

Is the Healthy Immigrant Effect Present for Older Age Groups?

by Charlie Deschênes

4648698

Major Paper presented to the  
Department of Economics of the University of Ottawa  
in partial fulfillment of the requirements of the M.A. Degree  
Supervisors: Professor Catherine Deri Armstrong  
Professor Gilles Grenier

ECO6999

Ottawa, Ontario

April 2012

**Abstract:**

The "Healthy Immigrant Effect" (HIE) is a well documented phenomenon in the literature. It presents evidence that recent immigrants have better health when they arrive than locally born residents, but that their health converges to that of the locally born over time. Most papers studying the HIE have focused on the working age population. A few papers have studied this phenomenon in older age groups, but they used one cross section of survey data in their methodology. Using a single cross section has limitations as it does not enable differentiation between changes in health with tenure in a country and structural differences in health quality among cohorts of immigrants. In this paper, I use three cycles of the Canadian Community Health Survey to create a synthetic-cohort in order to study the HIE for four health outcomes (self assessed health status, two severity levels of chronic conditions incidence, and activity limitation). The sample includes immigrants and Canadian born individuals 45 years of age and older. One important result is that there is very little evidence of HIE for older immigrants. Furthermore, unlike results from the working age literature that showed that recent immigrants consistently have better health than the locally born population, for some health outcomes and continents of origin, the 65 years of age and older recent immigrants to Canada have comparatively lower health status than otherwise identical Canadian born.

## Table of Contents

<b>Abstract:</b> .....	2
<b>Is the Healthy Immigrant Effect Present for Older Age Groups?</b> .....	4
<b>1. Introduction</b> .....	4
<b>2. Literature Review</b> .....	5
<b>3. Data</b> .....	7
<b>4. Empirical Strategy</b> .....	8
<b>5. Results</b> .....	13
<b>5.1 Descriptive Statistics</b> .....	13
<b>5.2 Healthy Immigrant Effect</b> .....	18
<b>6. Conclusion</b> .....	20
<b>References</b> .....	22
<b>Figure 1: Healthy Immigrant Effect – Poor Health</b> .....	24
<b>Figure 2: Healthy Immigrant Effect – Chronic Condition Type A</b> .....	25
<b>Figure 3: Healthy Immigrant Effect – Chronic Condition Type B</b> .....	26
<b>Figure 4: Healthy Immigrant Effect – Activity Limitation</b> .....	27
<b>Table 1a: Means of Key Variables – 45-64 years old</b> .....	28
<b>Table 1b: Means of Key Variables – 65+ years old</b> .....	29
<b>Table 2a: Pooled Cross Section Health Regression (Europe is the omitted variable)</b> .....	30
<b>Table 2b: Pooled Cross Section Health Regression (Asia is the omitted variable)</b> .....	31
<b>Annex A</b> .....	32
<b>Table A-1: Pooled Cross Section SAHS Regression for 45+</b> .....	32
<b>Table A-2: Pooled Cross Section SAHS Regression for 45-64</b> .....	35
<b>Table A-3: Pooled Cross Section SAHS Regression for 65+</b> .....	38
<b>Table A-4: Pooled Cross Section Chronic Condition Type A Regression for 45+</b> .....	41
<b>Table A-5: Pooled Cross Section Chronic Condition Type A Regression for 45-64</b> .....	44
<b>Table A-6: Pooled Cross Section Chronic Condition Type A Regression for 65+</b> .....	47
<b>Table A-7: Pooled Cross Section Chronic Condition Type B Regression for 45+</b> .....	50
<b>Table A-8: Pooled Cross Section Chronic Condition Type B Regression for 45-64</b> .....	53
<b>Table A-9: Pooled Cross Section Chronic Condition Type B Regression for 65+</b> .....	56
<b>Table A-10: Pooled Cross Section Activity Limitation Regression for 45+</b> .....	59
<b>Table A-11: Pooled Cross Section Activity Limitation Regression for 45-64</b> .....	62
<b>Table A-12: Pooled Cross Section Activity Limitation Regression for 65+</b> .....	65

## Is the Healthy Immigrant Effect Present for Older Age Groups?

### **1. Introduction**

Healthy aging has increasingly become a topic of policy discussions in Canada. With a higher percentage of the population retiring and becoming seniors<sup>1</sup>, policy makers across the country have many concerns about a growing retiree/worker ratio<sup>2</sup>, and the potential escalation in both social programs and health spending. In 2010, around 38% of provincial/territorial spending was used toward health (Canadian Institute for Health Information 2011). Population aging is a financial concern for all levels of government, making healthy aging an important subject. As people live longer, it is important to understand the determinants of healthy aging, if policy is to help contribute to a healthier elderly population and reduce the burden on the Canadian public health care system.

The share of immigrants to Canada is also increasing. In 2006, 19.8% of the population, up from 18.4% in 2001 (Statistics Canada 2005, 2007), were born abroad. The literature on the health of immigrants has identified an interesting relation: the “Healthy Immigrant Effect” (HIE). The HIE has two components: an initial gap between the health of new immigrants (which are healthier) and the health of Canadian born, and a subsequent decline in immigrants’ health over time, in which their health converges to the lower native born level. To properly identify the convergence in health with tenure in a country, a longitudinal study or pooled cross section data is required to be able to distinguish changes in health over time from cohort effects. A single cross-section does not allow to identify a decrease in health with tenure from the increased health over time of newly migrated foreign born or from emigration of the healthier immigrants away from Canada (Deri 2004). However the cohort effect can be captured by using multiple years of data in the analysis. Three key papers in the

---

<sup>1</sup> The share of the population 65 years or older is estimated to be 14.8% in 2012, and forecast to increase to 23% in 2032 (Statistics Canada 2010, CANSIM table 052-0005, medium-growth).

<sup>2</sup> In 2012 it is estimated that there are 7.7 people aged 15-64 for every 65+ in Canada, and that in 2032 there will be only 5.3 working age people for every senior (Statistics Canada 2010, CANSIM table 052-0005, medium-growth).

literature used this methodology (Deri 2004; McDonald and Kennedy 2004; Kennedy *et al.* 2006<sup>3</sup>). Others used a cross section, but their findings cannot distinguish between cohort effects and duration effects (Gee *et al.* 2004; Newbold and Filice 2006; Lanari and Bussini 2011; Kobayashi and Prus 2012). Interest in the HIE is motivated largely by the fact that health affects productivity and thus declining immigrant health alters the cost of immigration in general and immigration programs targeting workers, like the Provincial Nominees Program in particular<sup>4</sup>.

The rest of this paper is organized as follows. I start by reviewing the HIE literature in section 2. Then I describe the data in section 3 and explain the methodology and the variables in section 4. Section 5 presents the results in two subsections: subsection 5.1 describes the survey sample including weighted means and graphical overviews; and subsection 5.2 presents the regressions while linking the results to the HIE. Finally, section 6 concludes the paper.

## **2. Literature Review**

Many studies have been done across the world on HIE, observing its presence and studying the possible causes of both the initial health advantage and the eventual decline. Evidence of HIE has been reported in Canada for the working age population (Deri 2004; McDonald and Kennedy 2004). Kennedy *et al.* (2006) also report evidence of HIE for Canada, the United-States, the United-Kingdom and Australia. They also look at the different hypotheses that could cause the HIE. They use health data from the four countries and find evidence that the migrants have better average health than the rest of the population in both their host country and their country of origin, suggesting that a cause of the initial health gap could be immigrant self selection. They also provide evidence that unobserved characteristics could be driving the selection (including, for example, forward looking behaviour),

---

<sup>3</sup> They find evidence of a cohort effect while looking at the HIE of the working age populations; however the cohort effect does not account for the totality of the variation and an HIE is still observed.

<sup>4</sup> In the West, the program mainly targets economics immigrants to overcome the skill worker shortage partly caused by structural unemployment.

affecting both the higher health status and the migration decision (i.e.: the prospect of better opportunities in the future).

A few papers have considered the relative health difference between immigrant and native born for older individuals. Though not considering the HIE per se, Lanari and Bussini (2011) compare the health of immigrant and native populations in the Western and Northern countries of Europe. They focus on the population 50 years of age and older, and observe the long term effect of migration on various measures of physical and mental health. They interact the country of origin with the country of adoption, and estimate different impacts for different pairings. They report that older immigrants have relatively worse physical and mental health than the native born for some country pairings. They also look at the length of residence's effect on health outcomes, and report an increasing health gradient between immigrants and native born where relatively poor immigrant health increases with tenure. But they use only a single cross-section; therefore it is not possible to distinguish declining health following immigration from cohort effects.

Gee *et al.* (2004), Newbold and Filice (2006), and Kobayashi and Prus (2012) look at the HIE in later life using Canadian data. They find an HIE for the age group 45-64 years old, but they do not find any evidence of HIE in later life (over 65 years old). For some health outcomes, all three papers even find that immigrants have significantly lower relative health than the Canadian born. There are three important limitations to these works. First, the results cannot distinguish cohort effects as they use only a single cross-section; Gee *et al.* (2004) and Newbold and Filice (2006) use the 2000/2001 Canadian Community Health Survey (CCHS) and Kobayashi and Prus (2012) use the 2005 CCHS in their analysis. Second, they use the Public Use Microdata Files (PUMF) which do not include the country of origin of the immigrant. Country of origin has been found to be an important factor affecting health, behaviour and cultural approach to health care (Deri 2004; McDonald and Kennedy 2004; Kobayashi *et al.* 2008; Lanari and Bussini 2011) and its exclusion in Gee *et al.* (2004), Newbold and Filice (2006), and Kobayashi and Prus (2012) is a concern. Third, the studies are able to represent

tenure in Canada in only very broad categories: under 10 years, and over 10 years. There is evidence (Deri 2004) that the changes to immigrants' health start in the first few years after migration. To accurately identify the presence of an HIE, precise values for the years since migration (YSM) are necessary, which is not possible with the PUMF.

There are currently gaps in the HIE literature with respect to the methodology used when looking at older immigrants' health. Furthermore, some studies that used a more rigorous methodology (Deri 2004; McDonald and Kennedy 2004) have omitted the population 65 years and older in order to reduce the heterogeneity of their sample. Gee *et al.* (2004) look at an interesting question, but their data access limitations do not permit them to find concrete conclusions. I contribute to the literature by looking more closely into the HIE in older age groups to see if similar results as Gee *et al.* (2004), Newbold and Filice (2006), and Kobayashi and Prus (2012) can be found by doing a more rigorous analysis. More precisely, I take into account the cohort effect, the country of origin and the precise YSM, and I include as health outcomes self assessed health status (SAHS), two types of chronic conditions, and activity limitation.

### **3. Data**

As stated above, other papers examining the HIE in older age groups use only a single cross-section of the 2000/2001 or 2005 CCHS PUMF (Gee *et al.* 2004; Newbold and Filice 2006; Kobayashi and Prus 2012) and thus cannot properly distinguish tenure effects from cohort effects. The CCHS is not a longitudinal survey, but it includes multiple cross-sections between 2000 and 2010. In this paper, the first cycle of the CCHS, 2000/2001; the third cycle, 2005; and the latest cycle 2010 are pooled together to create a synthetic-cohort. The sample is restricted to the native-born and immigrant populations 45 years of age or older, and in some analyses is separated into two age groups: 45-64 and 65 and older. This age separation allows for a comparison with Gee *et al.* (2004).

The data comes from the master files of the three CCHS cycles. The survey targets the population 12 years of age and older, with the following exclusions: full-time members of the Canadian Forces; individuals living on Indian Reserves, on Crown Lands, or that are institutionalised; and residents of certain remote regions (Statistics Canada 2011). The CCHS collects information about various health outcomes, determinants of health, and health care utilization from a sample representing approximately 98% of the country's population. Only a sample of the targeted population is used in this study (68 290 people aged 45 or more, including 13 679 foreign born, with 1 258 of which who immigrated less than ten years prior to being surveyed); sample weights are included in all computations and analyses in this paper.

In addition to the CCHS, the provincial and territorial unemployment rates for 2000, 2005 and 2010 are taken from the CANSIM tables 282-0086 and 282-0100 and are used as an independent variable in the regressions.

#### 4. Empirical Strategy

My model is similar to the one of Deri (2004) who uses three cycles of the National Population Health Survey to look at the HIE with various health outcomes in Canada.

$$(1) \text{ Health} = \beta_0 + \beta_1 PI + \beta_2 X + \beta_3 YSM + \beta_4 YSM^2 + \sum_j \phi_j \text{Cohort}_j + \sum_k \delta_k \text{Cohort} \times \text{Country}_k + \sum_l \gamma_l \text{Cycle}_l + \mu$$

The sample on which the model is applied includes the Canadian born and immigrants that are 45 years of age or older and are residing in Canada. The variables  $YSM$  and  $YSM^2$  correspond to the year since migration and its square (for Canadian born  $YSM$  takes on the value 0).

I use three measures of health as dependent variables: SAHS, incidence of chronic conditions, and activity limitation. SAHS and objective measures of health are often used as health outcome indicators. But such health measures have been found to be biased by measurement errors. Crossely

and Kennedy (2002) study the large measurement error in SAHS, and Baker *et al.* (2004) also report measurement errors linked with objective measures of health. Therefore, in addition to SAHS and chronic conditions, I also consider a measure of health particularly relevant for older populations: activity limitations (also used in Deri 2004 and Gee *et al.* 2004), since healthy aging is linked with the continuation of a beneficial life without activity limitations. The incidence of chronic conditions is further separated in two categories, type A and type B, much like McDonald and Kennedy (2004) and is described below.

SAHS is used to create a poor health dichotomous variable, whereas a bad SAHS rated as “poor” or “fair” health takes the value 1, and a good rating of “excellent”, “very good” or “good” health takes the value 0. Chronic Conditions of type A are non life threatening conditions that include the incidence of: fibromyalgia, epilepsy, asthma, arthritis, back problem, high blood pressure, migraine, bronchitis, emphysema, ulcers, bowel disorder, incontinence, chronic fatigue, or chemical sensitivities. Type B chronic conditions are more serious or potentially life threatening and include the incidence of: diabetes, heart disease, cancer, stroke, or Alzheimer. The incidence of chronic conditions is also a dichotomous variable that takes the value 1 if the person has been diagnosed with at least one of the conditions, and the value 0 otherwise. The last dependant variable, activity limitation, takes the value 1 if the person needs help with at least one of the following tasks: preparing meals, shopping for necessities, housework, heavy household chores, personal care, and moving about inside the house; and it takes the value 0 otherwise. Since all the dependant health variables are dichotomous, a probit regression is used and marginal effects are reported.

It is well established that it is important to control for socioeconomic status (SES) in health regressions. However, it is also well established that SES and health are endogenous<sup>5</sup>. I follow

---

<sup>5</sup> The endogeneity between income and health was studied by Ettner (1996), and others, where she uses an instrumental variable (IV) to overcome the reverse causality. Deri (2004) also uses an IV in her analysis. Some studies looking at the health of older immigrants use income directly in their model, and do not control for endogeneity (for example: Gee *et al.* 2004; Newbold and Filice 2006; Kobayashi *et al.* 2008; Prus *et al.* 2010; Kobayashi and Prus 2012).

McDonald and Kennedy's (2004) methodology to include measures of SES, but some that are less likely to be endogenous. Permanent income (*PI*) is more representative of one's socioeconomic status, but is unfortunately unobservable. The vector *PI* includes a series of explanatory variables that are correlated with permanent income. These are dummy variables that take the value 1 respectively for each of the following characteristics: a source of household income includes dividends and interest (dividend income receipt); the dwelling is owned by a member of the household (dwelling ownership status); the person lives in a urban area; a source of household income is Old Age Security (only low income seniors receive G.I.S.); a source of household income is social assistance or welfare (only people with low income receive social assistance). One other variable is included in the vector *PI*: the provincial unemployment rate<sup>6</sup>. The vector *PI* is less likely to be endogenous than household income, since even though the vector's variables are correlated with income, they are not likely to be affected by a person's health level (i.e.: if a person has a poor health, it does not affect the unemployment rate in the province).

The variable *X* is a vector that includes other personal attributes: *male*, *age*, *age*<sup>2</sup>, *married*, *household size*, *children 12*, *education*, *worked*, *language*, *province*, and *years smoked*. The variable *male* takes on the value 1 if the person is a men; *age* and *age*<sup>2</sup> takes the exact value of the person's age, and it's square; *married* takes on the value 1 if the person is either married or in common-law union; *household size* represents the number of people in the household; *children 12* correspond to the number of children under 12 years old living in the household; *education* is a series of dummy variables which excludes the category less than high school education and include: high school diploma, some post-secondary education, post-secondary education diploma; *worked* takes on the value 1 if the person worked either during the previous week or within the last 12 months; the vector *language* includes dummy variables that determine if the person speaks English, speaks

---

<sup>6</sup> The unemployment rates are from CANSIM tables 282-0086 and 282-0100. For the Northwest Territories and Nunavut, the unemployment rate is not available for the year 2000, the year 2001 is therefore used for the Northwest Territories.

French, speaks another language in addition or in lieu of Canada's official languages, and speaks neither English nor French; *province* is the province of residence dummy (the province of Ontario is the omitted variable); the variable *year smoked* represents the number of years smoked for current daily smokers (it takes the value 0 if the person quit or never smoked).

The dummy variable *Country<sub>i</sub>* includes: North America and Oceania (excluding Canada); South, Central America and Caribbean; Europe; Africa; and Asia. Similarly to Deri (2004), I omit the variable Europe in the regression since the inclusion of both this variable and the year of arrival cohort variables would not be possible in this case; it would be linearly dependent. However I run an additional regression where I omit Asia instead of Europe since the majority of immigrants that arrived in Canada less than ten years ago were born there. This is done to better observe the difference in health between Canadian born and the immigrants that were born in the two areas where the majority of the immigrant to Canada are originating. Since Europeans were the most numerous immigrants to arrive more than 10 years earlier, a direct comparison of this group with the Canadian born is therefore useful. However, since the principal interest of this paper is what happens a few years after migration, comparing the health of Canadian born with Asian born is also a great source of information regarding recent immigrants that moved to the country less than ten years ago.

A synthetic-cohort, *Cohort<sub>j</sub>*, is created by pooling three CCHS cycles together, 2000, 2005 and 2010. By following specific cohorts over the three survey cycles, it is possible to identify what health outcome is affected by the change in the immigrants' type over time, and what variable significantly affects health. This allows the results concerning the HIE to not be biased by a structural change in the quality of the cohort that is immigrating (i.e.: the majority of the immigrant that migrated to Canada more than ten years ago were born in Europe, whereas those that migrated less than ten years ago are predominantly Asian born). The cohort effect is represented by the coefficient  $\emptyset_j$ , and is separated in different dummy variables depending on the year of arrival of the immigrant (C2005-2010, C2000-

2004, C1995-1999, C1990-1994, C1985-1989, C1980-1984, C1975-1979, and before 1974), omitting Canadian born. Each of the  $\emptyset_j$  represents how much healthier is an European (Asian when looking at the regression that excludes Asia) born from that cohort is compared to an otherwise identical Canadian born. The coefficient  $\delta_k$  represents the interaction between the cohort and the country of origin allowing observations on the evolution over time of the health profile of immigrants coming from a specific country. Each  $\delta_k$  characterizes how much healthier is an immigrant from a specific county that arrived in Canada in a specific cohort and an otherwise identical European (Asian if the regression observed is omitting Europe) than immigrated within the same cohort years.

Recall that the presence of an HIE requires two conditions: an initial gap in health between a newly migrated foreign born and the native born, where the Canadian born has a lower health status; and a comparatively greater decrease in health over time for the immigrant whose health converges towards the health status of the Canadian born. Deri's (2004) model includes those two aspects, making it a good model to look at HIE. The initial health gap between immigrants and Canadian born at the time of entry of the immigrant can be observed by looking at  $\emptyset_j$ . Looking at the significance and the sign of the coefficient  $\emptyset_j$  for the recent cohorts C2005-2010 and C2000-2004 of both regressions (excluding European born or excluding Asian born), it is possible to identify the health gap at entry between newly migrated immigrants from Europe or Asia, and Canadian born, while differentiating by origin. If the value is significantly negative, it means that the first required criteria for HIE is satisfied and that newly migrated foreign born are in comparatively better health than Canadian born. However if there is not such health gap, the coefficient will not be significant; a positive coefficient would mean that new immigrants have a comparatively lower health status, and would also refute the HIE. The second condition for HIE is observed in the coefficients  $\beta_3$  and  $\beta_4$ . If the net effect of those two coefficient is positive, meaning that the health of foreign born decreases

with the years since migration, there is evidence of HIE (conditional on a negative value for two most recent cohorts of the coefficient  $\phi_j^7$ ).

The model also includes a dummy for the cycle of the survey from which the observation was taken. The coefficient  $\gamma_t$  controls for any changes in health that happen over time as well as environmental and structural changes affecting the population (for example: a flu epidemic, a recession, or an environmental disaster).

Using model (1) excluding the dummy variable Europe, I run the full sample (45+), then I run the model again separating the 45-65 years old and the 65+ as in Gee *et al.* (2004). In addition, I run similar regressions, but I include Europe as a country of birth, and exclude Asia in its place. All regressions are probit regressions, are weighted using Statistics Canada provided survey weights, and are corrected for clustering to account for underlying factor that may not be measurable, but are similar between members of the same household. In the regression tables, robust standard errors are presented; the complete regressions are included in Annex A (tables A-1 to A-12) and the most important variables for this paper are highlighted in table 2a-b where the robust standard errors are in parenthesis.

## 5. Results

### 5.1 Descriptive Statistics

Preliminary results can give a good idea about the distribution of the sample. Table 1 separates the sample into two age groups and reports the unadjusted means for some of the key variables used in the paper, distinguishing between the CCHS cycles, and between Canadian born; recent immigrant (between 0-4 YSM); medium term immigrant (between 5-9 YSM); and long term immigrant (over 10 YSM). Table 1a presents the means of those variables for the mid-life age group (45-64 years of age),

---

<sup>7</sup> The two most recent cohorts are used as a proxy for recent immigrants, a negative coefficient meaning that the new migrants are healthier than the Canadian born.

and Table 1b does the same for the late-life age group (65 years of age and older). Note that the means that are compared in the rest of this section are based on combining all the three survey years, and that the statistical significances of the differences are computed separately using standard errors that are not reported in the tables but that can be obtained from the author.

The first important thing to note is that the 2010 cycle has a much smaller sample size than the 2000 and 2005 cycles. This smaller sample is also reproduced in the two age subsets. However, the values in Table 1a-b are weighted means and take into account the population makeup of the country. Recent immigrants that migrated less than 10 years prior to the survey are on average younger than Canadian born and younger than longer term immigrants for both age groups. For the mid-age sub-group, immigrants that arrived to the country less than 10 years earlier are on average 50.69 years of age which is statistically significantly lower than for longer term immigrants (54.04 years) and Canadian born (53.43 years). Similarly, for the older age sub-group, the Canadian born (74.04 years) and longer term immigrants (73.98 years) are on average statistically significantly older than immigrants that migrated less than 10 years earlier (71.93 years).

Middle age recent immigrants that migrated less than 10 years earlier are also most likely to be married or in a common-law union (86.9 percent) than Canadian born (75.1 percent) and longer term immigrants (80.2 percent) (all statistically significant). For the 65 year and older sub-group, there is a statistically significant difference between immigrants (65 percent) and Canadian born (60.8 percent) with respect to their marriage or common-law status; however there is no significant differences between immigrants that arrived to the country less than 10 years earlier and Canadian born or longer term immigrants.

The language spoken by an immigrant can give indications about the reason of the migration. People that speak at least some French or English are more likely to be able to work in Canada than people who do not. In the age group 45-64, recent immigrants that arrived in the country less than five years earlier (28 percent) are significantly more likely not to speak French or English than those who

migrated between five and ten years earlier (21.6 percent), and those who migrated more than ten years earlier (5.6 percent). However, for the older age group, there is no statistically significant difference between the newly arrived immigrant (55.6 percent) and those who have been in the country between five and ten years (49.3 percent). A significant difference is nevertheless observed between immigrants that migrated less than 10 years earlier (51.6 percent) and those that have been in the country for more than 10 years (12.1 percent). Furthermore there is a statistically significant difference between the number of immigrants that cannot speak neither French nor English in the 45-64 age group and the 65 years and over group. It is the case for the newly arrived immigrants (less than 5 years ago), 45-64 (28 percent) and 65+ (55.6 percent); for the medium term immigrants (between 5 and 10 YSM), 45-64 (21.6 percent) and 65+ (49.3 percent); and for the long term immigrants (more than 10 YSM), 45-64 (5.6 percent) and 65+ (12 percent).

There are also interesting differences in the socioeconomic factors of the various types of immigrants. Mid life and late life immigrants, 45-64 (61 percent) and 65+ (40.3 percent), are significantly more likely to have a post-secondary degree than Canadian born, 45-64 (57 percent) and 65+ (35.7). Immigrants (91.3 percent) are also statistically more likely to live in an urban area than Canadian born (76.5 percent). Recent immigrants (less than 10 YSM) of mid-life (3.69 people) are living in household with significantly more people than longer term immigrants (more than 10 YSM) (3.07 people), and they themselves have significantly larger household than Canadian born (2.55 people). For the population 65 and over, a similar situation occurs where the size of the household decreases with the tenure. Moreover, it is interesting to note that the new immigrants are statistically significantly different in the two age groups analysed. The 45-64 years old that immigrated less than five years earlier have on average 3.8 members in their household compared with the significantly greater 4.29 members for those over the age of 65. It is likely because many newly migrated seniors are coming to live with relatives that have families, for example moving in with their children's family. This is also represented in the number of kids 12 years old or less living in the household. For both

age groups, the number of children under 12 years of age in the household decreases with the number of YSM with the smallest number for Canadian born (0.11 kids for 45-64 and 0.02 kids for 65+).

