

N-2264/2-HHS

MASTER SAMPLE SERIES

Volume 2: CODEBOOK FOR FULL SAMPLE DEMOGRAPHIC FILE

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HEALTH INSURANCE EXPERIMENT



PREFACE

This codebook describes the contents of a data file from the Health Insurance Experiment (HIE), a large social experiment conducted by The Rand Corporation from 1974 to 1982 under a grant from the U.S. Department of Health and Human Services. The HIE is issuing a number of data files, grouped in topical series, with associated documentation.

The codebook is the second of a projected three volumes documenting files in the master sample series. It provides demographic data for the entire participant sample of 26,148 persons--all enrollees and anyone ever considered for enrollment in the HIE.¹

The full sample demographic file consists of variables derived from administrative data maintained at Rand to keep track of participants over the course of the experiment. For each variable in the file, this codebook lists the data sources, defines all response codes, and tabulates the response frequencies. The codebook is thus a basic reference for file users. The full sample demographic file and its codebook supersede all previously issued demographic information about the HIE participant sample.

Arleen Leibowitz, Susan Marquis, and William Rogers defined most of the variables. Chih-Ming Fan, Christe McMenomy, and Lawrence Painter provided programming support; Betty Amo provided administrative support. Martha A. Bedell, Jacqueline M. McGee, and Elizabeth M. Sloss reviewed the draft codebook and made useful suggestions. Joice Polin prepared numerous typescripts. Final production of this Note was supervised by Patricia Bedrosian. Finally, we thank Joseph Newhouse for his guidance and support.

¹Volume 1 in the series provides data on eligibility status and family composition for 9142 enrollees throughout their period of participation. It has been published as S. M. Polich and C. d'Arc Taylor, *Master Sample Series, Vol. 1: Codebook for Eligibility-Family Changes File*, The Rand Corporation, N-2264/1-HHS, May 1986. Volume 3, in preparation, will provide data for certain subsets of the full participant sample.

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I. INTRODUCTION

This section presents an overview of the Health Insurance Experiment (HIE) and its data collection and file development efforts. It provides essential background for understanding the contents of this codebook. Section II describes the distinctive features of the master sample series of files and the full sample demographic file addressed here. The full sample demographic file is so called because it provides demographic data for all 26,148 participants in the experiment. Section III presents the codebook for the variables in the file.

EXPERIMENTAL DESIGN

The Rand Corporation conducted the HIE from 1974 to 1982 in six sites across the United States: Dayton, Ohio; Seattle, Washington; Fitchburg and Franklin County, Massachusetts; and Charleston and Georgetown County, South Carolina.¹ The main purpose of the experiment was to assess how varying patients' cost of health services affected their use of services, their satisfaction with health care, the quality of their care, and the state of their health. A related purpose was to study how those outcomes were affected by the mode of delivery--fee for service or health maintenance organization (HMO).²

Over the course of the experiment, information of some kind was obtained for 26,148 persons. A total of 24,340 persons were administered a baseline interview (*baseline participants*³), of which

¹The sites were chosen to represent the four census regions of the country and both urban and rural areas. They also differed in the amount of delay to obtain an appointment, reflecting different degrees of stress on the ambulatory medical care system. Site selection is described in Philip J. Held, *Site Selection Criteria for the Health Insurance Study*, The Rand Corporation, N-2266-HHS, May 1985.

²For a discussion of the purposes and design of the HIE, see Joseph P. Newhouse, "A Design for a Health Insurance Experiment," *Inquiry*, Vol. 11, 1974, pp. 5-27. HIE is also called HIS, Health Insurance Study. The terms are synonymous.

³This and other distinctive HIE terms are defined in the Glossary at the end of this document.

7,700 were ultimately enrolled.⁴ An additional 554 persons were enrolled later, all but a few of them newborns or adopted children under one year of age. Those 8,254 *insured enrollees* were assigned to an *experimental insurance treatment*, and data on their use of health services were collected throughout their period of participation.⁵ Another 2,483 *adjunct enrollees* were not assigned to an insurance treatment but resided with insured enrollees or were members of a short-lived control group in Dayton. The sample of persons in the full-sample demographic file is described in detail in Sec. II.

Selection of Enrollees

Persons offered enrollment in the experiment represent a random sample from each site, subject to certain eligibility restrictions.⁶ They were chosen by a two-stage baseline selection process. In each site an areawide probability sample of dwelling units was drawn. Their occupants were interviewed for eligibility, and those found eligible were questioned in depth about their socioeconomic characteristics and experience with health care (baseline interview).

Eligibility criteria excluded those whose health care delivery systems differed from options available to the general population. The following groups were excluded:

- Those who were eligible for Medicare or would become so during the experiment, i.e., those 62 years of age and older, or younger than 62 but with a Medicare-eligible condition such as end-stage renal disease.

⁴Of the remaining 16,640 people, the 15,411 persons who did not enroll are called *baseline-only participants*; the other 1,229 are part of the adjunct enrollee group described below.

⁵Note that "insured" in HIE terminology means only "assigned to an experimental treatment." By the same token, "uninsured" applies only to a participant not so assigned, not necessarily someone lacking health insurance altogether.

⁶Subject also to slight oversampling of low-income families in Dayton, Massachusetts, and South Carolina.

- Those with family incomes over \$25,000 (1973 dollars).
- Those institutionalized (jail, long-term hospital).
- Veterans with service-connected disabilities.
- Those in the military and their dependents.⁷

Project staff verified the accuracy of the information given by baseline participants with employers and insurance companies.

In the second selection stage, HIE staff drew a representative sample of eligible persons to be offered enrollment and assigned each family to one of the insurance plans described below. A sophisticated technique assured that, across plans, families closely resembled each other in 24 health and socioeconomic characteristics.⁸

Experimental Treatments

Sixteen experimental treatments distinguished among coinsurance rates, delivery systems, and maximum out-of-pocket expenditures. All but one of the treatments were health insurance plans, listed below as A-0. Enrollees who had gone through the baseline selection process were assigned to one of the plans. The remaining treatment involved a control group in Seattle, chosen separately.

Insurance Plans. Plans A-N entailed different degrees of cost sharing under the fee-for-service system. Within each cost-sharing group, listed below, plans also differed by the ceiling placed on maximum expenditure. Plan O involved participation in a prepaid group practice, a traditional type of HMO:

⁷Details of HIE eligibility requirements are in Lorraine Clasquin and Marie E. Brown, *Rules of Operation for the Rand Health Insurance Study*, The Rand Corporation, R-1602-HEW, May 1977, Sec. II.

⁸The logic and techniques used to determine optimal sample sizes and assign individual families to experimental plans are described in Carl N. Morris, "A Finite Selection Model for Experimental Design of the Health Insurance Study," *Journal of Econometrics*, Vol. 11, 1979, pp. 43-61.

- A. Free care (0% coinsurance) (one plan).
- B-D. Family pays 25% of its medical bills (25% coinsurance) (three plans).
- E-G. 50% coinsurance (three plans).
- H-J. 50% coinsurance for dental and outpatient mental health services and 25% coinsurance for all other services (three plans).
- K-M. 95% coinsurance (three plans).
- N. 95% coinsurance on outpatient services; 0% on hospital care (one plan).⁹
- O. 0% coinsurance if care was received at a Seattle HMO, Group Health Cooperative of Puget Sound; 95% coinsurance if care was received outside the HMO (one plan).

Plans requiring coinsurance (B-N) placed a ceiling on annual out-of-pocket expenditures, above which care was free.¹⁰ In all but one plan (N), the ceiling was a specified percentage of the family's income or a dollar limit, whichever was less. The percentage varied with family income, and the dollar limit varied with the plan, as indicated below:

<i>Plan</i>	<i>Percentage of Family Income</i>	<i>Dollar Limit</i>
B-D	5, 10, or 15	1000/750 ¹¹
E-G	5, 10, or 15	1000

⁹During the experiment's first year in Dayton, the provisions of plans A-N differed in two ways: only plan A covered dental services for adults; and the coinsurance rate on plans K-N was 100 percent instead of 95 percent.

¹⁰During the experiment's first year in Dayton, expenditures for outpatient mental health care did not apply toward the ceiling.

¹¹In plans B-D and H-J the \$1000 limit applied during the first two years of enrollment for Dayton families who enrolled from November 1974 to February 1975; and during the first year of enrollment for Seattle families who enrolled from January to September 1976. The \$750 limit applied during subsequent enrollment years for the aforementioned families, and during the entire enrollment period for all other families.

H-J	5, 10, or 15	1000/750
K-M	5, 10, or 15	1000
N	--	150 per individual; 450 per family

HMO Control Group. A random sample of existing members of the Group Health Cooperative (subject to HIE eligibility requirements) was drawn as a control group for the HMO experimental group assigned to plan O. The control group was formed to compare HMO use by those who had chosen that delivery mode (i.e., members of the control group) with use by those experimentally transferred to an HMO from the fee-for-service system (i.e., members of the experimental group). Enrollees in the HMO control group continued with the Group Health Cooperative under their prior arrangements but provided the same data as HMO experimental members.

Services Provided

Plans A-O provided the same comprehensive benefits, including hospital, physician, dental, mental health, vision, and auditory services, drugs (including over-the-counter drugs for certain chronic conditions), and supplies. Services of nonphysician providers, such as audiologists, chiropractors, clinical psychologists, optometrists, physical therapists, and speech therapists, were also covered. The only noteworthy exclusions were nonpreventive orthodontic services, cosmetic surgery for preexisting conditions, and outpatient mental health visits exceeding 52 per year.

Enrollees were able to choose the physicians and other persons who provided their health care. However, if those in the HMO experimental group sought care outside the HMO that was available within, they were responsible for 95 percent of the cost. (For covered services, such as dental or chiropractic, that were unavailable at the HMO, members of the experimental HMO group were fully reimbursed.)

Enrollees in the HMO control group retained whatever benefit package they or their employer had purchased from the HMO. Members of both control and experimental groups were reimbursed 5 percent of the

cost of care obtained outside the HMO to encourage the reporting of non-HMO care.

Terms of Enrollment

Families who accepted the insurance plan offered from plans A-O were enrolled in the experiment for either three or five years, the term randomly assigned. All members of the HMO control group were enrolled for 5 years.

Enrollees assigned any benefits from their existing health insurance policies to the HIE during the time they participated. No family was financially penalized by HIE enrollment. Enrollees were reimbursed for the cost of maintaining their policies, and if their HIE plan could, under any conceivable set of circumstances, provide less coverage than their private policies, they were paid the maximum difference.¹²

Table 1 indicates the timing of enrollment in the experiment and number of enrollees insured immediately after the baseline selection process in each site.

DATA COLLECTION

Over the course of the experiment, extensive data were collected on participants' demographic and economic characteristics, health status, and use of health services. Background information was obtained on local health care costs, providers, and types of services rendered. The data collection instruments are described in Table 2.

Table 2 shows the amount and types of data gathered from the various participant groups. The most extensive data, especially longitudinal data on the use of health services, are available from the 8,254 insured enrollees, who participated in the experiment longest. The 15,411 baseline-only participants provided much demographic and socioeconomic data, as well as information on health status, experience with health care, and health-related attitudes. Limited data were obtained for the 2,483 adjunct enrollees.

¹²Calculation of the maximum difference is described in Appendix A.

Table 1
HIE ENROLLMENT PERIODS

Site	Number of Enrollees ¹	1974	1975	1976	1977	1978	1979	1980	1981	1982
Dayton	1137	Nov.								Feb.
3-year	533									Feb.
5-year	604									
Seattle	3112		Jan.							Sept.
3-year	1500									Sept.
5-year	1612									
Fitchburg	723		July							Oct.
3-year	547									Oct.
5-year	176									
Franklin Co.	889		July							Oct.
3-year	649									Oct.
5-year	240									
Charleston	779		Nov.							Feb.
3-year ²	571									
5-year	208									
Georgetown Co.	1060		Nov.							Feb.
3-year ³	800									
5-year	260									
Total	7700									

NOTE: Timelines mark the month and year in which the first person enrolled in the experiment and the month and year in which the last person left the experiment. Data on use of health services continued to be collected from several groups after the end dates shown here: one year afterward for the Dayton 5-year group and Seattle, Fitchburg, and Franklin County 3-year groups; six months afterward for the Dayton 3-year group.

¹Numbers refer to enrollees insured immediately after the baseline selection process. An additional 554 persons were enrolled and insured later, nearly all of them newborns or adopted children under 1 year of age. Figures for Seattle include the HMO control group.

²Some of these enrollees were also members of a preenrollment group between November 1976 and February 1979. An additional 339 persons participated in the preenrollment phase but did not formally enroll in the experiment.

³Some of these enrollees were also members of a preenrollment group between November 1976 and February 1979. An additional 213 persons participated in the preenrollment phase but did not formally enroll in the experiment.

Table 2
PRINCIPAL HIE DATA COLLECTION INSTRUMENTS

Instrument	Topics Covered	Data Collected		
		How	When	From
1. Screening questionnaire [1]	Demographic information to establish basic eligibility	Interview	Beginning of HIE operation in site	Occupants of representative sample of dwelling units on geographic clusters in site
2. Baseline questionnaire	Income, employment Family composition	Interview	4-6 months before enrollment	Baseline participants
	Health status Health care experience and insurance coverage Satisfaction with medical care	Self-administered	4-6 months before enrollment	Baseline participants
3. Enrollment verification form	Changes in family composition, economics, or insurance coverage since baseline questionnaire	Interview	Between administration of baseline questionnaire and enrollment date	Baseline participants determined eligible
4. Medical history questionnaire (MHQ), 3 versions by age group:	Form A: health status, attitudes, habits Form B: specific medical disorders	Administered by self or parent [2]	Just before enrollment and exit [3]	Insured enrollees
5. Medical screening examination, 3 versions by age group:	0-2 years 3-13 years 14+ years	Paramedical personnel	Just before enrollment and exit	Sample of insured enrollees at enrollment; all exiting enrollees
6. Health report	Use of medical or dental services and time spent obtaining them; any restricted activity or disability	Administered by self or parent	Biweekly during period of participation	Insured enrollees [4]
7. Health care questionnaire, 3 versions by age group:	0-4 years 5-13 years 14+ years	Administered by self or parent	Each anniversary of enrollment except at exit	Insured enrollees

For footnotes, see p. 10.

Table 2 (cont.)

Instrument	Topics Covered	Data Collected		
		How	When	From
8. Annual income report	Amount and sources of family income, taxes paid	Self-administered	Annually (April)	Head of insured family
9. Periodic employment report	Wages, hours worked, family payments for care of children or elderly, government program benefits received	Self-administered	Semiannually	Enrollees (head and family members 16 and older)
10. Assets and debts questionnaire	Family assets and liabilities	Self-administered	Exit	Head of insured family
11. Knowledge of coverage questionnaire	Details of HIE insurance plan	Self-administered	Specified intervals [5]	Insured enrollees
12. Insurance abstraction	Details of selected insurance policies	Abstraction	At time of knowledge of coverage questionnaire	Insurance company brochures
13. Chronic condition questionnaire	Status of condition, correctness of diagnosis, adequacy of treatment	Physician interview	At exit medical screening examination	Sample of insured enrollees found to have certain chronic conditions [6]
14. Evaluation questionnaire	Perceptions and attitudes about HIE and health care system	Self-administered	Exit	Head of insured family
15. Health notice	Use of medical or dental services	Administered by self or parent	Biweekly during preenrollment phase (South Carolina); 6 months-1 year after exit (other sites)	Preenrollees (So. Carolina), insured enrollees who have exited (other sites)
16. Medical expense report (MER)--fee-for-service claim form, 4 types: Doctors' services and supplies	Dental care Hospital and extended care Pharmacy	Administered by self or parent	Time of occurrence	Insured enrollees and providers/suppliers

Table 2 (cont.)

Instrument	Topics Covered	Data Collected		
		How	When	From
17. Services rendered report (SERR)--HMO equivalent of MER [7], 2 types: Doctors' services and supplies Hospital and extended care	Each use of medical service provided by HMO; reason or diagnosis; treatment	Abstraction	Annually to cover entire previous year	HMO records for insured enrollees in HMO experimental and control groups
18. Factor price survey	Wages and benefits of selected hospital personnel [8], average daily inpatient population	Phone and mail	Semiannually	Sample of local hospitals
19. Consumer price index	Prices of selected nonmedical products in the six HIE sites	Phone and inspection	Semiannually	Sample of local retailers
20. Physician capacity utilization survey (PCUTS)	Availability of services [9]	Phone	Annually	Sample of local physicians [10]
21. Dentist capacity utilization survey (DCUTS)	Similar to PCUTS	Phone	Annually	Sample of local dentists [11]

1. Administered as a separate questionnaire only in Dayton; part of baseline questionnaire in the other sites.
 2. When "parent" appears in this column, a parent was asked to provide data for children 13 and younger.
 3. "Exit" refers to normal departure from the experiment after completing the assigned enrollment period, three or five years. Those who "attrited," or voluntarily left the experiment early, received an "attrition" MHQ that was identical to the exit MHQ.
 4. In the first year of the experiment in Dayton, the health report was administered weekly to a random half of Dayton enrollees. In the first year of the experiment in Massachusetts and South Carolina, 25 percent of enrollees were exempted to measure the reporting requirement's effect on the use of health services. Also at one point virtually all participants stopped filling out health reports, for budgetary reasons.
 5. Intended intervals were enrollment, 18 months, 3 years, and 5 years after enrollment (the last only for the 5-year participants). Actual mailings approximated those intervals in Massachusetts and South Carolina; the first mailing was 2-1/2 years and 1 year after enrollment in Dayton and Seattle, respectively.
 6. Hypertension, diabetes, thyroid disease, chronic heart diseases, chronic lung diseases, joint diseases, ulcers, cerebrovascular disease.
 7. Pharmacy data were obtained directly from an HMO-supplied computer tape. Dental care was not available through the HMO; HMO participants reported claims for dental care and other non-HMO services on the MER.
 8. Categories of personnel: registered nurses (general-duty), medical technicians, licensed professional nurses, nursing aides, kitchen helpers, general stenographers, and maids or porters.
 9. Waiting time for appointments; appointments per hour; patients seen in office, home, and hospital; weekend office hours; office staffing; cost of office visit; whether new patients accepted.
 10. Physicians (M.D. or D.O.) specializing in general medicine, internal medicine, and pediatrics.
 11. Except in Fitchburg, Franklin County, and Georgetown County, where all dentists were surveyed.

Several subcontractors to Rand participated in the data collection effort. Until March 1975, Mathematica, Inc., supervised data collection, administered the insurance plans, and processed claim forms. Thereafter, National Opinion Research Center managed data collection and Glen Slaughter and Associates handled insurance administration and claim processing. American Health Profiles, Inc., conducted the medical screening examinations at enrollment (October 1974 through January 1977); CompuHealth administered those examinations at exit (October 1977 through December 1981).

FILE DEVELOPMENT

Subcontractors sent the collected data to Rand, either in hardcopy form or as cleaned data tapes. At Rand the hardcopy data were encoded for machine readability and subjected to computerized checks for logical consistency and adherence to specified response ranges; outliers were checked only for fidelity to the original response and otherwise left unchanged. Limited cross-checking was done to assess logical consistency among a respondent's answers. All identifiers permitting information to be linked to a specific respondent were replaced twice to protect respondents' privacy.¹³ The cleaned records were then arranged in the HIE version of standard computer file format, and the resulting files of *primary variables* made available for HIE analyses.

When an analyst needed information that required manipulation of primary data, *derived variables* were constructed. The analyst and a programmer determined a suitable way of obtaining the information by extracting, aggregating, or transforming primary data, and the programmer wrote the appropriate logic. With the analyst's approval, the new variable was entered on the master file.

Both primary and derived variable files are being issued to the public in a number of topical series. Appendix B provides a complete list of the files to be issued.

¹³The first conversion was known only to the subcontractor, the second only to Rand. Neither institution could make the full link from the respondent's name to his or her identifier on the analytic files.

The machine-readable tape for each file includes data in both SAS¹⁴ (Statistical Analysis System) and character formats, and an index of character-format variables.¹⁵

A codebook is also provided for each file. This volume contains the codebook for a derived variable file in the *master sample series*. Section II describes the file and its place in the series; Sec. III presents the codebook.

¹⁴A registered trademark of the SAS Institute Inc.

¹⁵This is the content of all HIE files issued by Rand. Other institutions (e.g., National Archives) will distribute HIE files and may alter their contents.

II. FULL SAMPLE DEMOGRAPHIC FILE

The full sample demographic file is the second of three files in the master sample series, which contains the only demographic, eligibility, and family data for all participants in the experiment. Each file in the series treats a different part of the participant universe.

SERIES SAMPLE

Figure 1 depicts the two main samples and their components. The baseline sample (dashed border) contains all persons who were considered for HIE enrollment on the basis of information they gave in screening and baseline interviews. The enrolled sample (solid border) contains insured enrollees assigned to an experimental treatment and adjunct enrollees not so assigned.

The baseline-only part of the sample consists of persons who never enrolled. They were (1) determined ineligible, (2) found eligible but not offered enrollment, or (3) found eligible but refused enrollment.

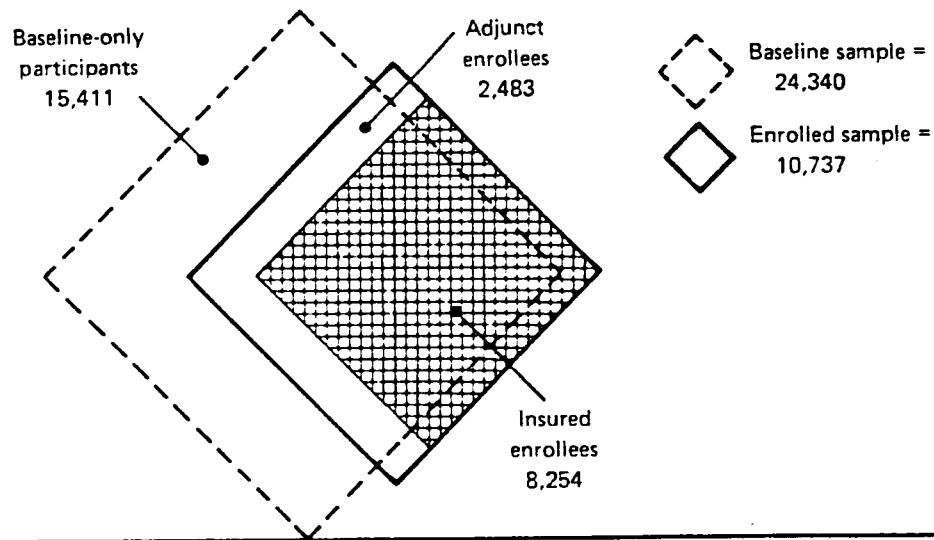


Fig. 1 -- Sample groups covered by the master sample series

The crosshatched area represents those who signed an enrollment contract and were *insured*, or assigned to an experimental treatment. As such, they provided longitudinal data on the use of health services. Adjunct enrollees were not assigned to an experimental treatment and provided no longitudinal data. About 25 percent of the adjunct enrollees (669) were members of a control group in Dayton that was discontinued after 15 months, as explained later in this section. The rest (1,814) resided with insured enrollees.¹ The portion of the crosshatched area extending beyond the dotted line represents insured and adjunct enrollees who joined the experiment after the baseline period.

In the master sample series of codebooks, Volume 1 focuses on the enrolled sample.² It shows eligibility status and family composition of insured enrollees from the time they enrolled until their participation ended. Since the period of enrollment could be as long as five years, an enrollee's family structure and ability to participate in the experiment could change during that time. Volume 1 presents data collected at various intervals to document those changes. It also provides limited data for 888 adjunct enrollees, excluding the Dayton control group and self-supporting adjunct enrollees. Volume 2, the present volume, provides demographic and socioeconomic data for both baseline and enrolled samples. Volume 3, in preparation, will provide supplemental data for certain subsets of the entire participant sample.

HIE files in the master sample series are the only sources of demographic and socioeconomic data on the participant sample. Those files and their associated codebooks supersede all previously issued sample data.

¹If financially dependent on the head of the insured family (or if a member of such a dependent person's family), the adjunct enrollee was called a *person of interest*. If self-supporting (or a member of such a person's family), he/she was called a *family of interest*.

²S. M. Polich and C. d'Arc Taylor, *Master Sample Series, Vol. 1: Codebook for Eligibility-Family Changes File*, The Rand Corporation, N-2264-HHS, May 1986.

