



# Panel Study of Income Dynamics Technical Paper Series

## An Analysis of the Quality of the Health Data in the Panel Study of Income Dynamics

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# **AN ANALYSIS OF THE QUALITY OF THE HEALTH DATA IN THE PANEL STUDY OF INCOME DYNAMICS**

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## **I. INTRODUCTION**

In recent years the Panel Study of Income Dynamics (PSID) has expanded the set of health related questions. In 2007, nearly 18 minutes of the 80-minute questionnaire was devoted to health status, health conditions, health behaviors, health insurance, and health care expenditures. A series of retrospective questions was added to the 2007 PSID asking for information about the occurrence of childhood health conditions and start and end ages of these conditions. The ages that the conditions started and ended were obtained through the use of an event history calendar. The quality of these data have been recently assessed (Smith, 2009). These additions have uniquely positioned the PSID to enhance our understanding of the life course effects of early-life circumstances on health, economic well-being, and mortality in later life. The PSID is poised to become the only data ever collected on life course and multigenerational health in a long-term panel representative of the full U.S. population.

The objective of this report is to provide an initial assessment of the quality of the health data that have been collected thus far. Specifically, the report compares estimates of health in the PSID with estimates from the most widely used nationally representative health survey, the National Health Interview Survey (NHIS). The PSID and NHIS are compared on three dimensions: the extent of item non-response, prevalence of various health outcomes, and parameter estimates of the association between socio-demographic factors and health status.

We begin the report by briefly summarizing the health information that has been collected throughout the 39-year history of the PSID, which is quite extensive. The subsequent section discusses measures of health that will be compared between the two surveys, with a focus on the specific question wording for each measure. The estimates in each survey are then discussed. In general, we find that the two surveys align fairly closely.

## **II. OVERVIEW OF HEALTH DATA IN THE PSID**

The PSID began to expand its health content in the 1990s. As shown in Table 1, a wide array of data on health status, health conditions, health insurance, health behaviors, and health care costs are currently being collected. However, several health-related questions have been asked at various points in the more distant past, with some items collected in each and every year since the survey began in 1968. The data have been relatively underutilized, offering the unique opportunity to study changes in health, and the relationship between health status and socio-economic outcomes, which is extensively measured in PSID.

As an example, height, weight, smoking, and alcohol consumption were collected in 1986, and then beginning in 1999 they have been asked in each wave through the collection of 2009 data (being collected through the calendar year 2009). These data allow assessments of individual level changes in these outcomes over a 20+ year period, which is not possible in any other national panel dataset. Moreover, because the PSID identifies respondents who die between waves, mortality over the 39-year history can be examined for over 5,000 panel members who have died. A measure of emotional distress in the past 30 days (Kessler et al. 2002) that is also included in the NHIS was added to the PSID in 2001 and 2003, and then continued in 2007. In sum, the PSID is best known for research on the dynamics of income, employment, and poverty. However, the PSID has tremendous potential to examine many health-related questions, and the number of publications in this area is increasing rapidly.

### III. THE SURVEYS

We compare data collected from the PSID over five waves - 1999, 2001, 2003, 2005, and 2007 - with the same years of the NHIS. 2009 data from the 35<sup>th</sup> wave of the PSID is being collected as of this writing. The NHIS consists of a nationally representative sample of the civilian noninstitutionalized population. The survey collects basic health and demographic information for all household members. More detailed health information is collected for one sample adult aged 18 or older and one sample child aged 0-17 per family.

The PSID is a nationally representative panel study that began in 1968. Families were interviewed annually until 1997, and biennially thereafter. A sample of immigrants was added in 1997 to make the sample representative of families who arrived in the US after the PSID began in 1968. Most of the health questions are asked of the head and wife. The sample of heads and wives is representative of the national adult population.

It is beyond the scope of this report to examine each and every one of the dozens of health-related measures; therefore, we focus on several of the most salient items. Fourteen items are compared. The health status measures examined include height, weight, work limitation, 30-day emotional distress (except 2005), six specific conditions (stroke, hypertension, diabetes, cancer, myocardial infarction, and asthma), and self-rated general health (excellent, very good, good, fair, and poor). In addition, whether the person currently smokes, has ever smoked, and whether they have health insurance are compared between the two surveys. See Levy (2007) for a closer examination of the PSID health insurance data.

Table 2 reports the exact question wording used in each of the two surveys. The questions are almost identical for most measures, particularly for height, weight, work limitation, 30-day emotional distress, health conditions, and self-rated general health. NHIS explicitly asks respondents their height and weight without their shoes, so we might expect to see slightly higher values in the PSID. For doctor diagnosed conditions, NHIS includes not only doctors but "other health professionals," which might also lead to a slightly higher prevalence in the NHIS. The NHIS's question on work limitation includes "emotional problems" as a cause, while PSID does not, although it does include "nervous condition."