For the mid-life immigrants, the newly migrated (less than 5 YSM) (40.4 percent) are significantly less likely to own their own home than medium term immigrants (between 5 and 10 YSM) (65.8 percent), which are in turn significantly different than long term immigrants (more than 10 YSM) (82.5 percent). However, long term immigrant are not statistically different than Canadian born (82.4 percent) with respect to home ownership. For the older age group, the immigrants who arrived less than ten years ago (67.4 percent) are significantly less likely to own their house than those who have been in the country for more than ten years (80.4 percent).

For both age groups, the origin of the immigrants has changed through time. The longer term immigrants that migrated more than ten years earlier were most likely born in Europe (45.6 percent for 45-64 years old and 65.1 percent for 65+), but the immigrant that moved to Canada less than ten years earlier are more likely to come from Asia (53.3 percent for 45-64 and 66 percent for 65+). This variation increases the need to differentiate for both the country of birth and the cohort of arrival.

With respect to the measures of health, it is not surprising to see that the older age group is on average not as healthy as the mid-life sample. For the 45-64 age group, 15.7 percent of the immigrants are in poor health compare with 13.9 percent for Canadian born<sup>8</sup>. However, significantly more Canadian born have a type A chronic condition (59.7 percent) compared with immigrants (54.9 percent). Although for the two other measures of health there is no statistical difference between the immigrants and the Canadian born. For the 65 years or older age group, there is a statistical difference between Canadian born and immigrants for all measures of health. For both the SAHS and the activity limitation, a larger percentage of immigrants are in poor health (29.1 percent in poor health and 35 percent have an activity limitation) compare with Canadian born (25.6 percent in poor health and 32.4 percent have an activity limitation). For both types of chronic conditions (not life threatening type A

---

<sup>8</sup> Statistically significantly different.

and life threatening type B), Canadian born (77.2 percent have a type A chronic condition and 37.4 percent have a type B condition) have a significantly greater incidence than foreign born (76 percent have a type A condition and 35.9 percent have a type B condition).

Preliminary results can also give an overview of the HIE dynamics. Figures 1 to 4 present the weighted unadjusted means for each health outcome by age group, 45-64 years old and 65 years and older. The age group separation will allow for comparison between older working age and senior immigrants. Figures 1 to 4 also allow differentiation between Canadian born residents and the immigrants by year of immigration to Canada for the population surveyed in 2000 and 2010<sup>9</sup>. All four figures paint a different story depending on the health outcome being portrayed.

In Figure 1, the means of the SAHS outcome “poor health” are represented. For the age group 45-64 years of age, the recent immigrants, which migrated between 1995 and 1999, have on average better self assessed health than the Canadian born for the survey cycle of 2000. However, earlier immigrants and those surveyed in 2010 have either similar or worse health than the Canadian born. Between the survey cycles 2000 and 2010, it is also possible to observe greater decrease in self assessed health for the recent immigrants, on average, than for Canadian born and longer term immigrants. Not surprisingly, the overall average health level for immigrants and Canadian born alike is lower for seniors than for the 45-64. Moreover, on average the Canadian born in the 65+ age group have better or similar self assessed health level than immigrants and the average difference in immigrant health between the two surveys cycles vary between the different years since arrival cohorts.

Figure 2 presents the means of the incidence of type A chronic conditions (which are non life threatening, and have greater incidence than those which are more serious). For the mid-life sample and the old age sample surveyed in 2000, the recent immigrants have lower incidence of type A conditions than Canadian born and longer term immigrants. On average, there is also an augmentation

---

<sup>9</sup> The year 2005 is not included in the figures to reduce the number of bars in the graph and allow for an better overview.

of the incidence of non life threatening conditions between recent immigrants surveyed in 2000 and 2010.

Figure 3 presents the means of the incidence of type B chronic conditions (which are potentially life threatening). By comparing the two age sub-groups, it is possible to see that the 65+ age group has greater type B chronic condition incidence than the mid-life group. For the younger age group, the recent immigrants surveyed in 2000 have on average lower incidence of acute chronic conditions than Canadian born, and the increase in incidence between the cycle 2000 and 2010 is greater for the recent and medium term immigrants than for the longer term immigrants and Canadian born. For the older age group surveyed in 2000, recent immigrants are on average healthier than Canadian born. Moreover, for most immigrant cohorts the incidence of acute condition increases between the 2000 and 2010 cycle.

The last graph, Figure 4, represents means of the activity limitation. For the younger sub-group in the survey cycle 2000, recent immigrants have on average lower activity limitation than Canadian born and long term immigrants. For the 65 years and older age group, there is a decreasing trend on average for activity limitation, short term immigrants have more activity limitations and it decreases with the length of stay in the country. This could be caused by emigration of immigrants that have activity limitations, as they go back in their country of origin where they have relative or friends that can take care of them.

## **5.2 Healthy Immigrant Effect**

Following the analysis of the preliminary results, it is possible to observe the final results in table 2 which presents the regression results for the main variables (the complete regression tables are included in Annex A). The regression uses model (1) with poor health, type A chronic conditions, type B chronic conditions and activity limitation as dependant variables, while separating for ages 45+, 45-64 and 65+. As mentioned earlier, the results distinguish themselves from earlier studies in that they

use data from three cycles of the CCHS, take into account the cohort effect, the survey year effect, and use independent variables correlated with income to reduce the endogeneity of income on health. Among the measures of health, YSM is significant and positive only for the incidence of life threatening chronic condition for the 45 years and older and for the 45-64 years age group, and for the presence of an activity limitation for the 45 years and older. For the two other measures of health, YSM is not significant for any age group; furthermore YSM is not significant for the 65 years and older age group for all measures of health. The main finding is therefore that, while using a robust statistical method that controls for cohort effect, year effect, SES, the endogeneity of income as well as other important factors, there is no evidence of changing health over time for senior immigrants for all health outcomes.

To observe the initial gap in health between recent immigrants and Canadian born, I look at the cohort dummies. I run each regression twice using Europe as omitted variable for regressions (a) and Asia for regressions (b). The cohort dummies show the health differential between an immigrant that migrated in the given cohort year originating from the omitted continent (Europe in (a) and Asia in (b)), and an otherwise identical Canadian born.

Looking at the two most recent cohorts of immigrants, C2005-2010 and C2000-2004, it is possible to get an idea of the nature of the initial gap in health. For the 65+, Asian born that immigrated between 2005 and 2010 have a significantly lower incidence of life threatening conditions than Canadian born, whereas those that immigrated between 2000 and 2004 have a significantly lower incidence of non life threatening conditions. However, there is no significant difference for SAHS, and the Asian born that arrived in the country between 2000 and 2010 are significantly more likely to have an activity limitation than Canadian born. European seniors that migrated between 2005 and 2010 are in significantly poorer self reported health than otherwise identical Canadian born, and they also have a significantly larger incidence of non life threatening conditions than Canadian born, but there is no significant difference for the other health outcomes. For the 45+ and 45-64 years of age,

when the coefficients are significant, they show that immigrants (European and Asian) are healthier than Canadian born, although the European born are not significantly different than Canadian born for SAHS and the incidence of not life threatening chronic conditions. Therefore, after looking at both components, there is no evidence of HIE.

Age is significant and correlated with poor health for all age groups and health outcomes, with the exception of the incidence of activity limitation in the 45+ and 65+ age groups where the age is inversely proportional with the incidence. The reduction of activity limitation with age is quite interesting; it could be caused by a few factors, including natural selection (a larger rate of mortality amongst those who have an activity limitation), or selective emigration (whereas people with activity limitations grow older, they migrate out of Canada to be closer to family and friends that can take care of them).

## **6. Conclusion**

Recent work has been done in the area of senior immigrants health and the media have been interested in HIE for quite some time. Earlier papers that look at HIE for older age groups used a limited PUMF data base, as well as a single cross section of the 2000/2001 or 2005 CCHS, which does not allow to differentiate the cohort effect and the survey year effect from the HIE, and which does not take into account the endogeneity of income on health in their analysis. This paper uses three cross-section of the CCHS to better examine if the HIE is present in each of the age groups while taking into account cohort effect, survey year effect, and using independent variable correlated with income to reduce the possible reverse causality.

The main result of this paper is that there is no evidences of HIE for the 65 years and older for each of the four health outcomes analyzed. This tells that in spite of the limitations in their statistical methodology, the results of Gee *et al.* (2004), Newbold and Filice (2006), and Kobayashi and Prus (2012) were accurate. The health gap between new immigrants and otherwise identical Canadian born

is also interesting to observe. While recently migrated senior Asian born are less likely than Canadian born to have a chronic condition, both life threatening or not, they are also more likely to have an activity limitation. Interestingly, senior European born are both more likely to have a non life threatening chronic condition and to have poor self assessed health than Canadian born, but are not significantly different than Canadian born for the two other measures of health. This is quite an interesting result since for the working age group, Deri (2004) and McDonald and Kennedy (2004) found, using a similar model as this paper, that the immigrants were initially healthier than Canadian born and that their health decreased over time. The results in this paper are different, since only Asian born have a positive health advantage with respect to chronic conditions; for the other outcomes there is either no statistical difference or the senior immigrants have a health disadvantage compared to the Canadian born. In addition to the initial health gap, there is also a significant difference between my results and the decrease in health with YSM that Deri (2004) and McDonald and Kennedy (2004) observed for the working age group, as there is no significant YSM effect on health on the senior sample. The last interesting result that is worth noting is that while age is usually significantly correlated with poor health, the activity limitation for the older group is negatively correlated with age.

These findings can help shape future public policies in addressing the initial negative health gap in senior immigrants' health by targeting health program designed at better assisting the health needs of newly migrated seniors. Future work could build on this study in using all cycles of the CCHS to increase the sample size, differentiating between males and females, as well as looking at mental health.

## References

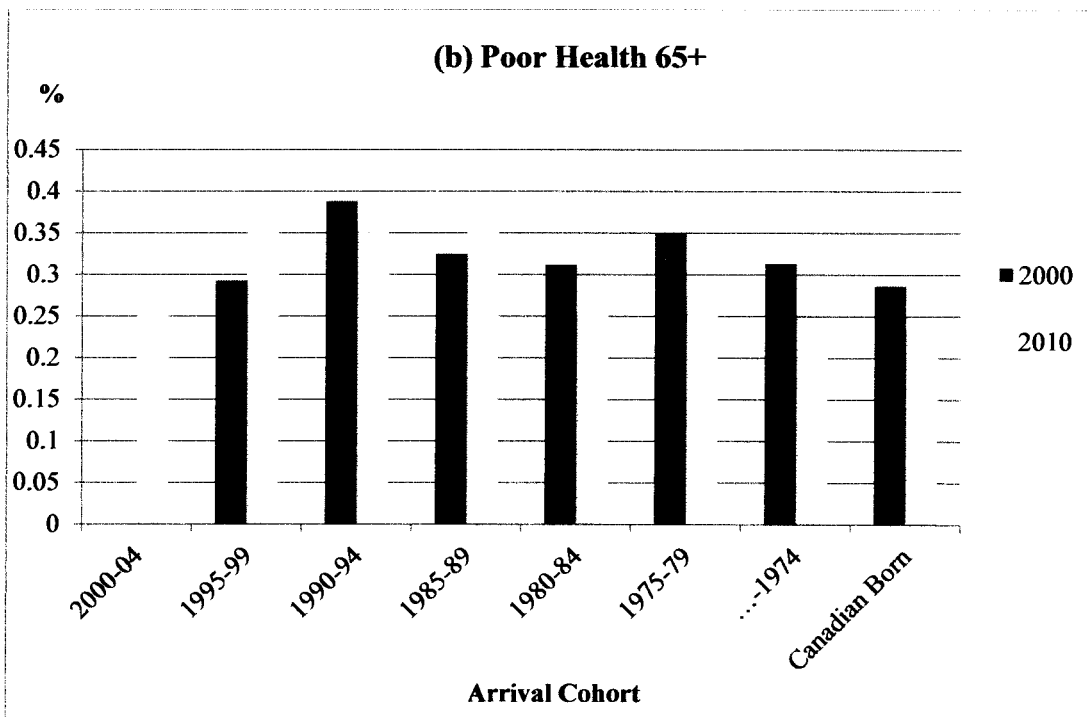
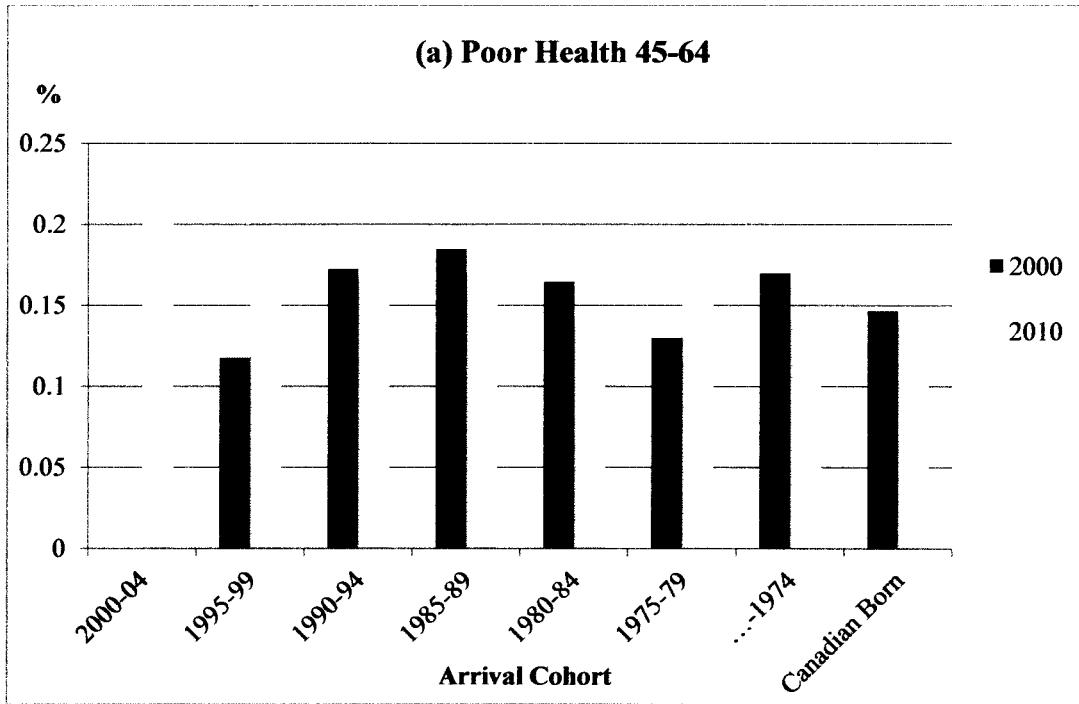
- Baker, Michael, Mark Stabile, and Catherine Deri (2004) 'What do Self-Reported, Objective, Measures of Health Measure?' *Journal of Human Resources* 39(4), 1067–1093
- Canadian Institute for Health Information (2011) 'Health spending to reach \$200 billion in 2011,' accessed on 24 January 2012 at [http://www.cihi.ca/cihi-ext-portal/internet/en/document/spending+and+health+workforce/spending/release\\_03nov11](http://www.cihi.ca/cihi-ext-portal/internet/en/document/spending+and+health+workforce/spending/release_03nov11)
- Crossely, Thomas F., and Steven Kennedy (2002) 'The reliability of self-assessed health status,' *Journal of Health Economics* 21(4), 643–658
- Deri, Catherine (2004) 'Understanding the 'Healthy Immigrant Effect' in Canada,' University of Ottawa, Department of Economics Working Paper No. 0502E
- Ettner, Susan L. (1996) 'New evidence on the relationship between income and health,' *Journal of Health Economics* 15(1), 67–85
- Gee, Ellen M., Karen M. Kobayashi, and Steven G. Prus (2004) 'Examining the Healthy Immigrant Effect in Mid- To Later Life: Findings from the Canadian Community Health Survey,' *Canadian Journal on Aging Supplement*, S55–S63
- Kennedy, Steven, James T. McDonald, and Nicholas Biddle (2006) 'The Healthy Immigrant Effect and Immigrant Selection: Evidence from Four Countries,' SEDAP Research Paper No. 164
- Kobayashi, Karen M., Steven G. Prus, and Zhiqiu Lin (2008) 'Ethnic differences in self-rated and functional health: does immigrant status matter?' *Ethnicity & Health* 13(2), 129–147
- Kobayashi, Karen M., and Steven G. Prus (2012) 'Examining the gender, ethnicity, and age dimensions of the healthy immigrant effect: Factors in the development of equitable health care policy,' *International Journal for Equity in Health* 11, (Provisional PDF)
- Lanari, Donatella, and Odoardo Bussini (2011) 'International migration and health inequalities in later life,' *Ageing & Society*, Cambridge University Press, 1–28
- McDonald, James T., and Steven Kennedy (2004) 'Insights into the 'healthy immigrant effect': health status and health service use of immigrants to Canada,' *Social Science and Medicine* 59(8), 1613–1627
- Newbold, K. Bruce, and John K. Filice (2006) 'Health Status of Older Immigrants to Canada,' *Canadian Journal on Aging* 25(3), 305–319
- Prus, Steven G., Rania Tfaily, and Zhiqiu Lin (2010) 'Comparing Racial and Immigrant Health Status and Health Care Access in Later Life in Canada and the United States,' *Canadian Journal on Aging* 29(3), 383–395
- Statistics Canada (2005) 'Proportion of foreign-born population, by census metropolitan area (1991 to 2001 Censuses),' accessed on 15 January 2012 at <http://www40.statcan.ca/l01/cst01/demo47a-eng.htm>

Statistics Canada (2007) '2006 Census Immigration and citizenship,' accessed on 15 January 2012 at <http://www12.statcan.ca/census-recensement/2006/rt-td/immcit-eng.cfm>

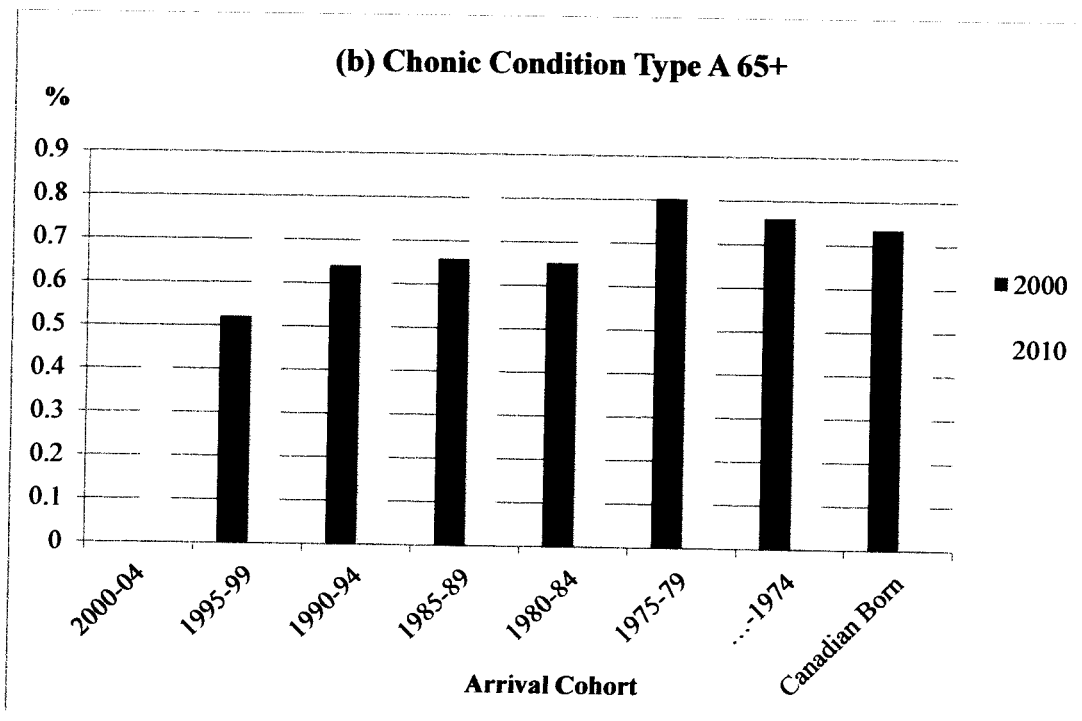
Statistics Canada (2010) 'Projected population by age group according to three projection scenarios,' accessed on 10 April 2012 at <http://www5.statcan.gc.ca/cansim/a26?lang=eng&retrLang=eng&id=0520005&paSer=&pattern=&stByVal=2&p1=-1&p2=37&tabMode=dataTable&csid=>

Statistics Canada (2011) 'Canadian Community Health Survey (CCHS) – Annual component,' accessed on 23 March 2012 at [http://www.statcan.gc.ca/imdb-bmdi/document/3226\\_D7\\_T9\\_V8-eng.htm](http://www.statcan.gc.ca/imdb-bmdi/document/3226_D7_T9_V8-eng.htm)

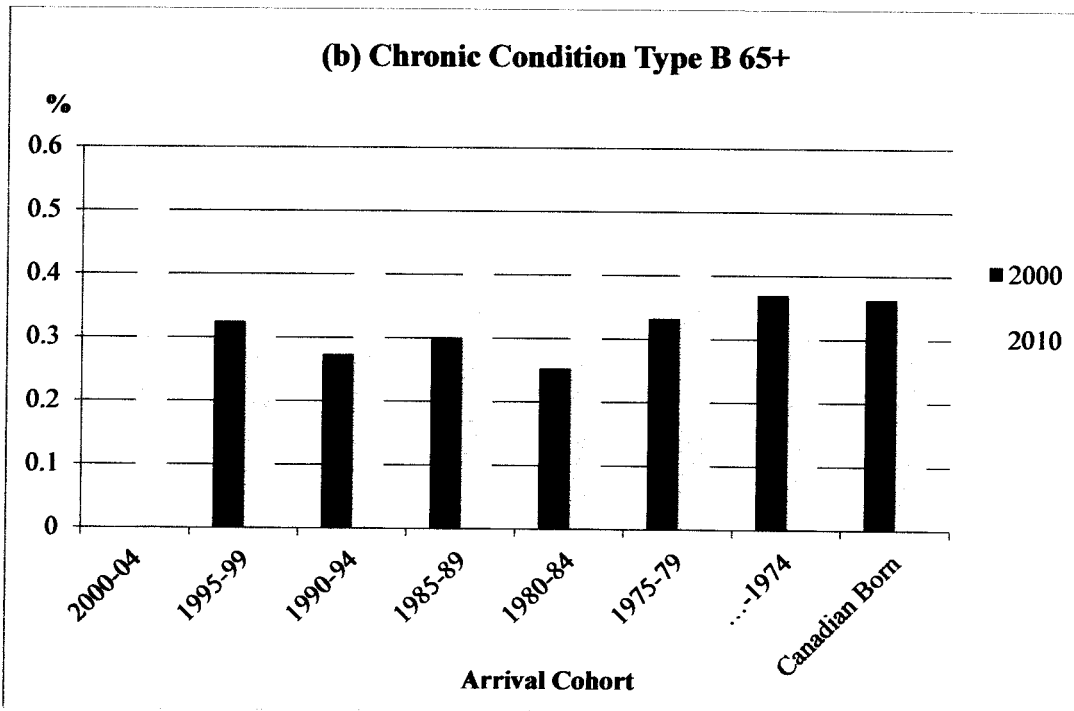
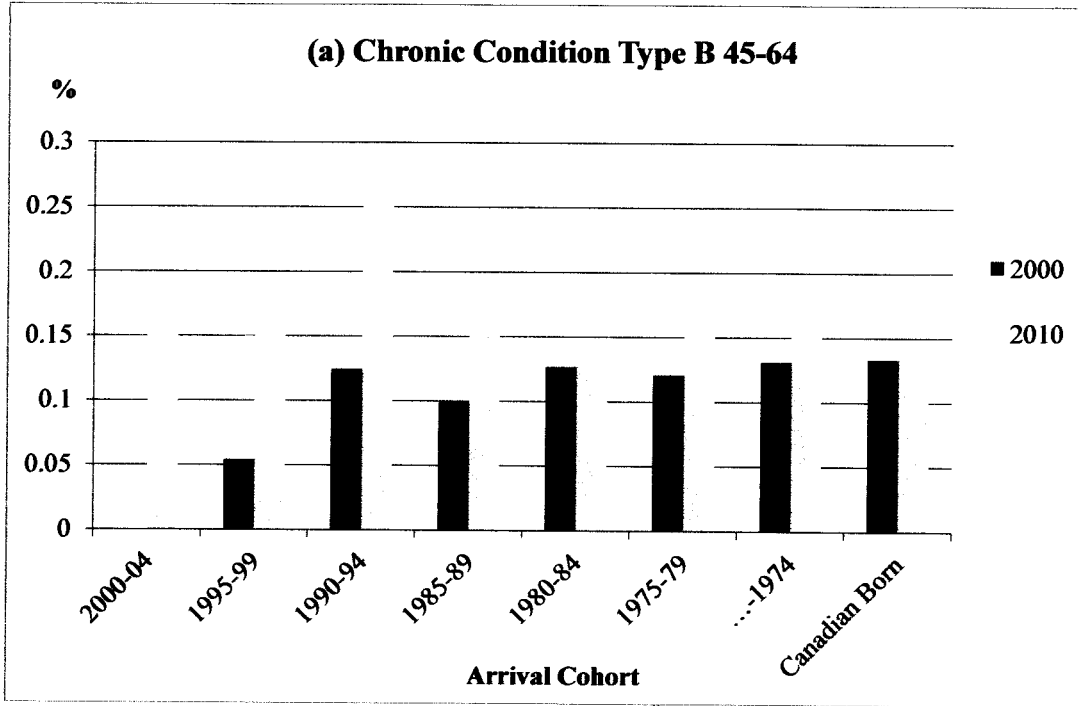
**Figure 1: Healthy Immigrant Effect – Poor Health**