FILE SAMPLE

Table 3 enumerates the sample covered in this codebook by site and sample group. For this purpose the two sites each in Massachusetts and South Carolina are considered one. The table alludes to special participant groups in Dayton, Seattle, and South Carolina.

The Dayton control group was chosen to indicate how the community's use of health services compared with use by our insured enrollees. Control families retained their own health insurance but completed the same questionnaires as insured families. The Dayton control group participated from November 1974 to February 1976; it was discontinued because complete claims data appeared unobtainable from its members. Unlike insured enrollees, Dayton control families had to file claims with both the HIE and their own insurance companies. HIE analysts used data from the Dayton control group only to scale measures of health status.

Table 3
SAMPLE COVERED IN FULL SAMPLE DEMOGRAPHIC FILE

Site	Baseline-Only Participants	Enrollees		
		Insured	Adjunct	Total
Dayton	2,845	1,208	968 ¹	5,021
Seattle	3,492	3,351 ²	761	7,604
Massachusetts	4,279	1,710	316	6,305
South Carolina	4,795 ³	1,985	438	7,218
Total	15,411	8,254	2,483	26,148

¹Includes 669 members of the Dayton control group.

²Includes 2,535 HIE-insured and 816 HMO-insured enrollees.

³Includes 552 members of the 3-year enrollee sample who participated only in the preenrollment phase.

In Sec. I we distinguished between the two insured enrollee groups in Seattle: HMO experimental and HMO control groups. Because members of the experimental group went through the HIE baseline selection process and were transferred to the HMO by the experiment, they are termed *HIE-insured* (as are insured enrollees assigned to the fee-for-service insurance treatments). The control group, chosen randomly from existing HMO members, is called *HMO-insured*. Because HMO-insured enrollees were not chosen by the unbiased selection model used to assign HIE-insured enrollees to an insurance plan, HMO-insured enrollees do not necessarily resemble HIE-insured enrollees in demographic characteristics. The HMO control group participated for the full 5-year enrollment term.

In every site except South Carolina the 3- and 5-year participants enrolled at the same time and exited two years apart. In South Carolina, the 3- and 5-year participants enrolled two years apart and exited at the same time. Although the 3-year and 5-year participants were chosen simultaneously, the 3-year group was not formally enrolled until the beginning of the third year of the experiment in South Carolina. During years 1 and 2, its members served as a preenrollment group (PEG); they were not assigned to an insurance plan but data were collected for them. The two preenrollment years are known as the PEG period. If a PEG family dropped out of the experiment during the PEG period, we consider it part of the baseline-only sample because the family did not formally enroll. Not all 3-year enrollees have PEG period data; some who refused preenrollment accepted formal enrollment two years later.

DATA SOURCES

Information in the full sample demographic file is drawn from two types of sources: data collection instruments completed by participants themselves and administrative files maintained by Rand or its subcontractors to keep track of participants over the course of the experiment.

The primary data collection instruments were the screening questionnaire, baseline questionnaire, and enrollment verification form (EVF), plus their associated supplements. They are described in Table 2 above, items 1 through 3. Income data are also taken from the annual income report, item 8 on Table 2.

During the baseline period and enrollment process, data collection instruments were administered in sequence. The screening questionnaire and baseline questionnaire were administered to everyone considered for enrollment. The EVF was administered to the subset of persons offered enrollment. The "new person" supplement to the EVF collected demographic and health-related data for persons who joined families offered enrollment after the baseline period.

Additionally, detailed information was collected about dental services and providers from the baseline dental supplement; medical visits, providers, and expenses from the baseline physician supplement; and wages from the EVF employment supplement. Filling out those supplements was triggered by a certain response in the main instrument. For example, "Yes, I have health insurance" in the baseline instrument led to the administration of an insurance supplement.

The same instrument differed in minor details from site to site. Each version bears a separate Health Insurance Experiment Instrument number. The instruments were also administered at different times in the different sites. For example, enrollment in Dayton began two years before enrollment in South Carolina (see Table 1). We attempt to compensate for the effects of such intersite differences in constructing the variables, as described in the codebook.

To provide complete information for all participants, whether present at baseline or added afterward, the screening, baseline, and enrollment verification instruments collected some of the same demographic data. Many variables use baseline data for participants present then and enrollment data for those added later. Other variables rely primarily on enrollment data and use baseline or screening data

only if enrollment data are lacking.³ For several of those variables the logical consistency between enrollment and baseline or screening values was checked and discrepancies resolved. Variables constructed exclusively from either baseline or enrollment data are so labeled.

The HIE administrative files used for demographic data include the document accountability file, sample file, sex/birth file, participant master file, master demographic file, and enrollment screening exam file. The administrative files will not be released to the public.

Data sources for each variable are identified in the codebook and are further described in Appendix C.

³In South Carolina, PEG members who formally enrolled completed two enrollment verification forms: one before signing a preenrollment agreement and another before formally enrolling two years later. Where there is a choice, the variable constructions use data from the "enrollment" rather than the "preenrollment" EVF.

III. THE CODEBOOK

VARIABLE DESCRIPTIONS

This codebook describes each variable in the full sample demographic file.¹ The format is illustrated in Fig. 2 for the variable WORRYBAS and is described below.

The box provides a basic description of the variable, including

- Variable name, the substantive abbreviation used by analysts.
- File name, in this case FSD, the acronym for "full sample demographic."
- Variable label, a capsule description.
- Response codes and their definitions or range of values.
- Prose definition.

Below the box appear essential explanatory notes if any.

The sources or input variables from which the derived variable is constructed are identified by site, administrative file name or HIEI number, and variable definition. Input variables may be other derived variables or primary variables (the latter denoted by the prefix DEI). Every DEI variable represents a question on a data collection instrument. The variable definition cites the question, including relevant instructions to the interviewer in capital letters (see the text of DEI2836 in Fig. 2).

The section called "Construction" describes how HIE programmers built the derived variable. The code conforms to SAS rules, including the convention that all values are initialized to "missing" and converted to valid responses only when specifically instructed. Explanatory comments are enclosed in parentheses to distinguish them from the executable part of the code.

¹A technical description of the file, including the location and length of each variable, is provided in Appendix D.

VARIABLE	WORRYBAS	FSD	WORRYBAS VALUE	FREQ	CUM FREQ	%	CUM %
Worry about health			1	3196	1252	5.46	5.46
CODES			2	3392	5204	17.22	22.67
1 - Missing			3	4432	9936	20.62	43.29
2 - Some			4	13016	22952	56.71	100.00
3 - Hardly any							
4 - None							

WORRYBAS reports how much the participant worried about his or her health in the past year.

INPUT VARIABLES		HIEI	Variable
Site			
Dayton	15/43.36	DE1357	(Dayton, Seattle) Over the past year has your health caused a great deal of worry, some worry, hardly any worry, or no worry at all?
Seattle	63		1. Great deal
Massachusetts	92		2. Some
South Carolina	147		3. Hardly any
			4. None at all
		DE12836	(Massachusetts and South Carolina) Over the past year has your health caused you a great deal of worry, some worry, a little worry, or no worry at all?
			1. Great deal
			2. Some
			3. A little
			4. None at all

CONSTRUCTION

(Dayton)

(From baseline data or EVF new person supplement (for persons not present at baseline).)

```

IF 1 <= DE1357 <= 4
  IF THEN WORRYBAS = DE1357;

```

Fig. 2 -- Example of codebook format

At the right of the box for most variables is a table of response frequencies. The first column lists all response codes appearing for the variable. The second and third columns show, respectively, the absolute and cumulative response frequencies for each code. The fourth and fifth columns show the corresponding absolute and cumulative percentages. For continuous variables--for example, those pertaining to income--statistics such as the mean, median, and standard deviation are given instead of frequencies. The total number of observations (responses + nonresponses) is 26,148.

VARIABLE TYPES

Six *identifiers* precede the other variables on each record in the file. FILENAME denotes the present file. PERSON identifies each participant, permitting data to be merged for an individual across years and files. SITE and INSTAT (HIE insurance status) can be used to select analytic subsamples. The other identifiers indicate the participant's baseline family (BFAMILY) and household (BHH).

INSTAT distinguishes participants who were ever insured under the HIE (INSTAT = 1) from those never insured under the HIE (INSTAT = 3). It also identifies members of the HMO control group (INSTAT = 2), who retained their HMO insurance, in contrast to the HMO experimental group, which was insured under the HIE. "Never insured" participants include the baseline-only sample and adjunct enrollees.

Enrollment-related variables identify baseline families and households, family head at enrollment, and conditions of enrollment such as the assigned insurance plan and enrollment date and term.

Demographic variables describe participants by age, sex, race, marital status, education, occupation, wage, and income. *Health-related* variables indicate attitudes, health insurance status, receipt of welfare or other public assistance, presence of a regular medical or dental health care provider, and the previous year's medical and dental expenses.

The amount of data for participants on this file depends on their category and how long they were associated with the experiment. Insured enrollees, members of the Dayton control group, and persons of interest

who were in the family at the time of the baseline interview but were never insured have full data. Baseline-only participants have demographic and health-related data but lack most of the enrollment-related variables. Persons of interest who joined the family just before enrollment have only enough data needed to judge their eligibility. Persons of interest cannot be identified from data in this file; for that purpose it is necessary to use the eligibility-family changes file. For families of interest, only basic identification data were collected. Being self-supporting, families of interest are unimportant in economic analyses because they did not contribute to or use the income pool from which insured families paid for health care.

MISSING VALUES

Missing data are represented by the SAS dot ". ". Understanding which participant groups have missing values often requires studying the construction. There are basically two kinds of missing values:

- "True" missing values occur when a person should have data but does not. The discrepancy can occur for several reasons: The question was left off the survey by mistake; the person was asked the question but did not answer; or the person answered two or more related questions and gave conflicting answers. Also, some data come from the baseline questionnaire, which was administered to everyone considered for enrollment, and other data come from the EVF, which was administered to a subset of the baseline sample. Note that the same variable can come from the baseline questionnaire in one site and the EVF in other sites.
- "Not applicable" values occur when a person was not asked a question intentionally. For example, income and employment questions were not asked of persons under 16 years of age.

Conversely, some people who should have "not applicable" values were asked the questions and do have data. For example, a few children under 16 were asked the income and employment questions. Their values have been left on the file so the user can decide how to handle them.

For each variable, we have indicated next to the "." which groups of people have missing values. For reasons explained above, some of the persons in these groups do have data. The user must decide what to do with them.

CODEBOOK USE

Because it contains complete variable descriptions, this codebook is a basic reference for users of the full sample demographic file. As the only HIE file containing demographic data, this file is also necessary to use in selecting subsamples for analyses of substantive data in other HIE files.

FULL SAMPLE DEMOGRAPHIC FILE

VARIABLE	FILENAME	FSD; HEADER	FILENAME	FREQ	CUM FREQ	%	CUM %
Name of file	DSFOAA	26148	26148	100.00	100.00	100.00	100.00
FILENAME is a unique 6-character code that identifies this file as DSFOAA.							
VARIABLE PERSON							
Person identifier							
PERSON is an 8-character alphanumeric code that uniquely identifies each person for whom the HIE collected data.							
The 2nd character designates the site in which the person resided at baseline/enrollment: A=Dayton, B=Seattle, C=Fitchburg, D=Franklin County, E=Charleston, F=Georgetown County.							

VARIABLE	SITE	FSD; HEADER	SITE	VALUE	FREQ	CUM FREQ	%	CUM %
Site				1	5021	5021	19.20	19.20
CODES				2	7604	12625	29.08	48.28
				3	2885	15510	11.03	59.32
1	Dayton, Ohio			4	3420	18930	13.08	72.40
2	Seattle, Washington			5	3587	22517	13.72	86.11
3	Fitchburg, Massachusetts			6	3631	26148	13.89	100.00
4	Franklin County, South Carolina							
5	Charleston, South Carolina							
6	Georgetown County, South Carolina							
SITE identifies the participant's place of residence when the baseline instrument was administered.								
VARIABLE	INSTAT	FSD; HEADER	INSTAT	VALUE	FREQ	CUM FREQ	%	CUM %
Insurance status				1	7438	7438	28.45	28.45
CODES				2	816	8254	3.12	31.57
				3	17894	26148	68.43	100.00
1	Ever HIE-insured							
2	Ever HMO-insured							
3	Never insured							
INSTAT describes the participant's insurance status in the Health Insurance Experiment.								

SOURCE: Document accountability file

VARIABLE	BFAMILY	FSD; HEADER
Baseline family identifier		
CODES		
blank = Missing BFAMILY is an 8-character alphanumeric code that uniquely identifies a family in which one or more persons were screened for enrollment. All persons in the family at baseline received this identifier.		

VARIABLE	BHH	FSD; HEADER
Baseline household identifier		
CODES		
blank = Missing BHH is an 8-character alphanumeric code that uniquely identifies a household in which one or more families were screened for enrollment. All persons in the household at baseline received this identifier.		

VARIABLE	XPERSON	FSD; HEADER
CODES	Head of enrollment family identifier	
blank	- Missing or not enrolled	

XPERSON identifies the head of the family at enrollment-- female head if present. If no head is present (rare), the oldest child of the family is designated XPERSON. The identifier is the same 8-character alphanumeric code as in variable PERSON.

VARIABLE	BASELD	FSD
Baseline date		
RANGE		

- Missing or participant joined experiment after baseline period
19740610 to 19761215

BASELD identifies the date on which baseline instruments were administered to the participant (YYYYMMDD).

INPUT VARIABLES

Site	HIEI	Variables
Dayton	15	DE156 (Dayton) DATE OF BASELINE
Seattle	(#)	INTERVIEW--MONTH
Massachusetts	92	(Dayton) DATE OF BASELINE
South Carolina	147	INTERVIEW--DAY
		(Dayton) DATE OF BASELINE
		INTERVIEW--YEAR

(cont.)

VARIABLE BASELD (cont.)

INPUT VARIABLES (cont.)

DEI1429 (NonDayton) BASELINE COMPLETION
DATE--MONTH
DEI1430 (NonDayton) BASELINE COMPLETION
DATE--DAY
DEI1431 (NonDayton) BASELINE COMPLETION
DATE--YEAR
FIRSTC (First contact date, from
eligibility-family changes
file)

#Through administrative oversight, this date was not recorded
for Seattle participants. We estimate BASELD for them by using
data from another file in the master sample series (see
"CONSTRUCTION").

CONSTRUCTION

(Dayton)

(From baseline data. If the month (DEI56) was missing or
out of range, the value was set to 07; if day (DEI57) was
missing or out of range, the value was set to 15.)

$$\text{BASELD} = (10000*\text{DEI58}) + (100*\text{DEI56}) + \text{DEI57};$$

(Seattle)

(From eligibility-family changes file.)

$$\text{BASELD} = \text{FIRSTC};$$

(Massachusetts and South Carolina)

(From baseline data. If the month (DEI1429) was missing or
out of range, the value was set to 07; if day (DEI1430) was
missing or out of range, the value was set to 15.)

$$\text{BASELD} = (10000*\text{DEI1431}) + (100*\text{DEI1429}) + \text{DEI1430};$$

VARIABLE	ENRTERM	FSD	VALUE	FREQ	CUM FREQ	%	CUM %
Term of enrollment							
CODES							
0	None--person never enrolled or was a persons of interest	16673	16673	63.76	63.76		
2	None--participant in PEG period only	552	17225	2.11	65.88		
3	3 years	4876	22101	18.65	84.52		
5	5 years	4047	26148	15.48	100.00		

ENRTERM distinguishes the participants who accepted 3-year and 5-year terms of enrollment (including ever-insured and Dayton control group).

SOURCE: Document accountability file

VARIABLE	ENRDATE	FSD	VALUE	FREQ	CUM FREQ	%	CUM %
Family enrollment date							
RANGE							
19741101	19741101	16673	16673	125	125	1.32	1.32
19741201	19741201	521	521	646	5.50	6.82	
19750101	19750101	581	581	1227	6.13	12.95	
19750201	19750201	650	650	1877	6.86	19.81	
19760101	19760101	47	47	1924	0.50	20.31	
19760201	19760201	188	188	2112	1.98	22.29	
19760301	19760301	150	150	2262	1.58	23.87	
19760401	19760401	380	380	2642	4.01	27.88	
19760501	19760501	726	726	3368	7.66	35.55	
19760601	19760601	647	647	4015	6.83	42.38	
19760701	19760701	603	603	4618	6.36	48.74	
19760801	19760801	897	897	5515	9.47	58.21	
19760901	19760901	966	966	6481	10.20	68.40	
19761001	19761001	457	457	6938	4.82	73.22	
19761101	19761101	102	102	7040	1.08	74.30	
19761201	19761201	280	280	7320	2.96	77.26	
19761231	19761231	362	362	7682	3.82	81.08	
19770131	19770131	326	326	8008	3.44	84.52	
19781101	19781101	216	216	8224	2.28	86.80	

(cont.)

VARIABLE ENRDAT E (cont.)

VARIABLE	ANND	FSID	VALUE	FREQ	CUM FREQ	%	CUM %
Anniversary date							
CODES							
0101	-	Missing, person of interest, or never enrolled	101	16673	1089	11.49	11.49
0131	-	Dayton, Seattle, Charleston, Georgetown	131	326	1415	3.44	14.93
0201	-	Charleston, Georgetown	201	1024	2439	10.81	25.74
0201	-	Dayton, Seattle, Charleston, Georgetown	301	150	2589	1.58	27.33
0301	-	Seattle	401	380	2969	4.01	31.34
0401	-	Seattle	501	726	3695	7.66	39.00
0501	-	Seattle	601	647	4342	6.83	45.83
0601	-	Seattle	701	603	4945	6.36	52.19
0701	-	Seattle, Fitchburg, Franklin	801	897	5842	9.47	61.66
0801	-	Seattle, Fitchburg, Franklin	901	966	6808	10.20	71.85
0901	-	Seattle, Fitchburg, Franklin	1001	457	7265	4.82	76.68
1001	-	Fitchburg, Franklin	1101	443	7708	4.68	81.35
1101	-	Dayton, Charleston, Georgetown	1201	1405	9113	14.83	96.18
1201	-	Dayton, Charleston, Georgetown	1231	362	9475	3.82	100.00
1231	-	Charleston, Georgetown					

ANND identifies the month and day (MMDD) on which a new contract year began for an enrolled family each year during its term of participation. For families ever insured, ANND derives from the effective date of coverage (same as ENRDAT E). For members of the Dayton control group and South Carolina preenrollment group, ANND derives from the date their participation began.

SOURCE: Sample file

VARIABLE	PLAN	FSD	PLAN	VALUE	FREQ	CUM	%	CUM	%
Assigned insurance plan									
CODES									
0	Person was never assigned to an insurance plan or experimental treatment.		0	16673	16673	63.76	63.76	0.41	64.17
1	Participant pays 100% of covered services until deductible is met, then plan pays 100%. Deductible is \$150 per person or \$450 per family. In effect only 1st year in Dayton; thereafter participants were switched to plan 13.		1	106	16779	0.41	64.58	0.41	64.89
2	Participant pays 100% of covered services until deductible is met, then plan pays 100%. Deductible is 5% of family income or \$1000, whichever is less. In effect only 1st year in Dayton; thereafter participants were switched to plan 14.		2	107	16886	0.31	65.24	0.36	65.24
3	Participant pays 100% of covered services until deductible is met, then plan pays 100%. Deductible is 5% of family income or \$1000, whichever is less. In effect only 1st year in Dayton; thereafter participants were switched to plan 14.		3	80	16966	0.91	66.15	0.91	66.15
4	Participant pays 100% of covered services until deductible is met, then plan pays 100%. Deductible is 10% of family income or \$1000, whichever is less. In effect only 1st year in Dayton; thereafter participants were switched to plan 15.		4	93	17059	0.92	67.08	0.92	67.08
5	Participant pays 100% of covered services until deductible is met, then plan pays 100%. Deductible is 15% of family income or \$1000, whichever is less. In effect only 1st year in Dayton; thereafter participants were switched to plan 16.		5	239	17298	0.76	67.83	0.76	67.83
6	Participant pays 25% of covered services until maximum expenditure is spent, then plan pays 100%. Maximum out-of-pocket expenditure is 5% of family income or \$1000 (\$750#), whichever is less.		6	241	17539	0.68	68.09	0.26	68.09
7	Participant pays 25% of covered services until maximum expenditure is spent, then plan pays 100%. Maximum out-of-pocket expenditure is 10% of family income or \$1000 (\$750#), whichever is less.		7	198	17737	0.66	68.35	0.25	68.35
			8	68	17805	0.66	68.35	1.03	69.37
			9	66	17871	0.25	68.35	7.85	77.22
			10	269	18140	0.03	69.37	20192	20192
			11	2052	21449	4.81	82.03	21749	21749
			12	1257	21447	1.15	83.18	2677	22016
			13	300	21749	1.02	84.20	359	22375
			14	14	21749	1.37	85.57	175	22550
			15	15	22016	0.67	86.24	200	22750
			16	16	22375	0.77	87.01	146	22896
			17	17	22550	0.56	87.56	1215	24111
			18	18	22750	4.65	92.21	552	24663
			19	19	22896	2.11	94.32	98	25479
			20	30	24111	3.12	97.44	669	26148
			21	97	24663	2.56	100.00		
			22	98	25479				
			23	99	26148				

(cont.)

VARIABLE PLAN (cont.)

-
- 8 - Participant pays 50% of covered services until maximum is spent, then plan pays 100%. Maximum out-of-pocket expenditure is 5% of family income or \$1000, whichever is less.
 - 9 - Participant pays 50% of covered services until maximum is spent, then plan pays 100%. Maximum out-of-pocket expenditure is 10% of family income or \$1000, whichever is less.
 - 10 - Participant pays 50% of covered services until maximum is spent, then plan pays 100%. Maximum out-of-pocket expenditure is 15% of family income or \$1000, whichever is less.
 - 11 - Participant pays nothing out-of-pocket for covered services.
 - 13 - Participant pays nothing out-of-pocket for covered inpatient services but pays 95% of covered outpatient services until deductible is met. Then plan pays 100%. Deductible is \$150 per person or \$450 per family.
 - 14 - Participant pays 95% of covered services until maximum is spent, then plan pays 100%. Maximum out-of-pocket expenditure is 5% of family income or \$1000, whichever is less.
 - 15 - Participant pays 95% of covered services until maximum is spent, then plan pays 100%. Maximum out-of-pocket expenditure is 10% of family income or \$1000, whichever is less.
 - 16 - Participant pays 95% of covered services until maximum is spent, then plan pays 100%. Maximum out-of-pocket expenditure is 15% of family income or \$1000, whichever is less.
 - 17 - Participant pays 25% of covered medical services and 50% of dental and outpatient psychiatric services until maximum is spent, then plan pays 100%. Maximum out-of-pocket expenditure is 5% of family income or \$1000 (\$750#), whichever is less.

(cont.)

VARIABLE PLAN (cont.)

- 18 - Participant pays 25% of covered medical services and 50% of dental and outpatient psychiatric services until maximum is spent, then plan pays 100%. Maximum out-of-pocket expenditure is 10% of family income or \$1000 (\$750#), whichever is less.
- 19 - Participant pays 25% of covered medical services and 50% of dental and outpatient psychiatric services until maximum is spent, then plan pays 100%. Maximum out-of-pocket expenditure is 15% of family income or \$1000 (\$750#), whichever is less.
- 30 - Member of HMO experimental group (families randomly assigned to the HMO as part of the experiment).
- 97 - Never insured through the HIE--participant in PEG period only
- 98 - Member of HMO control group (families in the HMO before the experiment).
- 99 - Never insured through the HIE--member of Dayton control group.

\$1000 in the early site-years (see footnote 11, p. 4).

PLAN identifies the insurance plan or experimental treatment to which participant was assigned at enrollment. For most participants, PLAN is that assigned when the family enrolled. However, if the family's plan changed and the participant was enrolled afterward (e.g., as a newborn), PLAN is the new plan.

