0.322***	-0.320***	-0.323***	-0.281***
	(0.013)	(0.030)	(0.015)	(0.026)	(0.021)	(0.029)
1996	-0.001	0.009	-0.008	-0.012	0.001	-0.002
	(0.005)	(0.007)	(0.006)	(0.009)	(0.005)	(0.006)
1997	-0.005	-0.002	-0.006	-0.017*	-0.007	-0.014**
	(0.005)	(0.007)	(0.006)	(0.009)	(0.005)	(0.006)
1998	-0.010**	-0.004	-0.012*	-0.025***	-0.010**	-0.018***
	(0.005)	(0.007)	(0.006)	(0.009)	(0.005)	(0.006)
1999	-0.017***	0.006	-0.030***	-0.031***	-0.008	-0.013**
	(0.005)	(0.007)	(0.006)	(0.009)	(0.005)	(0.006)
2000	-0.011**	0.009	-0.021***	-0.027***	-0.006	-0.017***
	(0.005)	(0.007)	(0.006)	(0.010)	(0.005)	(0.006)
2001	-0.014***	-0.002	-0.022***	-0.038***	-0.010**	-0.021***
	(0.004)	(0.007)	(0.006)	(0.009)	(0.005)	(0.006)
2002	-0.023***	-0.013*	-0.029***	-0.038***	-0.022***	-0.031***
	(0.004)	(0.007)	(0.006)	(0.009)	(0.005)	(0.006)
2003	-0.027***	-0.024***	-0.027***	-0.035***	-0.032***	-0.038***
2003	(0.004)	(0.007)	(0.006)	(0.009)	(0.005)	(0.006)
2004	-0.029***	-0.023***	-0.030***	-0.042***	-0.032***	-0.039***
2001	(0.004)	(0.007)	(0.006)	(0.009)	(0.005)	(0.006)
2005	-0.039***	-0.043***	-0.035***	-0.046***	-0.044***	-0.051***
2005	(0.004)	(0.007)	(0.006)	(0.009)	(0.005)	(0.006)
Self-emp × 1996	-0.010	-0.048	0.006	-0.011	0.001	-0.028
5en-emp × 1556	(0.019)	(0.042)	(0.022)	(0.038)	(0.031)	(0.042)
Self-emp × 1997	-0.024	-0.052	-0.016	-0.010	-0.048*	-0.047
Sen-emp × 1997	(0.018)	(0.040)	(0.021)	(0.035)	(0.029)	(0.039)
Self-emp × 1998	-0.006	-0.025	0.002	0.001	-0.019	-0.029
5ch-chip × 1556	(0.018)	(0.041)	(0.020)	(0.035)	(0.029)	(0.038)
Self-emp × 1999	0.008	-0.018	0.025	0.013	0.004	0.008
3en-emp × 1999	(0.019)	(0.043)	(0.023)	(0.035)	(0.029)	(0.040)
Salf amp × 2000	-0.022	-0.053	-0.007	-0.006	-0.033	-0.034
Self-emp $\times$ 2000	(0.019)	(0.042)	(0.021)	(0.035)	(0.030)	(0.040)
Salf amp x 2001	. ,	, ,	·	· · · ·	. ,	· · · ·
Self-emp $\times$ 2001	-0.016	-0.044	-0.004	-0.020	-0.033	-0.060
Solf among 2002	(0.017) -0.014	(0.038) -0.076**	(0.019) 0.009	(0.033) 0.005	(0.027) -0.033	(0.037) -0.049
Self-emp $\times$ 2002						
S-16 × 2002	(0.017)	(0.038)	(0.019)	(0.034)	(0.027) -0.039	(0.038)
Self-emp $\times$ 2003	-0.007	-0.069*	0.018	0.005		-0.075**
S-16 × 2004	(0.018)	(0.038)	(0.020)	(0.034)	(0.027)	(0.037)
Self-emp $\times$ 2004	0.000	-0.021	0.009	-0.014	-0.006	-0.033
C 1C	(0.018)	(0.038)	(0.019)	(0.034)	(0.027)	(0.037)