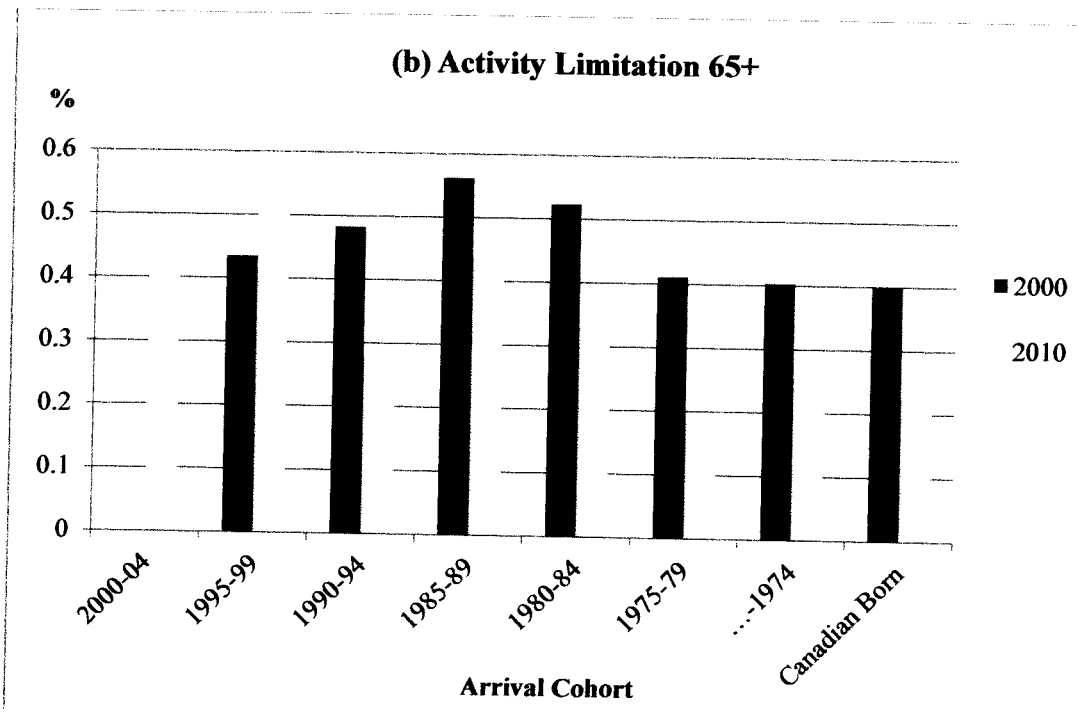
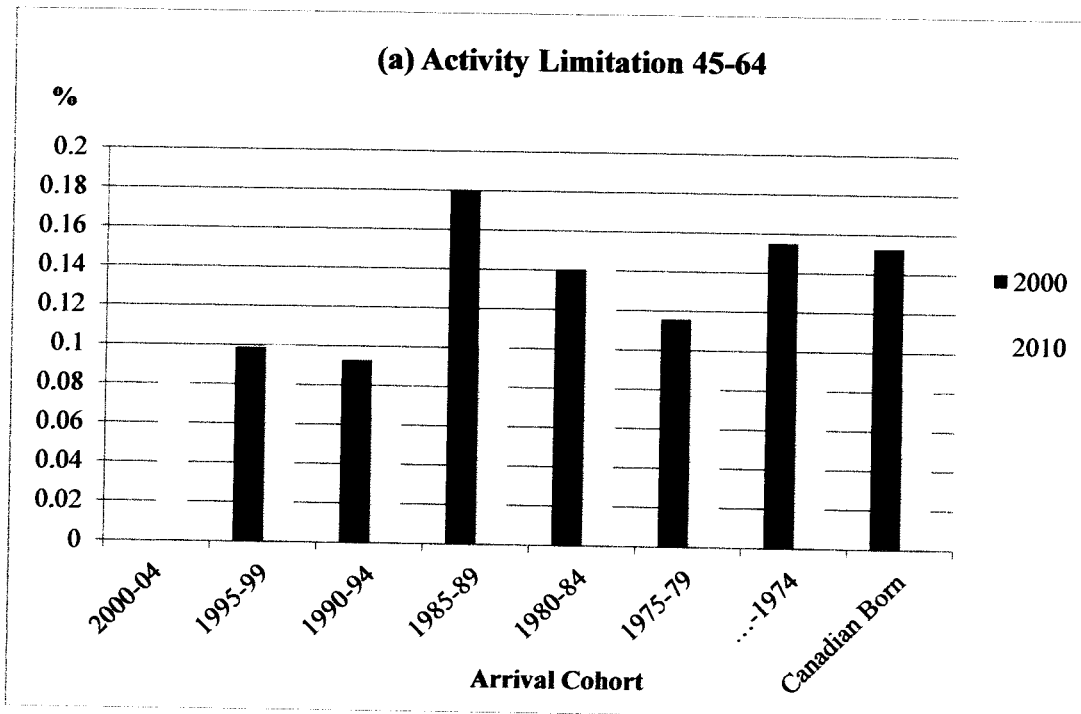
**Figure 2: Healthy Immigrant Effect – Chronic Condition Type A**



**Figure 3: Healthy Immigrant Effect – Chronic Condition Type B**



**Figure 4: Healthy Immigrant Effect – Activity Limitation**



**Table 1a: Means of Key Variables – 45-64 years old**

	Canadian Born			Immigrants 0-4 YSM			Immigrants 5-9 YSM			Immigrants 10+ YSM		
	2000	2005	2010	2000	2005	2010	2000	2005	2010	2000	2005	2010
Male	0.493	0.491	0.497	0.592	0.505	0.632	0.477	0.529	0.417	0.496	0.502	0.486
Age	52.983	53.371	53.820	50.803	50.570	52.339	50.998	49.972	50.011	53.843	54.308	53.965
Married	0.757	0.765	0.734	0.850	0.905	0.897	0.854	0.828	0.903	0.801	0.812	0.795
Speaks neither English nor French	0.005	0.001	0.001	0.332	0.208	0.303	0.352	0.132	0.173	0.072	0.039	0.058
Speaks another language	0.070	0.072	0.078	0.905	0.908	0.786	0.864	0.952	0.934	0.669	0.670	0.741
No high school	0.251	0.167	0.133	0.145	0.112	0.125	0.226	0.088	0.067	0.207	0.140	0.109
PSE degree	0.484	0.588	0.621	0.604	0.740	0.688	0.511	0.779	0.753	0.527	0.629	0.630
Urban	0.765	0.762	0.742	0.969	0.972	0.817	0.962	0.966	0.935	0.908	0.913	0.938
Household size	2.599	2.568	2.508	3.897	3.794	3.701	3.926	3.415	3.511	3.071	3.055	3.086
Number of kids under 12	0.123	0.111	0.098	0.561	0.415	0.439	0.381	0.366	0.397	0.184	0.176	0.215
Own home	0.805	0.844	0.822	0.391	0.449	0.370	0.566	0.705	0.703	0.817	0.851	0.810
Dividend income	0.209	0.260	0.227	0.183	0.200	0.231	0.160	0.155	0.031	0.184	0.238	0.168
Old Age Security income	0.062	0.069	0.063	0.018	0.023	0.016	0.024	0.019	0.013	0.079	0.077	0.075
Social Assistance income	0.060	0.044	0.051	0.062	0.154	0.093	0.058	0.045	0.034	0.039	0.029	0.053
<b>Country of Birth</b>												
Other North America & Oceania	0.000	0.000	0.000	0.062	0.072	0.148	0.057	0.034	0.044	0.060	0.061	0.057
South, Central America and Caribbean	0.000	0.000	0.000	0.090	0.076	0.105	0.096	0.029	0.110	0.108	0.076	0.124
Europe	0.000	0.000	0.000	0.164	0.080	0.098	0.214	0.153	0.213	0.558	0.441	0.390
Africa	0.000	0.000	0.000	0.071	0.034	0.080	0.022	0.027	0.195	0.041	0.022	0.057
Asia	0.000	0.000	0.000	0.613	0.409	0.570	0.611	0.549	0.437	0.231	0.215	0.371
Not Stated	0.000	0.000	0.000	0.000	0.329	0.000	0.000	0.207	0.000	0.002	0.185	0.000
<b>Measures of Health</b>												
Poor Health Chronic Condition	0.147	0.133	0.138	0.137	0.100	0.037	0.122	0.110	0.238	0.167	0.156	0.160
Type A Chronic Condition	0.570	0.607	0.609	0.368	0.400	0.493	0.350	0.448	0.493	0.547	0.592	0.560
Type B Chronic Condition	0.133	0.131	0.140	0.076	0.105	0.139	0.079	0.110	0.122	0.127	0.130	0.173
Activity Limitation	0.153	0.149	0.083	0.106	0.110	0.030	0.078	0.106	0.172	0.148	0.162	0.097
<b>N=68290</b>	31512	33403	16897	241	172	97	337	285	126	4994	5016	2411

**Table 1b: Means of Key Variables – 65+ years old**

	Canadian Born			Immigrants 0-4 YSM			Immigrants 5-9 YSM			Immigrants 10+ YSM		
	2000	2005	2010	2000	2005	2010	2000	2005	2010	2000	2005	2010
Male	0.430	0.433	0.449	0.395	0.273	0.437	0.475	0.420	0.541	0.460	0.483	0.459
Age	73.838	74.184	74.089	72.350	73.432	72.295	72.904	71.439	69.681	73.869	73.755	74.253
Married	0.590	0.606	0.623	0.694	0.429	0.594	0.657	0.643	0.758	0.643	0.663	0.645
Speaks neither English nor French	0.005	0.001	0.003	0.707	0.285	0.593	0.551	0.560	0.343	0.126	0.117	0.120
Speaks another language	0.092	0.089	0.082	0.911	0.772	0.959	0.938	0.934	0.874	0.646	0.675	0.665
No high school	0.521	0.436	0.355	0.325	0.430	0.515	0.433	0.550	0.138	0.423	0.361	0.297
PSE degree	0.274	0.362	0.420	0.464	0.522	0.460	0.298	0.363	0.683	0.312	0.424	0.452
Urban	0.784	0.785	0.758	0.961	0.990	1.000	0.985	0.984	0.930	0.906	0.903	0.887
Household size	1.847	1.828	1.850	4.288	4.456	4.164	3.699	4.152	3.491	2.208	2.274	2.206
Number of kids under 12	0.017	0.011	0.013	0.582	0.502	0.735	0.587	0.908	0.497	0.086	0.076	0.061
Own home	0.739	0.767	0.767	0.579	0.731	0.866	0.608	0.660	0.687	0.792	0.825	0.796
Dividend income	0.325	0.369	0.341	0.216	0.106	0.015	0.218	0.212	0.099	0.312	0.311	0.307
Old Age Security income	0.854	0.864	0.865	0.209	0.010	0.000	0.162	0.067	0.114	0.830	0.836	0.830
Social Assistance income	0.016	0.013	0.019	0.048	0.000	0.028	0.206	0.107	0.112	0.016	0.014	0.023
<b>Country of Birth</b>												
Other North America & Oceania	0.000	0.000	0.000	---	---	0.037	0.008	---	---	0.061	0.048	0.056
South, Central America and Caribbean	0.000	0.000	0.000	---	0.166	0.000	0.029	---	0.133	0.054	0.048	0.080
Europe	0.000	0.000	0.000	0.368	0.178	0.232	0.157	0.068	0.194	0.733	0.625	0.607
Africa	0.000	0.000	0.000	---	---	0.000	0.021	---	---	0.018	0.009	0.032
Asia	0.000	0.000	0.000	0.534	0.476	0.731	0.785	0.655	0.609	0.133	0.147	0.225
Not Stated	0.000	0.000	0.000	0.000	0.136	0.000	0.000	0.227	0	0.001	0.123	0.000
<b>Measures of Health</b>												
Poor Health	0.286	0.251	0.234	0.282	0.176	0.552	0.411	0.325	0.318	0.317	0.285	0.267
Chronic Condition Type A	0.736	0.790	0.787	0.564	0.431	0.713	0.603	0.557	0.483	0.752	0.776	0.779
Chronic Condition Type B	0.364	0.361	0.394	0.307	0.207	0.072	0.310	0.290	0.518	0.357	0.343	0.382
Activity Limitation	0.399	0.368	0.224	0.478	0.632	0.526	0.503	0.231	0.360	0.416	0.357	0.280
<b>N=68290</b>	19614	22427	12468	38	28	15	108	59	27	4278	4835	2823

**Table 2a: Pooled Cross Section Health Regression (Europe is the omitted variable)**

	45+				45-64				65+			
	Poor Health	Chronic Condition Type A	Chronic Condition Type B	Activity Limitation	Poor Health	Chronic Condition Type A	Chronic Condition Type B	Activity Limitation	Poor Health	Chronic Condition Type A	Chronic Condition Type B	Activity Limitation
YSM	0.002 (0.0021)	0.000 (0.0029)	0.006** (0.0023)	0.004** (0.0018)	0.005 (0.0034)	0.003 (0.0052)	0.009** (0.0034)	0.005* (0.0029)	-0.001 (0.0036)	0.000 (0.0036)	0.002 (0.0040)	0.001 (0.0038)
YSM2	0.000 (0.00002)	0.000 (0.00003)	-0.00004** (0.00002)	-0.00005** (0.00002)	0.000 (0.00004)	0.000 (0.00006)	-0.00009** (0.00004)	-0.00006* (0.00003)	0.000 (0.00003)	0.000 (0.00003)	0.000 (0.00004)	0.000 (0.00003)
Age	-0.002 (0.0017)	0.020** (0.0024)	0.027** (0.0019)	-0.0297** (0.0016)	0.031** (0.0081)	0.043** (0.0125)	0.035** (0.0077)	0.020** (0.0064)	0.025** (0.0086)	0.023** (0.0081)	0.052** (0.0097)	-0.062** (0.0103)
Age2	0.00003** (0.00001)	-0.0001** (0.00002)	-0.0001** (0.00001)	0.0003** (0.00001)	-0.0003** (0.00007)	-0.0003** (0.0001)	-0.0003** (0.00007)	-0.0002** (0.00006)	-0.0001** (0.00006)	-0.0001** (0.00005)	-0.0003** (0.00006)	0.0005** (0.00007)
Male	0.026** (0.0036)	-0.079** (0.0050)	0.078** (0.0038)	-0.082** (0.0033)	0.022** (0.0042)	-0.074** (0.0067)	0.051** (0.0042)	-0.058** (0.0036)	0.036** (0.0062)	-0.082** (0.00598)	0.1296** (0.0068)	-0.127** (0.0065)
C2005-2010	0.063 (0.1083)	-0.102 (0.1495)	-0.100 (0.0598)	0.123 (0.1444)	-0.056 (0.0535)	-0.191 (0.1618)	-0.068 (0.0492)	0.121 (0.1316)	0.685** (0.0737)	0.224** (0.0028)	-0.236 (0.1399)	0.004 (0.2508)
C2000-2004	-0.013 (0.0628)	-0.122 (0.0897)	-0.080 (0.0436)	-0.074* (0.031)	-0.029 (0.0575)	-0.147 (0.1064)	-0.097** (0.0164)	-0.081** (0.0150)	0.021 (0.1465)	-0.113 (0.1593)	0.015 (0.1803)	0.116 (0.1481)
C1995-1999	0.047 (0.0593)	-0.012 (0.0634)	-0.115** (0.0211)	-0.036 (0.0391)	0.028 (0.0556)	-0.002 (0.0754)	-0.101** (0.0126)	-0.033 (0.0304)	0.008 (0.1104)	-0.241* (0.1408)	-0.060 (0.1083)	-0.108 (0.0925)
C1990-1994	-0.011 (0.0376)	-0.009 (0.0666)	-0.050 (0.0577)	-0.098** (0.0192)	-0.056 (0.0322)	-0.066 (0.0880)	-0.059 (0.0385)	-0.089** (0.0106)	0.276** (0.10499)	0.172** (0.0286)	-0.140 (0.0882)	0.043 (0.09396)
C1985-1989	0.064 (0.0513)	0.015 (0.0603)	-0.111** (0.0258)	-0.017 (0.0378)	0.011 (0.0581)	-0.018 (0.0879)	-0.102** (0.0154)	-0.039 (0.0336)	0.196* (0.1098)	-0.013 (0.1112)	-0.090 (0.1064)	0.097 (0.1115)
C1980-1084	-0.040 (0.0393)	-0.133* (0.0727)	-0.124** (0.0251)	-0.056 (0.0320)	-0.068 (0.0350)	-0.214 (0.0969)	-0.109** (0.0137)	-0.061 (0.0266)	0.100 (0.1076)	0.057 (0.0737)	-0.110 (0.0919)	0.009 (0.1038)
C1975-1979	-0.019 (0.0439)	-0.012 (0.0681)	-0.107** (0.0302)	-0.068* (0.0283)	-0.051 (0.0451)	-0.067 (0.1058)	-0.107** (0.0157)	-0.071* (0.0230)	0.092 (0.1042)	0.019 (0.0856)	-0.007 (0.1015)	0.050 (0.1067)
C-B1974	-0.042 (0.0469)	0.020 (0.0738)	-0.146** (0.0332)	-0.091** (0.0318)	-0.058 (0.0501)	-0.006 (0.1099)	-0.131** (0.0203)	-0.082* (0.0278)	0.049 (0.1042)	-0.006 (0.09997)	-0.107 (0.1026)	0.006 (0.1067)
Year 2005	0.001 (0.0033)	0.056** (0.0045)	0.002 (0.0035)	0.003 (0.0032)	0.011** (0.0039)	0.056** (0.0061)	0.004 (0.0038)	0.017** (0.0035)	-0.021** (0.0059)	0.049** (0.0055)	-0.003 (0.0067)	-0.038** (0.0064)
Year 2010	0.005 (0.0055)	0.064** (0.0076)	0.027** (0.00599)	-0.088** (0.0051)	0.016** (0.0065)	0.062** (0.0105)	0.015** (0.0066)	-0.045** (0.0058)	-0.021** (0.0096)	0.062** (0.0082)	0.051** (0.0109)	-0.198** (0.0094)
N	156763	156598	156519	156774	92794	92680	92683	92748	63960	63891	63825	63949

Notes: Robust standard errors are in parenthesis. \* symbolizes a 10% significance level. \*\* symbolizes a 5% significance level. The complete regressions are in Annex Tables A-1 to A-12, in the left column.

**Table 2b: Pooled Cross Section Health Regression (Asia is the omitted variable)**

	45+				45-64				65+			
	Poor	Chronic Condition	Chronic Condition	Activity	Poor	Chronic Condition	Chronic Condition	Activity	Poor	Chronic Condition	Chronic Condition	Activity
	Health	Type A	Type B	Limitation	Health	Type A	Type B	Limitation	Health	Type A	Type B	Limitation
YSM	0.002 (0.0021)	0.000 (0.0029)	0.006** (0.0023)	0.004** (0.0018)	0.005 (0.0034)	0.003 (0.0052)	0.009** (0.0034)	0.005* (0.0029)	-0.001 (0.0036)	0.000 (0.0036)	0.002 (0.0040)	0.001 (0.0038)
YSM2	0.000 (0.00002)	0.000 (0.00003)	-0.00004** (0.00002)	-0.00005** (0.00002)	0.000 (0.00004)	0.000 (0.00006)	-0.00009** (0.00004)	-0.00006* (0.00003)	0.000 (0.00003)	0.000 (0.00003)	0.000 (0.00004)	0.000 (0.00003)
Age	-0.002 (0.0017)	0.020** (0.0024)	0.027** (0.0019)	-0.0297** (0.0016)	0.031** (0.0081)	0.043** (0.0125)	0.035** (0.0077)	0.020** (0.0064)	0.025** (0.0086)	0.023** (0.0081)	0.052** (0.0097)	-0.062** (0.0103)
Age2	0.00003** (0.00001)	-0.0001** (0.00002)	-0.0001** (0.00001)	0.0003** (0.00001)	-0.0003** (0.00007)	-0.0003** (0.0001)	-0.0003** (0.00007)	-0.0002** (0.00006)	-0.0001** (0.00006)	-0.0001** (0.00005)	-0.0003** (0.00006)	0.0005** (0.00007)
Male	0.026** (0.0036)	-0.079** (0.0050)	0.078** (0.0038)	-0.082** (0.0033)	0.022** (0.0042)	-0.074** (0.0067)	0.051** (0.0042)	-0.058** (0.0036)	0.036** (0.0062)	-0.082** (0.00598)	0.1296** (0.0068)	-0.127** (0.0065)
C2005-2010	-0.113** (0.0266)	-0.031 (0.0809)	-0.069 (0.0537)	-0.042 (0.0491)	-0.104** (0.0101)	0.021 (0.0865)	-0.025 (0.04999)	-0.083** (0.0170)	-0.025 (0.1963)	-0.287 (0.2179)	-0.344** (0.0275)	0.506** (0.1265)
C2000-2004	-0.025 (0.0396)	-0.193** (0.0625)	0.022 (0.0520)	-0.069** (-0.0253)	-0.021 (0.0366)	-0.1395** (0.0673)	0.000 (0.0425)	-0.081** (0.0126)	-0.039 (0.0836)	-0.462** (0.1051)	0.027 (0.1561)	0.234** (0.1126)
C1995-1999	-0.020 (0.0358)	-0.175** (0.0536)	-0.037 (0.0378)	-0.062** (0.0247)	-0.040 (0.0306)	-0.204** (0.0602)	-0.040 (0.0296)	-0.062** (0.0161)	0.048 (0.0867)	-0.147 (0.1039)	-0.142* (0.0744)	0.024 (0.0828)
C1990-1994	-0.023 (0.0300)	-0.086* (0.0482)	-0.033 (0.0345)	-0.087** (0.0160)	-0.017 (0.03898)	-0.1199* (0.0698)	-0.035 (0.0355)	-0.074** (0.0142)	-0.063 (0.0525)	-0.080 (0.0671)	-0.100 (0.0614)	-0.055 (0.0592)
C1985-1989	-0.058* (0.0287)	-0.117* (0.0621)	-0.105** (0.0252)	-0.083** (0.0211)	-0.069* (0.0293)	-0.167* (0.0867)	-0.098** (0.0176)	-0.076** (0.0168)	-0.046 (0.0705)	-0.070 (0.0858)	-0.122 (0.0746)	-0.030 (0.0791)
C1980-1084	-0.020 (0.0427)	-0.062 (0.0682)	-0.083* (0.0354)	-0.059 (0.0302)	-0.031 (0.0512)	-0.079 (0.1010)	-0.089** (0.0252)	-0.060 (0.0274)	-0.040 (0.0760)	-0.167* (0.1073)	-0.064 (0.0885)	0.013 (0.0934)
C1975-1979	-0.002 (0.05099)	-0.118 (0.07897)	-0.094** (0.0346)	-0.055 (0.0355)	-0.031 (0.0562)	-0.194* (0.1078)	-0.099** (0.0212)	-0.058 (0.0313)	0.042 (0.1014)	0.038 (0.0825)	-0.063 (0.1019)	-0.045 (0.0943)
C-B1974	-0.068 (0.0409)	-0.041 (0.0754)	-0.126** (0.0364)	-0.101** (0.0304)	-0.070 (0.0450)	-0.089 (0.1127)	-0.117** (0.0259)	-0.084* (0.0275)	-0.025 (0.0960)	-0.049 (0.1034)	-0.111 (0.1028)	-0.055 (0.1014)
Year 2005	0.001 (0.0033)	0.056** (0.0045)	0.002 (0.0035)	0.003 (0.0032)	0.011** (0.0039)	0.056** (0.0061)	0.004 (0.0038)	0.017** (0.0035)	-0.021** (0.0059)	0.049** (0.0055)	-0.003 (0.0067)	-0.038** (0.0064)
Year 2010	0.005 (0.0055)	0.064** (0.0076)	0.027** (0.00599)	-0.088** (0.0051)	0.016** (0.0065)	0.062** (0.0105)	0.015** (0.0066)	-0.045** (0.0058)	-0.021** (0.0096)	0.062** (0.0082)	0.051** (0.0109)	-0.198** (0.0094)
N	156763	156598	156519	156774	92794	92680	92683	92748	63960	63887	63825	63949

Notes: Robust standard errors are in parenthesis. \* symbolizes a 10% significance level. \*\* symbolizes a 5% significance level. The complete regressions are in Annex Tables A-1 to A-12, in the right column.