SOURCE: Document accountability file

VARIABLE	MDEOFF	FSD	NUMBER OF OBSERVATIONS	NUMBER OF MISSING
Maximum dollar expenditure assigned at enrollment			MEAN 409.93 450.00 0.00 1000.00	MEAN 409.93 450.00 0.00 1000.00
CODES	<ul style="list-style-type: none"> - MDE missing or not assigned (includes plan 30) 0 - assigned to plan 11, or no income Dollar amount 		MINIMUM VALUE MAXIMUM VALUE STANDARD DEVIATION COEFFICIENT OF VARIATION SKWNESS KURTOSIS	MINIMUM VALUE MAXIMUM VALUE STANDARD DEVIATION COEFFICIENT OF VARIATION SKWNESS KURTOSIS
MDEOFF	MDEOFF indicates the maximum annual amount the enrollee's family would have to pay out-of-pocket before health care was free under the HIE. That "maximum dollar expenditure" (MDE) was a function of the family's assigned HIE insurance plan. For most plans (see variable PLAN), MDE was a specified portion of family income (5, 10, or 15% up to \$1,000 or \$750, depending on the site-year). For plans 1 and 13, the maximum was \$150 per person or \$450 per family. For plan 11, the maximum was \$0.			
SOURCE:	Participant master file			
VARIABLE	PIOFF	FSD	NUMBER OF OBSERVATIONS	NUMBER OF MISSING
Participation incentive offered at enrollment			MEAN 381.45 315.15 0.00	MEAN 381.45 315.15 0.00
CODES	<ul style="list-style-type: none"> - PI missing or not HIE-insured 0 - not offered Dollar amount 		MINIMUM VALUE MAXIMUM VALUE STANDARD DEVIATION COEFFICIENT OF VARIATION SKWNESS KURTOSIS	MINIMUM VALUE MAXIMUM VALUE STANDARD DEVIATION COEFFICIENT OF VARIATION SKWNESS KURTOSIS
PIOFF	PIOFF indicates the amount offered the enrollee's family as a participation incentive during the first year of enrollment. Appendix A defines participation incentive payments.			
	(cont.)			

VARIABLE PIOFF (cont.)

INPUT VARIABLES	
Site	file
Dayton	Participant master file
Seattle	DEI1676 (Payment guarantee)
Massachusetts	DEI1677 (Premium reimbursement)
South Carolina	

CONSTRUCTION

$$\text{PIOFF} = \text{SUM(DEI1676, DEI1677);}$$

VARIABLE	SUPERPI	FSD	SUPERPI	CUM FREQ	%	CUM %
Super PI offered	CODES	VALUE	1	24364	799	44.79
1 - Yes		1	799	1784	55.21	44.79
2 - No		2	985			100.00

- Missing or not applicable

SUPERPI indicates whether the enrollee's family was offered a bonus participation incentive payment in the next-to-last year of the family's assigned enrollment term. The bonus was offered to a sample of families assigned to plans requiring 95 percent coinsurance. For details, see Appendix A.

SOURCE: Participant master file

VARIABLE	SEX	FSD	SEX	CUM FREQ	%	CUM %
Sex				63		
CODES			0	13398	13398	51.36
			1	12687	26085	48.64
						100.00

- Missing
0 - Female
1 - Male

SEX defines the participant's sex.

SOURCE:	Sex/birth file	
VARIABLE	AGE	FSD
Age at enrollment		
		CODES
		<ul style="list-style-type: none"> · Missing · A = Born after family's enrollment date 0 = Less than 1 year old <p>AGE identifies the participant's age at his/her last birthday.</p>

483	4656	1.92	18.47
469	5125	1.86	20.34
505	5630	2.00	22.34
553	6183	2.19	24.53
554	6737	2.20	26.73
539	7276	2.14	28.87
573	7849	2.27	31.14
569	8418	2.26	33.40
597	9015	2.37	35.77
566	9581	2.25	38.05
527	10108	2.09	40.11
			(cont.)

(cont.)

VARIABLE AGE (cont.)

CONSTRUCTION

{ For participants who were not insured, ENRDATE = the last enrollment date in the site; Dayton, 02/01/75; Seattle, 09/01/76; Massachusetts, 10/01/76; South Carolina, 01/31/77. }

AGE = ENRDATE - BIRTHDAT;

VALUE	FREQ	CUM FREQ	CUM %	CUM %
20	20	.531	10639	2.11
21	512	11151	2.03	44.25
22	520	11671	2.06	46.31
23	509	12180	2.02	48.33
24	535	12717	2.13	50.46
25	535	13252	2.12	52.58
26	556	13808	2.21	54.79
27	526	14334	2.09	56.87
28	524	14858	2.08	58.95
29	473	15331	1.88	60.83
30	443	15774	1.76	62.59
31	442	16216	1.75	64.34
32	400	16616	1.59	65.93
33	384	17000	1.52	67.45
34	354	17354	1.41	68.86
35	289	17643	1.15	70.00
36	288	17931	1.14	71.15
37	307	18238	1.22	72.36
38	247	18485	0.98	73.34
39	257	18742	1.02	74.36
40	257	18999	1.02	75.38
41	245	19244	0.97	76.36
42	252	19496	1.00	77.36
43	262	19758	1.04	78.40
44	244	20002	0.97	79.36
45	250	20252	0.99	80.36
46	239	20491	0.95	81.30
47	247	20738	0.98	82.28
48	271	21009	1.08	83.36
49	282	21291	1.12	84.48
50	254	21545	1.01	85.49
51	274	21819	1.09	86.57
52	276	22095	1.10	87.67
53	287	22382	1.14	88.81
54	274	22656	1.09	89.89
55	257	22913	1.02	90.91
56	291	23204	1.16	92.07
57	242	23446	0.96	93.03
58	223	23669	0.89	93.91
59	231	23900	0.92	94.83
60	238	24138	0.94	95.77
61	202	24340	0.80	96.58
62	137	24477	0.54	97.12
63	92	24569	0.37	97.48
64	86	24655	0.34	97.83
65	55	24710	0.22	98.04
66	51	24761	0.20	98.25
67	51	24812	0.20	98.45
68	48	24860	0.19	98.64

(cont.)

VARIABLE AGE (cont.)

VALUE	FREQ	CUM FREQ	%	CUM %
69	38	24898	0.15	98.79
70	23	24921	0.09	98.88
71	31	24952	0.12	99.00
72	19	24971	0.08	99.08
73	23	24994	0.09	99.17
74	20	25014	0.08	99.25
75	23	25037	0.09	99.34
76	19	25056	0.08	99.42
77	17	25073	0.07	99.48
78	18	25091	0.07	99.56
79	15	25106	0.06	99.62
80	11	25117	0.04	99.66
81	16	25133	0.06	99.72
82	11	25144	0.04	99.77
83	8	25152	0.03	99.80
84	12	25164	0.05	99.85
85	6	25170	0.02	99.87
86	6	25176	0.02	99.89
87	3	25179	0.01	99.91
88	2	25181	0.01	99.91
89	6	25187	0.02	99.94
90	7	25194	0.03	99.96
91	1	25195	0.00	99.97
92	2	25197	0.01	99.98
93	1	25198	0.00	99.98
94	1	25199	0.00	99.98
96	1	25200	0.00	99.99
97	1	25201	0.00	99.99
98	2	25203	0.01	100.00

RACE

VALUE	FREQ	CUM FREQ	%	CUM %
1	12612	12612	85.21	85.21
2	11534	11534	13.22	98.43
3	1789	13323	1.57	100.00
	213	13536		

VAR	RACE	VAR	RACE
Race		Race	
CODES		CODES	
1	Missing or not family head	1	12612
2	White	2	11534
3	Black	3	1789
	Other		213
			13536

RACE identifies the race of the family head.

(cont.)

VARIABLE RACE (cont.)

INPUT VARIABLES

Site	HIE#	Variable
Dayton	15/43,50	DE1284 (Dayton) FOR HEAD(S) ONLY.
Seattle	63,126	INTERVIEWER OBSERVATION:
Massachusetts	92,182	1. White/Non-Spanish
South Carolina	147,193	2. Black/Non-Spanish
		3. Oriental
		4. Puerto Rican
		5. Mexican-American
		6. American Indian
		10. Other, specify
	DE12800	(NonDayton) CODE A BY OBSERVATION ONLY. DO NOT ASK. A. RACE: 1. White 2. Black 3. Other

CONSTRUCTION

(Dayton)

(From baseline data.)

```
IF 1 <= DE1284 <= 6 | DE1284 = 10
THEN DO;
    IF DE1284 = 1
        THEN RACE = 1;
    ELSE IF DE1284 = 2
        THEN RACE = 2;
    ELSE RACE = 3;
END;
```

(cont.)

VARIABLE RACE (cont.)

CONSTRUCTION (cont.)

{For persons not present at baseline, RACE was constructed from EVF "new head" supplement.)

```
IF 1 <= DE1284 <= 6 | DE1284 = 10
THEN DO;
  IF DE1284 = 1
    THEN RACE = 1;
  ELSE IF DE1284 = 2
    THEN RACE = 2;
  ELSE RACE = 3;
END;
```

(Seattle, Massachusetts, and South Carolina)

(From baseline data or EVF "new head" supplement (for persons not present at baseline).)

```
IF 1 <= DE12800 <= 3 THEN RACE = DE12800;
```

VARIABLE	ETHNOS	FSD	ETHNOS	CUM FREQ	%	CUM %
Ethnicity	VALUE		1	13147	.76	.59
CODES			2	32	108	0.25
1	- Missing or not family head		3	116	224	0.89
2	- Spanish		4	12777	13001	1.72
3	- American Indian					0.83
4	- Oriental					0.59
						100.00

ETHNOS defines the ethnic group of the family head.

(cont.)

VARIABLE ETHNOS (cont.)

INPUT VARIABLES

Site	HIEI	Variable
Dayton	15/43,50	DE1284 (Dayton) FOR HEAD(S)
Seattle	63,126	ONLY INTERVIEWER OBSERVATION:
Massachusetts	92,182	1. White/Non-Spanish
South Carolina	147,193	2. Black/Non-Spanish
		3. Oriental
		4. Puerto Rican
		5. Mexican-American
		6. American Indian
		10. Other, specify
		DE12801 (NonDayton) CODE B BY OBSERVATION ONLY.
		DO NOT ASK.
		B. ORIGIN OR DESCENT:
		1. Puerto Rican, Mexican American, or other Spanish
		2. American Indian
		3. Oriental
		4. None of these
		5. Not observable (code absent in Seattle EVF)

CONSTRUCTION

(Dayton)

(From baseline data or EVF "new head" supplement (for persons not present at baseline).)

```
IF 1 <= DE1284 <= 6 | DE1284 = 10  
THEN DO;  
  IF DE1284 = 4 | DE1284 = 5  
    THEN ETHNOS = 1;  
  ELSE IF DE1284 = 6  
    THEN ETHNOS = 2;  
  ELSE IF DE1284 = 3  
    THEN ETHNOS = 3;  
  ELSE ETHNOS = 4;  
END;
```

(cont.)

VARIABLE ETHNOS (cont.)

CONSTRUCTION (cont.)

(Seattle, Massachusetts and South Carolina)

(From baseline data or EVF "new head" supplement (for persons not present at baseline).)

IF 1 <= DEI2801 <= 4 THEN ETHNOS = DEI2801;

VAR ABLE	MARSTAT	FSD	MARSTAT	FREQ	CUM	FREQ	CUM	%	CUM	%
CODES	Marital status		VALUE		1	5254	5254	23.29	23.29	23.29
1	- Missing or Dayton respondent younger than 14		2	998	2	6252	6252	4.42	27.71	27.71
2	- Never married		3	444	3	6696	6696	1.97	29.68	29.68
3	- Divorced		4	650	4	7346	7346	2.88	32.56	32.56
3	- Separated		5	10051	5	17397	17397	44.55	77.11	77.11
4	- Widowed		6	61	6	17458	17458	0.27	77.38	77.38
5	- Married, spouse present		7	3	17461	17461	0.01	77.40	77.40	
6	- Married, spouse absent		8	5100	8	22561	22561	22.61	100.00	100.00
8	- Not applicable									

MARSTAT describes the participant's marital status.

INPUT VARIABLES

Site	HIEI	Variable
Dayton	9,15/43,39	(Dayton) What is your
Seattle	62,123	marital status? (At
Massachusetts	91,176	enrollment/base line)
South Carolina	146,187	1. Never married
		2. Married to _____
		3. Divorced
		4. Separated
		5. Widowed
		(cont.)

VARIABLE MARSTAT (cont.)
INPUT VARIABLES (cont.)

- DEI 318 (Dayton) Are you married, never married, divorced, separated, or widowed?
1. Married
2. Never married
3. Divorced
4. Separated
5. Widowed
9. Not applicable
(Dayton) Spouse listed?
1. Yes
2. No
- (NonDayton) CIRCLE ONE:
1. Spouse in household
6. Spouse absent
(Dayton) You say that you are married to (SPOUSE), but I don't seem to have (HIM/HER) listed as living here.
1. Here
2. Not here/not listed
8. No response
(NonDayton) Are you now married, widowed, divorced, separated, or have you never been married?
1. Married
2. Widowed
3. Divorced
4. Separated
5. Never married
8. Under 14 years old
(Dayton) Are you married never married, divorced, separated, or widowed?
1. Married
2. Never married
3. Divorced
4. Separated
5. Widowed
9. Not applicable
(cont.)

VARIABLE MARSTAT (cont.)
 INPUT VARIABLES (cont.)

```
DE17657 (NonDayton)
    Marriage Codes
        1. Married
        2. Widowed
        3. Divorced
        4. Separated
        5. Never married
        6. Married, spouse absent
AGE Participant's age
```

CONSTRUCTION

(Dayton)

{From EVF data.}

```
IF DE12914 = 2
    THEN MARSTAT = 1;
ELSE IF DE12914 = 3 THEN MARSTAT = 2;
ELSE IF DE12914 = 4 THEN MARSTAT = 3;
ELSE IF DE12914 = 5 THEN MARSTAT = 4;
ELSE IF DE12914 = 9 THEN MARSTAT = 8;
ELSE IF DE12914 = 1 AND (DE1321 = 1 OR DE1319 = 1)
    THEN MARSTAT = 5;
ELSE IF DE12914 = 1 AND (DE1321 = 2 AND DE1319 = 2)
    THEN MARSTAT = 6;
ELSE IF DE12914 = 1 AND (DE1321 \= 1 AND DE1321 \= 2
    AND DE1319 \= 1 AND DE1319 \= 2)
    THEN MARSTAT = 7;
```

(MARSTAT was constructed from baseline data if marital status was missing from EVF data.)

```
IF DE1318 = 2 THEN MARSTAT = 1;
ELSE IF DE1318 = 3 THEN MARSTAT = 2;
ELSE IF DE1318 = 4 THEN MARSTAT = 3;
ELSE IF DE1318 = 5 THEN MARSTAT = 4;
ELSE IF DE1318 = 9 THEN MARSTAT = 8;
ELSE IF DE1318 = 1 AND (DE1321 = 1 OR DE1319 = 1)
    THEN MARSTAT = 5;
ELSE IF DE1318 = 1 AND (DE1321 = 2 AND DE1319 = 2)
    THEN MARSTAT = 6;
ELSE IF DE1318 = 1 AND (DE1321 \= 2) AND DE1321 \= 1
    AND (DE1319 \= 2 AND DE1319 \= 1)
    THEN MARSTAT = 7;
IF MARSTAT = 1 AND AGE <= 14
    THEN MARSTAT = 8;
```

(cont.)

VARIABLE MARSTAT (cont.)

CONSTRUCTION (cont.)

(MARSTAT was constructed from screening data if marital status was missing from EVF and baseline data.)

```
IF DEI114 =  
  THEN IF AGE <= 14 THEN MARSTAT = 8;  
  ELSE IF DEI114 = 1 THEN MARSTAT = 1;  
  ELSE IF DEI114 = 2 THEN MARSTAT = 5;  
  ELSE IF DEI114 = 3 THEN MARSTAT = 2;  
  ELSE IF DEI114 = 4 THEN MARSTAT = 3;  
  ELSE IF DEI114 = 5 THEN MARSTAT = 4;
```

(Seattle and South Carolina)

(From EVF data. DS17657 = 32 when the response to DE17657 is
inapplicable.)

```
IF (DE17657 = .) AND (DE1362 \= .)  
THEN DO;
```

```
DE17657 = DE1362;  
IF DE1319 = 6 THEN DE17657 = 6;  
END;
```

```
IF DE17657 = 5 THEN MARSTAT = 1;  
ELSE IF DE17657 = 3 THEN MARSTAT = 2;  
ELSE IF DE17657 = 4 THEN MARSTAT = 3;  
ELSE IF DE17657 = 2 THEN MARSTAT = 4;  
ELSE IF DE17657 = 6 THEN MARSTAT = 6;  
ELSE IF DE17657 = 1  
THEN IF DS17657 = 32  
    THEN MARSTAT = 8;  
    ELSE MARSTAT = 5;
```

(cont.)

VARIABLE MARSTAT (cont.)

CONSTRUCTION (cont.)

(MARSTAT was constructed from screening data if marital status was missing from EVF data. DS1362 = 32 when the response to DE1362 is inapplicable.)

```
IF DE1362 = . AND DS1362 = 32 THEN MARSTAT = 8;  
ELSE IF DE1362 = 8 THEN MARSTAT = 8;  
ELSE IF DE1362 = 5 THEN MARSTAT = 1;  
ELSE IF DE1362 = 3 THEN MARSTAT = 2;  
ELSE IF DE1362 = 4 THEN MARSTAT = 3;  
ELSE IF DE1362 = 2 THEN MARSTAT = 4;  
ELSE IF DE1362 = 1 THEN MARSTAT = 5;  
ELSE IF DE1319 = 2 THEN MARSTAT = 6;  
ELSE MARSTAT = 7;  
  
IF MARSTAT = 1 AND AGE <= 14  
THEN MARSTAT = 8;
```

(Massachusetts)

(From EVF data. DS17657 = 32 when the response to DE17657 is inapplicable.)

```
IF DE17657 = 5 THEN MARSTAT = 1;  
ELSE IF DE17657 = 3 THEN MARSTAT = 2;  
ELSE IF DE17657 = 4 THEN MARSTAT = 3;  
ELSE IF DE17657 = 2 THEN MARSTAT = 4;  
ELSE IF DE17657 = 6 THEN MARSTAT = 6;  
ELSE IF DE17657 = 1 THEN IF DS17657 = 32  
THEN MARSTAT = 8;  
ELSE MARSTAT = 5;
```

(MARSTAT was constructed from screening data if marital status was missing from EVF data. DS1362 = 32 when the response to DE1362 is inapplicable.)

```
IF DE1362 = . AND DS1362 = 32 THEN MARSTAT = 8;  
ELSE IF DE1362 = 8 THEN MARSTAT = 8;  
ELSE IF DE1362 = 5 THEN MARSTAT = 1;  
ELSE IF DE1362 = 3 THEN MARSTAT = 2;  
ELSE IF DE1362 = 4 THEN MARSTAT = 3;  
ELSE IF DE1362 = 2 THEN MARSTAT = 4;  
ELSE IF DE1362 = 1 THEN IF DE1319 = 1  
THEN MARSTAT = 5;  
ELSE IF DE1319 = 2 THEN MARSTAT = 6;  
ELSE MARSTAT = 7;
```

(cont.)

VARIABLE MARSTAT (cont.)
CONSTRUCTION (cont.)

IF MARSTAT = 1 AND AGE <= 14
THEN MARSTAT = 8;

VARIABLE	EDUCPER	FSD	Variable
Education			
CODES			
- Missing, Dayton respondent younger than 18, or nonDayton respondent younger than 16	0	0.5	0.0
0 - 28#	1	1.1	52
EDUCPER shows the years of school completed by adult participants.	1.5	1.1	53
	2	45	74
	2.5	120	75
	3	122	0.01
	3.3	96	0.29
	3.5	218	0.78
	4	100	0.01
	4.5	321	0.01
	5	323	0.02
	5.5	457	1.41
	6	706	0.62
#Allowable maximum varied by site: Dayton, no maximum; Seattle, 22 years; Massachusetts and South Carolina, 24 years.	6.5	707	0.02
	7	1106	1.43
	7.5	1108	0.01
	8	1931	2.09
	8.5	5338	2.95
	9	5340	2.96
	9.5	10903	4.56
	10	1019	4.57
INPUT VARIABLES			
Site	HIEI	Variable	
Dayton	15/43, 36	DEI1633	What is the highest grade in school you have attended?
Seattle	62, 63, 125		Did you complete that grade?
Massachusetts	91, 92, 181		1. Yes
South Carolina	146, 147, 192		2. No

VARIABLE	EDUCPER	VALUE	FREQ	CUM FREQ	%	CUM %
Education		0	10665	52	0.34	0.34
CODES		0.5	1	53	0.01	0.34
- Missing, Dayton respondent younger than 18, or nonDayton respondent younger than 16	1	21	74	74	0.14	0.48
0 - 28#	1.5	1	75	75	0.01	0.48
EDUCPER shows the years of school completed by adult participants.	2	45	120	122	0.01	0.78
	2.5	2	122	122	0.01	0.79
	3	96	218	218	0.62	1.41
	3.3	3	221	221	0.02	1.43
	3.5	3	321	321	0.65	2.07
	4	100	323	323	0.01	2.09
	4.5	2	323	323	0.01	2.09
	5	134	457	457	0.87	2.95
	5.5	1	458	458	0.01	2.96
#Allowable maximum varied by site: Dayton, no maximum; Seattle, 22 years; Massachusetts and South Carolina, 24 years.	6	248	706	706	1.60	4.56
	6.5	1	707	707	0.01	4.57
	7	399	1106	1106	2.58	7.14
	7.5	2	1108	1108	0.01	7.16
	8	823	1931	1931	5.32	12.47
	8.5	3	1934	1934	0.02	12.49
	9	1055	2989	2989	6.81	19.31
	9.5	3	2992	2992	0.02	19.32
	10	1208	4200	4200	7.80	27.13
	10.5	9	4209	4209	0.06	27.19
	11	1129	5338	5338	7.29	34.48
	11.5	2	5340	5340	0.01	34.49
	12	5563	10903	10903	35.93	70.42
	12.5	1	10904	10904	0.01	70.43
	13	1019	11923	11923	6.58	77.01

(cont.)

(cont.)

		VALUE	FREQ	CUM FREQ	%	CUM %
DE16044	(NonDayton) What is the highest grade or year of regular school attended? ever attended?	13.5	1	11924	0.01	77.01
	(NonDayton) Did you complete that grade (year)?	14	1024	12948	6.61	83.63
		15	476	13424	3.07	86.70
		16	1251	14675	8.08	94.78
DE16045	(NonDayton) Did you complete that grade (year)?	17	305	14980	1.97	96.75
	1.	18	275	15255	1.78	98.53
	2.	19	99	15354	0.64	99.17
	No	20	81	15435	0.52	99.69
	Yes	21	23	15458	0.15	99.84
	No	22	15	15473	0.10	99.94
	Yes	23	4	15477	0.03	99.96
	No	24	2	15479	0.01	99.97
	Yes	25	3	15482	0.02	99.99
	No	28	1	15483	0.01	100.00

VARIABLE EDUCPER (cont.)

INPUT VARIABLES (cont.)

```

DE16044 (NonDayton) What
is the highest grade
or year of regular
school attended?
ever attended?

DE16045 (NonDayton) Did
you complete that
grade (year)?
1. Yes
2. No

```

CONSTRUCTION

(Dayton)

(EDUCPER was constructed from EVF new person supplement for those
not present at baseline.)

```

IF DE11633 >= 0
THEN DO;

```

```

  IF DE11634 = 1
  THEN EDUCPER = DE11633;
  ELSE IF DE11634 = 2
  THEN EDUCPER = DE11633 - 1;
  ELSE EDUCPER = DE11633 - .5;
END;

```

(From baseline data for all others.)

```

IF DE11633 >= 0;
THEN DO;

```

```

  IF DE11634 = 1
  THEN EDUCPER = DE11633;
  ELSE IF DE11634 = 2
  THEN EDUCPER = DE11633 - 1;
  ELSE EDUCPER = DE11633 - .5;
END;

```

(cont.)

VARIABLE EDUCPER (cont.)

CONSTRUCTION (cont.)