Smoking and health insurance are not as similar in the two surveys. The NHIS has a threshold of 100 cigarettes in order for someone to be considered having ever smoked, while the PSID does not. For current smoking behavior, the PSID simply asks whether they smoke now. The NHIS asks people how often they smoke cigarettes, with one option being "not at all;" we code people with this response as not currently smoking.

All statistics shown in the report utilize the weights available in each survey.

### IV. RESULTS

Based on the data from five waves of data collected from the NHIS and PSID in 1999, 2001, 2003, 2005 and 2007, the analysis addresses three issues: comparisons of item non-response rates; comparisons of prevalence estimates; comparability of parameter estimates in multivariate models. In this section we report our findings on each issue in turn.

#### Item Non-Response

Table 3 reports estimates of item non-response in PSID and NHIS, 1999-2007. Item non-response includes responses of "not ascertained" (NA), "refused" (RF), or "don't know" (DK). In addition, NHIS occasionally uses the code "not available" for unknown observations. All unknowns are coded separately in NHIS. Contrary to NHIS, PSID usually gives the same code to NA and RF. To make comparison meaningful we combined together NA, RF and "not available" observations in NHIS. Note also that the question on smoking was excluded from this analysis since there is no direct correspondence between NHIS and PSID on these measures.

Across the five waves of data collected, we find that item non-response is low in the PSID, with never more than 1% of the sample not providing answers. The only exception is for weight, which had an item non-response rate ranging from 2.2% in 1999 to 3.1% in 2003. However, in the NHIS the non-response rate for weight, and most other measures, was much higher: for weight it ranged from 8.4% in 1999 to 4.9% in 2007. The low item non-response in the PSID is likely due to the fact that many of the PSID respondents have been interviewed for many years, and they have been convinced that the study leads to valuable research and their identity will be kept secure.

### **Estimates of health status, health behaviors, and health insurance**

Table 4 reports the estimates of health measures in the two surveys. Despite the slight differences in question wording, estimates of smoking, health insurance coverage, and obesity are very similar between NHIS and PSID. Rates of obesity in the adult population are nearly identical in the two studies across all five waves of data collection, ranging from 21-26 percent. Figure 1 examines the estimates more closely by providing estimates of the full distribution of height and weight in 2005. Both PSID and NHIS measures are based on self-report. For each measure, the two distributions are very similar.

The share who is not work limited is higher in the NHIS consistently across all five waves, which is not what would be expected given the slight differences in the questions. In general, the prevalence of the specific conditions aligns fairly closely. There is a substantial increase in the percent of the adult population reporting asthma between 1999 and 2001 in both studies, although the rise in 2001 is higher in the NHIS. The rates of hypertension are nearly identical in the two studies and show a modest increase as they rise from 22 percent to 30 percent 1999-2007. Rates of serious mental illness as assessed by the K6 are nearly identical in the two survey in 2001, while PSID finds a substantial increase in 2003 and 2007, compared to NHIS.

The PSID finds fewer people reporting themselves in excellent health relative to the NHIS. While 29-32 percent of the adult population is in excellent health according to the NHIS, the estimate is only approximately 19-23 percent according to PSID.

We investigated several potential explanations for this difference. First, we compared the demographic characteristics of the weighted populations. As shown in Table 5, the gender and racial composition of the samples are quite similar. However, the PSID is slightly older. Therefore, we examined age-specific estimates of self-rated general health status, with the results reported in Table 6. Age differences do not explain the disparity in self-reported general health status; within every age group, the PSID sample has a lower proportion that is in excellent health.

The NHIS is a single cross-section, while most PSID respondents have been interviewed for many years. To explore whether repeated measurement of health status somehow affected reporting, we tabulated this measure using the 1984 data, which was the first year this question was asked. We also reported estimates using the 1994 data to investigate whether there was any drift over time in the response to the questions. As shown in Table 7, the distribution of responses is virtually unchanged over the period.

As a final test, we compared the two surveys with a third widely used survey, the Health and Retirement Survey (HRS). We restricted the sample to the population 51-61, with the estimates for each of the three surveys reported in Table 8. We find that the PSID and HRS align fairly closely. It is the NHIS that is somewhat of an outlier. It is unclear what is causing the differences across the surveys, particularly since all three use the identical question. Additional analyses should be conducted to understand the source of these disparities.