## Annex A

**Table A-1: Pooled Cross Section SAHS Regression for 45+**

	Poor Health	Europe Omitted			Poor Health	Asia Omitted		
		Robust Std. Err.	z	P>z		Robust Std. Err.	z	P>z
NL	-0.001	0.031783	-0.04	0.966	-0.001	0.031783	-0.04	0.966
PEI	0.011	0.022198	0.51	0.612	0.011	0.022198	0.51	0.612
NS	0.025	0.010331	2.49	0.013	0.025	0.010331	2.49	0.013
NB	0.044	0.016725	2.82	0.005	0.044	0.016725	2.82	0.005
QC	-0.032	0.010124	-3.05	0.002	-0.032	0.010124	-3.05	0.002
MB	0.000	0.009427	-0.01	0.993	0.000	0.009427	-0.01	0.993
SK	0.003	0.007849	0.44	0.658	0.003	0.007849	0.44	0.658
AB	-0.007	0.00782	-0.84	0.403	-0.007	0.00782	-0.84	0.403
BC	-0.006	0.005273	-1.19	0.234	-0.006	0.005273	-1.19	0.234
YK	0.008	0.021814	0.35	0.725	0.008	0.021814	0.35	0.725
NWT	0.018	0.021792	0.85	0.395	0.018	0.021792	0.85	0.395
Nu	-0.037	0.033666	-1	0.319	-0.037	0.033666	-1	0.319
Urban	-0.010	0.00402	-2.4	0.016	-0.010	0.00402	-2.4	0.016
Age	-0.002	0.001721	-1.17	0.243	-0.002	0.001721	-1.17	0.243
Age2	0.000	1.26E-05	2.18	0.029	0.000	1.26E-05	2.18	0.029
Male	0.026	0.003564	7.39	0	0.026	0.003564	7.39	0
Married	-0.012	0.004555	-2.56	0.01	-0.012	0.004555	-2.56	0.01
Marital status Not Stated	-0.012	0.04243	-0.27	0.785	-0.012	0.04243	-0.27	0.785
C2005-2010	0.063	0.108338	0.64	0.524	-0.113	0.026552	-2.41	0.016
C2000-2004	-0.013	0.06276	-0.2	0.845	-0.025	0.039639	-0.59	0.557
C1995-1999	0.047	0.059332	0.86	0.392	-0.020	0.03584	-0.53	0.598
C1990-1994	-0.011	0.037583	-0.28	0.78	-0.023	0.030005	-0.72	0.472
C1985-1989	0.064	0.051348	1.37	0.169	-0.058	0.028727	-1.71	0.087
C1980-1084	-0.040	0.039304	-0.92	0.358	-0.020	0.042728	-0.44	0.659
C1975-1979	-0.019	0.043938	-0.41	0.679	-0.002	0.050991	-0.05	0.963
C-B1974	-0.042	0.046858	-0.84	0.402	-0.068	0.040861	-1.45	0.146
South America X C2005-2010	-0.150	0.00879	-2.54	0.011	-0.104	0.06041	-1.07	0.285
Europe/Asia X C2005-2010	-0.130	0.027227	-2.02	0.043	0.320	0.187976	2.02	0.043
North America Oceania X C2000-2004	-0.069	0.060862	-0.9	0.369	-0.060	0.055823	-0.89	0.375
South America X C2000-2004	-0.128	0.030545	-1.85	0.064	-0.124	0.030913	-1.91	0.056
Africa X C2000-2004	0.252	0.258829	1.17	0.241	0.274	0.249541	1.32	0.188
Europe/Asia X C2000-2004	-0.013	0.074629	-0.17	0.868	0.014	0.083477	0.17	0.868
Not Stated X C2000-2004	-0.012	0.104692	-0.11	0.909	0.001	0.099397	0.01	0.996
North America Oceania X C1995-1999	-0.109	0.033297	-1.93	0.053	-0.077	0.046843	-1.26	0.208
South America X C1995-1999	-0.098	0.039581	-1.63	0.103	-0.061	0.054175	-0.93	0.35
Africa X C1995-1999	-0.139	0.015132	-2.97	0.003	-0.125	0.024225	-2.43	0.015
Europe/Asia X C1995-1999	-0.055	0.048164	-0.98	0.328	0.072	0.082541	0.98	0.328
Not Stated X C1995-1999	-0.014	0.070322	-0.2	0.844	0.054	0.081729	0.72	0.47
North America Oceania X C1990-1994	-0.008	0.057191	-0.13	0.897	0.005	0.058405	0.09	0.926

South America X C1990-1994	0.033	0.068591	0.52	0.606	0.048	0.069648	0.75	0.451
Africa X C1990-1994	-0.023	0.074134	-0.29	0.77	-0.011	0.077674	-0.14	0.891
Europe/Asia X C1990-1994	-0.013	0.037896	-0.32	0.747	0.013	0.042283	0.32	0.747
Not Stated X C1990-1994	0.011	0.052258	0.22	0.824	0.025	0.052163	0.51	0.611
North America Oceania X C1985-1989	-0.149	0.004373	-5.68	0	-0.134	0.012951	-3.9	0
South America X C1985-1989	-0.010	0.065315	-0.15	0.882	0.141	0.096454	1.72	0.085
Africa X C1985-1989	-0.051	0.061789	-0.71	0.475	0.075	0.10253	0.82	0.41
Europe/Asia X C1985-1989	-0.093	0.019137	-3.38	0.001	0.156	0.054748	3.38	0.001
Not Stated X C1985-1989	-0.083	0.032224	-1.9	0.058	0.018	0.058121	0.33	0.742
North America Oceania X C1980-1984	-0.018	0.047481	-0.37	0.71	-0.039	0.042573	-0.82	0.411
South America X C1980-1984	-0.010	0.058674	-0.16	0.871	-0.031	0.052775	-0.54	0.587
Africa X C1980-1984	0.130	0.095399	1.6	0.11	0.098	0.089677	1.25	0.212
Europe/Asia X C1980-1984	0.025	0.044903	0.57	0.567	-0.022	0.036816	-0.57	0.567
Not Stated X C1980-1984	-0.009	0.049965	-0.17	0.862	-0.030	0.044807	-0.62	0.533
North America Oceania X C1975-1979	0.007	0.053512	0.13	0.896	-0.010	0.053261	-0.19	0.85
South America X C1975-1979	0.065	0.076911	0.94	0.348	0.044	0.076638	0.62	0.534
Africa X C1975-1979	-0.094	0.02989	-2.14	0.032	-0.102	0.028134	-2.3	0.021
Europe/Asia X C1975-1979	0.018	0.037751	0.49	0.621	-0.017	0.03259	-0.49	0.621
Not Stated X C1975-1979	0.083	0.072606	1.29	0.197	0.061	0.072938	0.92	0.356
North America Oceania X C-B1974	-0.033	0.012177	-2.49	0.013	-0.004	0.020751	-0.19	0.853
South America X C-B1974	0.014	0.023374	0.61	0.54	0.050	0.031354	1.72	0.086
Africa X C-B1974	-0.031	0.026115	-1.11	0.268	-0.002	0.033292	-0.06	0.953
Europe/Asia X C-B1974	-0.030	0.014826	-1.86	0.063	0.033	0.018943	1.86	0.063
Not Stated X C-B1974	0.001	0.017421	0.05	0.959	0.035	0.026465	1.4	0.161
YSM	0.002	0.002093	1.05	0.295	0.002	0.002093	1.05	0.295
YSM2	0.000	1.97E-05	-1.08	0.281	0.000	1.97E-05	-1.08	0.281
Speak English	-0.010	0.007436	-1.32	0.186	-0.010	0.007436	-1.32	0.186
Speak French	-0.017	0.005778	-2.92	0.004	-0.017	0.005778	-2.92	0.004
Speak another Language	0.032	0.005905	5.57	0	0.032	0.005905	5.57	0
Does not speak French nor English	-0.005	0.016235	-0.33	0.742	-0.005	0.016235	-0.33	0.742
Number of years smoked	0.001	0.000115	11.52	0	0.001	0.000115	11.52	0
High School Graduate	-0.061	0.004364	-12.57	0	-0.061	0.004364	-12.57	0
Some PSE	-0.047	0.005898	-7.12	0	-0.047	0.005898	-7.12	0
PSE Graduate	-0.077	0.004112	-18.69	0	-0.077	0.004112	-18.69	0
Education Not Stated	-0.005	0.015082	-0.35	0.73	-0.005	0.015082	-0.35	0.73
Household Size	0.003	0.002466	1.2	0.229	0.003	0.002466	1.2	0.229
Number of kids under 12	-0.011	0.006505	-1.63	0.102	-0.011	0.006505	-1.63	0.102
Own home	-0.059	0.005235	-11.94	0	-0.059	0.005235	-11.94	0
Dividend income	-0.049	0.003552	-13.14	0	-0.049	0.003552	-13.14	0
Work	-0.156	0.004828	-32.12	0	-0.156	0.004828	-32.12	0
Old Age Security income	-0.012	0.00474	-2.54	0.011	-0.012	0.00474	-2.54	0.011
Social Assistance income	0.152	0.012463	14.26	0	0.152	0.012463	14.26	0
P/T Unemployment Rate	-0.001	0.00346	-0.33	0.74	-0.001	0.00346	-0.33	0.74
Year 2005	0.001	0.003277	0.39	0.699	0.001	0.003277	0.39	0.699
Year 2010	0.005	0.005471	0.92	0.358	0.005	0.005471	0.92	0.358

	<b>Europe Omitted</b>	<b>Asia Omitted</b>
Joint Chi2-Test Country of Birth Dummies		
Prob > Chi2		
Chi2-Test C2005-2010 C2000-2004 C1995-1999 C1990-1994 C1985-1989 C1980-1984 C1975-1979 C-B1974	11.1	13.48
Prob > Chi2	0.196	0.0963
Chi2-Test Interactions terms with C2005-2010	7.35	7.35
Prob > Chi2	0.0254	0.0254
Chi2-Test Interactions terms with C2000-2004	6.98	6.98
Prob > Chi2	0.222	0.222
Chi2-Test Interactions terms with C1995-1999	12.61	12.61
Prob > Chi2	0.0274	0.0274
Chi2-Test Interactions terms with C1990-1994	0.79	0.79
Prob > Chi2	0.9777	0.9777
Chi2-Test Interactions terms with C1985-1989	36.98	36.98
Prob > Chi2	0	0
Chi2-Test Interactions terms with C1980-1984	3.69	3.69
Prob > Chi2	0.5949	0.5949
Chi2-Test Interactions terms with C1975-1979	8.35	8.35
Prob > Chi2	0.1378	0.1378
Chi2-Test Interactions terms with C-B1974	10.87	10.87
Prob > Chi2	0.054	0.054

Note: In the interaction terms, Europe/Asia means that Asia is the first part of the interaction term when Europe is omitted, and Europe is the first part of the interaction term when Asia is omitted.

**Table A-2: Pooled Cross Section SAHS Regression for 45-64**

	Europe Omitted				Asia Omitted			
	Poor Health	Robust Std. Err.	z	P>z	Poor Health	Robust Std. Err.	z	P>z
NL	-0.016	0.034375	-0.43	0.664	-0.016	0.034375	-0.43	0.664
PEI	0.000	0.025191	0	0.997	0.000	0.025191	0	0.997
NS	0.008	0.011661	0.7	0.484	0.008	0.011661	0.7	0.484
NB	0.026	0.019398	1.4	0.162	0.026	0.019398	1.4	0.162
QC	-0.033	0.011361	-2.72	0.007	-0.033	0.011361	-2.72	0.007
MB	-0.003	0.011618	-0.23	0.815	-0.003	0.011618	-0.23	0.815
SK	0.004	0.0096	0.4	0.693	0.004	0.0096	0.4	0.693
AB	-0.003	0.009362	-0.31	0.756	-0.003	0.009362	-0.31	0.756
BC	-0.007	0.006245	-1.12	0.263	-0.007	0.006245	-1.12	0.263
YK	0.018	0.023382	0.79	0.431	0.018	0.023382	0.79	0.431
NWT	0.007	0.022121	0.31	0.755	0.007	0.022121	0.31	0.755
Nu	-0.050	0.028141	-1.42	0.155	-0.050	0.028141	-1.42	0.155
Urban	-0.013	0.004834	-2.83	0.005	-0.013	0.004834	-2.83	0.005
Age	0.031	0.008137	3.83	0	0.031	0.008137	3.83	0
Age2	0.000	7.38E-05	-3.75	0	0.000	7.38E-05	-3.75	0
Male	0.022	0.004245	5.26	0	0.022	0.004245	5.26	0
Married	-0.009	0.005314	-1.72	0.085	-0.009	0.005314	-1.72	0.085
Marital status Not Stated	0.023	0.045361	0.53	0.593	0.023	0.045361	0.53	0.593
C2005-2010	-0.056	0.053466	-0.8	0.422	-0.104	0.010051	-3.69	0
C2000-2004	-0.029	0.057498	-0.45	0.65	-0.021	0.036639	-0.54	0.589
C1995-1999	0.028	0.055566	0.53	0.593	-0.040	0.03056	-1.13	0.257
C1990-1994	-0.056	0.032248	-1.36	0.173	-0.017	0.038984	-0.41	0.683
C1985-1989	0.011	0.058141	0.2	0.843	-0.069	0.029347	-1.68	0.094
C1980-1084	-0.068	0.035013	-1.39	0.165	-0.031	0.051244	-0.54	0.587
C1975-1979	-0.051	0.045117	-0.91	0.362	-0.031	0.056242	-0.49	0.624
C-B1974	-0.058	0.050114	-0.95	0.341	-0.070	0.045034	-1.21	0.224
South America X C2005-2010	-0.104	0.022106	-1.55	0.121	-0.059	0.067495	-0.66	0.512
Europe/Asia X C2005-2010	-0.086	0.036614	-1.3	0.192	0.184	0.178278	1.3	0.192
North America Oceania X C2000-2004	-0.067	0.047027	-1	0.318	-0.072	0.034501	-1.39	0.165
South America X C2000-2004	-0.116	0.002948	-3.44	0.001	-0.116	0.00268	-4.11	0
Africa X C2000-2004	0.258	0.264982	1.25	0.213	0.240	0.239309	1.29	0.199
Europe/Asia X C2000-2004	0.009	0.084171	0.11	0.909	-0.009	0.075445	-0.11	0.909
Not Stated X C2000-2004	0.025	0.116002	0.23	0.82	0.015	0.092452	0.16	0.87
North America Oceania X C1995-1999	-0.088	0.024231	-1.93	0.053	-0.054	0.043767	-0.97	0.333
South America X C1995-1999	-0.085	0.028899	-1.66	0.097	-0.047	0.051507	-0.75	0.455
Africa X C1995-1999	-0.109	0.010064	-2.77	0.006	-0.096	0.021705	-1.98	0.048
Europe/Asia X C1995-1999	-0.058	0.038259	-1.16	0.248	0.088	0.090397	1.16	0.248
Not Stated X C1995-1999	0.006	0.068696	0.09	0.932	0.097	0.092732	1.25	0.213
North America Oceania X C1990-1994	0.012	0.065229	0.19	0.852	-0.035	0.045614	-0.68	0.499
South America X C1990-1994	0.047	0.074988	0.69	0.488	-0.010	0.054908	-0.17	0.863

Africa X C1990-1994	-0.068	0.03936	-1.2	0.231	-0.089	0.024554	-1.89	0.058
Europe/Asia X C1990-1994	0.059	0.053486	1.26	0.206	-0.044	0.028945	-1.26	0.206
Not Stated X C1990-1994	0.080	0.062338	1.5	0.134	0.015	0.0457	0.35	0.726
North America Oceania X C1985-1989	-0.114	0.003529	-5.19	0	-0.104	0.009888	-3.57	0
South America X C1985-1989	0.013	0.065422	0.21	0.837	0.155	0.099512	1.95	0.052
Africa X C1985-1989	-0.058	0.044502	-0.98	0.326	0.032	0.085489	0.41	0.68
Europe/Asia X C1985-1989	-0.074	0.017555	-2.8	0.005	0.134	0.059164	2.8	0.005
Not Stated X C1985-1989	-0.079	0.025751	-1.88	0.06	-0.011	0.054625	-0.2	0.841
North America Oceania X C1980-1984	-0.029	0.0414	-0.62	0.533	-0.066	0.027073	-1.72	0.085
South America X C1980-1984	-0.010	0.060909	-0.16	0.873	-0.053	0.041246	-1.01	0.311
Africa X C1980-1984	0.180	0.11357	2	0.045	0.091	0.093364	1.16	0.248
Europe/Asia X C1980-1984	0.065	0.055617	1.33	0.184	-0.046	0.028723	-1.33	0.184
Not Stated X C1980-1984	0.004	0.050542	0.07	0.942	-0.044	0.034541	-1.06	0.291
North America Oceania X C1975-1979	0.056	0.056859	1.11	0.268	0.023	0.054489	0.45	0.651
South America X C1975-1979	0.049	0.092701	0.59	0.558	0.017	0.084068	0.21	0.832
Africa X C1975-1979	-0.081	0.026704	-1.81	0.071	-0.091	0.021683	-2.12	0.034
Europe/Asia X C1975-1979	0.029	0.040699	0.76	0.445	-0.025	0.029595	-0.76	0.445
Not Stated X C1975-1979	0.075	0.074154	1.18	0.237	0.040	0.069511	0.64	0.522
North America Oceania X C-B1974	-0.033	0.01451	-2.02	0.043	-0.017	0.021732	-0.76	0.448
South America X C-B1974	0.018	0.025378	0.76	0.45	0.040	0.032807	1.35	0.179
Africa X C-B1974	-0.065	0.018522	-2.52	0.012	-0.054	0.023278	-1.82	0.069
Europe/Asia X C-B1974	-0.018	0.016915	-0.99	0.322	0.020	0.020874	0.99	0.322
Not Stated X C-B1974	-0.003	0.02162	-0.12	0.904	0.017	0.0299	0.59	0.553
YSM	0.005	0.003411	1.36	0.174	0.005	0.003411	1.36	0.174
YSM2	0.000	4.16E-05	-1.54	0.123	0.000	4.16E-05	-1.54	0.123
Speak English	-0.005	0.008509	-0.65	0.518	-0.005	0.008509	-0.65	0.518
Speak French	-0.013	0.006657	-1.9	0.057	-0.013	0.006657	-1.9	0.057
Speak another Language	0.024	0.007358	3.32	0.001	0.024	0.007358	3.32	0.001
Does not speak French nor English	-0.015	0.019016	-0.75	0.455	-0.015	0.019016	-0.75	0.455
Number of years smoked	0.001	0.000144	8.77	0	0.001	0.000144	8.77	0
High School Graduate	-0.051	0.005112	-8.95	0	-0.051	0.005112	-8.95	0
Some PSE	-0.040	0.006413	-5.5	0	-0.040	0.006413	-5.5	0
PSE Graduate	-0.067	0.005377	-12.7	0	-0.067	0.005377	-12.7	0
Education Not Stated	-0.031	0.015926	-1.74	0.082	-0.031	0.015926	-1.74	0.082
Household Size	-0.001	0.002398	-0.33	0.739	-0.001	0.002398	-0.33	0.739
Number of kids under 12	-0.001	0.005857	-0.2	0.843	-0.001	0.005857	-0.2	0.843
Own home	-0.064	0.007011	-10.1	0	-0.064	0.007011	-10.1	0
Dividend income	-0.042	0.004427	-8.89	0	-0.042	0.004427	-8.89	0
Work	-0.166	0.006087	-31.16	0	-0.166	0.006087	-31.16	0
Old Age Security income	0.010	0.007629	1.3	0.192	0.010	0.007629	1.3	0.192
Social Assistance income	0.129	0.012407	12.67	0	0.129	0.012407	12.67	0
P/T Unemployment Rate	0.000	0.004097	0.11	0.912	0.000	0.004097	0.11	0.912
Year 2005	0.011	0.003929	2.78	0.005	0.011	0.003929	2.78	0.005
Year 2010	0.016	0.006539	2.57	0.01	0.016	0.006539	2.57	0.01

Joint Chi2-Test Country of Birth Dummies	Europe Omitted	Asia Omitted
Prob > Chi2		
Chi2-Test C2005-2010 C2000-2004 C1995-1999 C1990-1994 C1985-1989 C1980-1984 C1975-1979 C-B1974	8.77	20.53
Prob > Chi2	0.3622	0.0085
Chi2-Test Interactions terms with C2005-2010	2.69	2.69
Prob > Chi2	0.2602	0.2602
Chi2-Test Interactions terms with C2000-2004	22.19	22.19
Prob > Chi2	0.0005	0.0005
Chi2-Test Interactions terms with C1995-1999	12.52	12.52
Prob > Chi2	0.0284	0.0284
Chi2-Test Interactions terms with C1990-1994	5.95	5.95
Prob > Chi2	0.311	0.311
Chi2-Test Interactions terms with C1985-1989	31.44	31.44
Prob > Chi2	0	0
Chi2-Test Interactions terms with C1980-1984	7.58	7.58
Prob > Chi2	0.1808	0.1808
Chi2-Test Interactions terms with C1975-1979	7.13	7.13
Prob > Chi2	0.2114	0.2114
Chi2-Test Interactions terms with C-B1974	11.85	11.85
Prob > Chi2	0.0368	0.0368

Note: In the interaction terms, Europe/Asia means that Asia is the first part of the interaction term when Europe is omitted, and Europe is the first part of the interaction term when Asia is omitted.

**Table A-3: Pooled Cross Section SAHS Regression for 65+**

	Poor Health	Europe Omitted Robust Std. Err.	z	P>z	Poor Health	Asia Omitted Robust Std. Err.	z	P>z
NL	0.063	0.056455	1.17	0.243	0.063	0.056455	1.17	0.243
PEI	0.053	0.037457	1.49	0.137	0.053	0.037457	1.49	0.137
NS	0.068	0.017182	4.15	0	0.068	0.017182	4.15	0
NB	0.097	0.026292	3.93	0	0.097	0.026292	3.93	0
QC	-0.019	0.018003	-1.02	0.306	-0.019	0.018003	-1.02	0.306
MB	-0.002	0.015007	-0.13	0.897	-0.002	0.015007	-0.13	0.897
SK	0.000	0.013335	-0.02	0.981	0.000	0.013335	-0.02	0.981
AB	-0.012	0.013342	-0.9	0.367	-0.012	0.013342	-0.9	0.367
BC	-0.002	0.008456	-0.29	0.773	-0.002	0.008456	-0.29	0.773
YK	-0.059	0.034906	-1.56	0.119	-0.059	0.034906	-1.56	0.119
NWT	0.074	0.045755	1.72	0.085	0.074	0.045755	1.72	0.085
Nu	0.089	0.090089	1.05	0.293	0.089	0.090089	1.05	0.293
Urban	0.001	0.006566	0.08	0.939	0.001	0.006566	0.08	0.939
Age	0.025	0.00862	2.9	0.004	0.025	0.00862	2.9	0.004
Age2	0.000	5.61E-05	-2.27	0.023	0.000	5.61E-05	-2.27	0.023
Male	0.036	0.006202	5.75	0	0.036	0.006202	5.75	0
Married	-0.014	0.008698	-1.58	0.115	-0.014	0.008698	-1.58	0.115
Marital status Not Stated	-0.117	0.079399	-1.19	0.236	-0.117	0.079399	-1.19	0.236
C2005-2010	0.685	0.073731	3.82	0	-0.025	0.196275	-0.12	0.901
C2000-2004	0.021	0.146548	0.15	0.883	-0.039	0.083645	-0.44	0.656
C1995-1999	0.008	0.11037	0.07	0.944	0.048	0.086748	0.57	0.567
C1990-1994	0.276	0.104987	2.81	0.005	-0.063	0.052479	-1.1	0.272
C1985-1989	0.196	0.109844	1.93	0.053	-0.046	0.070461	-0.62	0.537
C1980-1084	0.100	0.107646	0.99	0.321	-0.040	0.07602	-0.5	0.616
C1975-1979	0.092	0.104253	0.94	0.347	0.042	0.101405	0.43	0.669
C-B1974	0.049	0.104185	0.48	0.63	-0.025	0.096029	-0.26	0.795
Europe/Asia X C2005-2010	-0.249	0.005608	-2.62	0.009	0.694	0.097795	2.62	0.009
North America Oceania X C2000-2004	-0.001	0.222884	0	0.997	0.064	0.21939	0.31	0.757
South America X C2000-2004	0.079	0.281408	0.3	0.765	0.152	0.272228	0.61	0.545
Europe/Asia X C2000-2004	-0.057	0.141435	-0.38	0.707	0.065	0.183491	0.38	0.707
South America X C1995-1999	-0.026	0.203132	-0.12	0.901	-0.060	0.173868	-0.32	0.75
Africa X C1995-1999	-0.198	0.064961	-1.56	0.119	-0.210	0.049434	-1.89	0.059
Europe/Asia X C1995-1999	0.039	0.140882	0.29	0.772	-0.036	0.120004	-0.29	0.772
Not Stated X C1995-1999	-0.031	0.160111	-0.19	0.851	-0.065	0.131095	-0.45	0.652
North America Oceania X C1990-1994	-0.022	0.125651	-0.17	0.863	0.333	0.145694	2.37	0.018
South America X C1990-1994	-0.045	0.133993	-0.32	0.751	0.302	0.171089	1.86	0.062
Africa X C1990-1994	0.128	0.211896	0.65	0.514	0.491	0.170131	2.52	0.012
Europe/Asia X C1990-1994	-0.200	0.029164	-3.58	0	0.361	0.102532	3.58	0
Not Stated X C1990-1994	-0.202	0.045009	-2.2	0.028	-0.010	0.126228	-0.08	0.935
North America Oceania X C1985-1989	-0.243	0.01122	-3.19	0.001	-0.212	0.045555	-2.01	0.044