(Seattle, Massachusetts, and South Carolina)

(EDUCPER was constructed from EVF new person supplement for those not present at baseline. MAX is a temporary variable denoting the maximum allowable number of years.)

```
IF 0 <= DE11633 <= MAX
  THEN DO;
    IF DE11634 = 1
      THEN EDUCPER = DE11633;
    ELSE IF DE11634 = 2
      THEN EDUCPER = DE11633 - 1;
    ELSE EDUCPER = DE11633 - .5;
    IF EDUCPER < 0 THEN EDUCPER = 0;
  END;
```

(From baseline data for those present at baseline. MAX is a temporary variable denoting the maximum allowable number of years.)

```
IF 0 <= DE16044 <= MAX
  THEN DO;
    IF DE16045 = 1
      THEN EDUCPER = DE16044;
    ELSE IF DE16045 = 2
      THEN EDUCPER = DE16044 - 1;
    ELSE EDUCPER = DE16044 - .5;
    IF EDUCPER < 0 THEN EDUCPER = 0;
  END;
```

(EDUCPER was constructed from screening data if the information was missing from baseline and EVF new person supplement data. MAX is a temporary variable denoting the maximum allowable number of years.)

```
IF 0 <= DE11633 <= MAX
  THEN DO;
```

(cont.)

VARIABLE EDUCPER (cont.)

CONSTRUCTION (cont.)

```

IF DE11634 = 1
  THEN EDUCPER = DE11633;
ELSE IF DE11634 = 2
  THEN EDUCPER = DE11633 - 1;
  ELSE EDUCPER = DE11633 - .5;
END;
IF EDUCPER < 0 THEN EDUCPER = 0;

```

VAR ABLE	ECOLLEGE	FSD	CUM FREQ	%	CUM %
College attendance at baseline					
CODES		0	3925	21361	96.12
		1	862	22223	3.88
					100.00
	- Missing				
	0 - No				
	1 - Yes				
ECOLLEGE indicates whether participant was attending college at baseline.					

ECOLLEGE	VALUE	FREQ	CUM FREQ	%	CUM %
	0	2	3361	21361	96.12
	1	862	22223	3.88	100.00

INPUT VARIABLES

Site	HIEI	Variable
Dayton	9	DE12020 (Dayton) Are you a student, not counting elementary or high school?
Seattle	63	(Seattle) Are you currently enrolled in a college or university?
Massachusetts	92	(Massachusetts and South Carolina) Are you currently enrolled in a college or university?
South Carolina	147	1: Yes 2: No

(cont.)

VARIABLE ECOLLEGE (cont.)
INPUT VARIABLES (cont.)

DE12021 (Dayton) Are you a
student?
CIRCLE 1 OR 2
1. Student
2. Non-student
(NonDayton) Are you a
student? CODE "8" FOR
ALL OTHERS.
1. Student
8. Other

CONSTRUCTION
(Dayton)
(From screening data.)

```
IF DE12021 = 1  
    THEN ECOLLEGE = 1;  
ELSE IF DE12021 = 2 OR DE12020 = 2  
    THEN ECOLLEGE = 0;
```

(Seattle, Massachusetts and South Carolina)
(From baseline data.)

```
IF DE12021 = 1  
    THEN ECOLLEGE = 1;  
ELSE IF DE12021 = 8 OR DE12020 = 2  
    THEN ECOLLEGE = 0;
```

VARIABLE	BACKGRND	BACKGRND	FSD	VALUE	FREQ	CUM FREQ	%	CUM %
City background								
CODES								
	- Missing, Dayton respondent younger than 18, or nonDayton respondent younger than 16			1	10574	4710	30.24	30.24
	1 - Large or medium city			2	1719	6429	11.04	41.28
	2 - Suburb			3	5608	12037	36.01	77.29
	3 - Small town			4	3537	15574	22.71	100.00
	4 - Rural area							

BACKGRND describes the degree of urbanization in the place the adult participant was raised.

INPUT VARIABLES		HIEI	Variable
Site			
Dayton	15/43,36	DE11632	(Dayton) During most of the time you were growing up, did you live on a farm, in a small town, in a city, or in a suburb of a city?
Seattle	63,125		1. On a farm 2. In a small town 3. In a city 4. In a suburb of a city
Massachusetts	92,181		(Dayton) During most of the time you were growing up, did you live on a farm, in the country but not on a farm, in a small town, in a city, or in a suburb of a city?
South Carolina	147,192		1. On a farm 2. In country, nonfarm 3. In a small town 4. In a city 5. In a suburb of a city
			(NonDayton) Up to the time you were 16 years old, where did you live (cont.)
			DE16043

VARIABLE BACKGRND (cont.)
INPUT VARIABLES (cont.)

most of the time--in a

suburb near a large city, in a large city of over 250,000, in a medium city of 50,000 to 250,000, a small city or town up to 50,000, in open country not on a farm, or on a farm?

1. Suburb near a large city
2. A large city of over 250,000
3. A medium city of 50,000 - 250,000
4. A small city or town of up to 50,000
5. Open country, not a farm
6. On a farm

CONSTRUCTION

(Dayton)

{ From baseline data. }

```
IF DE11632 = 1 THEN BACKGRND = 4;  
ELSE IF DE11632 = 2 THEN BACKGRND = 3;  
ELSE IF DE11632 = 3 THEN BACKGRND = 1;  
ELSE IF DE11632 = 4 THEN BACKGRND = 2;
```

(For persons not present at baseline, BACKGRND was constructed
from EVF new person supplement data.)

```
IF DE14978 = 4 THEN BACKGRND = 1;  
ELSE IF DE14978 = 5 THEN BACKGRND = 2;  
ELSE IF DE14978 = 3 THEN BACKGRND = 3;  
ELSE IF DE14978 = 1 OR DE14978 = 2;  
THEN BACKGRND = 4;
```

(cont.)

VARIABLE BACKGRND (cont.)

CONSTRUCTION (cont.)

(Seattle, Massachusetts, and South Carolina)

(From baseline or EVF new person supplement data (for persons not present at baseline).)

```

IF DE16043 = 2 OR DE16043 = 3 THEN BACKGRND = 1;
ELSE IF DE16043 = 1 THEN BACKGRND = 2;
ELSE IF DE16043 = 4 THEN BACKGRND = 3;
ELSE IF DE16043 = 5 OR DE16043 = 6
THEN BACKGRND = 4;

```

VARIABLE	INCOME1	FSD
Family income for year preceding enrollment		
CODES		
- Missing		
Dollar amount#		
INCOME1 states the family's income (in 1973 dollars) for the year preceding enrollment.##		

#Values are those provided by respondents.

#In South Carolina, the EVF new person supplement asked about income in 1975, but the responses were mistakenly adjusted as if 1974 dollars. This error did not affect many participants.

INPUT VARIABLES

Site	HIE1	Variable
Dayton	15/43, 36	DE11051 (Dayton) Next, in 1973, what was the total income of the people who are currently in your family unit from all sources?
Seattle	63, 125	
Massachusetts	92, 181	
South Carolina	147, 192	(cont.)

INCOME1	
NUMBER OF OBSERVATIONS	23081
NUMBER OF MISSING	3067
MEAN	11192.04
MEDIAN	10814.40
MINIMUM VALUE	0.00
MAXIMUM VALUE	73343.26
STANDARD DEVIATION	6655.66
COEFFICIENT OF VARIATION	59.47
SKWNESS	0.85
KURTOSIS	2.71

VARIABLE INCOME1 (cont.)
INPUT VARIABLES (cont.)

- DEI1486 (Dayton) Were you employed at any time during 1973?
DEI1487 (Dayton) How much of the income you personally earned in 1973 was from wages and salaries before anything was deducted for taxes and other things?
DEI1489 (Dayton) During 1973, did you receive any additional income from overtime, bonuses, commissions or tips?
DEI1490 (Dayton) How much was that altogether before deductions?
DEI1596 (Dayton) During 1973 did you have any income from dividends or interest from savings accounts, stocks or bonds?
DEI1597 (Dayton) Amount from dividends/interest?
DEI1598 (Dayton) During 1973 did you have any net rental income from buildings you own?
DEI1599 (Dayton) Amount of net rental income?
DEI1610 (Dayton) During 1973 did you have any net income from business?
DEI1611 (Dayton) Amount of net income from business?
DEI1612 (Dayton) During 1973 did you have any income from alimony or child support from someone outside the household?
DEI1613 (Dayton) Amount from alimony/child support?
DEI1622 (Dayton) During 1973, did you have any income from veteran benefits?
- (cont.)

VARIABLE INCOME1 (cont.)
INPUT VARIABLES (cont.)

DEI1623 (Dayton) Amount from veteran benefits?
DEI1628 (Dayton) During 1973 did you have any income from foster child payments?
DEI1629 (Dayton) Amount from foster child payments?
DEI1630 (Dayton) During 1973 did you have any other income from any other sources?
DEI1631 (Dayton) Amount from other sources?
DEI4964 (Dayton) During 1973 did you have any income from social security payments?
DEI4965 (Dayton) Amount from social security payments?
DEI4966 (Dayton) During 1973 did you have any income from welfare payments; for example, Aid to Families with Dependent Children or Supplemental Security Income?
DEI4967 (Dayton) Amount from welfare payments?
DEI6004 (NonDayton) In 1974 what was your total net income from the business(es)? By net income I mean the gross receipts less expenses. (Asked for 1975 in South Carolina.)
DEI6008 (NonDayton) Other than PERSON's self employment that we have just spoken about, did (he/she) have any other regular work for pay in 1974? (Asked for 1975 in South Carolina)
DEI6009 (NonDayton) How much did you earn from your (cont.)

VARIABLE INCOME1 (cont.)
INPUT VARIABLES (cont.)

- employment in 1974 before any deductions for taxes or other things? Please include wages, salary, overtime, bonuses, commissions, or tips from all your jobs. (Again, any records you have would be helpful.) (Asked for 1975 in South Carolina.)
- (Seattle) Did you get meals, housing, goods, or services free or at a reduced rate as part of the pay from your job or jobs in 1974?
- (Seattle) What was the dollar value of those goods or services in 1974? Please give me your best estimate.
- DE16014 (NonDayton) Besides (all) the job(s) we have talked about did you earn any income from occasional work such as babysitting, doing chores for someone, fixing or repairing something, or any other job which was done from time to time? (Asked for 1974 in Seattle and Massachusetts. Asked of 1975 in South Carolina.)
- DE16015 (NonDayton) How much did you earn altogether for that occasional work during 1974? (Asked for 1975 in South Carolina.)
- DE16022 (NonDayton) Now, in 1974, what was the total income of the people who are currently in your family unit, from all (cont.)

VARIABLE INCOME1 (cont.)
INPUT VARIABLES (cont.)

sources, before any deductions for taxes or other things? Please include all the income we have already recorded. Give me your best guess.

DE16319 (Dayton) 1973 source of income (unemployment insurance or strike benefits).

DE16320 (Dayton) Amount of 1973 income (unemployment insurance or strike benefits).

DE16321 (Dayton) 1973 source of income (workman's compensation or disability insurance).

DE16322 (Dayton) Amount of 1973 income (workman's compensation or disability insurance).

CONSTRUCTION

(Dayton)

(INCOME1 is constructed only from baseline family-level data unless new members joined between baseline and enrollment. Then, the income of each new family member is added from the EVF new person supplement.)

(From baseline data.)

```
IF DE11051 >= 0  
THEN INCOME1 = DE11051;
```

(From EVF new person supplement. TMPINC1 is a temporary variable denoting the income of each new member.)

```
TMPINC1 = 0;
```

(cont.)

VARIABLE INCOME1 (cont.)

CONSTRUCTION (cont.)

```

IF DEI1486 = 2 | DEI11487 = : THEN DEI1487 = 0;
IF DEI1489 = 2 | DEI1490 = : THEN DEI1490 = 0;
IF DEI1596 = 2 | DEI1597 = : THEN DEI1597 = 0;
IF DEI1598 = 2 | DEI1599 = : THEN DEI1599 = 0;
IF DEI1610 = 2 | DEI1611 = : THEN DEI1611 = 0;
IF DEI1612 = 2 | DEI1613 = : THEN DEI1613 = 0;
IF DEI16319 = 2 | DEI16320 = : THEN DEI16320 = 0;
IF DEI16321 = 2 | DEI16322 = : THEN DEI16322 = 0;
IF DEI1622 = 2 | DEI1623 = : THEN DEI1623 = 0;
IF DEI14964 = 2 | DEI14965 = : THEN DEI14965 = 0;
IF DEI14966 = 2 | DEI14967 = : THEN DEI14967 = 0;
IF DEI1628 = 2 | DEI1629 = : THEN DEI1629 = 0;
IF DEI1630 = 2 | DEI1631 = : THEN DEI1631 = 0;

```

```

TMPINC1 = DEI1487 + DEI1490 + DEI1597 + DEI1599 + DEI1611 +
DEI1613 + DEI1620 + DEI16322 + DEI1623 + DEI14965 +
DEI14967 + DEI1629 + DEI1631;

```

```

INCOME1 = INCOME1 + (sum of all TMPINC1s for the family)

```

(See title)

(INCOME1 is constructed only from baseline family-level data unless new members joined between baseline and enrollment. Then, the income of each new family member is added from the EVF new person supplement.)

(From baseline data.)

```

IF DEI16037 >= 0
THEN INCOME1 = DEI16037;

```

(From new person EVF supplement. TMPINC1 is a temporary variable denoting the income of each new member.)

```

TMPINC1 = 0;
IF DEI16004 = 0 THEN DEI16004 = 0;
IF DEI16008 = 2 | DEI16009 = : THEN DEI16009 = 0;
IF DEI16014 = 2 | DEI16015 = : THEN DEI16015 = 0;
IF DEI16022 = 2 | DEI16023 = : THEN DEI16023 = 0;

```

```

TMPINC1 = DEI16004 + DEI16009 + DEI16015 + DEI16023; (cont.)

```

VARIABLE INCOME1 (cont.)

CONSTRUCTION (cont.)

INCOME1 = INCOME1 + (sum of all TMPINC1s for the family)

(The results were adjusted to 1973 dollars.)

```
INCOME1 = INCOME1 * .9012;
```

(Massachusetts and South Carolina)

(INCOME1 is constructed only from baseline family-level data unless new members joined between baseline and enrollment. Then, the income of each new family member is added from the EVF new person supplement.)

(From baseline data.)

```
IF DE16037 >= 0  
THEN INCOME1 = DE16037;
```

(From EVF new person supplement. TMPINC1 is a temporary variable denoting the income of each new member.)

```
TMPINC1 = 0;  
IF DE16004 = : THEN DE16004 = 0;  
IF DE16008 = 2 OR DE16009 = : THEN DE16009 = 0;  
IF DE16022 = 2 OR DE16023 = : THEN DE16023 = 0;  
TMPINC1 = DE16004 + DE16009 + DE16023;
```

INCOME1 = INCOME1 + (sum of all TMPINC1s for the family)

(The results were adjusted to 1973 dollars.)

```
INCOME1 = INCOME1 * .9012;
```

VARIABLE	INCOME2	FSD	INCOME2
Family income for second year preceding enrollment			NUMBER OF OBSERVATIONS 15791
CODES			NUMBER OF MISSING 10357
			MEAN 11864.78
			MEDIAN 11685.30
			MINIMUM VALUE 0.00
			MAXIMUM VALUE 85000.00
			STANDARD DEVIATION 7038.60
			COEFFICIENT OF VARIATION 59.32
			SKENNESS 1.20
			KURTOSIS 7.05

INCOME2
- Missing or South Carolina respondent
Dollar amount#
INCOME2 describes the income (in 1973 dollars) for
the second year preceding enrollment.

#Values are those provided by respondents.

INPUT VARIABLES

Site

HIE1

DEI179

(Dayton) First, in 1972,
what was the total income
of the people who are
currently in your family
unit from all sources
before anything was deducted
for taxes or other things?
(Seattle and Massachusetts)

DEI16038

Next, in 1973, what was
the total income of the
people who are currently in
your family unit from all
sources, before any deduc-
tions for taxes or other
things? Give best guess.

CONSTRUCTION

(Constructed only from baseline data.)
(Dayton)

```
IF DEI179 >= 0
THEN INCOME2 = 1.0623 * DEI179;
```

(cont.)

VARIABLE INCOME2 (cont.)

CONSTRUCTION (cont.)

(Seattle and Massachusetts)

IF DE16038 >= 0
THEN INCOME2 = DE16038;

Source	Variable	Variable
Full sample demographic file	INCOME1 INCOME2	Income for year preceding enrollment Income for second year preceding enrollment
Master demographic file	AGE TINCCAT EDUCDEC	Participant's age Source of TINC value Education of person most likely to make decisions
Annual income report (AIR)	TAXINC NONTAX IRS ADULT	Taxable income Nontaxable income Federal income tax paid Number of adults (18 and older) in family
Temporary variables	CHILD	Number of children (under 18) in family (cont.)

TINC	NUMBER OF OBSERVATIONS	9139
	NUMBER OF MISSING	17009
FSD	MEAN	9.29
CODES	MEDIAN	9.40
	MIN/MAX VALUE	6.79
Log of dollar amount	MAX/MIN VALUE	11.18
i - Missing or never HIE-insured	STANDARD DEVIATION	0.62
	COEFFICIENT OF VARIATION	6.72
	SKENNESS	-1.00
	KURTOSIS	1.40

TINC is a transformation of average annual family income (in 1973 dollars) for the two years preceding enrollment. Raw values are adjusted for family size and for cost-of-living differences across sites, and \$1000 is added before the log is taken. Predicted values are substituted for missing values. TINC is calculated for HIE-insured families only.

VARIABLE TINC (cont.)
INPUT VARIABLES (cont.)

FAMCHG	Change in number of family heads between baseline and enrollment
	-1 - Family lost a head
	0 - No change
	1 - Family added a head
INC	Family income calculated from AIR data
TIRS	Log of federal income tax paid
MEANTINC	Mean of all calculated TINC values
NOINC	AIR income indicator
	0 - No income
	1 - Some income
NOIRS	Federal income tax indicator
	0 - No federal income tax paid
	1 - Federal income tax paid
TINCA	Log of family income calculated from AIR data
TINCP	Predicted value of TINC from regression on income data
TIRSP	Predicted value of TINC from regression on federal income tax
TEDCP	Predicted value of TINC from regression on age and education of family decision maker

CONSTRUCTION (all sites)

Step 1 - calculate TINC from INCOME1 and/or INCOME2 for HIE-insured families.

(Calculate family size income factor (FSIF#).)

```
IF ADULT = 0 THEN FSIF = .;
```

```
IF CHILD = 0 THEN FSIF = .37 + .18*ADULT;
IF CHILD = 1 THEN FSIF = .37 + .18*ADULT + .15;
IF CHILD = 2 THEN FSIF = .37 + .18*ADULT + .15 + .12;
IF CHILD > 2 THEN FSIF = .37 + .18*ADULT + .15 + .12 + .10*(CHILD-2);
```

(cont.)

VARIABLE TINC (cont.)
CONSTRUCTION (cont.)

(Calculate TINC; adjust for site (USSTDINC##) and family size.)

```
IF INCOME1 = . AND INCOME2 = . THEN INCOME = .;
IF INCOME1 = . AND INCOME2 \= . THEN INCOME = INCOME2;
IF INCOME1 \= . AND INCOME2 = . THEN INCOME = INCOME1;
IF INCOME1 \= . AND INCOME2 \= .
THEN INCOME = (INCOME1 + INCOME2)/2;
IF INCOME \= .
THEN DO;
```

```
IF SITE = 1 THEN USSTDINC = INCOME*9761/9139;
IF SITE = 2 THEN USSTDINC = INCOME*9761/10072;
IF SITE = 3 | SITE = 4
THEN USSTDINC = INCOME*9761/10904;
IF SITE = 5 | SITE = 6
THEN USSTDINC = INCOME*9761/(9151+9258)/2;
TINC = LOG (( MAX (USSTDINC,0) + 1000) / FSIF);
END;
```

#FSIF factors to adjust income for family size were developed by Rand analysts on the theory that operating a larger household entails an economy of scale. The factor for operating any household is .37, to which the following are added, as applicable: .18 for each adult (over 18 years old); .15 for the first child (under 18); .12 for the second child; and .10 for the third and any subsequent child. TINC normalizes income to that of a family of four, two adults and two children. Use of FSIF therefore inflates the income of families smaller than four and deflates the income of families larger than four.

#USSTDINC factors to adjust for site differences represent the annual budget of a 4-person family at an intermediate standard of living in autumn 1973. The dividend, 9761, is the average for all urban U.S. families. The divisors reflect amounts in or optimally near the HIE sites: 9139 (Dayton, Ohio), 10,072 (Seattle-Everett, Washington), 10,904 (Hartford, Connecticut), 9151 (Atlanta, Georgia), and 9258 (Durham, North Carolina). All figures are from U.S. Department of Labor, Bureau of Labor Statistics, "Handbook of Labor Statistics 1975--Reference Edition," Washington, D.C., 1975, Table 142.

(cont.)

VARIABLE TINC (cont.)
CONSTRUCTION (cont.)
Step 2 - Calculate income from the annual income report; adjust
for site and family size.

```
(Dayton, 1974 AIR)
INC = (TAXINC + NONTAX) * (9761/9139);
(Seattle, 1975 AIR)
INC = (TAXINC + NONTAX) * (9761/10072);
(Massachusetts, 1976 AIR)
INC = (TAXINC + NONTAX) * (9761/10904);
(South Carolina 3-year enrollees, 1978 AIR)
INC = (170.5/195.4) * (TAXINC + NONTAX) * (9761 / ((9151 + 9254)/2));
(South Carolina 5-year enrollees, 1976 AIR)
INC = (TAXINC + NONTAX) * (9761 / ((9151 + 9254)/2));
(All sites)
TINCA = LOG((MAX(INC,0) + 1000) / FSIF);
```

Step 3 - Calculate derived variables needed for regressions.

```
TIRS = LOG(IRS + 100);
IF INC = 0 THEN NOINC = 1;
ELSE IF INC > 0 THEN NOINC = 0;
IF IRS = 0 THEN NOIRS = 1;
ELSE IF IRS > 0 THEN NOIRS = 0;
TINCASQ = TINCA * TINCA;
TIRSSQ = TIRS * TIRS;
```

Step 4 - Run regressions shown below to predict TINC for every person

```
(Dayton)
TINCP = C1 + C2 * TINCA + C3 * NOINC;
TIRSP = C1 + C2 * TIRS + C3 * FAMCHG + C4 * NOIRS;
TEDCP = C1 + C2 * EDUCDEC + C3 * AGE;
```

(cont.)

VARIABLE TINC (cont.)

CONSTRUCTION (cont.)

(Seattle and Massachusetts)

```

TINCP = C1 + C2 * TINCA + C3 * TINCASQ + C4 * NOINC;
TIRSP = C1 + C2 * TIRS + C3 * TIRSSQ + C4 * FAMCHG + C5 * NOIRS;
TEDCP = C1 + C2 * EDUCDEC + C3 * AGE;

(South Carolina 3-year enrollees)
TINCP = C1 + C2 * TINCA + C3 * NOINC;
TIRSP = C1 + C2 * TIRS + C3 * FAMCHG + C4 * NOIRS;
TEDCP = C1 + C2 * EDUCDEC + C3 * AGE;

(South Carolina 5-year enrollees)
TINCP = C1 + C2 * TINCA + C3 * TINCASQ + C4 * NOINC;
TIRSP = C1 + C2 * TIRS + C3 * TIRSSQ + C4 * FAMCHG + C5 * NOIRS;
TEDCP = C1 + C2 * EDUCDEC + C3 * AGE;

```

Step 5 - For members of HIE-insured families, if TINC is missing from INCOME1 and INCOME2 (step 1), substitute the predicted values from TINCP, TIRSP, TEDCP, or MEANTINC (step 4) in that order.

TINCCAT = 1;

```

IF TINC \= .
  THEN DO;
    TINC = TINCP;
    TINCCAT = 2;
  END;
ELSE IF TIRSP \= .
  THEN DO;
    TINC = TIRSP;
    TINCCAT = 3;
  END;
ELSE IF TEDCP \= .
  THEN DO;
    TINC = TEDCP;
    TINCCAT = 4;
  END;
ELSE DO;
  TINC = MEANTINC;
  TINCCAT = 5;
END;

```

(cont.)