### **Multivariate models**

Table 9 contains results from 10 separate logistic regression models for each wave of PSID and NHIS. The dependent variable in each model is an indicator for whether the person is in fair

or poor health. The explanatory factors include age, race, sex, marital status, and education. The parameter estimates for age, marital status, education, and black race are very similar in the two surveys. The differences between “other” races and whites, and the differences between men and women do not align as closely, especially since 2003, with somewhat larger disparities estimated in the PSID. In sum, the models lead to fairly similar estimates, although the racial and gender differences merit further investigation.

### **Individual level changes in health status**

Table 10 reports change in health status between 1999 and 2001 measured along three dimensions: poor/fair health, work limitation, and obesity. Estimates are provided for heads and wives of all ages, and separately for people under and over age 51. As expected, the prevalence of work limitations and being in fair or poor health is much higher for older people. Moreover, older people have higher onset and less recovery than younger populations. Furthermore, there is substantial change between waves even among the younger (pre-HRS) populations. Among the younger population, nearly 6% who were not in fair/poor health in 1999 fell into fair/poor health by 2001, while at the same time nearly 41% of those who were in fair/poor health recovered. Similar magnitudes of change were experienced as measured by work limitations. Relative to self-reported general health and work limitations, the onset of obesity is higher, and recovery lower. In sum, a substantial share of the PSID sample experiences important changes in health status within the two-year period between interviews, even among the younger population, implying that it is important to assess health status in each wave. Although not all dimensions of health status measured in the PSID probably change as quickly, designing the instrument to skip those persons or items not likely to have frequent changes would result in very modest savings in interview time.

## **V. CONCLUSIONS**

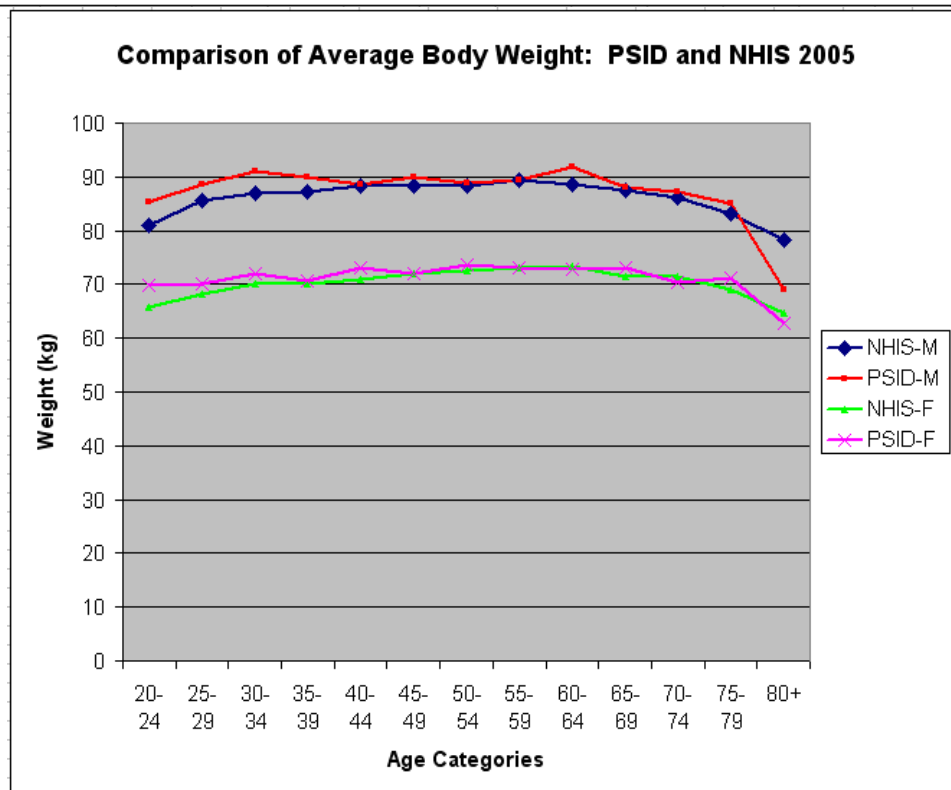
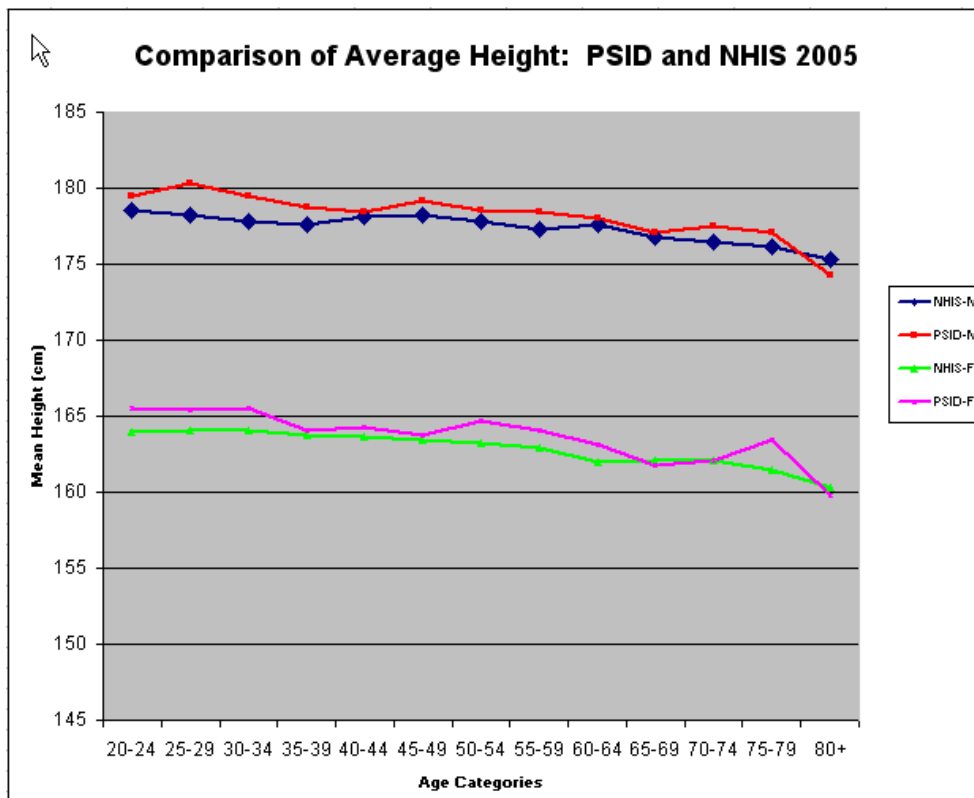
The PSID and the NHIS are very different surveys. The NHIS consists of a fresh cross-section of roughly 100,000 individuals each year. The PSID has been interviewing the same core families since 1968, as well as the children in these families once they leave their parent's homes. Despite these differences, the health-related measures in the two surveys align fairly closely. Moreover, multivariate estimates of the relationship between health status and several socio-demographic factors are in close agreement.