South America X C1985-1989	-0.113	0.1156	-0.8	0.425	0.093	0.187426	0.53	0.594
Africa X C1985-1989	0.295	0.229689	1.36	0.174	0.540	0.163169	2.62	0.009
Europe/Asia X C1985-1989	-0.165	0.045097	-2.43	0.015	0.257	0.11352	2.43	0.015
Not Stated X C1985-1989	-0.002	0.123094	-0.02	0.986	0.254	0.147016	1.86	0.063
North America Oceania X C1980-1984	0.059	0.133402	0.47	0.642	0.219	0.142599	1.67	0.096
South America X C1980-1984	-0.038	0.114357	-0.31	0.753	0.103	0.138762	0.8	0.426
Africa X C1980-1984	-0.107	0.114599	-0.77	0.439	0.009	0.15896	0.06	0.954
Europe/Asia X C1980-1984	-0.114	0.05514	-1.68	0.093	0.150	0.096905	1.68	0.093
Not Stated X C1980-1984	-0.098	0.111585	-0.74	0.458	0.023	0.151647	0.15	0.878
North America Oceania X C1975-1979	-0.196	0.04387	-2.34	0.019	-0.179	0.055409	-1.95	0.051
South America X C1975-1979	0.099	0.109439	0.96	0.335	0.152	0.117837	1.4	0.162
Africa X C1975-1979	-0.088	0.100942	-0.76	0.447	-0.051	0.116512	-0.41	0.68
Europe/Asia X C1975-1979	-0.043	0.064501	-0.63	0.531	0.047	0.077903	0.63	0.531
Not Stated X C1975-1979	0.040	0.12676	0.33	0.745	0.090	0.138022	0.69	0.487
North America Oceania X C-B1974	-0.048	0.022124	-2.05	0.04	0.023	0.044214	0.52	0.601
South America X C-B1974	-0.013	0.048127	-0.27	0.785	0.063	0.067103	0.99	0.322
Africa X C-B1974	0.025	0.064971	0.4	0.688	0.107	0.081957	1.4	0.161
Europe/Asia X C-B1974	-0.067	0.029904	-2.05	0.04	0.077	0.039125	2.05	0.04
Not Stated X C-B1974	0.004	0.030476	0.13	0.897	0.083	0.052037	1.69	0.091
YSM	-0.001	0.00358	-0.39	0.698	-0.001	0.00358	-0.39	0.698
YSM2	0.000	3.17E-05	0.37	0.713	0.000	3.17E-05	0.37	0.713
Speak English	-0.022	0.013581	-1.63	0.102	-0.022	0.013581	-1.63	0.102
Speak French	-0.023	0.010044	-2.24	0.025	-0.023	0.010044	-2.24	0.025
Speak another Language	0.051	0.009954	5.22	0	0.051	0.009954	5.22	0
Does not speak French nor English	0.015	0.027967	0.53	0.594	0.015	0.027967	0.53	0.594
Number of years smoked	0.001	0.000172	7.62	0	0.001	0.000172	7.62	0
High School Graduate	-0.079	0.007739	-9.42	0	-0.079	0.007739	-9.42	0
Some PSE	-0.064	0.011418	-5.17	0	-0.064	0.011418	-5.17	0
PSE Graduate	-0.096	0.006449	-14.31	0	-0.096	0.006449	-14.31	0
Education Not Stated	0.036	0.028973	1.29	0.198	0.036	0.028973	1.29	0.198
Household Size	0.015	0.006903	2.2	0.028	0.015	0.006903	2.2	0.028
Number of kids under 12	-0.032	0.022903	-1.41	0.158	-0.032	0.022903	-1.41	0.158
Own home	-0.051	0.007763	-6.7	0	-0.051	0.007763	-6.7	0
Dividend income	-0.065	0.005989	-10.49	0	-0.065	0.005989	-10.49	0
Work	-0.127	0.008962	-11.87	0	-0.127	0.008962	-11.87	0
Old Age Security income	0.017	0.009768	1.67	0.095	0.017	0.009768	1.67	0.095
Social Assistance income	0.061	0.02585	2.47	0.013	0.061	0.02585	2.47	0.013
P/T Unemployment Rate	-0.008	0.005645	-1.37	0.172	-0.008	0.005645	-1.37	0.172
Year 2005	-0.021	0.005907	-3.47	0.001	-0.021	0.005907	-3.47	0.001
Year 2010	-0.021	0.009596	-2.19	0.029	-0.021	0.009596	-2.19	0.029

	<b>Europe Omitted</b>	<b>Asia Omitted</b>
Joint Chi2-Test Country of Birth Dummies		
Prob > Chi2		
Chi2-Test C2005-2010 C2000-2004 C1995-1999 C1990-1994 C1985-1989 C1980-1984 C1975-1979 C-B1974	28.61	4.25
Prob > Chi2	0.0004	0.8342
Chi2-Test Interactions terms with C2005-2010	--	--
Prob > Chi2	--	--
Chi2-Test Interactions terms with C2000-2004	0.45	0.45
Prob > Chi2	0.9289	0.9289
Chi2-Test Interactions terms with C1995-1999	3.61	3.61
Prob > Chi2	0.4618	0.4618
Chi2-Test Interactions terms with C1990-1994	21.77	21.77
Prob > Chi2	0.0006	0.0006
Chi2-Test Interactions terms with C1985-1989	19.46	19.46
Prob > Chi2	0.0016	0.0016
Chi2-Test Interactions terms with C1980-1984	4.73	4.73
Prob > Chi2	0.4497	0.4497
Chi2-Test Interactions terms with C1975-1979	8.5	8.5
Prob > Chi2	0.1309	0.1309
Chi2-Test Interactions terms with C-B1974	8.39	8.39
Prob > Chi2	0.1362	0.1362

Note: In the interaction terms, Europe/Asia means that Asia is the first part of the interaction term when Europe is omitted, and Europe is the first part of the interaction term when Asia is omitted.

**Table A-4: Pooled Cross Section Chronic Condition Type A Regression for 45+**

	CCtypeA	Europe Omitted Robust Std. Err..	z	P>z	CCtypeA	Asia Omitted Robust Std. Err.	z	P>z
NL	0.075	0.038865	1.82	0.069	0.075	0.038865	1.82	0.069
PEI	0.024	0.028947	0.82	0.414	0.024	0.028947	0.82	0.414
NS	0.054	0.013092	4	0	0.054	0.013092	4	0
NB	0.027	0.019189	1.37	0.172	0.027	0.019189	1.37	0.172
QC	-0.055	0.015225	-3.62	0	-0.055	0.015225	-3.62	0
MB	-0.062	0.013923	-4.56	0	-0.062	0.013923	-4.56	0
SK	-0.016	0.011473	-1.36	0.172	-0.016	0.011473	-1.36	0.172
AB	-0.014	0.011803	-1.22	0.222	-0.014	0.011803	-1.22	0.222
BC	-0.027	0.007915	-3.4	0.001	-0.027	0.007915	-3.4	0.001
YK	-0.022	0.024014	-0.9	0.366	-0.022	0.024014	-0.9	0.366
NWT	-0.048	0.026242	-1.87	0.061	-0.048	0.026242	-1.87	0.061
Nu	-0.036	0.050895	-0.71	0.477	-0.036	0.050895	-0.71	0.477
Urban	-0.005	0.005539	-0.91	0.364	-0.005	0.005539	-0.91	0.364
Age	0.020	0.002418	8.32	0	0.020	0.002418	8.32	0
Age2	0.000	1.81E-05	-6.29	0	0.000	1.81E-05	-6.29	0
Male	-0.079	0.005035	-15.58	0	-0.079	0.005035	-15.58	0
Married	0.012	0.00615	2.02	0.044	0.012	0.00615	2.02	0.044
Marital status Not Stated	-0.046	0.062169	-0.76	0.449	-0.046	0.062169	-0.76	0.449
C2005-2010	-0.102	0.149507	-0.7	0.483	-0.031	0.080862	-0.38	0.7
C2000-2004	-0.122	0.089734	-1.4	0.161	-0.193	0.062486	-3.14	0.002
C1995-1999	-0.012	0.063422	-0.19	0.847	-0.175	0.053569	-3.34	0.001
C1990-1994	-0.009	0.066632	-0.14	0.891	-0.086	0.048234	-1.84	0.066
C1985-1989	0.015	0.060316	0.25	0.802	-0.117	0.062076	-1.94	0.053
C1980-1084	-0.133	0.072652	-1.88	0.061	-0.062	0.06823	-0.93	0.352
C1975-1979	-0.012	0.068116	-0.17	0.862	-0.118	0.078966	-1.54	0.124
C-B1974	0.020	0.073758	0.27	0.787	-0.041	0.075381	-0.56	0.577
North America Oceania X C2005-2010	-0.421	0.174819	-1.97	0.049	-0.473	0.125757	-2.74	0.006
South America X C2005-2010	-0.045	0.23362	-0.19	0.846	-0.116	0.207055	-0.58	0.563
Africa X C2005-2010	-0.139	0.358021	-0.4	0.689	-0.212	0.331901	-0.65	0.519
Europe/Asia X C2005-2010	0.065	0.145488	0.42	0.671	-0.070	0.16815	-0.42	0.671
North America Oceania X C2000-2004	0.103	0.111847	0.84	0.401	0.155	0.086885	1.5	0.134
South America X C2000-2004	-0.239	0.1482	-1.61	0.108	-0.169	0.137267	-1.26	0.208
Africa X C2000-2004	0.202	0.102365	1.48	0.14	0.239	0.078036	2	0.045
Europe/Asia X C2000-2004	-0.068	0.104876	-0.66	0.509	0.063	0.091138	0.66	0.509
Not Stated X C2000-2004	-0.033	0.123607	-0.27	0.787	0.033	0.099688	0.32	0.748
North America Oceania X C1995-1999	-0.332	0.11636	-2.65	0.008	-0.172	0.124319	-1.42	0.157
South America X C1995-1999	-0.286	0.166212	-1.66	0.096	-0.122	0.172341	-0.73	0.465
Africa X C1995-1999	0.102	0.101781	0.92	0.359	0.213	0.067297	2.29	0.022
Europe/Asia X C1995-1999	-0.162	0.083907	-1.98	0.048	0.138	0.060488	1.98	0.048
Not Stated X C1995-1999	-0.134	0.10018	-1.37	0.17	0.026	0.08364	0.31	0.76

North America Oceania X C1990-1994	-0.166	0.112643	-1.51	0.13	-0.086	0.098132	-0.9	0.366
South America X C1990-1994	-0.026	0.103327	-0.25	0.799	0.047	0.082819	0.55	0.58
Africa X C1990-1994	-0.019	0.118689	-0.16	0.873	0.054	0.098355	0.53	0.598
Europe/Asia X C1990-1994	-0.077	0.07148	-1.1	0.271	0.071	0.061046	1.1	0.271
Not Stated X C1990-1994	-0.086	0.095826	-0.92	0.356	-0.009	0.07599	-0.12	0.908
North America Oceania X C1985-1989	-0.222	0.109164	-2.04	0.041	-0.085	0.107202	-0.81	0.416
South America X C1985-1989	-0.039	0.097248	-0.4	0.687	0.085	0.08119	0.97	0.331
Africa X C1985-1989	0.146	0.085383	1.46	0.144	0.228	0.059494	2.63	0.009
Europe/Asia X C1985-1989	-0.134	0.06532	-2.1	0.035	0.117	0.049816	2.1	0.035
Not Stated X C1985-1989	-0.077	0.088933	-0.89	0.372	0.051	0.076293	0.64	0.52
North America Oceania X C1980-1984	0.139	0.081347	1.48	0.139	0.084	0.091007	0.87	0.387
South America X C1980-1984	-0.032	0.10483	-0.31	0.759	-0.101	0.106826	-0.98	0.328
Africa X C1980-1984	0.131	0.078207	1.47	0.142	0.075	0.086381	0.82	0.413
Europe/Asia X C1980-1984	0.064	0.053698	1.13	0.259	-0.068	0.061786	-1.13	0.259
Not Stated X C1980-1984	0.182	0.052373	2.75	0.006	0.133	0.059025	1.97	0.048
North America Oceania X C1975-1979	0.079	0.055718	1.34	0.18	0.161	0.052055	2.57	0.01
South America X C1975-1979	-0.040	0.071124	-0.57	0.568	0.060	0.071721	0.8	0.425
Africa X C1975-1979	-0.030	0.099608	-0.31	0.757	0.068	0.093628	0.69	0.488
Europe/Asia X C1975-1979	-0.106	0.059607	-1.82	0.068	0.095	0.0481	1.82	0.068
Not Stated X C1975-1979	-0.054	0.072462	-0.76	0.446	0.047	0.07284	0.63	0.531
North America Oceania X C-B1974	0.000	0.024826	0.01	0.99	0.059	0.030468	1.87	0.062
South America X C-B1974	-0.019	0.030582	-0.62	0.534	0.041	0.034471	1.17	0.242
Africa X C-B1974	-0.088	0.055863	-1.63	0.103	-0.024	0.057423	-0.43	0.667
Europe/Asia X C-B1974	-0.063	0.025963	-2.48	0.013	0.059	0.02317	2.48	0.013
Not Stated X C-B1974	-0.081	0.030058	-2.78	0.005	-0.018	0.036208	-0.49	0.622
YSM	0.000	0.002938	0	0.998	0.000	0.002938	0	0.998
YSM2	0.000	2.81E-05	-0.17	0.867	0.000	2.81E-05	-0.17	0.867
Speak English	0.009	0.01007	0.86	0.391	0.009	0.01007	0.86	0.391
Speak French	-0.028	0.008347	-3.42	0.001	-0.028	0.008347	-3.42	0.001
Speak another Language	0.000	0.008504	-0.01	0.992	0.000	0.008504	-0.01	0.992
Does not speak French nor English	-0.029	0.026598	-1.12	0.264	-0.029	0.026598	-1.12	0.264
Number of years smoked	0.000	0.000163	1.23	0.218	0.000	0.000163	1.23	0.218
High School Graduate	-0.041	0.007877	-5.23	0	-0.041	0.007877	-5.23	0
Some PSE	-0.019	0.010893	-1.74	0.082	-0.019	0.010893	-1.74	0.082
PSE Graduate	-0.035	0.006124	-5.63	0	-0.035	0.006124	-5.63	0
Education Not Stated	-0.021	0.024499	-0.88	0.378	-0.021	0.024499	-0.88	0.378
Household Size	-0.008	0.003016	-2.62	0.009	-0.008	0.003016	-2.62	0.009
Number of kids under 12	-0.011	0.007952	-1.43	0.153	-0.011	0.007952	-1.43	0.153
Own home	-0.034	0.006746	-4.91	0	-0.034	0.006746	-4.91	0
Dividend income	-0.016	0.005655	-2.77	0.006	-0.016	0.005655	-2.77	0.006
Work	-0.090	0.006349	-14.11	0	-0.090	0.006349	-14.11	0
Old Age Security income	0.016	0.006836	2.28	0.023	0.016	0.006836	2.28	0.023
Social Assistance income	0.124	0.012681	8.77	0	0.124	0.012681	8.77	0
P/T Unemployment Rate	-0.009	0.004686	-1.87	0.061	-0.009	0.004686	-1.87	0.061
Year 2005	0.056	0.004533	12.16	0	0.056	0.004533	12.16	0

Year 2010	0.064	0.007574	8.31	0	0.064	0.007574	8.31	0
-----------	-------	----------	------	---	-------	----------	------	---

Joint Chi2-Test Country of Birth

Dummies

Prob > Chi2

Chi2-Test C2005-2010 C2000-2004 C1995-1999 C1990-1994 C1985-1989 C1980-1984  
C1975-1979 C-B1974

13.33	28.84
0.1009	0.0003
7.69	7.69
0.1037	0.1037
8.91	8.91
0.1126	0.1126
13.84	13.84
0.0167	0.0167
2.97	2.97
0.7052	0.7052
11.97	11.97
0.0352	0.0352
10.31	10.31
0.0669	0.0669
7.45	7.45
0.1893	0.1893
14.72	14.72
0.0116	0.0116

---

Note: In the interaction terms, Europe/Asia means that Asia is the first part of the interaction term when Europe is omitted, and Europe is the first part of the interaction term when Asia is omitted.

**Table A-5: Pooled Cross Section Chronic Condition Type A Regression for 45-64**

	CCtypeA	Europe Omitted Robust Std. Err.	z	P>z	CCtypeA	Asia Omitted Robust Std. Err.	z	P>z
NL	0.096	0.052928	1.73	0.084	0.096	0.052928	1.73	0.084
PEI	0.021	0.039553	0.53	0.595	0.021	0.039553	0.53	0.595
NS	0.060	0.018151	3.23	0.001	0.060	0.018151	3.23	0.001
NB	0.032	0.02608	1.21	0.226	0.032	0.02608	1.21	0.226
QC	-0.058	0.020375	-2.87	0.004	-0.058	0.020375	-2.87	0.004
MB	-0.078	0.018569	-4.22	0	-0.078	0.018569	-4.22	0
SK	-0.021	0.015537	-1.36	0.175	-0.021	0.015537	-1.36	0.175
AB	-0.023	0.015504	-1.48	0.139	-0.023	0.015504	-1.48	0.139
BC	-0.025	0.010618	-2.37	0.018	-0.025	0.010618	-2.37	0.018
YK	-0.029	0.029116	-1.01	0.315	-0.029	0.029116	-1.01	0.315
NWT	-0.051	0.030683	-1.66	0.096	-0.051	0.030683	-1.66	0.096
Nu	-0.042	0.061323	-0.7	0.485	-0.042	0.061323	-0.7	0.485
Urban	-0.006	0.00738	-0.87	0.382	-0.006	0.00738	-0.87	0.382
Age	0.043	0.01249	3.47	0.001	0.043	0.01249	3.47	0.001
Age2	0.000	0.000114	-2.83	0.005	0.000	0.000114	-2.83	0.005
Male	-0.074	0.006738	-10.89	0	-0.074	0.006738	-10.89	0
Married	0.027	0.008588	3.17	0.002	0.027	0.008588	3.17	0.002
Marital status Not Stated	-0.031	0.069091	-0.46	0.647	-0.031	0.069091	-0.46	0.647
C2005-2010	-0.191	0.161832	-1.15	0.248	0.021	0.086543	0.24	0.81
C2000-2004	-0.147	0.106421	-1.37	0.169	-0.140	0.06725	-2.07	0.038
C1995-1999	-0.002	0.075364	-0.03	0.974	-0.204	0.06016	-3.3	0.001
C1990-1994	-0.066	0.088001	-0.75	0.452	-0.120	0.069849	-1.72	0.085
C1985-1989	-0.018	0.08793	-0.2	0.841	-0.167	0.086741	-1.9	0.057
C1980-1084	-0.214	0.096929	-2.14	0.033	-0.079	0.101046	-0.79	0.431
C1975-1979	-0.067	0.105788	-0.64	0.525	-0.194	0.107792	-1.76	0.078
C-B1974	-0.006	0.109895	-0.05	0.957	-0.089	0.112725	-0.79	0.428
North America Oceania X C2005-2010	-0.404	0.159491	-1.88	0.06	-0.514	0.068666	-3.46	0.001
South America X C2005-2010	0.044	0.241698	0.18	0.857	-0.167	0.209258	-0.79	0.43
Africa X C2005-2010	-0.070	0.371089	-0.19	0.849	-0.277	0.304407	-0.83	0.405
Europe/Asia X C2005-2010	0.188	0.140611	1.14	0.253	-0.212	0.178977	-1.14	0.253
North America Oceania X C2000-2004	0.084	0.151675	0.53	0.596	0.077	0.13277	0.56	0.576
South America X C2000-2004	-0.224	0.166599	-1.29	0.197	-0.231	0.145828	-1.51	0.131
Africa X C2000-2004	0.231	0.12512	1.45	0.147	0.226	0.114454	1.57	0.117
Europe/Asia X C2000-2004	0.007	0.118054	0.06	0.952	-0.007	0.119028	-0.06	0.952
Not Stated X C2000-2004	0.011	0.137739	0.08	0.939	0.003	0.111178	0.03	0.975
North America Oceania X C1995-1999	-0.354	0.103479	-2.82	0.005	-0.173	0.127214	-1.34	0.181
South America X C1995-1999	-0.336	0.147467	-1.93	0.053	-0.151	0.179492	-0.84	0.403
Africa X C1995-1999	0.062	0.127596	0.47	0.635	0.227	0.089469	2.01	0.045
Europe/Asia X C1995-1999	-0.201	0.087324	-2.24	0.025	0.180	0.06946	2.24	0.025
Not Stated X C1995-1999	-0.118	0.105018	-1.13	0.259	0.080	0.090329	0.85	0.393

North America Oceania X C1990-1994	-0.180	0.116542	-1.51	0.13	-0.126	0.106907	-1.18	0.238
South America X C1990-1994	0.055	0.107641	0.5	0.62	0.104	0.090005	1.09	0.275
Africa X C1990-1994	0.025	0.132614	0.19	0.853	0.076	0.116613	0.63	0.531
Europe/Asia X C1990-1994	-0.054	0.082125	-0.66	0.509	0.052	0.077282	0.66	0.509
Not Stated X C1990-1994	-0.032	0.099558	-0.32	0.747	0.021	0.082141	0.26	0.798
North America Oceania X C1985-1989	-0.255	0.115641	-2.06	0.039	-0.110	0.125896	-0.88	0.379
South America X C1985-1989	-0.068	0.112661	-0.61	0.542	0.077	0.10235	0.73	0.468
Africa X C1985-1989	0.160	0.102498	1.39	0.165	0.264	0.073973	2.57	0.01
Europe/Asia X C1985-1989	-0.149	0.072651	-2.05	0.041	0.137	0.061392	2.05	0.041
Not Stated X C1985-1989	-0.085	0.100263	-0.86	0.39	0.061	0.092229	0.64	0.519
North America Oceania X C1980-1984	0.199	0.093854	1.77	0.076	0.086	0.115441	0.72	0.474
South America X C1980-1984	-0.028	0.123764	-0.23	0.821	-0.164	0.121757	-1.34	0.181
Africa X C1980-1984	0.187	0.087962	1.82	0.069	0.072	0.105871	0.66	0.511
Europe/Asia X C1980-1984	0.126	0.060945	1.92	0.055	-0.136	0.070997	-1.92	0.055
Not Stated X C1980-1984	0.215	0.064512	2.71	0.007	0.107	0.079756	1.26	0.207
North America Oceania X C1975-1979	0.117	0.062728	1.74	0.082	0.217	0.057751	3.04	0.002
South America X C1975-1979	-0.097	0.081024	-1.21	0.227	0.030	0.087641	0.34	0.736
Africa X C1975-1979	-0.002	0.11587	-0.02	0.983	0.117	0.108472	1.01	0.315
Europe/Asia X C1975-1979	-0.128	0.066578	-1.93	0.054	0.119	0.057697	1.93	0.054
Not Stated X C1975-1979	-0.041	0.082319	-0.5	0.618	0.082	0.083693	0.95	0.344
North America Oceania X C-B1974	-0.025	0.038163	-0.65	0.514	0.056	0.044077	1.24	0.216
South America X C-B1974	-0.053	0.040998	-1.29	0.196	0.029	0.046948	0.62	0.536
Africa X C-B1974	-0.143	0.070635	-2.02	0.043	-0.060	0.0757	-0.8	0.425
Europe/Asia X C-B1974	-0.083	0.034661	-2.41	0.016	0.079	0.031884	2.41	0.016
Not Stated X C-B1974	-0.115	0.043071	-2.68	0.007	-0.031	0.051282	-0.62	0.537
YSM	0.003	0.005205	0.59	0.556	0.003	0.005205	0.59	0.556
YSM2	0.000	6.34E-05	-0.88	0.377	0.000	6.34E-05	-0.88	0.377
Speak English	0.016	0.013526	1.22	0.223	0.016	0.013526	1.22	0.223
Speak French	-0.024	0.01105	-2.13	0.033	-0.024	0.01105	-2.13	0.033
Speak another Language	-0.007	0.011992	-0.55	0.585	-0.007	0.011992	-0.55	0.585
Does not speak French nor English	-0.055	0.038353	-1.44	0.149	-0.055	0.038353	-1.44	0.149
Number of years smoked	0.001	0.000227	2.33	0.02	0.001	0.000227	2.33	0.02
High School Graduate	-0.050	0.011052	-4.6	0	-0.050	0.011052	-4.6	0
Some PSE	-0.031	0.014339	-2.18	0.03	-0.031	0.014339	-2.18	0.03
PSE Graduate	-0.043	0.00888	-4.78	0	-0.043	0.00888	-4.78	0
Education Not Stated	-0.067	0.037082	-1.83	0.068	-0.067	0.037082	-1.83	0.068
Household Size	-0.012	0.0036	-3.43	0.001	-0.012	0.0036	-3.43	0.001
Number of kids under 12	-0.009	0.008867	-0.98	0.329	-0.009	0.008867	-0.98	0.329
Own home	-0.048	0.009543	-4.94	0	-0.048	0.009543	-4.94	0
Dividend income	-0.022	0.007988	-2.75	0.006	-0.022	0.007988	-2.75	0.006
Work	-0.107	0.007595	-13.69	0	-0.107	0.007595	-13.69	0
Old Age Security income	0.013	0.012294	1.08	0.282	0.013	0.012294	1.08	0.282
Social Assistance income	0.132	0.015807	7.75	0	0.132	0.015807	7.75	0
P/T Unemployment Rate	-0.011	0.006291	-1.77	0.076	-0.011	0.006291	-1.77	0.076
Year 2005	0.056	0.006101	9.02	0	0.056	0.006101	9.02	0

Year 2010	0.062	0.010466	5.84	0	0.062	0.010466	5.84	0
					<b>Europe Omitted</b>			<b>Asia Omitted</b>
Joint Chi2-Test Country of Birth Dummies								
Prob > Chi2								
Chi2-Test C2005-2010 C2000-2004 C1995-1999 C1990-1994 C1985-1989 C1980-1984 C1975-1979 C-B1974					19.38			23.19
Prob > Chi2					0.013			0.0031
Chi2-Test Interactions terms with C2005-2010					12.33			12.33
Prob > Chi2					0.015			0.015
Chi2-Test Interactions terms with C2000-2004					5.91			5.91
Prob > Chi2					0.3151			0.3151
Chi2-Test Interactions terms with C1995-1999					14.2			14.2
Prob > Chi2					0.0144			0.0144
Chi2-Test Interactions terms with C1990-1994					3.93			3.93
Prob > Chi2					0.5592			0.5592
Chi2-Test Interactions terms with C1985-1989					11.5			11.5
Prob > Chi2					0.0423			0.0423
Chi2-Test Interactions terms with C1980-1984					11.61			11.61
Prob > Chi2					0.0406			0.0406
Chi2-Test Interactions terms with C1975-1979					10.92			10.92
Prob > Chi2					0.0529			0.0529
Chi2-Test Interactions terms with C-B1974					14.69			14.69
Prob > Chi2					0.0118			0.0118

Note: In the interaction terms, Europe/Asia means that Asia is the first part of the interaction term when Europe is omitted, and Europe is the first part of the interaction term when Asia is omitted.