Self-emp $\times$ 2005	-0.038**	-0.065*	-0.030	-0.080**	-0.046*	-0.094**
٨	(0.017)	(0.038)	(0.019)	(0.032)	(0.027)	(0.038)
Age	0.008***	0.016***	-0.000	-0.006***	0.017***	0.012***
1// 00	(0.001)	(0.001)	(0.001)	(0.002)	(0.001)	(0.001)
Age squared/100	-0.006***	-0.012***	0.001	0.007***	-0.016***	-0.010***
D1 1	(0.001)	(0.002)	(0.001)	(0.002)	(0.001)	(0.001)
Black	0.014***	-0.027***	0.066***	0.050***	-0.031***	-0.029***
	(0.003)	(0.004)	(0.005)	(0.007)	(0.003)	(0.004)
Hispanic	-0.046***	-0.084***	-0.028***	-0.058***	-0.091***	-0.092***
	(0.003)	(0.005)	(0.004)	(0.007)	(0.004)	(0.005)

	All women	Single women	Married women		Eligible women	0
Variable				without kids		without kids
	(1)	(2)	(3)	(4)	(5)	(6)
High school degree	0.153***	0.208***	0.107***	0.087***	0.198***	0.168***
	(0.004)	(0.006)	(0.005)	(0.008)	(0.005)	(0.007)
Some college degree	0.208***	0.284***	0.147***	0.132***	0.271***	0.230***
	(0.004)	(0.006)	(0.005)	(0.008)	(0.005)	(0.007)
Bachelor's degree	0.272***	0.359***	0.204***	0.185***	0.338***	0.292***
_	(0.004)	(0.006)	(0.006)	(0.009)	(0.005)	(0.007)
Graduate degree	0.334***	0.371***	0.287***	0.271***	0.364***	0.323***
C	(0.005)	(0.007)	(0.006)	(0.010)	(0.005)	(0.007)
Married	-0.179***	-	-	-	-0.002	-0.033***
	(0.002)				(0.002)	(0.003)
Adjusted family income	0.006***	0.022***	0.003***	0.001***	0.012***	0.010***
· ·	(0.000)	(0.001)	(0.000)	(0.000)	(0.000)	(0.000)
One child	-0.065***	-0.034***	-0.075***	-	-0.019***	-
	(0.003)	(0.004)	(0.003)		(0.003)	
More than one child	-0.137***	-0.098***	-0.151***	-	-0.070***	-
	(0.003)	(0.004)	(0.003)		(0.003)	
Constant	0.365***	-0.080***	0.464***	0.572***	-0.011	0.179***
	(0.020)	(0.029)	(0.029)	(0.041)	(0.022)	(0.028)
oint significance (p-values)						
Year dummies	0.000	0.000	0.000	0.000	0.000	0.000
Interaction terms	0.261	0.589	0.151	0.107	0.403	0.191
Year DVs & interactions	0.000	0.000	0.000	0.000	0.000	0.000
$R^2$	0.120	0.161	0.074	0.056	0.130	0.097
N	348,203	122,196	226,007	89,356	236,374	127,934

Notes: Excluded categories are non-Hispanic whites, less than high school degree, no children, year 1995, and its interaction with the self-employed indicator. All models include state effects which are not reported here. Adjusted family income is in constant 2006 US\$10,000. Standard errors are in parantheses. \* Significance at 10%. \*\* Significance at 5%. \*\*\* Significance at 1%.