VARIABLE	TINCCAT	FSID	VALUE	FREQ	CUM FREQ	%	CUM %
Source of TINC value CODES			1	17009	8676	94.93	94.93
1 - Missing or never HIE-insured			2	8676	383	4.19	99.13
2 - Calculated from baseline data			3	383	32	0.35	99.48
3 - Predicted from regression on income data (AIR)			4	32	44	0.48	99.96
4 - Predicted from regression on federal income tax (AIR) family decision maker			5	44	4	0.04	100.00
5 - Predicted from mean of all calculated TINC values							
TINCCAT indicates the basis of the family's value for the variable TINC.							
<hr/>							
INPUT VARIABLES (all sites)							
Source			Variable				
Full sample demographic file temporary variables	TINC	Log of family income					
	TINCP	Predicted value of TINC from regression on income data					
	TIRSP	Predicted value of TINC from regression on federal income tax					
	TEDCP	Predicted value of TINC from regression on age and education of family decision maker					
		(cont.)					

VARIABLE TINCCAT (cont.)

CONSTRUCTION

(TINCCAT is created in the construction of TINC, step 5.)

Step 5 - For members of HIE-insured families, if TINC is missing from INCOME1 and INCOME2 (step 1), substitute the predicted values from TINCP, TIRSP, TEDCP, or MEANTINC (step 4) in that order.

```
TINCCAT = 1;
IF TINC = .
  THEN DO;
    IF TINCP \= .
      THEN DO;
        TINC = TINCP;
        TINCCAT = 2;
      END;
    ELSE IF TIRSP \= .
      THEN DO;
        TINC = TIRSP;
        TINCCAT = 3;
      END;
    ELSE IF TEDCP \= .
      THEN DO;
        TINC = TEDCP;
        TINCCAT = 4;
      END;
    ELSE DO;
      TINC = MEANTINC;
      TINCCAT = 5;
    END;
  END;
```

VARIABLE	TINCSE	FSD	TINCSE
Standard error of predicted TINC value			9139 17009
RANGE			0.02 0.00
0 - Missing or never HIE-insured			0.00 0.00
0 - TINC calculated from baseline data (95% of cases)			0.67 0.11
TINCSE is the standard error for predicted values of TINC.			440.94 4.31 17.13

INPUT VARIABLES (all sites)	
Source	Variable
Full sample demographic file	TINC TINCCAT
Temporary variables	YHAT VARE VARYHAT

Log of family income
Source of TINC value
Predicted TINC value
Mean square error
Variance of predicted TINC values

CONSTRUCTION

(TINCSE is calculated separately for each site. In South Carolina only, TINCSE is calculated separately for 3-year and 5-year participants.)

IF 2 <= TINCCAT <= 5 THEN YHAT = TINC;

TINCSE = SQRT (VARYHAT + VARE);

IF TINCCAT = 1 THEN TINCSE = 0;

VARIABLE	ESTATUS	FSD	ESTATUS	VALUE	FREQ	CUM FREQ	%	CUM %
Current employment status								
CODES								
· Missing, Dayton respondent younger than 18, or nonDayton respondent younger than 16								
1	- Working			1	10691	9287	60.08	60.08
2	- On strike			2	9	9296	0.06	60.14
3	- Laid off			3	429	9725	2.78	62.92
4	- Retired			4	529	10254	3.42	66.34
5	- Homemaker			5	3046	13300	19.71	86.05
6	- Other (including leave of absence)			6	2157	15457	13.96	100.00

INPUT VARIABLES Site HIEI Variable Dayton 15/43, 39 DEI1637 (Dayton) Are you currently working, on strike, temporarily laid off, retired, keeping house, or something else? Seattle 63 92 Massachusetts 92 147 South Carolina 147	DEI16048 6. Something else, specify (NonDayton) Are you currently working, on strike, on leave, temporarily laid off, retired, going to school, keeping house, or something else? 1. Currently working 2. On strike 3. Temporarily laid off 4. Retired 5. Keeping house 6. Something else, specify (NonDayton) Are you currently working, on strike, on leave, temporarily laid off, retired, going to school, keeping house, or something else? 01. On strike 02. On leave 03. Temporarily laid off 04. Working 05. Retired 06. Student 07. Keeping house 08. Something else (cont.)
--	---

ESTATUS describes the adult participant's employment status at the time of the interview.

VARIABLE ESTATUS (cont.)

CONSTRUCTION

(Dayton)

{From EVF or baseline data (if the information was missing from EVF
data).}

```
IF 1 <= DE11637 <= 6  
THEN ESTATUS = DE11637;
```

{Seattle, Massachusetts, and South Carolina}

(Constructed only from baseline data.)

```
IF 1 <= DE16048 <= 8  
THEN DO;
```

```
  IF DE16048 = 4 THEN ESTATUS = 1;  
  ELSE IF DE16048 = 1 THEN ESTATUS = 2;  
  ELSE IF DE16048 = 3 THEN ESTATUS = 3;  
  ELSE IF DE16048 = 5 THEN ESTATUS = 4;  
  ELSE IF DE16048 = 7 THEN ESTATUS = 5;  
  ELSE IF DE16048 = 2 OR DE16048 = 6 OR DE16048 = 8  
  THEN ESTATUS = 6;  
END;
```

VARIABLE	EFULL	FSD	CUM FREQ	%	CUM %
CODES		VALUE	FREQ		
Full or part time employment at baseline			9434	59.64	59.64
0 - Neither part nor full time, Dayton respondent younger than 18, or nonDayton respondent younger than 16	0	9968	9968	6.50	66.14
1 - Part time	1	1087	11055	33.86	100.00
2 - Full time	2	5659	16714		

EFULL indicates whether the adult participant was working full or part time at baseline.

INPUT VARIABLES	Site	HIEI	Variable
Dayton	15/43	DE11492	(Dayton) When working in 1973, what was the average number of hours you worked per week? Include paid and unpaid overtime, second jobs and so forth.
Massachusetts	92		
South Carolina	147		

DE12990 (Massachusetts and South Carolina) Do you usually usually work full time, regular part time, or something else?

1. Usually full time
2. Usually part time
3. Other

CONSTRUCTION
(Constructed only from baseline data.)

(Dayton)

```

IF 0 <DE11492 < 35
  THEN EFULL = 1;
ELSE IF DE11492 >= 35,
  THEN EFULL = 2;
ELSE EFULL = 0;
  
```

VARIABLE EFULL (cont.)
 CONSTRUCTION (cont..)

(Massachusetts and South Carolina)

```
IF DE12990 = 1
  THEN EFULL = 2;
ELSE IF DE12990 = 2
  THEN EFULL = 1;
ELSE EFULL = 0;
```

VARIABLE	EFULL	FSD
Self-employment		
CODES		
- Missing or not applicable#		
0 - No	0	16880
1 - Yes	1	8634

EFULL indicates whether participants were self-employed.

#Not asked of homemakers, retired persons, respondents under 18 in Dayton, or respondents under 16 in nonDayton.

INPUT VARIABLES

Site	HIEI	Variable	Variable
Dayton	15/43	DE11637	(Dayton) Are you currently working, on strike, temporarily laid off, retired, keeping house, or something else?
Seattle	63, 125		1. Currently working
Massachusetts	92, 181		2. On strike
South Carolina	147, 192		(cont.)

VARIABLE ESELF (cont.)
INPUT VARIABLES (cont.)

3. Temporarily laid off
4. Retired
5. Keeping house
6. Something else, specify
- DEI1639** (Dayton) (Do/Did) you work for someone else or (is/was) this your own business? (Asked for the last twelve months.)
1. Someone else
 2. Self
- DEI16000** (NonDayton) Did you do any work for pay on regular full or part time basis at anytime during 1974? (Asked for 1975 in South Carolina.)
- DEI16001** (NonDayton) Were you self-employed at any time in 1974? Did you work in your own business? (Asked for 1975 in South Carolina.)
1. Yes
 2. No
- DEI16048** (NonDayton) Are you currently working, on strike, on leave, temporarily laid off, retired, going to school, keeping house, or something else?
01. On strike
 02. On leave
 03. Temporarily laid off
 04. Working
 05. Retired
 06. Student
 07. Keeping house
 08. Something else
- DEI16056** (NonDayton) Are you self-employed or do you work for someone else?
1. Self-employed
 2. Work for someone else (cont.)

VARIABLE ESELF (cont.)

CONSTRUCTION

(Dayton)

(Constructed only from baseline data.)

```
IF 1 <= DE11637 <= 3
  THEN IF 1 <= DE11639 <= 2
    THEN DO;
      IF DE11639 = 1
        THEN ESELF = 0;
      ELSE ESELF = 1;
    END;
```

(Seattle, Massachusetts, and South Carolina)

(From baseline data.)

```
IF 1 <= DE16048 <= 4
  THEN DO;
    IF DE16056 = 1
      THEN ESELF = 1;
    ELSE IF DE16056 = 2
      THEN ESELF = 0;
  END;
```

(For persons not present at baseline, ESELF was constructed
from EVF new person supplement.)

```
IF DE16000 = 1
  THEN DO;
    IF DE16001 = 1
      THEN ESELF = 1;
    ELSE IF DE16001 = 2
      THEN ESELF = 0;
  END;
```

VARIABLE	OCC	FSD
Occupation		
RANGE		

- Missing or not applicable#
1 to 994 (codes in 1970 U.S. Census Index of Industries
and Occupations)

OCC defines the occupation of participants.

#Question asked on the baseline instrument in Dayton and the EVF in nonDayton. Not asked of homemakers, retired persons, respondents under 18 in Dayton, or respondents under 16 in nonDayton.

INPUT VARIABLES	Site	HIEI	Variables
	Dayton	15/43	DE13212 (Dayton) What is your job there, what do you make or do? (U.S. Census Index of Industries and Occupations, 1970 edition)
	Seattle	124	
	Massachusetts	177	
	South Carolina	188,377	DE16058 (NonDayton) What kind of work do you do? PROBE: WHAT ARE (HIS/HER) MOST IMPORTANT ACTIVITIES OR DUTIES?

(cont.)

VARIABLE OCC (cont.)
CONSTRUCTION
(Dayton)
(Constructed only from baseline data.)

OCC = DE13212;

(Seattle, Massachusetts and South Carolina)
(constructed only from EVF data.)

OCC = DE16058;

VARIABLE	INDUSTRY	FSD
Industry		
RANGE		
17 - Missing or not applicable# 17 to 990 (codes in 1970 U.S. Census Index of Industries and Occupations)		
INDUSTRY defines the industry of participants.		

#Not asked of homemakers, retired persons, respondents under 18 in Dayton, or respondents under 16 in nonDayton.

INPUT VARIABLES

Site	HIE1	Variables
Dayton	15/43	DE13211 (Dayton) What is the
Seattle	63,124	main thing (company, division/plant) that you
Massachusetts	92,177	work for makes or does?
South Carolina	147,188	(U.S. Census Index of Industries and Occupations, 1970 edition)
		(cont.)

VARIABLE INDUSTRY (cont.)
INPUT VARIABLES (cont.)

DE16056 (NonDayton) Are you self-employed or do you work for someone else?
1. Self-employed
2. Work for someone else (NonDayton) What kind of business or industry is that? PROBE: What does it make or do? (U.S. Census Index of Industries and Occupations, 1970 edition)

DE16057 (NonDayton) What kind of business or industry is that? PROBE: What do they make or do? (U.S. Census Index of Industries and Occupations, 1970 edition)

DE16061 (NonDayton) What kind of business or industry is that? PROBE: What do they make or do? (U.S. Census Index of Industries and Occupations, 1970 edition)

CONSTRUCTION

{Dayton}

(Constructed only from baseline data.)

INDUSTRY = DE13211;

(Seattle and South Carolina)

(From EVF data.)

INDUSTRY = DE16061;

(cont.)

VARIABLE INDUSTRY (cont.)

CONSTRUCTION (cont.)

(INDUSTRY was constructed from baseline data if the information was missing from the EVF data.)

```
IF DE16056 = 1 AND (DE16057 \= .) AND (DE16061 = .)
  THEN INDUSTRY = DE16057;
ELSE IF DE16056 = 2 AND (DE16061 \= .) AND (DE16057 = .)
  THEN INDUSTRY = DE16061;
```

(Massachusetts)

(From EVF data.)

```
IF DE16056 = 2 THEN INDUSTRY = DE16061;
```

(INDUSTRY was constructed from baseline data if the information was missing from EVF data.)

```
IF DE16056 = 1 AND (DE16057 \= .) AND (DE16061 = .)
  THEN INDUSTRY = DE16057;
ELSE IF DE16056 = 2 AND (DE16061 \= .) AND (DE16057 = .)
  THEN INDUSTRY = DE16061;
```

VARIABLE	LFEXPER	FSD
Work experience		
CODES		
	- Missing, Dayton respondent younger than 18, or nonDayton respondent younger than 16 Number of months	
LFEXPER	indicates how long the adult participant has been employed since school.	(cont.)

LFEXPER	NUMBER OF OBSERVATIONS
	NUMBER OF MISSING
	MEAN
	MEDIAN
	MINIMUM VALUE
	MAXIMUM VALUE
	STANDARD DEVIATION
	COEFFICIENT OF VARIATION
	SKENNESS
	KURTOSIS

VARIABLE LFEXPER (cont.)

INPUT VARIABLES

Site	HIEI	Variable
Dayton	15/43, 36	(Dayton) Since you left
Seattle	63, 125	school, how many years
Massachusetts	92, 181	altogether have you spent
South Carolina	147, 192	working? <u>YEARS</u>
	DE11666	and/or
	DE11667	MONTHS <u>NA STILL IN SCHOOL</u>
		(NonDayton) How many
		years have you
		regularly been employed
		for pay either full- or
		part-time? <u>YEARS</u>
	DE16070	and/or
	DE16071	MONTHS

CONSTRUCTION

(Dayton)

{LFEXPER is constructed from baseline data or EVF new person supplement data (for persons not present at baseline). }

```
IF DE11666 \= OR DE1667 \=  
THEN LFEXPER = SUM(12 * DE11666, DE11667);
```

(Seattle, Massachusetts, and South Carolina)

{LFEXPER is constructed from baseline data or EVF new person supplement data (for persons not present at baseline). }

```
IF DE16070 \= OR DE16071 \=  
THEN LFEXPER = SUM(12 * DE16070, DE16071);
```

VARIABLE	DEIWG1B	FSD	DEIWG1B
	Hourly wage, primary job at baseline CODES		NUMBER OF OBSERVATIONS NUMBER OF MISSING MEAN MEDIAN MINIMUM VALUE MAXIMUM VALUE STANDARD DEVIATION COEFFICIENT OF VARIATION SKEWNESS KURTOSIS
	" Missing or not applicable# Dollar amount##		9356 16792 4.83 4.00 0.00 806.15 12.22 253.03 44.42 2503.53

DEIWG1B defines the hourly wage earned at the adult participant's primary job at baseline, excluding work at an unincorporated self-owned business. DEIWG1B is not standardized by year. The instruments asked about wages in 1974, with the following exceptions: Seattle HIEI 63 and South Carolina HIEI 147 and 192, wages in 1975; and South Carolina HIEI 380, wages in 1977.

#Not asked of homemakers, retired persons, respondents under 18 in Dayton, or respondents under 16 in nonDayton.

##Values are those provided by respondents.

INPUT VARIABLES

Site	HIEI	Variables
Dayton	15/43	DEI1639 (Dayton) (Do/Did) you work for someone else, or (is/was) this your own business?
Seattle	63,125	1. Someone else
Massachusetts	92,181	2. Self
South Carolina	147,192,380	(Dayton) On your (current/most recent) main job (do/did) you earn a wage, a salary, or some other rate of pay? 1. Yes 2. No
		DEI1643 (Dayton) What (is/was) your (salary/ wage)? (DO NOT INCLUDE OVERTIME PAY) (cont.)

VAR | ABLE DE11W1B (cont.)
INPUT VARIABLES (cont.)

- DEI1646 (Dayton) TIME UNIT FOR
WAGE RATE ON THAT JOB:
1. Hour
2. Week
3. Month
4. Year
5. Other
- DEI1650 (Dayton) What is your
hourly wage?
(estimate)
\$
- DEI1657 (Dayton) How many weeks
did you work at this
job in the last 12
months including paid
vacation and sick
leave?
- DEI1658 (Dayton) Did you
take any paid vacation
from this job during
the last 12 months?
1. Yes
2. No
- DEI1659 (Dayton) How many weeks
paid vacation did you
take?
- DEI1660 (Dayton) How many
hours per week (do/did)
you usually work at this
job, including usual
overtime hours?
- DEI1661 (Dayton) (Are/ Were)
any of these hours
paid overtime?
1. Yes
2. No
- DEI1662 (Dayton) How many hours
of paid overtime
(do/did) you usually
work per week?
- DEI12117 (South Carolina) Were
you self-employed at
any time in 1975? (Did
you work in your own
business)?
1. Yes
2. No

(cont.)

VARIABLE DE1WG1B (cont.)
 INPUT VARIABLES (cont.)

- DE12119 (South Carolina) (Was/
were) your business(es)
(a corporation/
corporations)?
1. Yes
2. No
- DE12131 (South Carolina)
Other than your
self-employment that we
have just spoken about
did you have any
other regular work for
pay in 1975?
1. Yes
2. No
- DE12132 (South Carolina) How
much pay did you earn
in 1975 before any
deductions for taxes
or other things?
Please include wages,
salary, overtime,
bonuses, commissions,
or tips, from all your
jobs. (Again, any
records you have would
be helpful.)
- DE12134 (South Carolina) During
1975, how many days of
paid vacation and
holidays did you take?
IF ANSWER IS GIVEN IN
WEEKS, ASK: How many
working days was that?
- DE12140 (South Carolina) During
1975, how many weeks
did you, work
including weeks of
paid vacation and paid
sick leave? Do not
include weeks on
strike or lay-off.
(cont.)

VAR|ABLE DEIWG1B (cont.)
INPUT VARIABLES (cont.)

- DE12141 (South Carolina) When working in 1975, what was the average number of hours you worked per week? INCLUDE PAID AND UNPAID OVERTIME AND SECOND JOBS.
(NonDayton) Were you self-employed at any time in 1974? (Did you work in your own business?) (Asked for 1975 in South Carolina.)
1. Yes
 2. No
- DE16003 (NonDayton) (Was/ Were all of) your business(es) (a corporation/corporations)?
1. Yes
 2. No
- DE16008 (NonDayton) Other than your self-employment that we have just spoken about, did you have any other regular work for pay in 1974? (Asked for 1975 in South Carolina.)
1. Yes
 2. No
- DE16009 (NonDayton) How much pay did you earn in 1974 before any deductions for taxes or other things? Please include wages, salary, overtime, bonuses, commissions, or tips, from all your jobs. (Again, any records you have would be helpful.) (Asked for 1975 in South Carolina.)

(cont.)

VARIABLE DE1WG1B (cont.)
INPUT VARIABLES (cont.)

- A. RECORD AMOUNT.
B. CODE RECORD USED, IF
BOTH 1040 AND W-2,
CODE 1040.
1. Federal 1040.
2. W-2
3. Other
4. No record used
- DE16011 (NonDayton) During 1974, how many days of paid vacation and paid holidays did you take? IF ANSWER IS GIVEN IN WEEKS, ASK: How many working days was that? (Asked for 1975 in South Carolina.)
- DE16012 (NonDayton) During 1974, how many weeks did you work, including weeks of paid vacation and paid sick leave? DO NOT INCLUDE WEEKS ON STRIKE OR LAY-OFF. (Asked for 1975 in South Carolina.)
- DE16013 (NonDayton) When working in 1974, what was the average number of hours you worked per week? INCLUDE PAID AND UNPAID OVERTIME AND SECOND JOBS. (Asked for 1975 in Seattle.)
- DE16056 (Seattle) Are you self-employed at that job, or do you work for someone else?
1. Self-employed
2. Someone else
- DE16059 (Seattle) Is your business a corporation or is it an unincorporated business?
1. Corporation
2. Unincorporated
(cont.)

VARIABLE DE1WG1B (cont.)
INPUT VARIABLES (cont.)

- DE16063 (Seattle) (What is your wage or salary/What are your earnings at this job?)
- DE16064 (Seattle) (What is your wage or salary/What is your earning rate at this job?)
- 1. Rate per hour
 - 2. Rate per day
 - 3. Rate per week
 - 4. Rate per month
 - 5. Rate per year
 - 6. By work completed or commission only
- DE16940 (South Carolina PEG) Were you self-employed at any time in 1977? Did you work in your own business?
- 1. Yes
 - 2. No
- DE16944 (South Carolina PEG) Other than your self-employment that we have just spoken about, did you have any other regular work for pay in 1977?
- 1. Yes
 - 2. No
- DE16945 (South Carolina PEG) How much did you earn from your employment in 1977 before any deductions for taxes or other things? Please include wages, salary, overtime, bonuses, commissions, or tips, from all your jobs. (Again, any records you have would be helpful.) (cont.)

VARIABLE DEI1WG1B (cont.)
INPUT VARIABLES (cont.)

A. RECORD AMOUNT.
B. CODE RECORD USED. IF
BOTH 1040 (OR 1040A)
AND W-2, CODE 1040
OR 1040A.
DE16947 (South Carolina PEG)
During 1977, how many
days of paid vacation
and paid holidays did
(PERSON) take? IF
ANSWER IS GIVEN IN
WEEKS, ASK: How many
working days was that?
DE16948 (South Carolina PEG)
During 1977, how many
weeks did you work,
including weeks of paid
vacation and paid sick
leave? Do not include
weeks on strike or laid
off.
DE16949 (South Carolina PEG)
When working in 1977,
what was the average
number of hours you
worked per week?
INCLUDE PAID AND UNPAID
OVERTIME AND SECOND
JOBS.

CONSTRUCTION
(Dayton)
(From baseline data.)

IF DEI1639 = 1 AND DEI1643 = 1
THEN DO;

```
  IF DEI1646 = 1
    THEN DEI1WG1B = DEI1645;
  ELSE IF DEI1646 = 2
    THEN DO;
      IF DEI1661 = 1
        THEN DEI1WG1B = DEI1645 / (DEI1660 - DEI1662);
      ELSE DEI1WG1B = DEI1645 / DEI1660;
    END;

```

(cont.)

VARIABLE DEIWG1B (cont.)
CONSTRUCTION (cont.)

```

ELSE IF DEI1646 = 3
THEN DO;
  IF DEI1661 = 1
  THEN DEIWG1B = DEI1645 /
    (DEI1660-DEI1662)*4.3;
  ELSE DEIWG1B = DEI1645 /
    (DEI1660 * 4.3);
END;

ELSE IF DEI1646 = 4 AND DEI1658 = 1
THEN DO;
  IF DEI1661 = 1
  THEN DEIWG1B = DEI1645 /
    (DEI1657-DEI1659)*(DEI1660-DEI1662);
  ELSE DEIWG1B = DEI1645 /
    (DEI1657 - DEI1659)*DEI1660;
END;

ELSE DO;
  IF DEI1661 = 1
  THEN DEIWG1B = DEI1645 /
    (DEI1657 * (DEI1660 - DEI1662));
  ELSE DEIWG1B = DEI1645 /
    (DEI1657 * DEI1660);
END;

ELSE DEIWG1B = DEI1650;

(Seattle)
(From base line data.)
IF DEI6056 = 2 | DEI6059 = 1
THEN DO;
  IF DEI6064 = 1
  THEN DEIWG1B = DEI6063;
  ELSE IF DEI6064 = 2
  THEN DEIWG1B = DEI6063 / 8;
  ELSE IF DEI6064 = 3
  THEN DEIWG1B = DEI6063 / DEI6013;
  ELSE IF DEI6064 = 4
  THEN DEIWG1B = DEI6063 / (DEI6013 * 4.3);
  ELSE IF DEI6064 = 5
  THEN DEIWG1B = DEI6063 /
    ((DEI6012 - (DEI6011 / 5)) * DEI6013);
END;

```

(cont.)

VARIABLE DEIWG1B (cont.)
CONSTRUCTION (cont..)

(DEIWG1B was constructed from EVF new person supplement data for persons not present at baseline.)

```
IF DE16001 = 2 OR DE16003 = 1 OR DE16008 = 1  
THEN DEIWG1B = (DE16009 * 100) /  
((DE16012 - (DE16011 / 5)) * DE16013);  
DEIWG1B = DEIWG1B * .01;
```

(Massachusetts)

(From baseline or EVF new person supplement data.)

```
IF DE16001 = 2 OR DE16003 = 1 OR DE16008 = 1  
THEN DEIWG1B = (DE16009 * 100) /  
((DE16012 - (DE16011 / 5)) * DE16013);  
DEIWG1B = DEIWG1B * .01;
```

(South Carolina)

(From baseline data.)

```
IF DE12117 = 2 OR DE12119 = 1 OR DE12131 = 1  
THEN DEIWG1B = (DE12132 * 100) /  
((DE12140 - (DE12134 / 5)) * DE12141);  
DEIWG1B = DEIWG1B * .01;
```

(DEIWG1B was constructed from EVF new person supplement data for persons not present at baseline.)

```
IF DE16001 = 2 OR DE16003 = 1 OR DE16008 = 1  
THEN DEIWG1B = (DE16009 * 100) /  
((DE16012 - (DE16011 / 5)) * DE16013);  
DEIWG1B = DEIWG1B * .01;
```

(cont.)