**Table A-6: Pooled Cross Section Chronic Condition Type A Regression for 65+**

	CCtypeA	Europe Omitted			CCtypeA	Asia Omitted		
		Robust Std. Err.	z	P>z		Robust Std. Err.	z	P>z
NL	0.028	0.044523	0.61	0.539	0.028	0.044609	0.61	0.539
PEI	0.028	0.030234	0.88	0.378	0.028	0.030292	0.88	0.378
NS	0.036	0.013793	2.47	0.013	0.036	0.01382	2.47	0.013
NB	0.013	0.020698	0.63	0.53	0.013	0.020736	0.63	0.53
QC	-0.041	0.016444	-2.54	0.011	-0.041	0.016469	-2.54	0.011
MB	-0.028	0.015338	-1.89	0.059	-0.028	0.015362	-1.89	0.059
SK	-0.006	0.013182	-0.42	0.674	-0.006	0.013204	-0.42	0.674
AB	0.002	0.012802	0.19	0.85	0.002	0.012824	0.19	0.85
BC	-0.029	0.008691	-3.43	0.001	-0.029	0.008705	-3.43	0.001
YK	0.008	0.03665	0.22	0.826	0.008	0.036715	0.22	0.826
NWT	-0.040	0.04276	-0.97	0.332	-0.040	0.042822	-0.97	0.332
Nu	0.032	0.064413	0.47	0.637	0.032	0.06454	0.47	0.637
Urban	0.001	0.006508	0.15	0.884	0.001	0.006519	0.15	0.884
Age	0.023	0.008124	2.77	0.006	0.023	0.008138	2.77	0.006
Age2	0.000	5.32E-05	-2.4	0.016	0.000	5.33E-05	-2.4	0.016
Male	-0.082	0.005982	-13.89	0	-0.083	0.005991	-13.89	0
Married	-0.010	0.007631	-1.31	0.191	-0.010	0.007644	-1.31	0.191
Marital status Not Stated	-0.117	0.137961	-0.93	0.351	-0.118	0.138089	-0.93	0.351
C2005-2010	0.224	0.002778	10.14	0	-0.287	0.217929	-1.44	0.149
C2000-2004	-0.113	0.159331	-0.78	0.438	-0.462	0.10507	-4.22	0
C1995-1999	-0.241	0.140812	-1.9	0.058	-0.147	0.103863	-1.56	0.118
C1990-1994	0.172	0.028645	3.34	0.001	-0.080	0.067059	-1.29	0.198
C1985-1989	-0.013	0.111195	-0.12	0.908	-0.070	0.085847	-0.87	0.382
C1980-1084	0.057	0.073702	0.71	0.478	-0.167	0.107336	-1.73	0.084
C1975-1979	0.019	0.085619	0.21	0.833	0.038	0.082529	0.44	0.66
C-B1974	-0.006	0.099975	-0.06	0.949	-0.049	0.103437	-0.48	0.628
Europe/Asia X C2005-2010	-0.780	0.002745	.	.	--	--	--	--
North America Oceania X C2000-2004	0.207	0.024562	2.17	0.03	0.221	0.00342	4.13	0
South America X C2000-2004	-0.203	0.266609	-0.85	0.396	0.085	0.131375	0.55	0.584
Europe/Asia X C2000-2004	-0.333	0.20305	-1.76	0.078	0.175	0.051143	1.76	0.078
Not Stated X C2000-2004	-0.491	0.29116	-1.55	0.12	-0.144	0.296894	-0.54	0.592
North America Oceania X C1995-1999	0.053	0.255576	0.19	0.85	-0.015	0.309644	-0.05	0.959
South America X C1995-1999	0.215	0.011016	2.88	0.004	0.210	0.018374	2.62	0.009
Europe/Asia X C1995-1999	0.065	0.106883	0.55	0.585	-0.079	0.155071	-0.55	0.585
Not Stated X C1995-1999	-0.096	0.207557	-0.5	0.617	-0.187	0.212342	-0.98	0.328
South America X C1990-1994	-0.577	0.13488	-3.35	0.001	-0.171	0.172561	-1.1	0.271
Africa X C1990-1994	-0.515	0.18609	-2.46	0.014	-0.095	0.193402	-0.53	0.596
Europe/Asia X C1990-1994	-0.412	0.091207	-4.59	0	0.192	0.016951	4.59	0
Not Stated X C1990-1994	-0.549	0.164158	-2.79	0.005	-0.135	0.1912	-0.78	0.437
North America Oceania X C1985-1989	-0.039	0.164151	-0.25	0.802	0.015	0.123156	0.12	0.907

South America X C1985-1989	0.143	0.074727	1.27	0.202	0.166	0.049078	1.91	0.057
Africa X C1985-1989	0.166	0.069265	1.34	0.18	0.184	0.046722	1.8	0.072
Europe/Asia X C1985-1989	-0.056	0.119428	-0.5	0.62	0.049	0.091431	0.5	0.62
Not Stated X C1985-1989	-0.016	0.148578	-0.11	0.91	0.035	0.107633	0.31	0.759
North America Oceania X C1980-1984	-0.143	0.145482	-1.09	0.276	0.073	0.088838	0.72	0.473
South America X C1980-1984	-0.104	0.150891	-0.75	0.452	0.096	0.085523	0.92	0.357
Africa X C1980-1984	-0.163	0.202338	-0.9	0.37	0.060	0.12842	0.42	0.672
Europe/Asia X C1980-1984	-0.250	0.096548	-2.86	0.004	0.150	0.03357	2.86	0.004
Not Stated X C1980-1984	0.057	0.110277	0.47	0.64	0.175	0.043572	2.06	0.039
North America Oceania X C1975-1979	-0.050	0.13869	-0.38	0.702	-0.075	0.147025	-0.55	0.584
South America X C1975-1979	0.143	0.043778	2.18	0.029	0.132	0.04976	1.88	0.06
Africa X C1975-1979	-0.158	0.159403	-1.1	0.271	-0.186	0.165054	-1.26	0.209
Europe/Asia X C1975-1979	0.021	0.063055	0.32	0.747	-0.022	0.070509	-0.32	0.747
Not Stated X C1975-1979	-0.140	0.132642	-1.16	0.245	-0.167	0.138335	-1.34	0.179
North America Oceania X C-B1974	0.020	0.024451	0.78	0.437	0.056	0.033336	1.53	0.125
South America X C-B1974	0.022	0.036293	0.58	0.559	0.058	0.039781	1.32	0.185
Africa X C-B1974	-0.019	0.068975	-0.28	0.778	0.021	0.067514	0.31	0.759
Europe/Asia X C-B1974	-0.043	0.034713	-1.28	0.2	0.039	0.029353	1.28	0.2
Not Stated X C-B1974	-0.028	0.029461	-0.98	0.325	0.013	0.039006	0.33	0.741
YSM	0.000	0.00359	0.06	0.956	0.000	0.003596	0.06	0.956
YSM2	0.000	3.15E-05	-0.06	0.95	0.000	3.15E-05	-0.06	0.95
Speak English	-0.005	0.011447	-0.43	0.666	-0.005	0.011467	-0.43	0.666
Speak French	-0.034	0.009691	-3.56	0	-0.034	0.009706	-3.56	0
Speak another Language	0.010	0.0087	1.17	0.242	0.010	0.008715	1.17	0.242
Does not speak French nor English	-0.014	0.027338	-0.51	0.61	-0.014	0.027383	-0.51	0.61
Number of years smoked	0.000	0.000174	-2.54	0.011	0.000	0.000174	-2.54	0.011
High School Graduate	-0.026	0.008672	-3.05	0.002	-0.026	0.008686	-3.05	0.002
Some PSE	-0.003	0.014758	-0.22	0.828	-0.003	0.014783	-0.22	0.828
PSE Graduate	-0.019	0.006644	-2.89	0.004	-0.019	0.006656	-2.89	0.004
Education Not Stated	0.023	0.024448	0.9	0.367	0.023	0.024495	0.9	0.367
Household Size	0.008	0.00559	1.47	0.141	0.008	0.0056	1.47	0.141
Number of kids under 12	-0.013	0.01979	-0.64	0.521	-0.013	0.019824	-0.64	0.521
Own home	-0.009	0.007198	-1.29	0.199	-0.009	0.007211	-1.29	0.199
Dividend income	-0.004	0.005981	-0.74	0.458	-0.004	0.005992	-0.74	0.458
Work	-0.048	0.010903	-4.61	0	-0.048	0.010918	-4.61	0
Old Age Security income	0.037	0.00901	4.19	0	0.037	0.009024	4.19	0
Social Assistance income	0.063	0.01953	2.91	0.004	0.063	0.019573	2.91	0.004
P/T Unemployment Rate	-0.004	0.00525	-0.75	0.455	-0.004	0.005259	-0.75	0.455
Year 2005	0.049	0.0055	8.8	0	0.050	0.00551	8.8	0
Year 2010	0.062	0.008237	7.24	0	0.062	0.008251	7.24	0

Joint Chi2-Test Country of Birth Dummies	Europe Omitted	Asia Omitted
Prob > Chi2		
Chi2-Test C2005-2010 C2000-2004 C1995-1999 C1990-1994 C1985-1989 C1980-1984 C1975-1979 C-B1974	22.87	29.49
Prob > Chi2	0.0018	0.0003
Chi2-Test Interactions terms with C2005-2010	--	--
Prob > Chi2	--	--
Chi2-Test Interactions terms with C2000-2004	19.62	19.62
Prob > Chi2	0.0006	0.0006
Chi2-Test Interactions terms with C1995-1999	10.89	10.89
Prob > Chi2	0.0278	0.0278
Chi2-Test Interactions terms with C1990-1994	26.49	26.49
Prob > Chi2	0	0
Chi2-Test Interactions terms with C1985-1989	6.3	6.3
Prob > Chi2	0.2778	0.2778
Chi2-Test Interactions terms with C1980-1984	10.27	10.27
Prob > Chi2	0.0679	0.0679
Chi2-Test Interactions terms with C1975-1979	9.66	9.66
Prob > Chi2	0.0856	0.0856
Chi2-Test Interactions terms with C-B1974	3.82	3.82
Prob > Chi2	0.5756	0.5756

Note: In the interaction terms, Europe/Asia means that Asia is the first part of the interaction term when Europe is omitted, and Europe is the first part of the interaction term when Asia is omitted.

**Table A-7: Pooled Cross Section Chronic Condition Type B Regression for 45+**

	CCtypeB	Europe Omitted			CCtypeB	Asia Omitted		
		Robust Std. Err.	z	P>z		Robust Std. Err.	z	P>z
NL	0.054	0.036276	1.59	0.111	0.054	0.036276	1.59	0.111
PEI	0.036	0.024296	1.57	0.117	0.036	0.024296	1.57	0.117
NS	0.044	0.012981	3.58	0	0.044	0.012981	3.58	0
NB	0.043	0.016151	2.84	0.005	0.043	0.016151	2.84	0.005
QC	-0.017	0.010881	-1.54	0.124	-0.017	0.010881	-1.54	0.124
MB	-0.033	0.008473	-3.67	0	-0.033	0.008473	-3.67	0
SK	-0.017	0.008197	-2.05	0.04	-0.017	0.008197	-2.05	0.04
AB	-0.025	0.007439	-3.22	0.001	-0.025	0.007439	-3.22	0.001
BC	-0.035	0.005099	-6.59	0	-0.035	0.005099	-6.59	0
YK	-0.001	0.017179	-0.07	0.941	-0.001	0.017179	-0.07	0.941
NWT	-0.008	0.027979	-0.27	0.79	-0.008	0.027979	-0.27	0.79
Nu	-0.051	0.032133	-1.42	0.157	-0.051	0.032133	-1.42	0.157
Urban	0.003	0.004225	0.67	0.506	0.003	0.004225	0.67	0.506
Age	0.027	0.001874	14.12	0	0.027	0.001874	14.12	0
Age2	0.000	1.36E-05	-10.73	0	0.000	1.36E-05	-10.73	0
Male	0.078	0.003805	20.7	0	0.078	0.003805	20.7	0
Married	-0.002	0.004794	-0.35	0.726	-0.002	0.004794	-0.35	0.726
Marital status Not Stated	-0.052	0.047603	-0.97	0.333	-0.052	0.047603	-0.97	0.333
C2005-2010	-0.100	0.059817	-1.23	0.219	-0.069	0.053738	-1.08	0.28
C2000-2004	-0.080	0.043606	-1.49	0.137	0.022	0.052003	0.44	0.658
C1995-1999	-0.115	0.021129	-3.75	0	-0.037	0.037828	-0.92	0.36
C1990-1994	-0.050	0.057672	-0.77	0.439	-0.033	0.034483	-0.91	0.364
C1985-1989	-0.111	0.0258	-3.04	0.002	-0.105	0.025238	-3.04	0.002
C1980-1084	-0.124	0.025087	-3.2	0.001	-0.083	0.035374	-1.9	0.058
C1975-1979	-0.107	0.030232	-2.56	0.01	-0.094	0.034564	-2.1	0.035
C-B1974	-0.146	0.033211	-3.18	0.001	-0.126	0.036352	-2.68	0.007
North America Oceania X C2005-2010	-0.106	0.080338	-0.93	0.351	-0.129	0.053392	-1.43	0.152
South America X C2005-2010	-0.091	0.098386	-0.71	0.478	-0.117	0.067538	-1.14	0.255
Africa X C2005-2010	-0.171	0.017086	-2.35	0.019	-0.175	0.010019	-3.01	0.003
Europe/Asia X C2005-2010	0.051	0.146334	0.37	0.708	-0.043	0.105695	-0.37	0.708
North America Oceania X C2000-2004	0.081	0.107111	0.84	0.402	-0.040	0.064818	-0.57	0.567
South America X C2000-2004	-0.060	0.080385	-0.65	0.516	-0.128	0.040199	-1.91	0.056
Africa X C2000-2004	0.135	0.186537	0.83	0.409	-0.002	0.131241	-0.02	0.987
Europe/Asia X C2000-2004	0.138	0.105713	1.49	0.137	-0.093	0.047633	-1.49	0.137
Not Stated X C2000-2004	0.140	0.156968	1.01	0.31	0.001	0.108345	0.01	0.993
North America Oceania X C1995-1999	-0.164	0.014916	-3.5	0	-0.176	0.006168	-4.55	0
South America X C1995-1999	0.063	0.096793	0.71	0.479	-0.050	0.068903	-0.65	0.515
Africa X C1995-1999	-0.045	0.066313	-0.61	0.54	-0.118	0.039834	-1.93	0.053
Europe/Asia X C1995-1999	0.133	0.076134	1.99	0.046	-0.091	0.035276	-1.99	0.046
Not Stated X C1995-1999	0.140	0.088305	1.81	0.07	0.005	0.070734	0.07	0.948

North America Oceania X C1990-1994	-0.025	0.082097	-0.29	0.772	-0.042	0.052916	-0.72	0.47
South America X C1990-1994	0.094	0.131672	0.79	0.429	0.070	0.09759	0.78	0.434
Africa X C1990-1994	0.098	0.14696	0.75	0.456	0.074	0.114553	0.71	0.477
Europe/Asia X C1990-1994	0.020	0.08548	0.24	0.812	-0.019	0.075046	-0.24	0.812
Not Stated X C1990-1994	0.113	0.1142	1.12	0.264	0.089	0.072409	1.36	0.174
North America Oceania X C1985-1989	-0.056	0.062021	-0.79	0.428	-0.064	0.057354	-0.96	0.338
South America X C1985-1989	0.146	0.126985	1.32	0.187	0.131	0.121249	1.23	0.217
Africa X C1985-1989	0.042	0.094838	0.47	0.64	0.030	0.089286	0.35	0.728
Europe/Asia X C1985-1989	0.011	0.044196	0.26	0.798	-0.011	0.041035	-0.26	0.798
Not Stated X C1985-1989	-0.002	0.055523	-0.03	0.972	-0.013	0.050065	-0.24	0.807
North America Oceania X C1980-1984	-0.025	0.055322	-0.43	0.67	-0.082	0.040164	-1.63	0.102
South America X C1980-1984	-0.017	0.06801	-0.24	0.809	-0.076	0.049877	-1.25	0.21
Africa X C1980-1984	0.214	0.108592	2.29	0.022	0.113	0.096725	1.32	0.188
Europe/Asia X C1980-1984	0.082	0.057291	1.57	0.116	-0.064	0.034871	-1.57	0.116
Not Stated X C1980-1984	-0.010	0.057202	-0.17	0.864	-0.071	0.042137	-1.41	0.158
North America Oceania X C1975-1979	0.043	0.060957	0.75	0.453	0.020	0.059549	0.34	0.732
South America X C1975-1979	-0.030	0.040694	-0.69	0.487	-0.048	0.039452	-1.1	0.273
Africa X C1975-1979	0.088	0.119625	0.82	0.413	0.063	0.114976	0.59	0.555
Europe/Asia X C1975-1979	0.022	0.041289	0.55	0.584	-0.020	0.035771	-0.55	0.584
Not Stated X C1975-1979	0.116	0.074195	1.77	0.077	0.089	0.073382	1.35	0.178
North America Oceania X C-B1974	0.008	0.017316	0.5	0.619	-0.025	0.022703	-1.05	0.295
South America X C-B1974	0.011	0.027131	0.42	0.674	-0.022	0.028888	-0.75	0.456
Africa X C-B1974	0.002	0.036371	0.05	0.958	-0.031	0.035375	-0.82	0.414
Europe/Asia X C-B1974	0.036	0.021973	1.75	0.081	-0.033	0.017834	-1.75	0.081
Not Stated X C-B1974	-0.006	0.017088	-0.34	0.737	-0.038	0.021544	-1.61	0.107
YSM	0.006	0.002278	2.63	0.009	0.006	0.002278	2.63	0.009
YSM2	0.000	2.11E-05	-2.22	0.026	0.000	2.11E-05	-2.22	0.026
Speak English	-0.004	0.007694	-0.46	0.644	-0.004	0.007694	-0.46	0.644
Speak French	-0.010	0.006257	-1.57	0.117	-0.010	0.006257	-1.57	0.117
Speak another Language	0.006	0.006751	0.87	0.382	0.006	0.006751	0.87	0.382
Does not speak French nor English	-0.035	0.017805	-1.86	0.063	-0.035	0.017805	-1.86	0.063
Number of years smoked	0.000	0.00012	-2.6	0.009	0.000	0.00012	-2.6	0.009
High School Graduate	-0.028	0.005303	-5.17	0	-0.028	0.005303	-5.17	0
Some PSE	-0.032	0.006845	-4.49	0	-0.032	0.006845	-4.49	0
PSE Graduate	-0.032	0.004348	-7.48	0	-0.032	0.004348	-7.48	0
Education Not Stated	0.029	0.019324	1.54	0.123	0.029	0.019324	1.54	0.123
Household Size	0.007	0.002613	2.6	0.009	0.007	0.002613	2.6	0.009
Number of kids under 12	-0.008	0.007324	-1.09	0.277	-0.008	0.007324	-1.09	0.277
Own home	-0.046	0.005393	-9	0	-0.046	0.005393	-9	0
Dividend income	-0.021	0.004183	-4.99	0	-0.021	0.004183	-4.99	0
Work	-0.083	0.005022	-16.69	0	-0.083	0.005022	-16.69	0
Old Age Security income	0.010	0.005035	1.96	0.05	0.010	0.005035	1.96	0.05
Social Assistance income	0.079	0.01284	6.71	0	0.079	0.01284	6.71	0
P/T Unemployment Rate	-0.005	0.00345	-1.42	0.157	-0.005	0.00345	-1.42	0.157
Year 2005	0.002	0.003511	0.56	0.573	0.002	0.003511	0.56	0.573

Year 2010	0.027	0.005988	4.68	0	0.027	0.005988	4.68	0
Joint Chi2-Test Country of Birth					<b>Europe Omitted</b>			<b>Asia Omitted</b>
Dummies								
Prob > Chi2								
Chi2-Test C2005-2010 C2000-2004 C1995-1999 C1990-1994 C1985-1989 C1980-1984 C1975-1979 C-B1974					21.48			12.3
Prob > Chi2					0.006			0.1384
Chi2-Test Interactions terms with C2005-2010					10.03			10.03
Prob > Chi2					0.04			0.04
Chi2-Test Interactions terms with C2000-2004					5.23			5.23
Prob > Chi2					0.3882			0.3882
Chi2-Test Interactions terms with C1995-1999					25.41			25.41
Prob > Chi2					0.0001			0.0001
Chi2-Test Interactions terms with C1990-1994					4.2			4.2
Prob > Chi2					0.5203			0.5203
Chi2-Test Interactions terms with C1985-1989					3			3
Prob > Chi2					0.6999			0.6999
Chi2-Test Interactions terms with C1980-1984					9.4			9.4
Prob > Chi2					0.0941			0.0941
Chi2-Test Interactions terms with C1975-1979					5.44			5.44
Prob > Chi2					0.3644			0.3644
Chi2-Test Interactions terms with C-B1974					3.56			3.56
Prob > Chi2					0.615			0.615

Note: In the interaction terms, Europe/Asia means that Asia is the first part of the interaction term when Europe is omitted, and Europe is the first part of the interaction term when Asia is omitted.