TT 11	All men		Single men	Married men	Married men	Eligible men	Eligible men
Variable					without kids		without kid
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
Self-employed	-0.338***	-0.307***	-0.234***	-0.349***	-0.317***	-0.301***	-0.244***
	(0.003)	(0.014)	(0.027)	(0.016)	(0.028)	(0.016)	(0.023)
1996	-0.002	-0.002	0.006	-0.007	-0.006	0.001	0.000
	(0.004)	(0.004)	(0.008)	(0.005)	(0.008)	(0.004)	(0.006)
1997	-0.007	-0.007*	0.007	-0.014***	-0.014*	0.001	0.000
	(0.004)	(0.004)	(0.008)	(0.005)	(0.008)	(0.004)	(0.006)
1998	-0.001	-0.000	0.014*	-0.007	-0.007	0.000	0.001
	(0.004)	(0.004)	(0.008)	(0.005)	(0.008)	(0.004)	(0.006)
.999	0.001	0.002	0.018**	-0.007	-0.009	0.006	0.005
	(0.004)	(0.004)	(0.008)	(0.005)	(0.008)	(0.004)	(0.006)
000	-0.003	-0.002	0.024***	-0.014***	-0.018**	0.004	0.006
	(0.004)	(0.004)	(0.008)	(0.005)	(0.008)	(0.004)	(0.006)
001	-0.014***	-0.012***	0.012	-0.024***	-0.028***	-0.008**	-0.006
501	(0.004)				(0.007)		
0.0.2	· /	(0.004)	(0.008)	(0.005)		(0.004)	(0.006)
002	-0.026***	-0.023***	-0.011	-0.029***	-0.036***	-0.020***	-0.021***
202	(0.004)	(0.004)	(0.008)	(0.005)	(0.008)	(0.004)	(0.006)
003	-0.038***	-0.034***	-0.020**	-0.040***	-0.038***	-0.030***	-0.028***
	(0.004)	(0.004)	(0.008)	(0.005)	(0.008)	(0.004)	(0.006)
004	-0.047***	-0.042***	-0.024***	-0.051***	-0.054***	-0.036***	-0.032***
	(0.004)	(0.004)	(0.009)	(0.005)	(0.008)	(0.005)	(0.006)
005	-0.050***	-0.046***	-0.029***	-0.054***	-0.064***	-0.042***	-0.041***
	(0.004)	(0.004)	(0.008)	(0.005)	(0.008)	(0.004)	(0.006)
ge	0.012***	0.012***	0.016***	0.008***	0.001	0.017***	0.013***
	(0.001)	(0.001)	(0.001)	(0.001)	(0.002)	(0.001)	(0.001)
Age squared/100	-0.010***	-0.010***	-0.013***	-0.005***	0.003*	-0.016***	-0.011***
0 1 '	(0.001)	(0.001)	(0.002)	(0.001)	(0.002)	(0.001)	(0.001)
lack	-0.067***	-0.066***	-0.063***	-0.062***	-0.049***	-0.064***	-0.059***
	(0.003)	(0.003)	(0.005)	(0.004)	(0.007)	(0.004)	(0.005)
ispanic	-0.127***	-0.127***	-0.124***	-0.130***	-0.137***	-0.142***	-0.126***
ispanie	(0.003)	(0.003)	(0.005)	(0.003)	(0.006)	(0.003)	(0.004)
liah anhaal daaraa	0.165***	0.165***	0.174***	0.160***	0.144***	0.179***	0.157***
ligh school degree							
	(0.003)	(0.003)	(0.006)	(0.004)	(0.007)	(0.004)	(0.005)
Some college degree	0.222***	0.222***	0.253***	0.204***	0.175***	0.245***	0.221***
	(0.003)	(0.003)	(0.006)	(0.004)	(0.007)	(0.004)	(0.005)
Bachelor's degree	0.267***	0.267***	0.329***	0.236***	0.195***	0.290***	0.281***
	(0.004)	(0.004)	(0.007)	(0.004)	(0.007)	(0.004)	(0.005)
Fraduate degree	0.277***	0.277***	0.343***	0.254***	0.214***	0.282***	0.275***
-	(0.004)	(0.004)	(0.008)	(0.005)	(0.008)	(0.004)	(0.006)