VARIABLE DE1WG1B (cont.)
CONSTRUCTION (cont.)

(For 3-year enrollees, DE1WG1B was constructed from preenrollment EVF new person supplement data if the information was missing from baseline data or the EVF new person supplement.)

```
IF DE16940 = 2 OR DE16003 = 1 OR DE16944 = 1
THEN DE1WG1B = ((DE16945 * 100) /
((DE16948 - (DE16947 / 5)) * DE16949);

DE1WG1B = DE1WG1B * .01;
```

VARIABLE	DE1WG1E	FSD	DE1WG1E
Hourly wage, primary job at enrollment		Number of observations 3478	Number of missing 22670
CODES		Mean 5.63	Median 4.60
		Minimum value 0.00	Maximum value 600.00
		Standard deviation 12.64	Coefficient of variation 224.55
		Skewness 35.17	Kurtosis 1508.69

DE1WG1E defines the hourly wage earned at the adult participant's primary job at enrollment, excluding work at an unincorporated self-owned business. The year is not standardized (see instrument administration data in Appendix C).

#Not asked of homemakers, retired persons, respondents under 18 in Dayton, or respondents under 16 in nond Dayton.

##Values are those provided by respondents.

(cont.)

VARIABLE DE1WG1E (cont.)

INPUT VARIABLES		HIEI	Variables
Site			
Dayton	42	DE11650	(Dayton) What is your hourly wage (estimate)?
Seattle	124, 127	DE12897	(Dayton) Do you receive a regular wage or salary from this job?
Massachusetts	177, 178		
South Carolina	188, 189, 377, 381		
		1. Yes	
		2. No	
		DE12903	(Dayton) What is your rate of pay per hour before taxes and other deductions? PLEASE DO NOT INCLUDE ANY OVERTIME EARNINGS.
		DE12904	(Dayton) What is your rate of pay per day before taxes and other deductions? PLEASE DO NOT INCLUDE ANY OVERTIME EARNINGS.
		DE12905	(Dayton) What is your rate of pay per week before taxes and other deductions? PLEASE DO NOT INCLUDE ANY OVERTIME EARNINGS.
		DE12906	(Dayton) What is your rate of pay per month before taxes and other deductions? PLEASE DO NOT INCLUDE ANY OVERTIME EARNINGS.
		DE12907	(Dayton) What is your rate of pay per year before taxes and other deductions? PLEASE DO NOT INCLUDE ANY OVERTIME EARNINGS.
		DE12910	How many weeks per (month/year) do you have to work to receive this pay? PLEASE INCLUDE WEEKS OF PAID VACATION.

(cont.)

VARIABLE DE1WGE1E (cont.)
INPUT VARIABLES (cont.)

- DE12911 How many days per week do you work at this job?
(Dayton) How many hours per day do you work, not including paid overtime?
- DE14696 (NonDayton) How many days of paid vacation and paid holidays do you get per year?
- DE14697 (NonDayton) How many hours per week, not including paid overtime hours, do you usually work at this job?
- DE15067 (Dayton) TIME UNIT FOR WAGE RATE ON THAT JOB:
1. Per Hour
2. Per Day
3. Per Week
4. Per Month
5. Per Year
6. Per Other
- DE16056 (NonDayton) Are you self-employed at that job, or do you work for someone else?
1. Self-employed
2. Someone else
- DE16059 (NonDayton) Is your business a corporation or is it an unincorporated business?
1. Corporation
2. Unincorporated
- DE16063 (NonDayton) (What is your wage or salary/What are your earnings at this job?)
(cont.)

VARIABLE DE1WGE (cont.)
INPUT VARIABLES (cont.)

DE16064 (NonDayton) (What is
your wage or
salary/What are your
earnings at this job?)
CODE ONE:
1. Rate per hour
2. Rate per day
3. Rate per week
4. Rate per month
5. Rate per year
6. By work completed or
commission only

CONSTRUCTION
(Dayton)
(Constructed only from EVF employment supplement data.)

```
IF DE12897 = 1
  THEN DO;
    IF DE15067 = 1
      THEN DE1WGE = DE12903;
    ELSE IF DE15067 = 2
      THEN DE1WGE = DE12904 / DE12912;
    ELSE IF DE15067 = 3
      THEN DE1WGE = DE12905 / (DE12911 * DE12912);
    ELSE IF DE15067 = 4
      THEN DE1WGE = DE12906 /
                    (DE12910 * DE12911 * DE12912);
    ELSE IF DE15067 = 5
      THEN DE1WGE = DE12907 /
                    (DE12910 * DE12911 * DE12912);
    ELSE DE1WGE = DE11650;
  END;
```

(cont.)

VARIABLE DE1WG1E (cont.)
CONSTRUCTION (cont.)

(NonDayton)

(From EVF or EVF employment supplement if the information was missing from the EVF.)

```
IF DE16056 = 2 OR DE16059 = 1
THEN DO;
  IF DE16064 = 1
    THEN DE1WG1E = DE16063;
  ELSE IF DE16064 = 2
    THEN DE1WG1E = (DE16063 * DE12911) / DE14697;
  ELSE IF DE16064 = 3
    THEN DE1WG1E = DE16063 / DE14697;
  ELSE IF DE16064 = 4
    THEN DE1WG1E = DE16063 / (DE14697 * 4.3);
  ELSE IF DE16064 = 5
    THEN DE1WG1E = DE16063 /
      ((DE12910 - (DE14696 / 5)) * DE14697);
END;
```

VARIABLE	INSURED	VALUE	FREQ	CUM FREQ	%	CUM %
Family health insurance CODES		0	3148	3142	13.66	13.66
		1	19858	23000	86.34	100.00

INSURED indicates whether a family member had health insurance of any kind.

NOTE: Due to a programming error, Dayton baseline-only participants who had no health insurance were coded as having health insurance.

(cont..)

VARIABLE INSURED (cont.)

INPUT VARIABLES	SITE	HIEI	VARIABLES
	Dayton Seattle Massachusetts South Carolina	9,15/43,39 63 92 147	DEI1245 (Dayton) Does anyone have health insurance through a school or other organization? (NonDayton) Do you (or anyone in your family unit) have health insurance through a school, professional organization, or any other group?
			1. Yes 2. No
			DEI1049 (Dayton) Does he have health insurance through his employer?
			1. Yes 2. No
			DEI1050 (Dayton) Does he have any (other) health insurance, through a private agent or other source?
			1. Yes 2. No
			DEI1220 (NonDayton) RECORD TOTAL NUMBER OF SUPPLEMENTS TO BE COMPLETED. THE NUMBER OF SUPPLEMENTS YOU HAVE PREPARED SHOULD EQUAL THIS TOTAL.
			DEI12305 (Dayton) (In addition to any policies already mentioned) Does anyone have any policies or plans that are purchased from a private source, such as an insurance company, agent, salesman or by mail? Here is a list of some private insurance companies which offer medical insurance in (Ohio). (NonDayton) (in addition to that policy/those policies) Do you have any policies or (cont.)

VARIABLE INSURED (cont.)
INPUT VARIABLES (cont.)

plans that are purchased from a private source, such as an insurance company, agent, salesman or by mail?

1. Yes

2. No

(Dayton) CIRCLE ONE:

1) Family unit has no insurance; 2) Family unit has some insurance.

(Dayton) (In addition) are there any (other) health insurance policies covering any of the members of your family unit? For instance, policies which are held by someone outside the family unit?

(NonDayton) (Other than the policy(ies) you've told me about) Are there any members of this family unit covered by a health insurance policy held by someone outside the family unit or outside the household, for example, a child's insurance being paid by a relative who does not live here?

1. Yes

2. No

(NonDayton) Sometimes people have special insurance policies which pay cash directly to the beneficiary for days spent in the hospital. This kind of policy is called a hospital indemnity or extra cash policy. (Outside of the policy(ies) you've already told me about) Do you (or anyone in your family (cont.)

VARIABLE INSURED (cont.)
INPUT VARIABLES (cont.)

unit) have a hospital indemnity or extra cash policy?

1. Yes

2. No

(NonDayton) (Other than what you have already told me about) Are you (or is anyone in your family unit) covered by any of the special plans which are listed on this card?

1. Yes

2. No

(NonDayton) Some people participate in prepaid health maintenance or group practice plans, which provide health care in a clinic setting. By that, I mean a group of doctors to whom one can go for regular check ups as well as for treatment. These plans sometimes are provided by an employer, union, or some other group, or sometimes one can join as an individual (other than the policy(ies) you have mentioned) Are you (or anyone in your family unit) participating in such a plan?

1. Yes

2. No

(Seattle) Do you (or anyone in your family unit) expect to get any (other) health insurance policies within the next 6 months?

1. Yes

2. No

(cont.)

VARIABLE INSURED (cont.)
INPUT VARIABLES (cont.)

- DEI2577 Do you (or anyone in your family unit) have health insurance through an employer or through a union?
1. Yes
2. No
- DEI2749 (Dayton) INTERVIEWER: CHECK INSURANCE PREP SHEET
1. Family did not have health insurance
2. Family did have health insurance
- DEI2757 (Dayton) Is (each/this) policy still in force, (that is, is the policy holder the same and the insurer the same (on each policy))?
1. Yes
2. No
- DEI2762 (Dayton) (Do you/ does anyone in your family unit) currently have any (other) health insurance policies, through an employer, a union, a school, or a private agency?
1. Yes
2. No
- DEI2787 (Dayton) Among the persons who have left this unit, that is, (NAMES OF LIVING DEPARTED PERSONS) (is anyone a policy holder of a health insurance policy/ is (NAME) the policy holder of a health insurance policy)?
1. Yes
2. No
8. Don't know
- DEI2789 (Dayton) Is anyone currently in this family unit covered by the health (cont.)

VARIABLE INSURED (cont.)
INPUT VARIABLES (cont.)

insurance policy(ies) of
(DEPARTED POLICY HOLDER(S))?

1. Yes

2. No

DE12794 (Dayton) Among the new members of this family unit, that is (NAMES OF NEW MEMBERS BESIDES NEWBORNS), does anyone have any (other) health insurance?

1. Yes

2. No

DE12834 (Massachusetts and South Carolina) Will you (or anyone in your family unit) be eligible for any (other) health insurance policies within the next 6 months?

1. Yes

2. No

DE15064 (Dayton) Are there any (other) health insurance policies which are held by someone outside the family unit covering any of the members of your family unit?

1. Yes

2. No

CONSTRUCTION

(Dayton)

(From EVF data.)

IF DE12749 = 2 OR DE12757 = 1 OR DE12762 = 1 OR
DE12787 = 1 OR DE12789 = 1 OR DE15064 = 1 OR
DE12794 = 1
THEN INSURED = 1;
IF (DE12749 = 1) AND
(DE12757 = 2 OR DE12757 = .) AND
(DE12762 = 2 OR DE12762 = .) AND
(DE12787 = 2 OR DE12787 = .) OR DE12787 = 8) AND
(DE12789 = 2 OR DE12789 = .) AND
(DE15064 = 2 OR DE15064 = .) AND
(DE12794 = 2 OR DE12794 = .)
THEN INSURED = 0;

(cont.)

VARIABLE INSURED (cont.)
CONSTRUCTION (cont.)

(INSURED was constructed from baseline data if health insurance information was missing from EVF data.)

```
IF DE12577 = 1 OR DE1245 = 1 OR DE12305 = 1  
OR DE12309 = 1 OR DE12307 = 1;  
THEN INSURED = 1;  
IF DE12577 \= 1 AND DE1245 \= 1 AND DE12305 \= 1 AND  
DE12309 \= 1 AND DE12307 \= 1  
THEN INSURED = 0;
```

(INSURED was constructed from screening data if health insurance information was missing from EVF and baseline data.)

```
IF DE11049 = 1 OR DE11050 = 1  
THEN INSURED = 1;  
ELSE IF DE11049 = 2 AND DE11050 = 2  
THEN INSURED = 0;  
ELSE INSURED = .;
```

(Seattle)

(From baseline data.)

```
IF DE12577 = 2 AND  
DE12305 = 2 AND  
DE12339 = 2 AND  
(DE12341 = 2 OR DE12341 = .) AND  
DE1245 = 2 AND  
DE12343 = 2 AND  
DE12309 = 2 AND  
DE12345 = 2 AND DE11220 = 0  
THEN INSURED = 0;  
IF DE12577 = 1 OR  
DE12305 = 1 OR  
DE12339 = 1 OR  
DE12341 = 1 OR  
DE1245 = 1 OR  
DE12343 = 1 OR  
DE12309 = 1 OR  
DE12345 = 1 OR DE11220 > 0  
THEN INSURED = 1;
```

(cont.)

VARIABLE INSURED (cont.)
CONSTRUCTION (cont.)

(Massachusetts and South Carolina)
(From baseline data.)

```
IF DE12577 = 2 AND  
DE12305 = 2 AND  
DE12339 = 2 AND  
{DE12341 = 2 OR DE12341 = .} AND  
DE1245 = 2 AND  
DE12343 = 2 AND  
DE12309 = 2 AND  
DE12834 = 2 AND DE11220 = 0  
THEN INSURED = 0;  
  
IF DE12577 = 1 OR  
DE12305 = 1 OR  
DE12339 = 1 OR  
DE12341 = 1 OR  
DE1245 = 1 OR  
DE12343 = 1 OR  
DE12309 = 1 OR  
DE12834 = 1 OR DE11220 > 0  
THEN INSURED = 1;
```

VARIABLE	PRIVINS	FSD	VALUE	FREQ	CUM FREQ	%	CUM %
"Private" medical insurance at baseline							
CODES							
0 - Missing or conflicting data 0 - Has no insurance or insurance only through work 1 - Has "private" insurance							
PRIVINS	indicates whether the participant has a "private" medical insurance policy, defined as a policy not supplied through work.		0	8390	14397	81.07	81.07
			1	3361	17758	18.93	100.00
INPUT VARIABLES							
Site	HIEI		Variable				
Seattle	67	DE11220	(NonDayton) RECORD TOTAL NUMBER OF SUPPLEMENTS TO BE COMPLETED. THE NUMBER OF SUPPLEMENTS YOU HAVE PREPARED SHOULD EQUAL THIS TOTAL.				
Massachusetts	96						
South Carolina	151	DE12482	(NonDayton) Is this a group plan or is it a private policy?				
		1. Group plan					
		2. Private plan	(NonDayton) Is this plan provided through an employer, a union, a school, or some other organization?				
			1. Employer				
			2. Union				
			3. School				
			4. Other organization				
			5. None (not group)				
			Family health insurance				
			- Missing or conflicting information				
INSURED			0 - No				
			1 - Yes				
			(cont.)				

VARIABLE PRIVINS (cont.)	
INPUT VARIABLES (cont.)	
Temporary variables	
TFAM	Whether someone in family has a policy described in a medical insurance supplement
COUNT	Number of medical insurance supplements found
IFP	Whether policy described in medical insurance supplement is "private" or work-related
FP	<ul style="list-style-type: none"> - Missing or conflicting information 0 - Work-related policy 1 - "Private" policy <p>Whether any policy described in a medical insurance supplement is "private"</p> <ul style="list-style-type: none"> - Information on all policies missing or some policies missing and all others work-related 0 - All policies work-related 1 - Any policy "private"
ERRFP	Whether any supplement describing a policy is missing or shows conflicting information

CONSTRUCTION

(PRIVINS is constructed by checking responses to the baseline questionnaire and/or its supplements to see if participant had "private" medical insurance. If not all supplements were found (and no supplement indicated "private" insurance), PRIVINS was coded missing because of conflicting data.)

(cont.)

```
VARIABLE PRIVINS (cont.)  
CONSTRUCTION (cont.)  
(All nonDayton sites)  
(Construct IFP for each medical insurance supplement.)  
IFP = 0;  
IF DE12482 = 2 OR (3 <= DE12485 <= 5)  
THEN IFP = 1;  
IF (DE12482 = 2 AND DE12485 \= .) OR (DE12482 = 1 AND DE12485 = .)  
OR (DE12482 = . AND DE12485 = .)  
THEN IFP = .;  
  
(Construct FP)  
DO OVER MEDICAL SUPPLEMENTS;  
  IF FIRST.PERSON THEN FP = 0;  
    IF IFP = 1 THEN FP = 1;  
    IF IFP = . THEN ERRFP = 1;  
  IF LAST.PERSON THEN IF FP = 0 AND ERRFP = 1 THEN FP = .;  
END;  
  
(Seattle)  
PRIVINS = 0;  
(For persons with medical and/or dental insurance supplement(s).)  
IF FP \= 1 THEN PRIVINS = 1;  
IF FP = 1 THEN PRIVINS = 1;  
IF FP = 0  
  THEN DO;  
    IF INSURED = 0 THEN PRIVINS = 0;  
    IF INSURED = 1 THEN PRIVINS = .;  
    IF INSURED = 1  
      THEN IF COUNT >= DE11220  
        THEN PRIVINS = 0;  
      ELSE PRIVINS = .;  
  END;  
(cont.)
```

VARIABLE PRIVINS (cont.)

CONSTRUCTION (cont.)

(For persons with dental but no medical insurance supplements.)

```
IF INSURED =  
  THEN PRIVINS = .;  
IF INSURED = 1 AND TFAM = 1 AND COUNT < DEI1220  
  THEN PRIVINS = .;  
IF INSURED = 1 AND TFAM = 0  
  THEN PRIVINS = .;
```

(Massachusetts, South Carolina)

```
PRIVINS = 0;
```

(For persons with medical and/or dental insurance supplement(s).)

```
IF FP = 1 THEN PRIVINS = i;  
IF FP = i THEN PRIVINS = i;  
IF FP = 0  
  THEN DO;
```

```
  IF INSURED = 0 THEN PRIVINS = 0;  
  IF INSURED = . THEN PRIVINS = .;  
  IF INSURED = 1  
    THEN IF COUNT >= DEI1220  
      THEN PRIVINS = 0;  
      ELSE PRIVINS = .;  
  END;
```

(For persons with dental but no medical insurance supplements.)

```
IF INSURED =  
  THEN PRIVINS = .;  
IF INSURED = 1 AND TFAM = 1 AND COUNT < DEI1220  
  THEN PRIVINS = .;  
IF INSURED = 1 AND TFAM = 0  
  THEN PRIVINS = .;
```

VARIABLE	WORKINS	FSD	VALUE	FREQ	CUM FREQ	%	CUM %
Work-related medical insurance at baseline							
CODES							
0 - Missing or conflicting data							
0 - Has no insurance or only "private" insurance			0	8322	8322	29.68	29.68
1 - Has work insurance			1	5290	5290	29.68	29.68
12536				17826	17826	70.32	100.00
WORKINS indicates whether the participant has a medical insurance policy through work, defined as a group policy through one's employer or union.							
INPUT VARIABLES							
Site	HIEI		Variable				
Seattle	67	DE11220	(NonDayton) RECORD TOTAL NUMBER OF SUPPLEMENTS TO BE COMPLETED. THE NUMBER OF SUPPLEMENTS YOU HAVE PREPARED SHOULD EQUAL THIS TOTAL.				
Massachusetts	96						
South Carolina	151						
DE12482			(NonDayton) Is this a group plan or is it a private policy?				
			1. Group plan				
			2. Private plan				
DE12485			(NonDayton) Is this plan provided through an employer, a union, a school, or some other organization?				
			1. Employer				
			2. Union				
			3. School				
			4. Other organization				
			5. None (not group)				
INSURED			Family health insurance				
			- Missing or conflicting information				
			0 - No				
			1 - Yes				
			(cont.)				

- Missing or conflicting data
 - 0 - Has no insurance or only "private" insurance
 - 1 - Has work insurance
- WORKINS indicates whether the participant has a medical insurance policy through work, defined as a group policy through one's employer or union.

VARIABLE WORKINS (cont.)
INPUT VARIABLES (cont.)

Temporary variables

TFAM	Whether someone in family has a policy described in a medical insurance supplement
COUNT	Number of medical insurance supplements found
IFW	Whether policy described in medical insurance supplement is "private" or work-related - Missing or conflicting information
FW	"Private" policy 1 - Work-related policy Whether any policy described in a medical insurance supplement is work-related - Information on all policies missing or some policies missing and all others "private"
ERRFW	All policies "private" 1 - Any policy work-related Whether any supplement describing a policy is missing or shows conflicting information - No 1 - Yes

CONSTRUCTION

(WORKNS is constructed by checking responses to the baseline questionnaire and/or its supplements to see if participant had work-related medical insurance. If not all supplements were found (and no supplement indicated work-related insurance), WORKNS was coded missing because of conflicting data.)

(cont.)

VARIABLE WORKINS (cont.)
CONSTRUCTION (cont.)
(All nonDayton sites)
(construct IFW for each medical insurance supplement)

```
IFW = 0;  
  
IF (DE12482 = 1 OR DE12482 = .) AND  
(DE12485 = 1 OR DE12485 = 2)  
THEN IFW = 1;  
  
IF (DE12482 = 2 AND DE12485 \= .) OR  
(DE12482 = 1 AND DE12485 = .) OR  
(DE12482 = . AND DE12485 = .)  
THEN IFW = .;  
  
(Construct FW)  
DO OVER MEDICAL SUPPLEMENTS;  
  
IF FIRST.PERSON  
THEN FW = 0;  
IF IFW = 1 THEN FW = 1;  
IF IFW = . THEN ERRFW = 1;  
  
IF LAST.PERSON  
THEN IF FW = 0 AND ERRFW = 1 THEN FW = .;  
END;  
  
(Seattle)  
WORKINS = 0;  
  
(For persons with medical and/or dental insurance supplement(s).)  
IF FW = 1 THEN WORKINS = 1;  
IF FW = . THEN WORKINS = 1;  
  
IF FW = 0  
THEN DO;  
IF INSURED = 0 THEN WORKINS = 0;  
IF INSURED = . THEN WORKINS = .;  
IF INSURED = 1  
THEN IF COUNT >= DE11220  
THEN WORKINS = 0;  
ELSE WORKINS = .;  
END;
```

(cont.)

VARIABLE WORKINS (cont.)

CONSTRUCTION (cont.)

(For persons with dental but no medical insurance supplements.)

```
IF !INSURED =
  THEN WORKINS = .;
IF INSURED = 1 AND TFAM = 1 AND COUNT < DE11220
  THEN WORKINS = .;
IF INSURED = 1 AND TFAM = 0
  THEN WORKINS = .;
```

(Massachusetts, South Carolina)

WORKINS = 0;

(For persons with medical and/or dental insurance supplement(s).)

```
IF FW = 1 THEN WORKINS = .;
IF FW = 1 THEN WORKINS = 1;
IF FW = 0
  THEN DO;
    IF INSURED = 0 THEN WORKINS = 0;
    IF INSURED = 1 THEN WORKINS = .;
    IF INSURED = 1
      THEN IF COUNT >= DE11220
        THEN WORKINS = 0;
    ELSE WORKINS = .;
  END;
```

(For persons with dental but no medical insurance supplements.)

```
IF !INSURED =
  THEN WORKINS = .;
IF INSURED = 1 AND TFAM = 1 AND COUNT < DE11220
  THEN WORKINS = .;
IF INSURED = 1 AND TFAM = 0
  THEN WORKINS = .;
```

VARIABLE	PUBLINS	FSD	VALUE	FREQ	CUM FREQ	%	CUM %
Public insurance recipient				0	3108	88.46	88.46
CODES				1	20382 2658	23040	11.54 100.00
· Missing							
0 - No, or nonDayton respondents who did not answer DE12348 and DE12351							
1 - Yes							

PUBLINS indicates whether the participant's health care costs were paid by a government agency.