**Table A-8: Pooled Cross Section Chronic Condition Type B Regression for 45-64**

	CCtypeB	Europe Omitted Robust Std. Err.	z	P>z	CCtypeB	Asia Omitted Robust Std. Err.	z	P>z
NL	0.027	0.038792	0.73	0.465	0.027	0.038792	0.73	0.465
PEI	0.032	0.028036	1.23	0.218	0.032	0.028036	1.23	0.218
NS	0.030	0.015474	2.1	0.036	0.030	0.015474	2.1	0.036
NB	0.027	0.017895	1.61	0.108	0.027	0.017895	1.61	0.108
QC	-0.020	0.011437	-1.68	0.093	-0.020	0.011437	-1.68	0.093
MB	-0.023	0.009337	-2.28	0.023	-0.023	0.009337	-2.28	0.023
SK	-0.006	0.009736	-0.6	0.549	-0.006	0.009736	-0.6	0.549
AB	-0.010	0.008199	-1.2	0.231	-0.010	0.008199	-1.2	0.231
BC	-0.025	0.005591	-4.2	0	-0.025	0.005591	-4.2	0
YK	-0.004	0.015801	-0.26	0.794	-0.004	0.015801	-0.26	0.794
NWT	0.020	0.028183	0.75	0.455	0.020	0.028183	0.75	0.455
Nu	-0.037	0.02827	-1.13	0.258	-0.037	0.02827	-1.13	0.258
Urban	0.000	0.004755	-0.05	0.957	0.000	0.004755	-0.05	0.957
Age	0.035	0.007699	4.58	0	0.035	0.007699	4.58	0
Age2	0.000	6.98E-05	-3.59	0	0.000	6.98E-05	-3.59	0
Male	0.051	0.004177	12.35	0	0.051	0.004177	12.35	0
Married	0.004	0.005215	0.68	0.498	0.004	0.005215	0.68	0.498
Marital status Not Stated	-0.032	0.049824	-0.57	0.569	-0.032	0.049824	-0.57	0.569
C2005-2010	-0.068	0.049164	-0.98	0.329	-0.025	0.049991	-0.45	0.652
C2000-2004	-0.097	0.016364	-2.9	0.004	0.000	0.042495	0.01	0.995
C1995-1999	-0.101	0.012622	-3.82	0	-0.040	0.029602	-1.16	0.246
C1990-1994	-0.059	0.038453	-1.18	0.237	-0.035	0.035511	-0.87	0.385
C1985-1989	-0.102	0.015395	-3.09	0.002	-0.098	0.017557	-2.82	0.005
C1980-1084	-0.109	0.013695	-3.05	0.002	-0.089	0.025183	-2.04	0.042
C1975-1979	-0.107	0.015734	-2.83	0.005	-0.099	0.02122	-2.33	0.02
C-B1974	-0.131	0.020346	-3.15	0.002	-0.117	0.025903	-2.55	0.011
North America Oceania X C2005-2010	-0.073	0.060781	-0.8	0.423	-0.097	0.027838	-1.59	0.112
South America X C2005-2010	-0.074	0.061064	-0.8	0.423	-0.097	0.028001	-1.56	0.119
Africa X C2005-2010	-0.115	0.008227	-2.27	0.023	-0.117	0.003479	-3.36	0.001
Europe/Asia X C2005-2010	0.076	0.149208	0.59	0.555	-0.052	0.070249	-0.59	0.555
North America Oceania X C2000-2004	0.201	0.128985	1.97	0.049	-0.018	0.056176	-0.3	0.761
South America X C2000-2004	-0.070	0.049146	-0.98	0.327	-0.112	0.009034	-2.84	0.005
Africa X C2000-2004	0.259	0.207476	1.59	0.111	0.013	0.111057	0.12	0.906
Europe/Asia X C2000-2004	0.235	0.11986	2.5	0.012	-0.096	0.018087	-2.5	0.012
Not Stated X C2000-2004	0.274	0.174115	2.01	0.045	0.021	0.0932	0.24	0.81
North America Oceania X C1995-1999	-0.106	0.012028	-2.91	0.004	-0.117	0.003364	-4.47	0
South America X C1995-1999	0.010	0.084193	0.12	0.907	-0.080	0.034918	-1.41	0.158
Africa X C1995-1999	-0.061	0.041061	-1.11	0.269	-0.105	0.013164	-2.81	0.005
Europe/Asia X C1995-1999	0.170	0.085276	2.5	0.012	-0.084	0.019866	-2.5	0.012
Not Stated X C1995-1999	0.195	0.096483	2.56	0.011	0.014	0.060112	0.24	0.809

North America Oceania X C1990-1994	-0.059	0.048253	-0.93	0.352	-0.077	0.028172	-1.75	0.08
South America X C1990-1994	0.094	0.125338	0.89	0.374	0.047	0.08517	0.62	0.536
Africa X C1990-1994	0.044	0.124376	0.39	0.693	0.005	0.087457	0.06	0.95
Europe/Asia X C1990-1994	0.038	0.082972	0.5	0.619	-0.031	0.055567	-0.5	0.619
Not Stated X C1990-1994	0.056	0.096355	0.65	0.513	0.015	0.057675	0.27	0.786
North America Oceania X C1985-1989	-0.059	0.037231	-1.2	0.229	-0.068	0.032301	-1.48	0.14
South America X C1985-1989	0.168	0.123729	1.71	0.088	0.143	0.115996	1.53	0.127
Africa X C1985-1989	0.049	0.082819	0.66	0.507	0.031	0.075118	0.44	0.658
Europe/Asia X C1985-1989	0.016	0.041328	0.4	0.69	-0.014	0.03462	-0.4	0.69
Not Stated X C1985-1989	-0.068	0.028669	-1.66	0.096	-0.075	0.024537	-2	0.045
North America Oceania X C1980-1984	-0.029	0.048338	-0.55	0.584	-0.073	0.028916	-1.69	0.091
South America X C1980-1984	0.003	0.068897	0.05	0.963	-0.053	0.043824	-0.96	0.339
Africa X C1980-1984	0.211	0.120244	2.23	0.026	0.099	0.097731	1.2	0.229
Europe/Asia X C1980-1984	0.082	0.063204	1.51	0.132	-0.055	0.02855	-1.51	0.132
Not Stated X C1980-1984	-0.030	0.042968	-0.63	0.527	-0.074	0.025642	-1.91	0.057
North America Oceania X C1975-1979	0.019	0.051708	0.4	0.692	-0.013	0.043833	-0.29	0.768
South America X C1975-1979	-0.010	0.041456	-0.24	0.807	-0.038	0.034498	-0.95	0.342
Africa X C1975-1979	0.165	0.136196	1.51	0.131	0.112	0.123303	1.1	0.273
Europe/Asia X C1975-1979	0.036	0.04397	0.88	0.378	-0.029	0.030073	-0.88	0.378
Not Stated X C1975-1979	0.146	0.079982	2.25	0.024	0.095	0.072754	1.55	0.121
North America Oceania X C-B1974	0.001	0.020374	0.04	0.967	-0.038	0.020753	-1.59	0.112
South America X C-B1974	0.039	0.031903	1.34	0.179	-0.009	0.029603	-0.29	0.773
Africa X C-B1974	0.018	0.040196	0.47	0.642	-0.025	0.033761	-0.68	0.494
Europe/Asia X C-B1974	0.050	0.02662	2.1	0.035	-0.039	0.016504	-2.1	0.035
Not Stated X C-B1974	-0.007	0.019199	-0.36	0.72	-0.044	0.019297	-1.91	0.056
YSM	0.009	0.003407	2.6	0.009	0.009	0.003407	2.6	0.009
YSM2	0.000	4.06E-05	-2.16	0.031	0.000	4.06E-05	-2.16	0.031
Speak English	-0.008	0.008477	-0.95	0.341	-0.008	0.008477	-0.95	0.341
Speak French	-0.006	0.006681	-0.93	0.353	-0.006	0.006681	-0.93	0.353
Speak another Language	0.000	0.008097	0.03	0.974	0.000	0.008097	0.03	0.974
Does not speak French nor English	-0.022	0.021786	-0.92	0.357	-0.022	0.021786	-0.92	0.357
Number of years smoked	0.000	0.000136	-0.73	0.465	0.000	0.000136	-0.73	0.465
High School Graduate	-0.022	0.005819	-3.63	0	-0.022	0.005819	-3.63	0
Some PSE	-0.028	0.006864	-3.72	0	-0.028	0.006864	-3.72	0
PSE Graduate	-0.030	0.005246	-5.76	0	-0.030	0.005246	-5.76	0
Education Not Stated	0.003	0.022227	0.12	0.902	0.003	0.022227	0.12	0.902
Household Size	0.000	0.002263	-0.1	0.917	0.000	0.002263	-0.1	0.917
Number of kids under 12	0.004	0.005924	0.64	0.519	0.004	0.005924	0.64	0.519
Own home	-0.045	0.006675	-7.24	0	-0.045	0.006675	-7.24	0
Dividend income	-0.015	0.005073	-2.84	0.005	-0.015	0.005073	-2.84	0.005
Work	-0.074	0.005306	-15.24	0	-0.074	0.005306	-15.24	0
Old Age Security income	0.010	0.007223	1.43	0.154	0.010	0.007223	1.43	0.154
Social Assistance income	0.058	0.011493	5.64	0	0.058	0.011493	5.64	0
P/T Unemployment Rate	-0.003	0.003742	-0.67	0.504	-0.003	0.003742	-0.67	0.504
Year 2005	0.004	0.003811	0.99	0.32	0.004	0.003811	0.99	0.32

Year 2010	0.015	0.006589	2.35	0.019	0.015	0.006589	2.35	0.019
Joint Chi2-Test Country of Birth Dummies				<b>Europe Omitted</b>				<b>Asia Omitted</b>
Prob > Chi2								
Chi2-Test C2005-2010 C2000-2004 C1995-1999 C1990-1994 C1985-1989 C1980-1984 C1975-1979 C-B1974				19.85				11.68
Prob > Chi2				0.0109				0.166
Chi2-Test Interactions terms with C2005-2010				12.34				12.34
Prob > Chi2				0.015				0.015
Chi2-Test Interactions terms with C2000-2004				14.41				14.41
Prob > Chi2				0.0132				0.0132
Chi2-Test Interactions terms with C1995-1999				29.7				29.7
Prob > Chi2				0				0
Chi2-Test Interactions terms with C1990-1994				4.65				4.65
Prob > Chi2				0.4601				0.4601
Chi2-Test Interactions terms with C1985-1989				10.08				10.08
Prob > Chi2				0.0729				0.0729
Chi2-Test Interactions terms with C1980-1984				10.22				10.22
Prob > Chi2				0.0692				0.0692
Chi2-Test Interactions terms with C1975-1979				7.75				7.75
Prob > Chi2				0.1707				0.1707
Chi2-Test Interactions terms with C-B1974				6.21				6.21
Prob > Chi2				0.2864				0.2864

Note: In the interaction terms, Europe/Asia means that Asia is the first part of the interaction term when Europe is omitted, and Europe is the first part of the interaction term when Asia is omitted.

**Table A-9: Pooled Cross Section Chronic Condition Type B Regression for 65+**

	CCtypeB	Europe Omitted Robust Std. Err.	z	P>z	CCtypeB	Asia Omitted Robust Std. Err.	z	P>z
NL	0.122	0.05953	2.1	0.036	0.122	0.05953	2.1	0.036
PEI	0.047	0.03943	1.2	0.23	0.047	0.03943	1.2	0.23
NS	0.069	0.017954	3.9	0	0.069	0.017954	3.9	0
NB	0.076	0.026438	2.94	0.003	0.076	0.026438	2.94	0.003
QC	-0.004	0.019488	-0.22	0.828	-0.004	0.019488	-0.22	0.828
MB	-0.053	0.016095	-3.21	0.001	-0.053	0.016095	-3.21	0.001
SK	-0.044	0.014265	-2.99	0.003	-0.044	0.014265	-2.99	0.003
AB	-0.061	0.013848	-4.25	0	-0.061	0.013848	-4.25	0
BC	-0.055	0.009297	-5.75	0	-0.055	0.009297	-5.75	0
YK	0.015	0.042881	0.35	0.724	0.015	0.042881	0.35	0.724
NWT	-0.135	0.038536	-3.11	0.002	-0.135	0.038536	-3.11	0.002
Nu	-0.144	0.075095	-1.67	0.094	-0.144	0.075095	-1.67	0.094
Urban	0.012	0.007392	1.65	0.098	0.012	0.007392	1.65	0.098
Age	0.052	0.009748	5.28	0	0.052	0.009748	5.28	0
Age2	0.000	6.37E-05	-4.57	0	0.000	6.37E-05	-4.57	0
Male	0.130	0.006789	19.04	0	0.130	0.006789	19.04	0
Married	-0.025	0.010357	-2.4	0.017	-0.025	0.010357	-2.4	0.017
Marital status Not Stated	-0.123	0.111095	-1	0.319	-0.123	0.111095	-1	0.319
C2005-2010	-0.236	0.139949	-1.19	0.235	-0.344	0.027488	-3.27	0.001
C2000-2004	0.015	0.180255	0.09	0.932	0.027	0.156058	0.17	0.863
C1995-1999	-0.060	0.10826	-0.53	0.595	-0.142	0.074362	-1.68	0.092
C1990-1994	-0.140	0.088152	-1.4	0.16	-0.100	0.061407	-1.52	0.129
C1985-1989	-0.090	0.106438	-0.8	0.426	-0.122	0.0746	-1.48	0.138
C1980-1084	-0.110	0.091893	-1.1	0.271	-0.064	0.088487	-0.69	0.49
C1975-1979	-0.007	0.101516	-0.07	0.943	-0.063	0.101856	-0.6	0.55
C-B1974	-0.107	0.102582	-1	0.316	-0.111	0.102765	-1.03	0.303
Europe/Asia X C2005-2010	-0.256	0.155937	-1.07	0.286	0.340	0.285285	1.07	0.286
North America Oceania X C2000-2004	-0.101	0.228704	-0.41	0.683	-0.111	0.210634	-0.48	0.631
South America X C2000-2004	0.018	0.282559	0.07	0.948	0.007	0.264126	0.03	0.979
Europe/Asia X C2000-2004	0.011	0.232614	0.05	0.961	-0.011	0.227916	-0.05	0.961
South America X C1995-1999	0.532	0.097335	2.96	0.003	0.570	0.064699	3.62	0
Africa X C1995-1999	0.049	0.264274	0.19	0.852	0.149	0.260712	0.58	0.562
Europe/Asia X C1995-1999	-0.090	0.126984	-0.67	0.505	0.098	0.150848	0.67	0.505
Not Stated X C1995-1999	-0.078	0.163959	-0.45	0.65	0.013	0.168854	0.08	0.937
North America Oceania X C1990-1994	0.451	0.117574	2.81	0.005	0.416	0.112874	2.93	0.003
South America X C1990-1994	0.036	0.190472	0.19	0.846	-0.011	0.162966	-0.07	0.945
Africa X C1990-1994	0.334	0.200636	1.5	0.133	0.288	0.19564	1.39	0.163
Europe/Asia X C1990-1994	0.048	0.114561	0.43	0.669	-0.046	0.105164	-0.43	0.669
Not Stated X C1990-1994	0.396	0.139891	2.34	0.019	0.355	0.131226	2.38	0.017
North America Oceania X C1985-1989	-0.046	0.212872	-0.21	0.833	-0.010	0.206683	-0.05	0.962

South America X C1985-1989	-0.026	0.194761	-0.13	0.894	0.010	0.183596	0.06	0.955
Africa X C1985-1989	-0.189	0.161327	-0.94	0.348	-0.162	0.164951	-0.83	0.405
Europe/Asia X C1985-1989	-0.036	0.117225	-0.3	0.761	0.038	0.125354	0.3	0.761
Not Stated X C1985-1989	0.375	0.130345	2.46	0.014	0.406	0.102353	3.22	0.001
North America Oceania X C1980-1984	0.009	0.146856	0.06	0.951	-0.042	0.13152	-0.31	0.754
South America X C1980-1984	-0.143	0.108635	-1.15	0.249	-0.182	0.090195	-1.65	0.1
Africa X C1980-1984	0.139	0.191531	0.74	0.459	0.084	0.182489	0.47	0.638
Europe/Asia X C1980-1984	0.053	0.098641	0.55	0.584	-0.051	0.08977	-0.55	0.584
Not Stated X C1980-1984	0.086	0.180171	0.49	0.628	0.031	0.167931	0.19	0.85
North America Oceania X C1975-1979	0.127	0.159528	0.81	0.418	0.188	0.165345	1.14	0.253
South America X C1975-1979	-0.110	0.091645	-1.1	0.271	-0.058	0.108413	-0.52	0.605
Africa X C1975-1979	-0.205	0.095127	-1.66	0.096	-0.164	0.114615	-1.21	0.227
Europe/Asia X C1975-1979	-0.056	0.08246	-0.66	0.509	0.059	0.091606	0.66	0.509
Not Stated X C1975-1979	-0.139	0.110029	-1.12	0.264	-0.090	0.127902	-0.66	0.508
North America Oceania X C-B1974	0.013	0.030288	0.42	0.678	0.016	0.0479	0.34	0.731
South America X C-B1974	-0.058	0.049318	-1.14	0.255	-0.055	0.059784	-0.88	0.377
Africa X C-B1974	-0.047	0.074314	-0.62	0.536	-0.044	0.081738	-0.52	0.602
Europe/Asia X C-B1974	-0.004	0.038046	-0.1	0.92	0.004	0.038268	0.1	0.92
Not Stated X C-B1974	-0.001	0.032533	-0.03	0.98	0.003	0.048668	0.06	0.95
YSM	0.002	0.004008	0.57	0.572	0.002	0.004008	0.57	0.572
YSM2	0.000	3.52E-05	-0.31	0.757	0.000	3.52E-05	-0.31	0.757
Speak English	0.008	0.014274	0.57	0.567	0.008	0.014274	0.57	0.567
Speak French	-0.014	0.011195	-1.28	0.2	-0.014	0.011195	-1.28	0.2
Speak another Language	0.018	0.010285	1.8	0.072	0.018	0.010285	1.8	0.072
Does not speak French nor English	-0.032	0.03188	-1	0.316	-0.032	0.03188	-1	0.316
Number of years smoked	-0.001	0.000205	-4.22	0	-0.001	0.000205	-4.22	0
High School Graduate	-0.045	0.009741	-4.55	0	-0.045	0.009741	-4.55	0
Some PSE	-0.044	0.014831	-2.89	0.004	-0.044	0.014831	-2.89	0.004
PSE Graduate	-0.034	0.00766	-4.44	0	-0.034	0.00766	-4.44	0
Education Not Stated	0.051	0.033522	1.55	0.12	0.051	0.033522	1.55	0.12
Household Size	0.035	0.009772	3.58	0	0.035	0.009772	3.58	0
Number of kids under 12	-0.059	0.027889	-2.11	0.035	-0.059	0.027889	-2.11	0.035
Own home	-0.049	0.008951	-5.5	0	-0.049	0.008951	-5.5	0
Dividend income	-0.034	0.006927	-4.94	0	-0.034	0.006927	-4.94	0
Work	-0.079	0.011872	-6.36	0	-0.079	0.011872	-6.36	0
Old Age Security income	0.026	0.010463	2.47	0.014	0.026	0.010463	2.47	0.014
Social Assistance income	0.051	0.02725	1.92	0.055	0.051	0.02725	1.92	0.055
P/T Unemployment Rate	-0.012	0.006232	-1.87	0.062	-0.012	0.006232	-1.87	0.062
Year 2005	-0.003	0.006734	-0.52	0.604	-0.003	0.006734	-0.52	0.604
Year 2010	0.051	0.010878	4.75	0	0.051	0.010878	4.75	0

	<b>Europe Omitted</b>	<b>Asia Omitted</b>
Joint Chi2-Test Country of Birth Dummies		
Prob > Chi2		
Chi2-Test C2005-2010 C2000-2004 C1995-1999 C1990-1994 C1985-1989 C1980-1984 C1975-1979 C-B1974	6.25	15.25
Prob > Chi2	0.6191	0.0545
Chi2-Test Interactions terms with C2005-2010	--	--
Prob > Chi2	--	--
Chi2-Test Interactions terms with C2000-2004	0.28	0.28
Prob > Chi2	0.9629	0.9629
Chi2-Test Interactions terms with C1995-1999	13.86	13.86
Prob > Chi2	0.0078	0.0078
Chi2-Test Interactions terms with C1990-1994	15.65	15.65
Prob > Chi2	0.0079	0.0079
Chi2-Test Interactions terms with C1985-1989	12.49	12.49
Prob > Chi2	0.0286	0.0286
Chi2-Test Interactions terms with C1980-1984	3.47	3.47
Prob > Chi2	0.6283	0.6283
Chi2-Test Interactions terms with C1975-1979	5.58	5.58
Prob > Chi2	0.3489	0.3489
Chi2-Test Interactions terms with C-B1974	1.89	1.89
Prob > Chi2	0.864	0.864

Note: In the interaction terms, Europe/Asia means that Asia is the first part of the interaction term when Europe is omitted, and Europe is the first part of the interaction term when Asia is omitted.

**Table A-10: Pooled Cross Section Activity Limitation Regression for 45+**

	ACTLIM	Europe Omitted Robust Std. Err.	z	P>z	ACTLIM	Asia Omitted Robust Std. Err.	z	P>z
NL	-0.029	0.027049	-0.99	0.321	-0.029	0.027049	-0.99	0.321
PEI	-0.004	0.020511	-0.19	0.847	-0.004	0.020511	-0.19	0.847
NS	0.021	0.010112	2.18	0.029	0.021	0.010112	2.18	0.029
NB	-0.007	0.014261	-0.49	0.626	-0.007	0.014261	-0.49	0.626
QC	-0.036	0.010542	-3.22	0.001	-0.036	0.010542	-3.22	0.001
MB	-0.008	0.008798	-0.88	0.379	-0.008	0.008798	-0.88	0.379
SK	-0.019	0.006991	-2.58	0.01	-0.019	0.006991	-2.58	0.01
AB	-0.018	0.006798	-2.5	0.012	-0.018	0.006798	-2.5	0.012
BC	-0.014	0.00471	-2.93	0.003	-0.014	0.00471	-2.93	0.003
YK	-0.033	0.013053	-2.32	0.02	-0.033	0.013053	-2.32	0.02
NWT	0.000	0.021987	0.02	0.988	0.000	0.021987	0.02	0.988
Nu	-0.048	0.026854	-1.56	0.12	-0.048	0.026854	-1.56	0.12
Urban	-0.004	0.00392	-1.11	0.266	-0.004	0.00392	-1.11	0.266
Age	-0.030	0.001606	-18.77	0	-0.030	0.001606	-18.77	0
Age2	0.000	1.18E-05	23.41	0	0.000	1.18E-05	23.41	0
Male	-0.082	0.003289	-24.64	0	-0.082	0.003289	-24.64	0
Married	-0.020	0.004272	-4.68	0	-0.020	0.004272	-4.68	0
Marital status Not Stated	-0.010	0.045201	-0.22	0.823	-0.010	0.045201	-0.22	0.823
C2005-2010	0.123	0.144443	0.99	0.32	-0.042	0.049122	-0.76	0.445
C2000-2004	-0.074	0.031	-1.83	0.067	-0.069	0.025318	-2.16	0.031
C1995-1999	-0.036	0.039062	-0.84	0.399	-0.062	0.024663	-2.06	0.04
C1990-1994	-0.098	0.019227	-3.38	0.001	-0.087	0.016026	-3.91	0
C1985-1989	-0.017	0.03777	-0.44	0.66	-0.083	0.02112	-2.9	0.004
C1980-1084	-0.056	0.032043	-1.48	0.138	-0.059	0.030202	-1.64	0.101
C1975-1979	-0.068	0.028341	-1.92	0.055	-0.055	0.035481	-1.32	0.187
C-B1974	-0.091	0.031792	-2.31	0.021	-0.101	0.030379	-2.57	0.01
North America Oceania X C2005-2010	-0.139	0.015432	-2.21	0.027	-0.104	0.044557	-1.39	0.164
South America X C2005-2010	-0.144	0.010213	-2.29	0.022	-0.121	0.035545	-1.56	0.119
Europe/Asia X C2005-2010	-0.102	0.049671	-1.26	0.209	0.194	0.186684	1.26	0.209
North America Oceania X C2000-2004	-0.021	0.070773	-0.28	0.779	-0.027	0.063087	-0.4	0.692
South America X C2000-2004	-0.087	0.054067	-1.12	0.261	-0.091	0.049411	-1.24	0.213
Africa X C2000-2004	0.551	0.187037	2.91	0.004	0.541	0.184199	2.95	0.003
Europe/Asia X C2000-2004	0.007	0.063126	0.11	0.913	-0.007	0.059473	-0.11	0.913
Not Stated X C2000-2004	0.105	0.114554	1.06	0.287	0.096	0.104269	1.06	0.289
North America Oceania X C1995-1999	-0.091	0.036506	-1.69	0.091	-0.073	0.041263	-1.36	0.175
South America X C1995-1999	-0.038	0.068031	-0.5	0.619	-0.008	0.074737	-0.1	0.917
Africa X C1995-1999	-0.093	0.044915	-1.38	0.168	-0.075	0.053227	-1.07	0.284
Europe/Asia X C1995-1999	-0.031	0.051008	-0.56	0.576	0.036	0.068561	0.56	0.576
Not Stated X C1995-1999	-0.062	0.048646	-1.04	0.299	-0.037	0.053669	-0.62	0.534
North America Oceania X C1990-1994	-0.001	0.065497	-0.01	0.989	-0.023	0.052808	-0.41	0.685