Married	0.009***	0.009***	-	-	-	0.104***	0.091***
	(0.002)	(0.002)				(0.002)	(0.003)
djusted family income	0.008***	0.008***	0.016***	0.005***	0.005***	0.011***	0.010***
, ,	(0.000)	(0.000)	(0.000)	(0.000)	(0.000)	(0.000)	(0.000)
One child	-0.000	-0.000	0.005	0.001	_	0.012***	_
	(0.002)	(0.002)	(0.006)	(0.003)		(0.002)	
fore than one child	0.017***	0.017***	-0.020***	0.018***		0.007***	
More than one child					-		-
After-tax HI premium	(0.002)	(0.002)	(0.007)	(0.003)	0.015	(0.002)	0.04.04-
	-	-0.012**	-0.022**	-0.004	-0.015	0.002	-0.018**
		(0.005)	(0.010)	(0.006)	(0.011)	(0.006)	(0.009)
onstant	0.202***	0.207***	0.013	0.277***	0.498***	0.065***	0.071***
	(0.019)	(0.019)	(0.033)	(0.025)	(0.036)	(0.019)	(0.025)
R	<sup>2</sup> 0.124	0.124	0.149	0.116	0.106	0.179	0.157
N		377,454	108,132	269,322	95,292	307,777	160,749

Appendix Table 2a: Full set of estimation results for the linear probability model of health insurance demand, men

Notes: Excluded categories are non-Hispanic whites, less than high school degree, no children, year 1995, and its interaction with the selfemployed indicator. All models include state effects which are not reported here. Adjusted family income is in constant 2006 US\$10,000. Standard errors are in parantheses. \* Significance at 10%. \*\* Significance at 5%. \*\*\* Significance at 1%.

Appendix Table 2b: Full set of estimation results for the linear	probability model of health insurance demand, women

	All w	omen	Single women	Married women	Married women	Eligible women	Eligible women
Variable					without kids		without kids
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
Self-employed	-0.314***	-0.276***	-0.201***	-0.319***	-0.310***	-0.321***	-0.255***
	(0.004)	(0.016)	(0.032)	(0.018)	(0.032)	(0.022)	(0.031)
1996	-0.002	-0.002	0.007	-0.008	-0.013	0.001	-0.003
	(0.005)	(0.005)	(0.007)	(0.006)	(0.009)	(0.005)	(0.006)
1997	-0.006	-0.006	-0.005	-0.007	-0.018**	-0.010*	-0.016**
	(0.005)	(0.005)	(0.007)	(0.006)	(0.009)	(0.005)	(0.006)
1998	-0.010**	-0.010**	-0.004	-0.012**	-0.025***	-0.011**	-0.018***
	(0.005)	(0.005)	(0.007)	(0.006)	(0.009)	(0.005)	(0.006)
1999	-0.016***	-0.015***	0.008	-0.028***	-0.030***	-0.007	-0.011*
	(0.005)	(0.005)	(0.007)	(0.006)	(0.009)	(0.005)	(0.006)
2000	-0.012**	-0.010**	0.010	-0.021***	-0.026***	-0.006	-0.016**
	(0.005)	(0.005)	(0.007)	(0.006)	(0.009)	(0.005)	(0.007)
2001	-0.015***	-0.013***	0.002	-0.022***	-0.038***	-0.010**	-0.019***
	(0.004)	(0.004)	(0.007)	(0.006)	(0.009)	(0.005)	(0.006)
2002	-0.024***	-0.021***	-0.008	-0.028***	-0.035***	-0.021***	-0.027***
	(0.004)	(0.005)	(0.007)	(0.006)	(0.009)	(0.005)	(0.007)
2003	-0.027***	-0.023***	-0.018**	-0.026***	-0.033***	-0.031***	-0.034***