Our interpretation of this evidence is that the quality of the health-related information collected in the PSID is relatively high. However, continued monitoring and assessment is required to ensure that the survey accurately assesses the most salient health outcomes.

## **VI. REFERENCES**

- Kessler, RC, Andrews, G, et al., 2002. Short screening scales to monitor population prevalences and trends in non-specific psychological distress. *Psychological Medicine* 32: 959-76.
- Levy, H., 2007. Health insurance data and the PSID. *PSID Technical Paper Series #07-05*  
[http://psidonline.isr.umich.edu/Publications/Papers/tsp/2007-05\\_PSID\\_Health\\_Insurance\\_Data\\_Documentation.pdf](http://psidonline.isr.umich.edu/Publications/Papers/tsp/2007-05_PSID_Health_Insurance_Data_Documentation.pdf)
- Smith, James, 2009. Reconstructing childhood health histories. *Demography* 46 (2): 387-403.

Figure 1. Comparison of Estimates of Average Height and Weight, by Sex, in the PSID and NHIS, 2005



**Table 1. Summary of Health Status and Health Behavior Measures in the PSID: 1968-2009**

<b>Measure of health status or health behavior</b>	<b>Family member and years available: H=head, W=wife, FUM=Family members</b>
<b>General health status, height, weight, cognition</b>	
General health status (5-point scale)	H, W: 84-09
General health status when < 17 years old	H, W: 99-03, 09
Miss one month or more of school due to health problem from birth to age 16?	H, W: 05-09
Health better/worse than people your own age?	H, W: 86
Health better/worse than 2 years ago?	H, W: 84-87, 05-09
Expect health to be better/worse 2 years from now?	H, W: 86
Height & weight	H, W: 86, 99-09
Cognition/vocabulary tests: 14 questions	H: 72
<b>ADL/IADL-type measures</b>	
Difficulty doing each of the following by self, without equipment?	
bathing or showering	H, W 55+: 92-96, 99-01; All FUM 55+: 92-96; H, W all ages: 03-09
dressing	H, W 55+: 92-96, 99-01; All FUM 55+: 92-96; H, W all ages: 03-09
in or out of bed or chair	H, W 55+: 92-96, 99-01; All FUM 55+: 92-96; H, W all ages: 03-09
walking	H, W 55+: 92-96, 99-01; All FUM 55+: 92-96; H, W all ages: 03-09
getting outside	H, W 55+: 92-96, 99-01; All FUM 55+: 92-96; H, W all ages: 03-09
using the toilet	H, W 55+: 92-96, 99-01; All FUM 55+: 92-96; H, W all ages: 03-09
if yes to any of the above, anyone help you do these activities?	H, W 55+: 92-96, 99-01; All FUM 55+: 92-96; H, W all ages: 03-09
Any difficulty doing the following by yourself?	
preparing meals	All FUM 55+: 92-96
shopping for personal toilet items or medicine	All FUM 55+: 92-96
managing own money	All FUM 55+: 92-96
using the telephone	All FUM 55+: 92-96
doing heavy housework	All FUM 55+: 92-96
doing light housework	All FUM 55+: 92-96
Trouble walking several blocks or climbing stairs?	H, W: 86
Trouble bending/lifting/stooping?	H, W: 86
Health keep you from driving?	H, W: 86
Receive assistance when travel in community?	H, W: 86
Have to stay indoors most/all of the time because of health?	H, W: 86
Confined to bed or chair most of day because of health?	H, W: 86
<b>Specific health conditions</b>	
Doctor ever told you that you have...	H, W: 99-09
stroke	H, W: 99-09
high blood pressure	H, W: 99-09
diabetes	H, W: 99-09