South America X C1990-1994	-0.024	0.057875	-0.38	0.7	-0.043	0.045881	-0.83	0.408
Africa X C1990-1994	0.235	0.122243	2.33	0.02	0.197	0.108533	2.19	0.028
Europe/Asia X C1990-1994	0.024	0.04432	0.57	0.566	-0.022	0.036104	-0.57	0.566
Not Stated X C1990-1994	0.132	0.083028	1.88	0.061	0.100	0.067095	1.71	0.087
North America Oceania X C1985-1989	-0.119	0.019823	-2.88	0.004	-0.082	0.036284	-1.64	0.101
South America X C1985-1989	-0.046	0.04036	-1	0.317	0.039	0.057068	0.74	0.461
Africa X C1985-1989	0.013	0.091797	0.15	0.884	0.124	0.121714	1.19	0.234
Europe/Asia X C1985-1989	-0.072	0.025239	-2.21	0.027	0.106	0.055301	2.21	0.027
Not Stated X C1985-1989	-0.062	0.046089	-1.09	0.275	0.016	0.069214	0.23	0.817
North America Oceania X C1980-1984	-0.014	0.049584	-0.27	0.789	-0.010	0.049024	-0.19	0.847
South America X C1980-1984	0.092	0.085434	1.23	0.22	0.097	0.084581	1.32	0.186
Africa X C1980-1984	0.147	0.097295	1.8	0.072	0.154	0.096032	1.91	0.057
Europe/Asia X C1980-1984	-0.004	0.040557	-0.1	0.918	0.004	0.04212	0.1	0.918
Not Stated X C1980-1984	0.049	0.073415	0.73	0.465	0.054	0.072757	0.82	0.412
North America Oceania X C1975-1979	-0.017	0.037365	-0.44	0.662	-0.033	0.040366	-0.74	0.458
South America X C1975-1979	-0.039	0.031823	-1.1	0.269	-0.053	0.03437	-1.31	0.19
Africa X C1975-1979	-0.024	0.05003	-0.45	0.649	-0.039	0.050089	-0.7	0.483
Europe/Asia X C1975-1979	0.019	0.040089	0.48	0.632	-0.017	0.034233	-0.48	0.632
Not Stated X C1975-1979	0.036	0.053974	0.72	0.47	0.017	0.056983	0.3	0.763
North America Oceania X C-B1974	0.030	0.014584	2.19	0.028	0.047	0.026043	1.95	0.051
South America X C-B1974	0.021	0.027892	0.78	0.437	0.037	0.035295	1.12	0.263
Africa X C-B1974	0.012	0.029229	0.44	0.663	0.028	0.03636	0.81	0.416
Europe/Asia X C-B1974	-0.014	0.017912	-0.75	0.453	0.015	0.020106	0.75	0.453
Not Stated X C-B1974	-0.028	0.014632	-1.8	0.071	-0.016	0.022673	-0.66	0.509
YSM	0.005	0.001842	2.52	0.012	0.005	0.001842	2.52	0.012
YSM2	0.000	1.73E-05	-2.69	0.007	0.000	1.73E-05	-2.69	0.007
Speak English	0.005	0.006855	0.8	0.426	0.005	0.006855	0.8	0.426
Speak French	0.000	0.006017	-0.08	0.937	0.000	0.006017	-0.08	0.937
Speak another Language	0.008	0.005878	1.3	0.195	0.008	0.005878	1.3	0.195
Does not speak French nor English	0.064	0.020774	3.43	0.001	0.064	0.020774	3.43	0.001
Number of years smoked	0.001	0.000108	7.81	0	0.001	0.000108	7.81	0
High School Graduate	-0.033	0.004521	-6.98	0	-0.033	0.004521	-6.98	0
Some PSE	0.001	0.006681	0.16	0.871	0.001	0.006681	0.16	0.871
PSE Graduate	-0.018	0.003888	-4.55	0	-0.018	0.003888	-4.55	0
Education Not Stated	0.056	0.019343	3.18	0.001	0.056	0.019343	3.18	0.001
Household Size	0.012	0.002078	5.64	0	0.012	0.002078	5.64	0
Number of kids under 12	-0.013	0.00609	-2.18	0.029	-0.013	0.00609	-2.18	0.029
Own home	-0.035	0.004718	-7.81	0	-0.035	0.004718	-7.81	0
Dividend income	-0.013	0.003725	-3.4	0.001	-0.013	0.003725	-3.4	0.001
Work	-0.161	0.004858	-33.58	0	-0.161	0.004858	-33.58	0
Old Age Security income	-0.016	0.004441	-3.61	0	-0.016	0.004441	-3.61	0
Social Assistance income	0.166	0.013616	14.57	0	0.166	0.013616	14.57	0
P/T Unemployment Rate	0.001	0.003429	0.39	0.697	0.001	0.003429	0.39	0.697
Year 2005	0.003	0.003153	1.01	0.312	0.003	0.003153	1.01	0.312
Year 2010	-0.088	0.005066	-15.58	0	-0.088	0.005066	-15.58	0

	<b>Europe Omitted</b>	<b>Asia Omitted</b>
Joint Chi2-Test Country of Birth Dummies		
Prob > Chi2		
Chi2-Test C2005-2010 C2000-2004 C1995-1999 C1990-1994 C1985-1989 C1980-1984 C1975-1979 C-B1974	17.41	24.86
Prob > Chi2	0.0261	0.0016
Chi2-Test Interactions terms with C2005-2010	7.42	7.42
Prob > Chi2	0.0597	0.0597
Chi2-Test Interactions terms with C2000-2004	12.95	12.95
Prob > Chi2	0.0239	0.0239
Chi2-Test Interactions terms with C1995-1999	4.24	4.24
Prob > Chi2	0.5151	0.5151
Chi2-Test Interactions terms with C1990-1994	9.85	9.85
Prob > Chi2	0.0796	0.0796
Chi2-Test Interactions terms with C1985-1989	10.89	10.89
Prob > Chi2	0.0536	0.0536
Chi2-Test Interactions terms with C1980-1984	5.92	5.92
Prob > Chi2	0.3137	0.3137
Chi2-Test Interactions terms with C1975-1979	2.93	2.93
Prob > Chi2	0.7107	0.7107
Chi2-Test Interactions terms with C-B1974	10.33	10.33
Prob > Chi2	0.0665	0.0665

Note: In the interaction terms, Europe/Asia means that Asia is the first part of the interaction term when Europe is omitted, and Europe is the first part of the interaction term when Asia is omitted.

**Table A-11: Pooled Cross Section Activity Limitation Regression for 45-64**

	Europe Omitted				Asia Omitted			
	ACTLIM	Robust Std. Err.	z	P>z	ACTLIM	Robust Std. Err.	z	P>z
NL	0.012	0.037054	0.34	0.737	0.012	0.037054	0.34	0.737
PEI	0.024	0.026613	0.96	0.339	0.024	0.026613	0.96	0.339
NS	0.017	0.011388	1.61	0.107	0.017	0.011388	1.61	0.107
NB	0.004	0.016685	0.23	0.816	0.004	0.016685	0.23	0.816
QC	-0.022	0.011415	-1.82	0.069	-0.022	0.011415	-1.82	0.069
MB	-0.016	0.008816	-1.76	0.079	-0.016	0.008816	-1.76	0.079
SK	-0.022	0.007281	-2.73	0.006	-0.022	0.007281	-2.73	0.006
AB	-0.020	0.006789	-2.7	0.007	-0.020	0.006789	-2.7	0.007
BC	-0.011	0.005067	-2.07	0.038	-0.011	0.005067	-2.07	0.038
YK	-0.034	0.010735	-2.67	0.007	-0.034	0.010735	-2.67	0.007
NWT	-0.011	0.020127	-0.5	0.614	-0.011	0.020127	-0.5	0.614
Nu	-0.029	0.026621	-0.96	0.338	-0.029	0.026621	-0.96	0.338
Urban	-0.006	0.004227	-1.49	0.136	-0.006	0.004227	-1.49	0.136
Age	0.020	0.006353	3.22	0.001	0.020	0.006353	3.22	0.001
Age2	0.000	5.81E-05	-3.22	0.001	0.000	5.81E-05	-3.22	0.001
Male	-0.058	0.00355	-16.39	0	-0.058	0.00355	-16.39	0
Married	-0.005	0.004593	-1.07	0.285	-0.005	0.004593	-1.07	0.285
Marital status Not Stated	-0.023	0.03964	-0.52	0.604	-0.023	0.03964	-0.52	0.604
C2005-2010	0.121	0.131582	1.16	0.245	-0.083	0.017031	-2.05	0.041
C2000-2004	-0.081	0.015007	-2.55	0.011	-0.081	0.012555	-3.05	0.002
C1995-1999	-0.033	0.030449	-0.93	0.353	-0.062	0.016096	-2.6	0.009
C1990-1994	-0.089	0.010637	-3.41	0.001	-0.074	0.014159	-3.03	0.002
C1985-1989	-0.039	0.033612	-0.97	0.332	-0.076	0.0168	-2.53	0.012
C1980-1084	-0.061	0.026614	-1.57	0.116	-0.060	0.027397	-1.52	0.129
C1975-1979	-0.071	0.023026	-1.87	0.061	-0.058	0.031274	-1.32	0.187
C-B1974	-0.082	0.027772	-1.94	0.053	-0.084	0.027473	-1.97	0.049
North America Oceania X C2005-2010	-0.096	0.006023	-2.43	0.015	-0.011	0.090755	-0.12	0.905
South America X C2005-2010	-0.097	0.003741	-2.51	0.012	-0.045	0.070587	-0.5	0.617
Europe/Asia X C2005-2010	-0.095	0.007329	-2.29	0.022	0.436	0.238643	2.29	0.022
North America Oceania X C2000-2004	0.081	0.107294	0.91	0.361	0.078	0.096161	0.97	0.331
Africa X C2000-2004	0.637	0.193566	3.25	0.001	0.633	0.187447	3.36	0.001
Europe/Asia X C2000-2004	0.002	0.068233	0.03	0.973	-0.002	0.065986	-0.03	0.973
Not Stated X C2000-2004	0.177	0.143719	1.62	0.106	0.173	0.130117	1.74	0.082
North America Oceania X C1995-1999	-0.069	0.022211	-1.81	0.07	-0.045	0.034154	-1.03	0.305
South America X C1995-1999	-0.038	0.048358	-0.65	0.517	0.003	0.069461	0.04	0.965
Europe/Asia X C1995-1999	-0.040	0.034454	-0.95	0.341	0.057	0.069718	0.95	0.341
Not Stated X C1995-1999	-0.031	0.038836	-0.69	0.488	0.013	0.053917	0.25	0.802
North America Oceania X C1990-1994	0.033	0.082901	0.43	0.664	-0.020	0.050641	-0.37	0.714
South America X C1990-1994	0.018	0.072376	0.26	0.792	-0.030	0.04251	-0.62	0.537

Africa X C1990-1994	0.194	0.134757	1.9	0.057	0.102	0.097456	1.29	0.197
Europe/Asia X C1990-1994	0.061	0.05825	1.23	0.218	-0.042	0.027415	-1.23	0.218
Not Stated X C1990-1994	0.222	0.102925	2.86	0.004	0.125	0.067077	2.35	0.019
North America Oceania X C1985-1989	-0.080	0.014854	-2.44	0.015	-0.052	0.031176	-1.22	0.222
South America X C1985-1989	-0.067	0.019929	-2.04	0.041	-0.024	0.037408	-0.57	0.569
Africa X C1985-1989	0.001	0.069444	0.01	0.99	0.092	0.106245	1.06	0.288
Europe/Asia X C1985-1989	-0.054	0.020295	-1.93	0.054	0.091	0.05746	1.93	0.054
Not Stated X C1985-1989	-0.060	0.03456	-1.16	0.248	-0.010	0.064236	-0.15	0.877
North America Oceania X C1980-1984	-0.002	0.044619	-0.05	0.957	-0.005	0.043217	-0.1	0.918
South America X C1980-1984	0.111	0.086506	1.61	0.108	0.108	0.084389	1.59	0.111
Africa X C1980-1984	0.149	0.100253	1.92	0.055	0.145	0.098118	1.9	0.057
Europe/Asia X C1980-1984	0.002	0.038022	0.06	0.954	-0.002	0.03685	-0.06	0.954
Not Stated X C1980-1984	0.046	0.069108	0.76	0.447	0.043	0.067364	0.73	0.467
North America Oceania X C1975-1979	0.006	0.034476	0.18	0.86	-0.019	0.033835	-0.51	0.607
South America X C1975-1979	-0.022	0.028496	-0.7	0.485	-0.041	0.026841	-1.24	0.215
Africa X C1975-1979	-0.029	0.041556	-0.61	0.544	-0.047	0.035481	-1.01	0.311
Europe/Asia X C1975-1979	0.029	0.038498	0.82	0.414	-0.024	0.026242	-0.82	0.414
Not Stated X C1975-1979	0.021	0.046668	0.49	0.626	-0.006	0.043663	-0.14	0.888
North America Oceania X C-B1974	0.021	0.01679	1.37	0.172	0.027	0.026887	1.08	0.281
South America X C-B1974	0.014	0.025862	0.58	0.562	0.019	0.032205	0.64	0.523
Africa X C-B1974	0.000	0.028558	0.01	0.995	0.005	0.034174	0.14	0.888
Europe/Asia X C-B1974	-0.004	0.019227	-0.23	0.821	0.005	0.020445	0.23	0.821
Not Stated X C-B1974	-0.011	0.018205	-0.6	0.547	-0.007	0.025005	-0.28	0.776
YSM	0.005	0.002854	1.91	0.056	0.005	0.002854	1.91	0.056
YSM2	0.000	3.44E-05	-1.85	0.064	0.000	3.44E-05	-1.85	0.064
Speak English	0.009	0.007143	1.21	0.226	0.009	0.007143	1.21	0.226
Speak French	-0.003	0.006323	-0.45	0.65	-0.003	0.006323	-0.45	0.65
Speak another Language	0.012	0.00692	1.74	0.083	0.012	0.00692	1.74	0.083
Does not speak French nor English	0.050	0.028389	2.03	0.042	0.050	0.028389	2.03	0.042
Number of years smoked	0.001	0.00012	6.15	0	0.001	0.00012	6.15	0
High School Graduate	-0.024	0.004952	-4.5	0	-0.024	0.004952	-4.5	0
Some PSE	0.000	0.00668	-0.06	0.956	0.000	0.00668	-0.06	0.956
PSE Graduate	-0.013	0.004461	-2.92	0.004	-0.013	0.004461	-2.92	0.004
Education Not Stated	0.004	0.019535	0.22	0.825	0.004	0.019535	0.22	0.825
Household Size	0.001	0.001841	0.54	0.592	0.001	0.001841	0.54	0.592
Number of kids under 12	0.003	0.004931	0.63	0.529	0.003	0.004931	0.63	0.529
Own home	-0.031	0.005757	-5.75	0	-0.031	0.005757	-5.75	0
Dividend income	-0.008	0.004321	-1.71	0.087	-0.008	0.004321	-1.71	0.087
Work	-0.167	0.005844	-34.3	0	-0.167	0.005844	-34.3	0
Old Age Security income	0.008	0.006182	1.35	0.177	0.008	0.006182	1.35	0.177
Social Assistance income	0.118	0.012443	11.92	0	0.118	0.012443	11.92	0
P/T Unemployment Rate	-0.004	0.003757	-1.03	0.301	-0.004	0.003757	-1.03	0.301
Year 2005	0.017	0.003489	4.87	0	0.017	0.003489	4.87	0
Year 2010	-0.045	0.005781	-7.13	0	-0.045	0.005781	-7.13	0

	<b>Europe Omitted</b>	<b>Asia Omitted</b>
Joint Chi2-Test Country of Birth Dummies		
Prob > Chi2		
Chi2-Test C2005-2010 C2000-2004 C1995-1999 C1990-1994 C1985-1989 C1980-1984 C1975-1979 C-B1974	19.19	27.03
Prob > Chi2	0.0139	0.0007
Chi2-Test Interactions terms with C2005-2010	8.78	8.78
Prob > Chi2	0.0324	0.0324
Chi2-Test Interactions terms with C2000-2004	13.95	13.95
Prob > Chi2	0.0075	0.0075
Chi2-Test Interactions terms with C1995-1999	3.33	3.33
Prob > Chi2	0.5044	0.5044
Chi2-Test Interactions terms with C1990-1994	11.32	11.32
Prob > Chi2	0.0455	0.0455
Chi2-Test Interactions terms with C1985-1989	9.33	9.33
Prob > Chi2	0.0967	0.0967
Chi2-Test Interactions terms with C1980-1984	6.83	6.83
Prob > Chi2	0.2336	0.2336
Chi2-Test Interactions terms with C1975-1979	2.26	2.26
Prob > Chi2	0.8123	0.8123
Chi2-Test Interactions terms with C-B1974	2.88	2.88
Prob > Chi2	0.7192	0.7192

Note: In the interaction terms, Europe/Asia means that Asia is the first part of the interaction term when Europe is omitted, and Europe is the first part of the interaction term when Asia is omitted.

**Table A-12: Pooled Cross Section Activity Limitation Regression for 65+**

	ACTLIM	Europe Omitted Robust Std. Err.	z	P>z	ACTLIM	Asia Omitted Robust Std. Err.	z	P>z
NL	-0.116	0.044775	-2.26	0.024	-0.116	0.044775	-2.26	0.024
PEI	-0.063	0.034097	-1.73	0.083	-0.063	0.034097	-1.73	0.083
NS	0.025	0.017711	1.42	0.155	0.025	0.017711	1.42	0.155
NB	-0.032	0.024454	-1.29	0.196	-0.032	0.024454	-1.29	0.196
QC	-0.054	0.019007	-2.79	0.005	-0.054	0.019007	-2.79	0.005
MB	0.013	0.017571	0.72	0.472	0.013	0.017571	0.72	0.472
SK	-0.007	0.01411	-0.5	0.615	-0.007	0.01411	-0.5	0.615
AB	-0.006	0.014016	-0.4	0.687	-0.006	0.014016	-0.4	0.687
BC	-0.020	0.009027	-2.23	0.026	-0.020	0.009027	-2.23	0.026
YK	0.028	0.04456	0.65	0.516	0.028	0.04456	0.65	0.516
NWT	0.074	0.049148	1.57	0.117	0.074	0.049148	1.57	0.117
Nu	0.026	0.085015	0.31	0.759	0.026	0.085015	0.31	0.759
Urban	0.009	0.007228	1.17	0.241	0.009	0.007228	1.17	0.241
Age	-0.062	0.010301	-6.02	0	-0.062	0.010301	-6.02	0
Age2	0.001	6.75E-05	8.13	0	0.001	6.75E-05	8.13	0
Male	-0.127	0.006541	-19.03	0	-0.127	0.006541	-19.03	0
Married	-0.060	0.009196	-6.65	0	-0.060	0.009196	-6.65	0
Marital status Not Stated	0.059	0.121247	0.5	0.614	0.059	0.121247	0.5	0.614
C2005-2010	0.004	0.250838	0.02	0.987	0.506	0.126455	2.99	0.003
C2000-2004	0.116	0.148075	0.82	0.411	0.234	0.11264	2.15	0.032
C1995-1999	-0.108	0.092491	-1.03	0.304	0.024	0.082842	0.29	0.768
C1990-1994	0.043	0.093962	0.46	0.643	-0.055	0.05921	-0.88	0.377
C1985-1989	0.097	0.111535	0.91	0.365	-0.030	0.079134	-0.37	0.711
C1980-1084	0.009	0.103849	0.08	0.933	0.013	0.093352	0.14	0.892
C1975-1979	0.050	0.106651	0.48	0.629	-0.045	0.094283	-0.46	0.645
C-B1974	0.006	0.106704	0.05	0.957	-0.055	0.101433	-0.53	0.599
Europe/Asia X C2005-2010	0.503	0.232125	1.63	0.103	-0.275	0.05656	-1.63	0.103
North America Oceania X C2000-2004	-0.282	0.031922	-2.51	0.012	-0.294	0.015569	-3.31	0.001
South America X C2000-2004	0.173	0.249057	0.73	0.466	0.058	0.21513	0.28	0.782
Africa X C2000-2004	0.507	0.203848	1.85	0.064	0.417	0.238841	1.55	0.122
Europe/Asia X C2000-2004	0.111	0.178053	0.65	0.516	-0.095	0.131412	-0.65	0.516
Not Stated X C2000-2004	0.366	0.281102	1.23	0.22	0.253	0.289567	0.89	0.372
North America Oceania X C1995-1999	-0.125	0.169924	-0.63	0.532	-0.212	0.100217	-1.34	0.179
South America X C1995-1999	0.193	0.245424	0.82	0.41	0.035	0.20826	0.17	0.865
Africa X C1995-1999	0.419	0.28183	1.31	0.189	0.269	0.317293	0.86	0.389
Europe/Asia X C1995-1999	0.155	0.155567	1.04	0.296	-0.126	0.102401	-1.04	0.296
Not Stated X C1995-1999	-0.117	0.151363	-0.67	0.503	-0.207	0.087278	-1.55	0.122
North America Oceania X C1990-1994	0.013	0.141839	0.09	0.926	0.119	0.139985	0.89	0.371
South America X C1990-1994	-0.147	0.094886	-1.25	0.211	-0.069	0.108045	-0.6	0.549

Africa X C1990-1994	0.335	0.180079	1.81	0.071	0.434	0.145624	2.57	0.01
Europe/Asia X C1990-1994	-0.091	0.074644	-1.1	0.269	0.105	0.099321	1.1	0.269
Not Stated X C1990-1994	-0.192	0.08449	-1.59	0.112	-0.129	0.104797	-1.04	0.3
North America Oceania X C1985-1989	-0.251	0.059118	-2.02	0.043	-0.201	0.09294	-1.45	0.146
South America X C1985-1989	0.236	0.169215	1.44	0.151	0.369	0.142209	2.44	0.015
Africa X C1985-1989	0.305	0.229326	1.32	0.186	0.431	0.188222	1.99	0.047
Europe/Asia X C1985-1989	-0.110	0.080608	-1.2	0.231	0.131	0.114957	1.2	0.231
Not Stated X C1985-1989	0.091	0.167686	0.57	0.571	0.229	0.160271	1.48	0.139
North America Oceania X C1980-1984	-0.007	0.160089	-0.04	0.967	-0.010	0.153303	-0.07	0.946
South America X C1980-1984	-0.080	0.12807	-0.58	0.564	-0.084	0.121533	-0.63	0.529
Africa X C1980-1984	0.024	0.191336	0.13	0.898	0.020	0.184697	0.11	0.912
Europe/Asia X C1980-1984	0.004	0.095697	0.04	0.968	-0.004	0.094648	-0.04	0.968
Not Stated X C1980-1984	-0.077	0.131103	-0.54	0.589	-0.080	0.124261	-0.59	0.554
North America Oceania X C1975-1979	-0.117	0.100328	-1.01	0.314	-0.035	0.12447	-0.27	0.785
South America X C1975-1979	-0.123	0.094982	-1.11	0.267	-0.043	0.118242	-0.35	0.726
Africa X C1975-1979	0.064	0.152024	0.43	0.664	0.170	0.161858	1.1	0.271
Europe/Asia X C1975-1979	-0.088	0.069936	-1.14	0.253	0.101	0.092249	1.14	0.253
Not Stated X C1975-1979	0.029	0.144148	0.2	0.839	0.133	0.157198	0.89	0.376
North America Oceania X C-B1974	0.028	0.027873	1.01	0.311	0.094	0.048343	2.03	0.042
South America X C-B1974	0.025	0.065709	0.38	0.701	0.091	0.079794	1.19	0.233
Africa X C-B1974	0.014	0.061275	0.22	0.822	0.079	0.074808	1.1	0.271
Europe/Asia X C-B1974	-0.059	0.032874	-1.7	0.089	0.064	0.038458	1.7	0.089
Not Stated X C-B1974	-0.066	0.026675	-2.33	0.02	-0.008	0.045011	-0.18	0.859
YSM	0.001	0.003845	0.31	0.753	0.001	0.003845	0.31	0.753
YSM2	0.000	0.000034	-0.62	0.533	0.000	0.000034	-0.62	0.533
Speak English	-0.006	0.014087	-0.44	0.658	-0.006	0.014087	-0.44	0.658
Speak French	0.008	0.011138	0.73	0.468	0.008	0.011138	0.73	0.468
Speak another Language	0.006	0.010285	0.63	0.527	0.006	0.010285	0.63	0.527
Does not speak French nor English	0.044	0.030513	1.49	0.137	0.044	0.030513	1.49	0.137
Number of years smoked	0.001	0.000196	4.55	0	0.001	0.000196	4.55	0
High School Graduate	-0.050	0.009064	-5.32	0	-0.050	0.009064	-5.32	0
Some PSE	0.004	0.015068	0.29	0.769	0.004	0.015068	0.29	0.769
PSE Graduate	-0.021	0.007457	-2.83	0.005	-0.021	0.007457	-2.83	0.005
Education Not Stated	0.146	0.034651	4.42	0	0.146	0.034651	4.42	0
Household Size	0.056	0.006851	8.31	0	0.056	0.006851	8.31	0
Number of kids under 12	-0.103	0.023085	-4.47	0	-0.103	0.023085	-4.47	0
Own home	-0.048	0.007846	-6.27	0	-0.048	0.007846	-6.27	0
Dividend income	-0.025	0.006655	-3.67	0	-0.025	0.006655	-3.67	0
Work	-0.138	0.011062	-10.81	0	-0.138	0.011062	-10.81	0
Old Age Security income	0.048	0.009928	4.68	0	0.048	0.009928	4.68	0
Social Assistance income	0.175	0.028027	6.55	0	0.175	0.028027	6.55	0
P/T Unemployment Rate	0.013	0.00631	2.13	0.033	0.013	0.00631	2.13	0.033
Year 2005	-0.038	0.006387	-5.85	0	-0.038	0.006387	-5.85	0
Year 2010	-0.198	0.009365	-19.18	0	-0.198	0.009365	-19.18	0

	<b>Europe Omitted</b>	<b>Asia Omitted</b>
Joint Chi2-Test Country of Birth Dummies		
Prob > Chi2		
Chi2-Test C2005-2010 C2000-2004 C1995-1999 C1990-1994 C1985-1989 C1980-1984 C1975-1979 C-B1974	3.75	15.99
Prob > Chi2	0.8792	0.0425
Chi2-Test Interactions terms with C2005-2010	--	--
Prob > Chi2	--	--
Chi2-Test Interactions terms with C2000-2004	18.12	18.12
Prob > Chi2	0.0028	0.0028
Chi2-Test Interactions terms with C1995-1999	5.76	5.76
Prob > Chi2	0.33	0.33
Chi2-Test Interactions terms with C1990-1994	10.53	10.53
Prob > Chi2	0.0615	0.0615
Chi2-Test Interactions terms with C1985-1989	14	14
Prob > Chi2	0.0156	0.0156
Chi2-Test Interactions terms with C1980-1984	0.75	0.75
Prob > Chi2	0.9802	0.9802
Chi2-Test Interactions terms with C1975-1979	3.58	3.58
Prob > Chi2	0.6114	0.6114
Chi2-Test Interactions terms with C-B1974	9.76	9.76
Prob > Chi2	0.0823	0.0823

Note: In the interaction terms, Europe/Asia means that Asia is the first part of the interaction term when Europe is omitted, and Europe is the first part of the interaction term when Asia is omitted.