_000	(0.004)	(0.005)	(0.007)	(0.006)	(0.009)	(0.005)	(0.007)
2004	-0.029***	-0.024***	-0.014*	-0.029***	-0.040***	-0.028***	-0.032***
2001	(0.004)	(0.005)	(0.008)	(0.006)	(0.010)	(0.005)	(0.007)
2005	-0.041***	-0.037***	-0.036***	-0.037***	-0.049***	-0.042***	-0.047***
2005	(0.004)	(0.005)	(0.008)		(0.010)	(0.005)	(0.007)
٨	0.008***	0.008***	0.015***	(0.006) -0.000	-0.006***	0.017***	0.012***
Age							
Age squared/100	(0.001)	(0.001)	(0.001)	(0.001)	(0.002)	(0.001)	(0.001)
	-0.006***	-0.006***	-0.012***	0.001	0.007***	-0.016***	-0.010***
<b>D1</b> 1	(0.001)	(0.001)	(0.002)	(0.001)	(0.002)	(0.001)	(0.001)
Black	0.014***	0.014***	-0.027***	0.066***	0.050***	-0.031***	-0.029***
	(0.003)	(0.003)	(0.004)	(0.005)	(0.007)	(0.003)	(0.004)
Hispanic	-0.046***	-0.046***	-0.084***	-0.028***	-0.058***	-0.091***	-0.092***
	(0.003)	(0.003)	(0.005)	(0.004)	(0.007)	(0.004)	(0.005)
High school degree	0.153***	0.153***	0.208***	0.107***	0.087***	0.198***	0.168***
	(0.004)	(0.004)	(0.006)	(0.005)	(0.008)	(0.005)	(0.007)
Some college degree	0.208***	0.208***	0.284***	0.147***	0.132***	0.271***	0.230***
	(0.004)	(0.004)	(0.006)	(0.005)	(0.008)	(0.005)	(0.007)
Bachelor's degree	0.272***	0.272***	0.359***	0.204***	0.185***	0.338***	0.292***
	(0.004)	(0.004)	(0.006)	(0.006)	(0.009)	(0.005)	(0.007)
Graduate degree	0.334***	0.334***	0.371***	0.287***	0.271***	0.364***	0.323***
	(0.005)	(0.005)	(0.007)	(0.006)	(0.010)	(0.005)	(0.007)
Married	-0.179***	-0.179***	-	-	-	-0.002	-0.033***
	(0.002)	(0.002)				(0.002)	(0.003)
Adjusted family income	0.006***	0.006***	0.022***	0.003***	0.001***	0.012***	0.010***
	(0.000)	(0.000)	(0.001)	(0.000)	(0.000)	(0.000)	(0.000)
One child	-0.065***	-0.065***	-0.034***	-0.075***	-	-0.019***	-
	(0.003)	(0.003)	(0.004)	(0.003)		(0.003)	
More than one child	-0.137***	-0.137***	-0.098***	-0.151***	-	-0.070***	-
	(0.003)	(0.003)	(0.004)	(0.003)		(0.003)	
After-tax HI premium	-	-0.015**	-0.032***	-0.001	-0.008	-0.010	-0.027**
Premium		(0.006)	(0.012)	(0.007)	(0.012)	(0.008)	(0.012)
Constant	0.365***	0.371***	-0.065**	0.464***	0.574***	-0.006	0.191***
	(0.020)	(0.020)	(0.030)	(0.029)	(0.041)	(0.022)	(0.028)
$R^2$	. ,	0.119	0.161	0.073	0.055	0.130	0.097
Ν	348,203	348,203	122,196	226,007	89,356	236,374	127,934

Notes: Excluded categories are non-Hispanic whites, less than high school degree, no children, year 1995, and its interaction with the selfemployed indicator. All models include state effects which are not reported here. Adjusted family income is in constant 2006 US\$10,000. Standard errors are in parantheses. \* Significance at 10%. \*\* Significance at 5%. \*\*\* Significance at 1%.