cancer or malignant tumor, excluding skin cancer	H, W: 99-09
if yes, whether in treatment, remission, or cured; what type	H, W: 05-09
chronic lung disease	H, W: 99-09
heart attack	H, W: 99-09
coronary heart disease, angina, congestive heart failure	H, W: 99-09
emotional, nervous, psychiatric problem	H, W: 99-09
if yes, specify diagnosis	H, W: 05-09
arthritis	H, W: 99-09
asthma	H, W: 99-09
permanent loss of memory or mental ability	H, W: 99-09
How long had each condition?	H, W: 99-09
How much does each condition limit normal daily activities?	H, W: 99-09
Problems with eyesight that cannot be corrected with glasses?	H, W: 86

Table 1 (Continued). Summary of Health Status and Health Behavior Measures in the PSID: 1968-2009

Measure of health status or health behavior	Family member and years available: H=head, W=wife, FUM=Family members
<b>Childhood health diseases (before age 17)</b>	
Whether had, and if yes, start age and end age (or still ongoing):	H, W: 09
measles	H, W: 09
mumps	H, W: 09
chicken pox	H, W: 09
difficulty seeing even with glass or prescription lenses	H, W: 09
diabetes	H, W: 09
respiratory disorder	H, W: 09
speech impairment	H, W: 09
allergic condition	H, W: 09
heart trouble	H, W: 09
chronic ear problems or infections	H, W: 09
epilepsy or seizures	H, W: 09
severe headaches or migraines	H, W: 09
stomach problems	H, W: 09
high blood pressure	H, W: 09
depression	H, W: 09
drug or alcohol problems	H, W: 09
other emotional or psychological problem	H, W: 09
Whether one or both parents smoked	H, W: 09
<b>Emotional Well-being and Mental health</b>	
Overall life satisfaction	Respondent: 09
30-day depression/anxiety (K6 short screening scale)	Respondent: 01-03, 07, 09
12-mo. major depression screener (from the Composite International Diagnostic Interview)	Respondent: 03
<b>Work/activity limitations</b>	
Physical or nervous condition that limits work?	H: 68-09 (73-75, only asked of new heads); W: 78, 81-09; All FUM 78
Severity of limitation (a lot, little, etc..)	H: 76-09; W: 78, 81-09; All FUM 78
How long had condition?	H: 69-75, 78 (73-75, only asked of new heads); W: 78; All FUM 78
Do you expect to get better?	All FUM: 78
Is your health getting better?	H: 69-75 (73-75, only asked of new heads)
Do you require a lot of extra care by someone? Does this mean extra costs?	All FUM: 78
Does your health limit the work you can do around the house?	H: 69-71
Not working or not going to school because of poor health?	All FUM: 69-72
Health condition limits kind of demanding physical activities?	H, W: 86
Anyone else in family who requires a lot of extra care? Who is that?	69-72, 76-77
Anyone else in the family not in good health? Who is that?	FUM: 90-91, 96; FUM 55+ 92-95
Permanently (or temporarily, starting in 1993) disabled	H: 76-09; W: 79-09
Ever had illness or accident that laid you up for month or more?	H: 68
Miss work last year because family member sick? Who was it? How many days?	H: 76-09; W 77-09
Miss worked because sick? How much?	H: 76-09; W 77-09
How many days work missed on main job in last year because sick or otherwise unable to work	H: 68
Miss any work last year because you or someone in family sick? How much?	H employed: 68-75
Number of weeks sick last year	H unemployed: 68-75