INPUT VARIABLES		
Site	HIEI	Variable
Dayton	15/43, 39	DE1249 (Dayton) Does anyone (else) in this family unit have their doctor or hospital costs paid for by Medicare, Medicaid, the military, or a government welfare agency?
Seattle	63	
Massachusetts	92	
South Carolina	147	

1. Yes
 2. No

DE12348 (NonDayton) Does anyone in this family unit have his or her doctor or hospital costs paid by Medicare? Who is that? (who else)?

1. Medicare
2. Other

DE12351 (NonDayton) Does anyone in this family unit have his or her medical care paid by Medicaid or a welfare agency? Who is that? (Anyone else?)

1. Medicaid or welfare
2. Other

(cont.)

VARIABLE PUBLINS (cont.)

CONSTRUCTION

(Dayton)

(From baseline data.)

```
IF DE1249 = 1 THEN PUBLINS = 1;
IF DE1249 = 2 THEN PUBLINS = 0;
```

(From EVF data for persons not present at baseline.)

```
IF DE1249 \= 1 THEN PUBLINS = 1;
IF DE1249 = 0 THEN PUBLINS = 0;
```

(NonDayton)

(From baseline data.)

```
IF DE12348 \= 1 AND DE12351 \= 1
THEN PUBLINS = 0;
ELSE IF DE12348 = 1 OR DE12351 = 1
THEN PUBLINS = 1;
```

VARIABLE	AFDC	FSR	CUM FREQ	CUM %
CODES	VALUE	FREQ	%	CUM %
•	Missing	15154	94.11	94.11
0	No	10346	5.89	100.00
1	Yes	648		

AFDC indicates whether the participant received public aid through the Aid to Families with Dependent Children program.

(cont.)

AFDC	VALUE	FREQ	CUM FREQ	CUM %
•	Missing	15154	94.11	94.11
0	No	10346	5.89	100.00
1	Yes	648		

VARIABLE AFDC (cont.)

INPUT VARIABLES		
Site	HIEI	Variable
Dayton Seattle	15/43 63	DEI1497 (Dayton) Did (you/anyone in your family unit, including children) receive any welfare payments during 1973 or 1974? For example, Aid to Families With Dependent Children or Supplemental Security Income (that is Old Age Assistance, Aid to the Blind or Disabled)? 1. Yes 2. No
		DEI1498 (Dayton) Under which programs did you receive payments? AFDC? 1. Yes 2. No
		DEI16025 (Seattle) During 1974, did you (or anyone in your family unit, including children) receive any public aid benefits from the AFDC (Aid to Families With Dependent Children)? 1. Yes 2. No

CONSTRUCTION

(Dayton)

(From baseline data.)

```
IF DEI1497 = 1  
THEN DO;  
  IF DEI1498 = 1  
    THEN AFDC = 1;  
  ELSE IF DEI1498 = 2  
    THEN AFDC = 0;  
END;  
  
ELSE IF DEI1497 = 2 AND DEI1498 =  
      THEN AFDC = 0;
```

(cont.)

VARIABLE AFDC (cont.)
 CONSTRUCTION (cont.)

(Seattle)
 (From baseline data.)

IF DE16025 = 2 THEN AFDC = 0;
 IF DE16025 = 1 THEN AFDC = 1;

VARIABLE	SSI	FSID	SS1	VALUE	FREQ	CUM FREQ	%	CUM %
SSI recipient				0	9939	16054	99.04	99.04
CODES				1	155	16209	0.96	100.00
- Missing								
0 - No								
1 - Yes								

SSI indicates whether the participant received federal
 Supplemental Security Income for the disabled.

INPUT VARIABLES

Site	HIEI	VARIABLE
Dayton	15/43	DE11497 (Dayton) Did you receive any
Seattle	63,124	welfare payments during 1973
Massachusetts	177	or 1974? For example, Aid
South Carolina	188	to Families with Dependent
		Children or Supplemental
		Security Income (that is, Old
		Age Assistance, Aid to the
		Blind or Disabled)?
		1. Yes
		2. No

DE11499 (Dayton) Under which programs
 did you receive payments?
 SSI?

1. Yes
2. No

(cont.)

VARIABLE SSI (cont.)
INPUT VARIABLES (cont.)

DE16030 (NonDayton EVF) Are you currently receiving income from the S.S.I. program? That is, Supplemental Security Income--Old Age Assistance/Aid to the Blind or Disabled?
1. Yes
2. No
(Seattle baseline)
During 1974, did you receive any income from the S.S.I. program (Supplemental Security Income--that is Old Age Assistance/Aid to the Blind or Disabled)?
1. Yes
2. No
(NonDayton EVF) IF RECEIVES SSI, CODE '1' IF NOT, CODE '8'.
1. SSI
8. Not applicable
(Seattle baseline) Are you covered by check from SSI?
1. Covered
2. Not covered

CONSTRUCTION

(Dayton)
(From baseline data.)

```
IF DE11497 = 1
  THEN DO;
    IF DE11499 = 1
      THEN SSI = 1;
    ELSE IF DE11499 = 2
      THEN SSI = 0;
  END;

ELSE IF DE11497 = 2 AND DE11499 =
  THEN SSI = 0;
```

(cont.)

VARIABLE SSI (cont.)

CONSTRUCTION (cont.)

(Seattle)

(From EVF data.)

```
IF DE16031 = 8  
  THEN SSI = 0;  
ELSE IF DE16031 = 1  
  THEN SSI = 1;  
ELSE IF DE16030 = 2  
  THEN SSI = 2;  
  
(From baseline data for persons not present at enrollment.)  
  
IF DE16031 = 1  
  THEN SSI = 1;  
ELSE IF DE16030 = 2  
  THEN SSI = 0;
```

(Massachusetts and South Carolina)

(From EVF data.)

```
IF DE16031 = 8  
  THEN SSI = 0;  
ELSE IF DE16031 = 1  
  THEN SSI = 1;  
ELSE IF DE16030 = 2  
  THEN SSI = 0;
```

VARIABLE	FOODSTMP	VALUE	FREQ	CUM FREQ	%	CUM %
Food stamp recipient at baseline						
CODES						
0 - Missing		15151	15151	9778	88.92	88.92
0 - No		9778	9778	1219	11.09	100.00
1 - Yes		1	1	10997	11.09	100.00

FOODSTMP indicates whether the participant received food stamps.		
Site	HIEI	Variable
Dayton	15/43	DEI1591 (Dayton) Did (you/your family) purchase food stamps during 1973 or 1974?
Seattle	63	1. Yes 2. No
		DEI6039 (Seattle) Now, back to last year, during 1974 did anyone in this household purchase food stamps? 1. Yes 2. No

INPUT VARIABLES

Site	HIEI	Variable
Dayton	15/43	DEI1591 (Dayton) Did (you/your family) purchase food stamps during 1973 or 1974?
Seattle	63	1. Yes 2. No

CONSTRUCTION

(Dayton)

(From baseline data.)

```
IF DEI1591 = 1 THEN FOODSTMP = 1;
IF DEI1591 = 2 THEN FOODSTMP = 0;
```

(cont.)

VARIABLE FOODSTMP (cont.)

CONSTRUCTION (cont..)

(Seattle)

(From baseline data.)

```

IF DE16039 = 1 THEN FOODSTMP = 1;
IF DE16039 = 2 THEN FOODSTMP = 0;

```

VARIABLE	WELFARE	FSD
Welfare recipient		
CODES		
- Missing		
0 - No		
1 - Yes		

WELFARE indicates whether the participant received welfare payments.

WELFARE	VALUE	FREQ	CUM FREQ	%	CUM %
	0	15170	9597	87.42	87.42
	1	1381	10978	12.58	100.00

INPUT VARIABLES

Site	HIEI	Variable
Dayton	15/43	DE11497 (Dayton) Did you receive any welfare payments during 1973 or 1974? For example, Aid to Families with Dependent Children or Supplemental Security Income (that is, Old Age Assistance, Aid to the Blind or Disabled)? 1. Yes 2. No AFDC AFDC recipient at baseline SSI SSI recipient FOODSTMP Food stamp recipient at baseline

(cont.)

VARIABLE WELFARE (cont.)

CONSTRUCTION

(Dayton)

(From baseline data.)

```

IF DE11497 = 2 AND FOODSTMP = 0
  THEN WELFARE = 0;
IF DE11497 = 1 OR FOODSTMP = 1
  THEN WELFARE = 1;

```

(Seattle)

```

IF AFDC = 1 OR SSI = 1 OR FOODSTMP = 1
  THEN WELFARE = 1;
ELSE IF AFDC = 0 AND SSI = 0 AND FOODSTMP = 0
  THEN WELFARE = 0;

```

VARIABLE	EGFPBAS	FSD	FREQ	CUM FREQ	%	CUM %
Health status			3074	3074	100.00	100.00
CODES			11224	11224	48.64	48.64
			9017	20241	39.08	87.72
			2180	22421	9.45	97.17
			653	23074	2.83	100.00
Missing						
1 - Excellent						
2 - Good						
3 - Fair						
4 - Poor						

EGFPBAS reports the participant's evaluation of his or her current health.

(cont.)

VARIABLE EGFPBAS (cont.)

INPUT VARIABLES			
Site	HIE!	Variable	
Dayton	9,15/43,36	DEI177	(Dayton) Compared to other persons your age, would you say that your health is excellent, good, fair, poor?
Seattle	62,63		1. Excellent
Massachusetts	91,92		2. Good
South Carolina	146,147		3. Fair
			4. Poor
		DEI356	Would you say your health, in general, is excellent, good, fair, or poor?
			1. Excellent
			2. Good
			3. Fair
			4. Poor

CONSTRUCTION
(Dayton)
(From baseline data or EVF new person supplement (for persons not present at baseline).)
IF 1 <= DEI356 <= 4 THEN EGFPBAS = DEI356;
(From screening data if the information was missing from baseline and EVF new person supplement data.)
EGFPBAS = DEI177;

(Seattle, Massachusetts, and South Carolina)
(From baseline data.)
EGFPBAS = DEI356;
(From screening data if the information was missing from baseline data.)
IF 1 <= DEI356 <= 4
THEN EGFPBAS = DEI356;

VARIABLE	HSELFREP	FSD	VALUE	FREQ	CUM FREQ	%	CUM %
Self-reported health characteristics							
CODES#							
1	Missing			1	3304	12098	52.96
1	- Health status and physician use self-reported			2	10731	22829	46.98
2	- Health status and physician use reported by another			3	9	22838	0.04
3	- Health status but not physician use self-reported			4	6	22844	0.03
4	- Physician use but not health status self-reported						
HSELFREP indicates whether the participant or another reported on his/her health status and physician use.							
#Codes 1-4 were used in Dayton; only codes 1 and 2 were used in the other sites.							
INPUT VARIABLES							
Site	HIEI		Variable				
Dayton	15/43	DEI1560	(Dayton) Is health status section self or other person response?				
Seattle	63		1. Self-response				
Massachusetts	92		2. Other-response				
South Carolina	147	DEI12703	(Dayton) Is utilization section self/other response?				
		DEI12820	1. Self-response				
			2. Other-response				
			(Seattle) CODE FOR EACH PERSON COLUMN USED.				
			Who answered most of the questions in this column--				
			for modules C and D (health status and physician utilization)?				
			CODE ONE.				
			1. Self-response				
			2. Female head only				
			3. Male head only				
			4. Both heads				
			5. Other in household				
			6. Other, out of household (cont.)				

VARIABLE HSELFREP (cont.)
INPUT VARIABLES (cont.)

(Massachusetts and South Carolina) CODE FOR EACH PERSON COLUMN USED. Who answered most of the questions in this column-- for Modules C and D (health status and physician utilization)? CODE ONE.

- 1. Self-response
- 2. Female head only
- 3. Male head only
- 4. Other in household

CONSTRUCTION

(Dayton)

(From baseline data.)

```
IF DEI1560 = 1 AND DEI2703 = 1 THEN HSELFREP = 1;  
IF DEI1560 = 2 AND DEI2703 = 2 THEN HSELFREP = 2;  
IF DEI1560 = 1 AND DEI2703 = 2 THEN HSELFREP = 3;  
IF DEI1560 = 2 AND DEI2703 = 1 THEN HSELFREP = 4;
```

(Seattle, Massachusetts and South Carolina)

(From baseline data.)

```
IF DEI2820 = 1  
THEN HSELFREP = 1;  
ELSE IF DEI2820 > 1 AND DEI2820 <= 6  
THEN HSELFREP = 2;
```

VARIABLE	PAINBAS	FSD	VALUE	FREQ	CUM FREQ	%	CUM %
Frequency of pain							
CODES			1	3210	1238	5.40	5.40
1 - Missing			2	2686	3924	11.71	17.11
2 - Very often			3	8692	12616	37.89	55.00
3 - Fairly often			4	10322	22938	45.00	100.00
4 - Occasionally							
5 - Not at all							

PAINBAS reports how often participant experienced pain in the past year.

INPUT VARIABLES

Site	HIEI	Variable
Dayton	15/43, 36	DE1358 (Dayton) In the past year, would you say you have experienced pain very often, fairly often, occasionally, or not at all?
Seattle	63	1. Very often 2. Fairly often 3. Occasionally 4. Not at all 8. Don't know
Massachusetts	92	DE12837 (NonDayton) In the past year, would you say you have experienced a great deal of pain, some pain, a little pain, or no pain at all?
South Carolina	147	1. A great deal 2. Some pain 3. A little pain 4. No pain at all 8. Don't know

(cont.)

VARIABLE PAINBAS (cont.)

CONSTRUCTION

(Dayton)

{ From baseline data or EVF new person supplement (for persons
not present at baseline). }

IF 1 <= DE1358 <= 4
THEN PAINBAS = DE1358;

(Seattle)

{ From baseline data. }

IF 1 <= DE1358 <= 4
THEN PAINBAS = DE1358;

(Massachusetts and South Carolina)

{ From baseline data. }

IF 1 <= DE12837 <= 4
THEN PAINBAS = DE12837;

WORRYBAS	VALUE	FREQ	CUM FREQ	%	CUM %
Worry about health	1	3196	1252	5.46	5.46
CODES	2	3952	5204	17.22	22.67
	3	4732	9936	20.62	43.29
	4	13016	22952	56.71	100.00

WORRYBAS reports how much the participant worried about his
or her health in the past year.

(cont.)

VARIABLE WORRYBAS (cont.)

INPUT VARIABLES	
Site	HIE!
Dayton	15/43, 36
Seattle	63
Massachusetts	92
South Carolina	147

Variable

(Dayton, Seattle) Over the past year has your health caused a great deal of worry, some worry, hardly any worry, or no worry at all?

1. Great deal
2. Some
3. Hardly any
4. None at all

(Massachusetts and South Carolina) Over the past year has your health caused you a great deal of worry, some worry, a little worry, or no worry at all?

1. Great deal
2. Some
3. A little
4. None at all

CONSTRUCTION

(Dayton)

(From baseline data or EVF new person supplement (for persons not present at baseline).)

IF 1 <= DE1357 <= 4
THEN WORRYBAS = DE1357;

(Seattle)

(From baseline data.)

IF 1 <= DE1357 <= 4
THEN WORRYBAS = DE1357;

(cont.)

VARIABLE WORRYBAS (cont.)

CONSTRUCTION (cont.)

(Massachusetts and South Carolina)

(From baseline data.)

IF 1 <= DE12836 <= 4
THEN WORRYBAS = DE12836;

VARIABLE	HOSP	FSD
Hospitalization		
CODES		
.	Missing	
0	No	
1	Yes	

HOSP reports whether participant was hospitalized in the past year.

INPUT VARIABLES	HIEI	Variable
Site		
Dayton	15/43,36	DE1387 (Dayton) Was anyone in this family unit admitted to a hospital at any time in the last 12 months?
Seattle	63,125	Please do not include emergency room visits that did not result in (being admitted to a hospital).
Massachusetts	92,181	(Massachusetts and South Carolina) Since (DATE OF INTERVIEW) a year ago, have you (or has anyone in the family) been a patient in a hospital overnight or longer?
South Carolina	147,192,380	1. Yes 2. No

HOSP	VALUE	FREQ	CUM FREQ	%	CUM %
	0	2834	20778	89.12	89.12
	1	2536	23314	10.88	100.00

VARIABLE HOSP (cont.)
INPUT VARIABLES (cont.)

- DE1479 Who was admitted to a hospital?
1. Admitted
8. Don't know
9. Not applicable
DE1407 (NonDayton) INTERVIEWER CODE: IS THERE MORE THAN ONE PERSON IN THIS FAMILY UNIT/RELATIONSHIP GROUP?
1. Yes
2. No
DE1408 (Seattle) During the last 12 months, how many people in this family unit/group were patients in a hospital? By that I mean anyone who might already have been in the hospital on (DATE OF INTERVIEW) a year ago, or anyone who was hospitalized at any time since then, and including also anyone in a hospital now?
of persons hospitalized
0 No one hospitalized
DE1409 (NonDayton) During the last 12 months, have you been a patient in a hospital? I mean on or since (DATE OF INTERVIEW) a year ago.
1. Yes
2. No
- CONSTRUCTION
(Dayton)
(From baseline data.)
- IF (DE1387 = 2) OR (DE1387 = 1 AND DE1479 \= 1)
THEN HOSP = 0;
IF DE1387 = 1 AND DE1479 = 1
THEN HOSP = 1;
- (cont.)

VARIABLE HOSP (cont.)
CONSTRUCTION (cont.)

(From EVF new person supplement for persons not present at baseline.)

```
IF DEI387 = 2 THEN HOSP = 0;  
IF DEI387 = 1 THEN HOSP = 1;
```

(Seattle)

(From baseline data.)

```
IF (DEI1407 = 2 AND DEI1409 = 2) OR  
(DEI1407 = 1 AND DEI1408 = 0) OR  
(DEI1407 = 1 AND DEI1408 >= 0 AND DEI479 = 8)  
THEN HOSP = 0;  
IF (DEI1407 = 2 AND DEI1409 = 1) OR  
(DEI1407 = 1 AND DEI1408 > 0 AND DEI479 = 1)  
THEN HOSP = 1;
```

(From EVF new person supplement for persons not present at baseline.)

```
IF DEI1409 = 2 THEN HOSP = 0;  
IF DEI1409 = 1 THEN HOSP = 1;
```

(Massachusetts and South Carolina)

(From baseline data.)

```
IF DEI387 = 2 OR (DEI387 = 1 AND DEI479 \= 1)  
THEN HOSP = 0;  
IF DEI387 = 1 AND DEI479 = 1  
THEN HOSP = 1;
```

(From EVF new person supplement for persons not present at baseline.)

```
IF DEI1409 = 2 THEN HOSP = 0;  
IF DEI1409 = 1 THEN HOSP = 1;
```

VARIABLE	HAVEMD	FSD	VALUE	FREQ	CUM FREQ	%	CUM %
Family doctor			0	8627	935	5.34	
CODES			1	16586	17521	94.66	100.00
Missing							

- 0 - No family doctor
- 1 - Family doctor present

HAVEMD indicates whether any member of the family had a regular doctor or clinic for medical care.

INPUT VARIABLES

Site	HIEI	Variable
Dayton	15/43,36	DE1877 (Dayton, Massachusetts, South Carolina) Are there any particular doctors or clinics you (or other members of your family) usually go to when you (or they) are sick or need medical advice?
Massachusetts	92,181	
South Carolina	147,192	1. Yes 2. No

DE1879 (Dayton) Are there any (other) doctors or clinics you (or your family) go to regularly such as eye doctors, (women's doctors, children's doctors) and so forth?

1. Yes
2. No

DE1200 (Massachusetts and South Carolina) Are there any particular doctors or clinics (PERSON) usually goes to when (he/she) is sick or needs medical advice?

1. Yes
2. No

(cont.)

VARIABLE HAVEMD (cont..)

CONSTRUCTION

(HAVEMD is constructed by checking the presence of a doctor for each member of the family, using baseline data for those present then, and EVF new person supplement for those not present at baseline. If any member had a doctor, the entire family was considered to have a doctor.)

(Dayton)

{From baseline or EVF new person supplement data.}

```
IF 1 <= DE1877 <= 2 | 1 <= DE1879 <= 2
  THEN DO;
    IF DE1877 = 1 | DE1879 = 1
      THEN HAVEMD = 1;
    ELSE IF DE1877 = 2 & DE1879 = 2
      THEN HAVEMD = 0;
  END;
```

(Massachusetts and South Carolina)

{From baseline data.}

```
IF 1 <= DE11200 <= 2
  THEN DO;
    IF DE11200 = 1
      THEN HAVEMD = 1;
    ELSE HAVEMD = 0;
  END;
```

{From EVF new person supplement data.}

```
IF 1 <= DE1877 <= 2
  THEN DO;
    IF DE1877 = 1
      THEN HAVEMD = 1;
    ELSE HAVEMD = 0;
  END;
```

variable	mdeexam	fsd	value	freq	cum	%	cum	%
Physical exam				321	321	50.46	50.46	
CODES				11574	11574	49.54	100.00	
0 - Missing			0	11363	22937			
0 - No			1					
1 - Yes								

MDEXAM indicates whether participant had a physical examination in the past year.

INPUT VARIABLES

site	hie1	variable
Dayton	15/43, 36	(Dayton) In addition to what you've told me about, during the last 12 months, did you do any of these things:
Seattle	63	
Massachusetts	92, 181	DEI1454 A. Have a general medical or physical examination?
South Carolina	147, 192	DEI1455 B. See a doctor in a hospital emergency room or outpatient clinic?
		0. No
		2. Yes, Dr already recorded
		3. Yes, Dr is new
		(Seattle) First, we want to ask you about visits to the doctor that were not for any special health problems you may have:
		During the last 12 months, did you have a general medical or a physical examination or a check-up?
		1. Yes
		2. No

(cont.)

VARIABLE MDEXAM (cont.)
INPUT VARIABLES (cont.)

DE12844 (Massachusetts and South Carolina) Since (DATE OF INTERVIEW) a year ago, did you (or any other members of your family) have a general medical or physical examination?
1. Yes
2. No

DE12845 (Massachusetts and South Carolina) Who had an exam? (Who else?)
1. Had exam
2. No

DE11570 (Massachusetts and South Carolina) Since (DATE OF INTERVIEW) a year ago, has (PERSON) had a general medical or physical examination?
1. Yes
2. No

CONSTRUCTION

(Dayton)

(From baseline or EVF new person supplement data.)

IF DE11454 = 0 AND DE11455 = 0
THEN MDEXAM = 0;
IF DE11454 > 0 OR DE11455 > 0
THEN MDEXAM = 1;

(Seattle)

(From baseline data.)

IF DE11414 = 2 THEN MDEXAM = 0;
IF DE11414 = 1 THEN MDEXAM = 1;

(cont.)

VARIABLE MDEXAM (cont.)
CONSTRUCTION (cont..)

(Massachusetts and South Carolina)
(From baseline data.)

```
IF DE12845 = 2 OR DE12844 = 2
THEN MDEXAM = 0;
IF DE12845 = 1
THEN MDEXAM = 1;
```

(From EVF new person supplement (for persons not present at baseline).)

```
IF DE11570 = 1 THEN MDEXAM = 1;
IF DE11570 = 2 THEN MDEXAM = 0;
```

VARIABLE	MDVIS	FSD	MDVIS	VALUE	FREQ	CUM FREQ	CUM %
Medical visits			CODES	0	6502	6502	8.31
				1	1633	1633	8.31
				2	3974	5607	28.54
				3	3228	8835	44.97
				4	2347	11182	56.92
				5	1738	12920	65.76
				6	1246	14166	72.11
				7	1054	15220	77.47
				8	679	15899	80.93
				9	574	16473	83.85
				10	395	16868	85.86
				11	484	17352	88.32
				12	233	17585	89.51
				13	423	18008	91.66
				14	210	18218	92.73
				15	137	18355	93.43
				16	212	18567	94.51
				17	108	18675	95.06
				18	91	18766	95.52
				19	80	18846	95.93
				20	37	18883	96.12
					138	19021	96.82

(cont.)

MDVIS indicates how many times the participant visited a health practitioner in the past year. These visits exclude hospitalizations.

INPUT VARIABLES

Site	HIEI	Variable
Dayton	15/43, 25, 36	DE1877
Seattle	63, 125	(Dayton, Massachusetts, South Carolina) Are there any particular doctors or clinics you usually go to when you are
Massachusetts	92, 93, 181	
South Carolina	147, 148, 192, 380	

(cont.)

VARIABLE MDVIS (cont.)
INPUT VARIABLES (cont.)