**Table 1 (Continued). Summary of Health Status and Health Behavior Measures in the PSID: 1968-2009**

Measure of health status or health behavior	Family member and years available: H=head, W=wife, FUM=Family members
<b>Health behaviors</b>	
Currently smoke? How many packs?	H, W: 86, 99-09
Ever smoked? How much?	H, W: 86, 99-09
How old when first started?	H, W: 86, 99-09
How old when last stopped?	H, W: 86, 99-09
Anyone in family smoke? How many packs family smoke?	68-72
How often participate in light physical activity	H, W: 99-09
How often participate in heavy physical activity?	H, W: 99-09
How often participate in muscle strengthening activity?	H, W: 05-09
Ever drink alcohol? How much?	H, W: 99-09
Binge drinking (gender-specific)	H, W: 05-09
Depression supplement	H: 01-03, 09
Exercise regularly? How often?	H, W: 86
<b>Hospital, nursing care</b>	
Patient in hospital last year? Number of nights?	H, W: 81, 83-87, 99-09
Any illness or injury keep you in bed for all or most of a day last year? Number of days?	H, W: 81
Paid nurse come to home this year?	All FUM 55+: 92-96, 03-09
Resident in nursing home past year?	All FUM 55+: 92-96, 03-09
Ever been resident in nursing home?	All FUM 55+: 92-96, 03-09
<b>Participation in health-related transfer programs</b>	
Workers' Compensation	Each FUM (best for H): 77-09
SS/DI	Each FUM (best for H): 84-09
<b>Parents' health status</b>	
Parents alive? Date of death?	H, W: 88
General health status of mother/father relative to people their age	H, W: 88
Does your father/mother require a lot of extra care because of health condition?	H, W: 88
Are your mother/father living in a nursing home?	H, W: 88
<b>Special Supplements</b>	
<b>1990 health supplement, self-administered questionnaire mailed to H and W 50+</b>	
Content: General health status, limited in various activities, limitation more than 3 months, depression, health limit social activities, hospitalized/treated for mental or emotional problems, various conditions, height, weight, exercise regularly, smoking.	
<b>1991 parent health supplement; H and W's mother and father</b>	
Content: alive, date of death, various conditions now or at death.	
<b>1993-95 health care burden supplement; FUM 55+ and parents of H/W 55+</b>	
Parents' information: alive, date of death, age, received home-care last year, in nursing home last year.	

Table 2. Comparison of Question Wording in the 1999 PSID and 1999 NHIS

Item	PSID	NHIS
Height	How tall [are you/is he/is she]?	How tall are you without shoes?
Weight	About how much [do you/does he/does she] weigh?	How much do you weigh without shoes?
Health limits work	[Do you/Does he/Does she] have any physical or nervous condition that limits the type of work or the amount of work [you/he/she] can do?	Are/(Other than the persons mentioned), are any of these family members{PERSONS 18+} limited in the kind OR amount of work {you/they} can do because of a physical, mental or emotional problem?
Conditions	Has a doctor ever told [you/him/her] that [you have/he has/she has] or had any of the following... A stroke? High blood pressure or hypertension? Diabetes or high blood sugar? Cancer or a malignant tumor, excluding skin cancer? A heart attack? Asthma?	Have you EVER been told by a doctor or other health professional that you had/have... A stroke? Hypertension,also called high blood pressure? Diabetes or sugar diabetes? Cancer or a malignancy of any kind? A heart attack (also called myocardial infarction)? Asthma?
Self-rated general health	Would you say [your/his/her] health in general is excellent, very good, good, fair, or poor?	Would you say {subject's name } health in general is excellent, very good, fair, or poor?
Smoking	Did [you/he/she] ever smoke cigarettes?  [Do you/Does Q56] smoke cigarettes?	Have you smoked at least 100 cigarettes in your ENTIRE LIFE?  Do you NOW smoke cigarettes every day,some days or not at all?
Insurance	In 1997 or 1998, was anyone in the family covered by health insurance or some other kind of health care plan? (Including health insurance obtained through employment or purchased directly as well as government programs like Medicare and Medicaid that provide medical care or help pay medical bills.) For how many months in 1998[were you/was he/was she] covered?	{Are you/Is anyone} covered by health insurance or some other kind of health care plan? INSTRUCTIONS:Read if necessary: include health insurance obtained through employment or purchased directly as well as government programs like medicare and medicaid that provide medical care or help pay medical bills.

**Table 3. Item Non-response Rates (%) in PSID and NHIS, 1999, 2001, 2003, 2005 and 2007**

	PSID 1999		NHIS 1999		PSID 2001		NHIS 2001		PSID 2003		NHIS 2003		PSID 2005		NHIS 2005		PSID 2007		NHIS 2007	
	DK	NA,RF	DK	NA,RF	DK	NA,RF	DK	NA,RF	DK	NA,RF	DK	NA,RF	DK	NA,R	DK	NA,R	DK	NA,RF	DK	NA,RF
Self-rated General Health	.03	.19	.15	.32	.04	.96	.15	.33	.02	.58	.12	.45	.06	.40	.10	.24	.07	.16	.07	.18
Health Limits Work	.01	.21	.07	.84	.03	.96	.04	.17	.07	.59	.04	.14	.10	.44	.06	.05	.04	.17	.02	.04
Height	.50	.60	.34	5.90	.63	1.96	.57	1.01	.70	1.08	.53	1.32	.56	.44	.60	1.34	.23	.17	.52	1.82
Weight	.82	1.35	1.21	7.22	1.38	1.95	1.43	2.62	1.52	1.58	1.63	2.85	1.36	1.42	1.43	2.73	1.04	1.20	1.52	3.35
Conditions																				
Asthma	.00	.19	.06	.02	.10	.96	.08	.03	.03	.57	.10	.03	.05	.44	.06	.04	.05	.17	.04	.03
Cancer	.02	.19	.04	.03	.09	.96	.10	.04	.02	.57	.09	.03	.06	.45	.06	.04	.08	.18	.05	.06
Diabetes	.00	.19	.04	.03	.09	.96	.06	.04	.07	.57	.05	.02	.04	.45	.04	.03	.03	.17	.04	.05
Hypertension	.07	.19	.08	.04	.09	.96	.10	.05	.07	.58	.15	.07	.06	.44	.11	.06	.08	.19	.06	.04
Myocardial Infarction	.00	0.19	.03	.03	.07	.96	.01	.04	.06	.57	.13	.04	.07	.28	.09	.04	.04	.13	.04	.04
Stroke	.05	0.19	.05	.03	.06	.96	.07	.04	.07	.56	.10	.04	.04	.44	.09	.04	.04	.17	.04	.04
Health Insurance	.06	0.00	.13	.22	.00	.00	.59	.55	.16	.00	.53	.67	.06	.01	.57	.50	.07	.00	.58	.38

Note: DK=don't know; NA=not appropriate; RF=refused. The PSID sample consists of all heads and wives, and the NHIS sample consists of people 18 years or older

Table 4. Health Status, Health Behaviors, and Health Insurance Coverage (%)  
in the PSID and NHIS, 1999, 2001, 2003, 2005 and 2007

	PSID 1999	NHIS 1999	PSID 2001	NHIS 2001	PSID 2003	NHIS 2003	PSID 2005	NHIS 2005	PSID 2007	NHIS 2007
<b>Smoking</b>										
Currently smoke	20	23	21	23	20	21	19	21	19	19
Never smoked	52	53	53	55	53	56	53	57	53	58
Has Health Insurance	87	87	87	85	87	84	85	83	86	84
Obese (BMI > 30)	22	22	21	22	22	23	23	25	25	26
30-Day Distress (K6*)	--	--	3.2	3.1	3.9	3.1	--	--	3.2	2.7
Health doesn't limit amount/kind of work	82	88	81	89	82	89	82	89	81	89
<b>Health Conditions</b>										
Asthma	2.8	2.1	7.6	11.8	8.6	9.7	9.6	10	10.5	10.9
Cancer	4.6	6.5	5.0	6.9	5.3	6.6	6.9	7.4	7.2	7.3
Diabetes	7.1	5.4	7.7	6.5	8.3	6.6	9.1	7.5	9.3	7.7
Hypertension	21.8	22.6	23.0	23.5	25.4	25.2	27.5	25.8	29.6	27.1
Myocardial Infarction	3.7	2.9	3.7	3.4	3.5	3.2	4.3	3.3	4.2	3.2
Stroke	7.4	8.5	3.1	2.4	3.0	2.5	3.7	2.4	3.6	2.4
<b>Self-Rated General Health</b>										
Excellent	23	32	22	31	22	29	19	29	20	29
Very Good	33	32	35	32	35	32	33	32	34	31
Good	29	25	28	25	28	26	30	27	29	27
Fair	11	8	11	9	11	9	13	9	11	9
Poor	4	3	4	3	4	3	5	3	5	3

Note: The PSID sample consists of all heads and wives, and the NHIS sample consists of people 18 years or older. Weights are used for estimates from both surveys.

\* The K-6 Non-Specific Psychological Distress Scale includes six items. The scores of the six items are summed; a score of 13 or higher indicates sensitivity around the threshold for the clinically significant range of the distribution of non-specific distress. For additional information see Kessler, et al 2002.

Table 5. Demographic Characteristics (%) in the PSID and NHIS:  
1999, 2001, 2003, 2005 and 2007

	PSID 1999	NHIS 1999	PSID 2001	NHIS 2001	PSID 2003	NHIS 2003	PSID 2005	NHIS 2005	PSID 2007	NHIS 2007
Sex										
Male	45	48	46	48	46	48	46	48	46	48
Female	55	52	54	52	54	52	54	52	54	52
Race										
White	80	81	79	81	78	84	82	83	82	82
Black	11	11	11	11	11	12	12	12	12	12
Other	10	8	11	7	11	5	6	5	6	6
Age										
18-44	48	54	48	53	46	52	44	51	43	50
45-64	34	29	36	31	37	32	39	33	40	34
65+	18	16	16	16	16	16	17	16	17	16
Not currently married	34	41	32	42	33	42	33	42	34	44
High school graduate	82	82	78	80	80	80	83	81	84	82

Note: The PSID sample consists of all heads and wives, and the NHIS sample consists of people 18 years or older. Weights are used for estimates from both surveys.

Table 6. Self-Rated General Health Status by Age (%) in the PSID and NHIS, 2007

Age group	Excellent	Very Good	Good	Fair	Poor
18-44 years					
PSID	27	38	27	7	1
NHIS	38	33	23	5	1
45-64 years					
PSID	17	34	32	12	5
NHIS	25	31	29	11	4
65-74 years					
PSID	14	27	31	18	10
NHIS	15	29	33	17	6
75 years and over					
PSID	8	23	30	22	17
NHIS	11	23	36	21	9

Note: The PSID sample consists of all heads and wives, and the NHIS sample consists of all people 18 and older. PSID and NHIS weights are used in calculating the estimates.

Table 7. Self-Rated General Health Status (%) in the PSID, by Year

	1999	1994	1984
Excellent	23	22	24
Very good	33	34	31
Good	29	28	27
Fair	11	11	12
Poor	4	5	5

Note: For each year, the sample consists of all heads and wives. PSID weights are used in calculating the estimates.

Table 8. Self-Rated General Health Status (%) in the PSID, HRS, and NHIS: 51-61 Year Olds

	PSID 2005	HRS 2004	NHIS 2005
Excellent	17	16	23
Very good	32	29	31
Good	32	30	30
Fair	14	17	11
Poor	5	8	5

Note: The PSID sample consists of all heads and wives 51-61. Weights are used in calculating all estimates.

Table 9. Logistic Regression of Being in Poor/Fair Health (Odds Ratio)

	PSID 1999	NHIS 1999	PSID 2001	NHIS 2001	PSID 2003	NHIS 2003	PSID 2005	NHIS 2005	PSID 2007	NHIS 2007
Age	1.044*	1.043*	1.044*	1.044*	1.030*	1.041*	1.044*	1.042*	1.031*	1.042*
Race										
White (Reference Group)										
Black	2.14*	1.79*	2.021*	1.838*	1.702*	1.674*	1.786*	1.605*	1.517*	1.568*
Other	1.44*	1.38*	1.337	1.347	1.128	.965	1.667	0.919	1.380	0.952*
Female	1.16*	1.04*	1.149	1.073*	1.188*	1.093*	1.176*	1.082*	1.264*	1.108*
Not currently married	1.28*	1.30*	1.181*	1.306*	1.520*	1.319*	1.438*	1.340*	1.398*	1.375*
High school graduate	0.41*	0.36*	.385*	.421*	.331*	.428*	0.350*	0.400*	0.354*	0.400*

Note: \*Indicates statistical significance at the .01 level.

The PSID sample consists of all heads and wives, and the NHIS sample consists of people 18 years or older.

Table 10. Change in Health Status Between 1999 and 2001

	Fair/poor health	Work limitation	Obese
All ages			
Prevalence in 1999	13.9	17.2	18.3
Onset	7.6	9.5	6.8
Recovery	32.9	31.9	17.8
Less than 51 years old			
Prevalence in 1999	9.4	11.3	18.3
Onset	5.0	6.7	7.7
Recovery	42.9	39.1	16.8
51 and older			
Prevalence in 1999	22.5	28.4	18.3
Onset	13.2	16.3	5.0
Recovery	24.9	26.4	19.6

Note: Based on tabulations using the 1999 and 2001 PSID, with 1999 individual weights.