	VALUE	FREQ	CUM FREQ	%	CUM %
sick or need medical advice?					
1. Yes	21	44	19065	0.22	97.04
2. No	22	35	19100	0.18	97.22
(Dayton) Besides the doctors and/or clinics just mentioned how many doctors altogether have you gone to during the last twelve months?	23	32	19132	0.16	97.38
(Dayton) Are there any (other) doctors or clinics you go to regularly such as eye doctors, (women's doctors, children's doctors) and so forth?	24	63	19195	0.32	97.70
DE1878 (Massachusetts and South Carolina) Have you been treated or examined by any (other) clinic or doctor since (DATE OF INTERVIEW) a year ago, that is, an eye doctor, dermatologist, psychiatrist, surgeon, obstetrician, (gynecologist), (pediatrician), or any other kind of doctor?	25	59	19254	0.30	98.01
1. Yes	26	41	19295	0.21	98.21
2. No	27	24	19319	0.12	98.34
(Dayton) (Besides the doctors and/or clinics just mentioned) how many doctors altogether have you gone to during the last twelve months?	28	16	19335	0.08	98.42
(Dayton) Are there any (other) doctors or clinics you go to regularly such as eye doctors, (women's doctors, children's doctors) and so forth?	29	22	19357	0.11	98.53
DE1879 (Massachusetts and South Carolina) Have you been treated or examined by any (other) clinic or doctor since (DATE OF INTERVIEW) a year ago, that is, an eye doctor, dermatologist, psychiatrist, surgeon, obstetrician, (gynecologist), (pediatrician), or any other kind of doctor?	30	34	19391	0.17	98.70
1. Yes	31	8	19399	0.04	98.74
2. No	32	14	19413	0.07	98.81
(Dayton) (Besides the doctors and/or clinics just mentioned) how many doctors altogether have you gone to during the last twelve months?	33	9	19422	0.05	98.86
(Dayton) Are there any (other) doctors or clinics you go to regularly such as eye doctors, (women's doctors, children's doctors) and so forth?	34	9	19431	0.05	98.91
DE1880 (Massachusetts and South Carolina) In the last 12 months, that is, since (DATE OF INTERVIEW) a year ago, have you been treated or examined by (this doctor/this clinic/any of these doctors or clinics)?	35	13	19444	0.07	98.97
1. Yes	36	16	19460	0.08	99.05
2. No	37	7	19467	0.04	99.09
(Massachusetts and South Carolina) In the last 12 months, that is, since (DATE OF INTERVIEW) a year ago, have you been treated or examined by (this doctor/this clinic/any of these doctors or clinics)?	38	6	19473	0.03	99.12
DE11270 (Massachusetts and South Carolina) In the last 12 months, that is, since (DATE OF INTERVIEW) a year ago, have you been treated or examined by (this doctor/this clinic/any of these doctors or clinics)?	39	8	19481	0.04	99.16
1. Yes	40	18	19499	0.09	99.25
2. No	41	6	19505	0.03	99.28
(Massachusetts and South Carolina) In the last 12 months, that is, since (DATE OF INTERVIEW) a year ago, have you been treated or examined by (this doctor/this clinic/any of these doctors or clinics)?	42	9	19514	0.05	99.33
DE11271 (Massachusetts and South Carolina) In the last 12 months, that is, since (DATE OF INTERVIEW) a year ago, have you been treated or examined by (this doctor/this clinic/any of these doctors or clinics)?	43	6	19520	0.03	99.36
1. Yes	44	3	19523	0.02	99.37
2. No	45	2	19525	0.01	99.38
(Massachusetts and South Carolina) In the last 12 months, that is, since (DATE OF INTERVIEW) a year ago, have you been treated or examined by (this doctor/this clinic/any of these doctors or clinics)?	46	5	19530	0.03	99.41
DE11272 (Massachusetts and South Carolina) In the last 12 months, that is, since (DATE OF INTERVIEW) a year ago, have you been treated or examined by (this doctor/this clinic/any of these doctors or clinics)?	47	3	19533	0.02	99.43
1. Yes	48	5	19538	0.03	99.45
2. No	49	2	19540	0.01	99.46
(Massachusetts and South Carolina) In the last 12 months, that is, since (DATE OF INTERVIEW) a year ago, have you been treated or examined by (this doctor/this clinic/any of these doctors or clinics)?	50	19	19559	0.10	99.56
DE11273 (Massachusetts and South Carolina) In the last 12 months, that is, since (DATE OF INTERVIEW) a year ago, have you been treated or examined by (this doctor/this clinic/any of these doctors or clinics)?	51	7	19566	0.04	99.59
1. Yes	52	13	19579	0.07	99.66
2. No	53	9	19588	0.05	99.71
(Massachusetts and South Carolina) In the last 12 months, that is, since (DATE OF INTERVIEW) a year ago, have you been treated or examined by (this doctor/this clinic/any of these doctors or clinics)?	54	3	19591	0.02	99.72
1. Yes	55	4	19595	0.02	99.74
2. No	56	1	19596	0.01	99.75
(Massachusetts and South Carolina) In the last 12 months, that is, since (DATE OF INTERVIEW) a year ago, have you been treated or examined by (this doctor/this clinic/any of these doctors or clinics)?	57	8	19604	0.04	99.79
1. Yes	58	3	19607	0.02	99.80
2. No	59	1	19608	0.01	99.81
(Massachusetts and South Carolina) In the last 12 months, that is, since (DATE OF INTERVIEW) a year ago, have you been treated or examined by (this doctor/this clinic/any of these doctors or clinics)?	60	3	19611	0.02	99.82
1. Yes	61	2	19613	0.01	99.83

(cont.)

VAR|ABLE MDVIS (cont.)
INPUT VARIABLES (cont.)

		VALUE	FREQ	CUM FREQ	%	CUM %
DEI1410	(Seattle) In the last 12 months--since (MONTH), 1974--how many times altogether did you see a doctor about your own health? This should not include visits while you was a patient in a hospital.	63 64 66 68 70 71 72 79 79 80	2 1 1 2 1 2 2 2 1	19615 19616 19617 19619 19620 19622 19624 19626 19627 1	0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01	99.84 99.85 99.85 99.86 99.87 99.87 99.88 99.89 99.90 99.90
DEI1454	(Dayton) In addition to what you've told me about, during the past 12 months did (you/anyone in the family) do any of these things: a. Have a general medical or physical examination?	85 88 90 92 95 97 99 100 101 103 105 107 119 124 142 145	1 1 1 2 1 1 3 1 1 1 1 1 1 1 1	19628 19629 19630 19632 19633 19634 19637 19638 19639 19640 19641 19642 19643 19644 19645 19646	0.01 0.01 0.01 0.01 0.01 0.01 0.02 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01	99.91 99.91 99.92 99.93 99.93 99.94 99.95 99.96 99.96 99.97 99.98 99.98 99.99 99.99 100.00 100.00
DEI1455	(Dayton) In addition to what you've told me about, during the past 12 months did (you/anyone in the family) do any of these things: b. See a doctor in a hospital emergency room or outpatient clinic?	0 1 2 3 119 124 142 145	0 1 1 3 1 1 1 1	19646	0.01	100.00
DEI1456-DEI1458	c. Go to any specialist such as a chiropractor? d. Go to any places like those on this card? (HAND CARD 9.) READ LIST; public (cont.)					
DEI1457						

VARIABLE MDVIS (cont.)
INPUT VARIABLES (cont.)

- health center, family planning clinic, mental health clinic, TB chest x-ray unit, or student health center?
- e. Been treated or examined by any other doctor, clinic, or health facility?
DO NOT INCLUDE DENTISTS.
0. No
1. Yes, doctor already recorded
2. Yes, doctor is new name, add supplement
- (Massachusetts and South Carolina) Have you been treated or examined by any (other) clinic or doctor since (DATE OF INTERVIEW) a year ago, that is, an eye doctor, dermatologist, psychiatrist, surgeon, (obstetrician), (gynecologist), (pediatrician), or any other kind of doctor?
1. Yes
2. No
- (Massachusetts and South Carolina) Since (DATE OF INTERVIEW) a year ago, have you had a general medical or physical examination?
1. Yes
2. No
- (Massachusetts and South Carolina) What about hospital emergency rooms or hospital outpatient clinics? Were you treated or examined in an emergency room or outpatient clinic (cont.)

VARIABLE MDVIS (cont.)
INPUT VARIABLES (cont.)

since (DATE OF INTERVIEW)
a year ago?

1. Yes

2. No
(Massachusetts and South Carolina) Please look at this card and tell me if you have been treated or examined by any of these kinds of health specialists since (DATE OF INTERVIEW) a year ago, that is, persons such as chiropractors, Christian Science practitioners, chiropodists, clinical psychologists, or any other health care practitioner--not including dentists.

1. Yes

2. No
(Massachusetts and South Carolina) Have you gone to any place like those on this card since (DATE OF INTERVIEW) a year ago, that is, a public health center, a family planning clinic, mental health center, TB chest x-ray unit, or student health center?

1. Yes

2. No
(Massachusetts and South Carolina) Have you been treated or examined by any (other) doctor, clinic, or other health facility since (DATE OF INTERVIEW) a year ago?

1. Yes

2. No
(Dayton) Have you been treated or examined by (cont.)

DEI 1572

(Massachusetts and South Carolina) Please look at this card and tell me if you have been treated or examined by any of these kinds of health specialists since (DATE OF INTERVIEW) a year ago, that is, persons such as chiropractors, Christian Science practitioners, chiropodists, clinical psychologists, or any other health care practitioner--not including dentists.

1. Yes

2. No
(Massachusetts and South Carolina) Have you gone to any place like those on this card since (DATE OF INTERVIEW) a year ago, that is, a public health center, a family planning clinic, mental health center, TB chest x-ray unit, or student health center?

1. Yes

2. No
(Massachusetts and South Carolina) Have you been treated or examined by any (other) doctor, clinic, or other health facility since (DATE OF INTERVIEW) a year ago?

1. Yes

2. No
(Dayton) Have you been treated or examined by (cont.)

DEI 1580

(Massachusetts and South Carolina) Have you gone to any place like those on this card since (DATE OF INTERVIEW) a year ago, that is, a public health center, a family planning clinic, mental health center, TB chest x-ray unit, or student health center?

1. Yes

2. No
(Massachusetts and South Carolina) Have you been treated or examined by any (other) doctor, clinic, or other health facility since (DATE OF INTERVIEW) a year ago?

1. Yes

2. No
(Dayton) Have you been treated or examined by (cont.)

DEI 1581

(Massachusetts and South Carolina) Have you been treated or examined by any (other) doctor, clinic, or other health facility since (DATE OF INTERVIEW) a year ago?

1. Yes

2. No
(Dayton) Have you been treated or examined by (cont.)

DEI 1879

VARIABLE MDVIS (cont.)
INPUT VARIABLES (cont.)

(PROVIDER) in the last
two live months? (Massachusetts and South
Carolina) Have you
been treated or examined
by (this doctor/this
clinician) of these
doctors or clinics) in
the last 12 months--that
is, since (DATE OF
INTERVIEW) of last year?

1. Yes
2. No

(Dayton) Counting all
visits for any reason,
how many times did you go
to (PROVIDER) in the past
12 months? IF NECESSARY
EXPLAN: Not counting
visits while in the
hospital.

(Massachusetts and South
Carolina) In the last 12
months, that is, since
(DATE OF INTERVIEW) a year
ago, how many times
altogether did you see (1ST
PROVIDER) about your own
health? This should not
include visits while you
were a patient in a
hospital.

(Massachusetts and South
Carolina) In the last 12
months, that is, since
(DATE OF INTERVIEW) a year
ago, how many times
altogether did you see (2ND
PROVIDER) about your own
health? This should not
include visits while you
were a patient in a
hospital.

(cont.)

VARIABLE MDVIS (cont.)
INPUT VARIABLES (cont.)

- DE12100 (Massachusetts and South Carolina) In the last 12 months, that is, since (DATE OF INTERVIEW) a year ago, how many times altogether did you see (3RD PROVIDER) about your own health? This should not include visits while you were a patient in a hospital.
- DE12105 (Massachusetts and South Carolina) In the last 12 months, that is, since (DATE OF INTERVIEW) a year ago, how many times altogether did you see (4TH PROVIDER) about your own health? This should not include visits while you were a patient in a hospital.
- DE12799 (Massachusetts and South Carolina) Number of provider supplements.
- DE12846 (Massachusetts and South Carolina) What about hospital emergency rooms and hospital outpatient clinics? Were you treated or examined in an emergency room or outpatient clinic since (DATE OF INTERVIEW) a year ago?
1. Yes
2. No
- DE12847 (Massachusetts and South Carolina) Please look at this card and tell me if you have been treated or examined by any of these kinds of health specialists since (DATE OF INTERVIEW) a year ago, that is, persons such as chiropractors,

(cont.)

VARIABLE MDVIS (cont.)
INPUT VARIABLES (cont.)

Christian Science
practitioners, chiropractors, clinical
psychologists, or any other
health care practitioner--
not including dentists.

1. Yes

2. No

DE12848 (Massachusetts and South
Carolina) Have you
gone to any places like
those on this card since
(DATE OF INTERVIEW) a
year ago, that is, a
public health center,
family planning clinic,
mental health clinic,
TB chest x-ray unit,
or student health center?

1. Yes

2. No

DE12849 (Massachusetts and South
Carolina) Have you
been treated or examined
by any (other) doctor,
clinic, or other health
facility since (DATE OF
INTERVIEW) a year ago?
1. Yes
2. No

CONSTRUCTION

(Dayton)

(For persons present at baseline, MDVIS is constructed by summing
the number of visits made by the participant. Responses to
the baseline questionnaire indicated how many health care
providers the participant saw. For each provider, a baseline
physician care supplement was completed specifying the number of
visits. MDVIS is the sum of visits recorded on those supplements.
If the number of supplements indicated differed from the number
of supplements found, MDVIS was coded missing because of
conflicting data.)

(cont.)

VARIABLE MDVIS (cont.)
CONSTRUCTION (cont.)

(From baseline questionnaire data and physician care supplement.)

```
IF DE1877 = 2 AND DE1878 = 0  
THEN MDVIS = 0;  
IF DE1877 = 1 OR DE1878 > 0 OR DE1879 = 1  
OR DE11454 = 2  
OR DE11454 = 3  
OR DE11455 = 2  
OR DE11455 = 3  
OR DE11456 = 2  
OR DE11456 = 3  
OR DE11457 = 2  
OR DE11457 = 3  
OR DE11458 = 2  
OR DE11458 = 3  
THEN DO OVER SUPPLEMENTS;
```

```
IF DE11879 = 2  
THEN DE11886 = 0;  
MDVIS = SUM(MDVIS, DE11886);
```

END;

(From EVF new person supplement data (all such cases are newborns).)

```
MDVIS = 0;
```

(Seattle)

(From baseline or EVF new person supplement data.)

```
MDVIS = DE11410;
```

(Massachusetts and South Carolina)

(MDVIS is constructed by summing the number of visits made by the participant, using baseline data or EVF new person supplement data for those not present at baseline. Baseline or EVF supplement responses indicated how many health care providers the participant saw. For each provider, a baseline physician care supplement (or portion of the EVF supplement) was completed specifying the number of visits made. MDVIS is the (cont.)

VARIABLE MDVIS (cont.)

CONSTRUCTION (cont.)

sum of visits recorded on those supplements. If the number of providers indicated differed from the number of providers recorded, MDVIS was coded missing because of conflicting data.)

(From baseline questionnaire data and physician care supplement.)

IF DEI1877 = 2

AND (DEI1879= 2 OR DEI1879 = .)

AND DEI879 = 2

AND DEI2846= 2

AND DEI2847= 2

AND DEI2848= 2

AND DEI2849= 2

AND DEI2799= 0

THEN MDVIS = 0;

IF DEI1877 = 1

OR DEI1879= 1

OR DEI879 = 1

OR DEI2846= 1

OR DEI2847= 1

OR DEI2848= 1

OR DEI2849= 1

OR DEI2799> 0

THEN DO OVER SUPPLEMENTS;

MDVIS = SUM(MDVIS,DEI1886);

END;

(From EVF new person supplement data (for persons not present at baseline).)

IF (DEI1270 = 2 OR DEI1270 = .)

AND DEI1566 = 2

AND DEI1570 = 2

AND DEI1571 = 2

AND DEI1572 = 2

AND DEI1580 = 2

AND DEI1581 = 2

THEN MDVIS = 0;

(cont.)

VARIABLE MDVIS (cont.)
CONSTRUCTION (cont.)

```
IF DE11270 = 1
  OR DE11566 = 1
  OR DE11570 = 1
  OR DE11571 = 1
  OR DE11572 = 1
  OR DE11580 = 1
  OR DE11581 = 1
THEN MDVIS = SUM(DE11886,DE12027,DE12100,DE12105);
```

VARIABLE	MDEXP	FSD	INPUT VARIABLES
Site	HIE1	Variable	
Dayton	15/43, 25, 36	DE1877	
Seattle	63, 125		
Massachusetts	92, 93, 181		
South Carolina	147, 148, 192		

- Missing or conflicting data
• Dollar amount

MDEXP indicates the participant's medical expenses in the past year, excluding those for hospitalizations.

MDEXP	NUMBER OF OBSERVATIONS
	NUMBER OF MISSING
MEAN	84.57
MEDIAN	39.00
MINIMUM VALUE	0.00
MAXIMUM VALUE	9999.00
STANDARD DEVIATION	231.43
COEFFICIENT OF VARIATION	273.66
SKEWNESS	24.03
KURTOSIS	886.46

VARIABLE MDEXP (cont.)
INPUT VARIABLES (cont.)

DEI 879

(Dayton) Are there any (other) doctors or clinics you go to regularly, such as eye doctors, (women's doctors, children's doctors) and so forth? (Massachusetts and South Carolina) Have you been treated or examined by any (other) clinic or doctor since (DATE OF INTERVIEW) a year ago, that is, an eye doctor, dermatologist, psychiatrist, surgeon, (obstetrician), (gynecologist), (pediatrician), or any other kind of doctor?

1. Yes
2. No

DEI 1270

(Massachusetts and South Carolina) In the last 12 months, that is, since (DATE OF INTERVIEW) a year ago, have you been treated or examined by (this doctor) this clinic/any of these doctors or clinics?

1. Yes
2. No

DEI 1410

(Seattle) In the last 12 months--since (MONTH), 1974--how many times all together did you see a doctor about your own health? This should not include visits while you was a patient in a hospital.

(Seattle) What was the total cost of (that visit/ those visits), including costs paid by insurance, or some other source?
(cont.)

VARIABLE MDEXP (cont.)
INPUT VARIABLES (cont.)

- DEI 1454 (Dayton). In addition to what you've told me about, during the past 12 months did (you/anyone in the family) do any of these things: a. Have a general medical or physical examination?
0. No
2. Yes, doctor already recorded
3. Yes, doctor is new name, add supplement to (Dayton). In addition to what you've told me about, during the past 12 months did (you/anyone in the family) do any of these things: b. See a doctor in a hospital emergency room or outpatient clinic?
0. No
2. Yes, doctor already recorded
3. Yes, doctor is new name, add supplement to (Dayton). In addition to what you've told me about, during the past 12 months did you do any of these things:
- DEI 1455 c. Go to any specialist such as a chiropractor?
d. Go to any places like those on this card? (HAND CARD 9.) READ LIST: public health center, family planning clinic, mental health clinic, TB chest x-ray unit, or student health center?
- DEI 1456 e. Been treated or examined by any other doctor, clinic, or health facility?
- DEI 1457 (cont.)

VARIABLE MDEXP (cont.)
INPUT VARIABLES (cont.)

DO NOT INCLUDE DENTISTS.

0. No
2. Yes, doctor already recorded

3. Yes, doctor is new name, add supplement
DEI1566 (Massachusetts and South Carolina) Have you been treated or examined by any (other) clinic or doctor since (DATE OF INTERVIEW) a year ago, that is, an eye doctor, dermatologist, psychiatrist, surgeon, (obstetrician), (gynecologist), (pediatrician), or any other kind of doctor?
1. Yes
2. No

DEI1570 (Massachusetts and South Carolina) Since (DATE OF INTERVIEW) a year ago, have you had a general medical or physical examination?
1. Yes
2. No

DEI1571 (Massachusetts and South Carolina) What about hospital emergency rooms or hospital outpatient clinics? Were you treated or examined in an emergency room or outpatient clinic since (DATE OF INTERVIEW) a year ago?
1. Yes
2. No

DEI1572 (Massachusetts and South Carolina) Please look at this card and tell me if you have been treated or examined by any of (cont.)

VARIABLE MDEXP (cont.)
INPUT VARIABLES (cont.)

these kinds of health specialists since (DATE OF INTERVIEW) a year ago, that is, persons such as chiropractors, Christian Science practitioners, chiropodists, clinical psychologists, or any other health care practitioner--not including dentists.

1. Yes

2. No
DEI 1580 (Massachusetts and South Carolina) Have you gone to any place like those on this card since (DATE OF INTERVIEW) a year ago, that is, a public health center, a family planning clinic, mental health center, TB chest x-ray unit, or student health center?

1. Yes

2. No
DEI 1581 (Massachusetts and South Carolina) Have you been treated or examined by any (other) doctor, clinic, or other health facility since (DATE OF INTERVIEW) a year ago?
1. Yes

2. No
DEI 1879 (Dayton) Have you been treated or examined by (PROVIDER) in the last twelve months?
(Massachusetts and South Carolina) Have you been treated or examined by (this doctor/this clinic/any of these doctors or clinics) in (cont.)

VARIABLE MDEXP (cont.)
INPUT VARIABLES (cont.)

the last 12 months---that is, since (DATE OF INTERVIEW) of last year?

1. Yes

2. No
DEI 1888 (Dayton) What was the total cost of those visits, including costs covered by insurance?

(Massachusetts and South Carolina) What was the total cost of those visits, including costs paid by insurance, or some other source?

(Dayton) Did you have any charges for lab tests or x-rays as a result of those visits not included in what you have already told me about?

1. Yes

2. No

(Dayton) What was the total cost of those tests or x-rays, including anything paid by insurance?

(Dayton) Were there any other charges resulting from those visits not included in what you have already told me about, such as eyeglasses, crutches, etc.?

1. Yes

2. No

(Dayton) What was the total cost of those extra things, including costs covered by insurance?

(Massachusetts and South Carolina) What was the total cost of those visits, including costs paid by insurance or some other source. (provider #2) (cont.)

VARIABLE MDEXP (cont.)
INPUT VARIABLES (cont.)

- DEI2101 (Massachusetts and South Carolina) What was the total cost of those visits, including costs paid by insurance or some other source. (provider #3)
- DEI2106 (Massachusetts and South Carolina) What was the total cost of those visits, including costs paid by insurance or some other source. (provider #4)
- DEI2799 (Massachusetts and South Carolina) Number of provider supplements.
- DEI2846 (Massachusetts and South Carolina) What about hospital emergency rooms and hospital outpatient clinics? Were you treated or examined in an emergency room or outpatient clinic since (DATE OF INTERVIEW) a year ago?
1. Yes
 2. No
- DEI2847 (Massachusetts and South Carolina) Please look at this card and tell me if you have been treated or examined by any of these kinds of health specialists since (DATE OF INTERVIEW) a year ago, that is, persons such as chiropractors, Christian Science practitioners, chiropodists, clinical psychologists, or any other health care practitioner--not including dentists.
1. Yes
 2. No

(cont.)

VAR|ABLE MDEXP (cont.)
INPUT VARIABLES (cont.)

- DE12848 (Massachusetts and South Carolina) Have you gone to any places like those on this card since (DATE OF INTERVIEW) a year ago, that is, a public health center, family planning clinic, mental health clinic, TB chest x-ray unit, or student health center?
1. Yes
2. No
- DE12849 (Massachusetts and South Carolina) Have you been treated or examined by any (other) doctor, clinic, or other health facility since (DATE OF INTERVIEW) a year ago?
1. Yes
2. No

CONSTRUCTION

(Dayton)

(For persons present at baseline, MDEXP is constructed by summing the expenses incurred by the participant. Responses to the baseline questionnaire indicated whether the participant had medical expenses, and from which health care providers. For each provider, a baseline physician care supplement was completed specifying the expenses. MDEXP is the sum of the expenses recorded on those supplements. If the number of supplements indicated differed from the number of supplements found, MDEXP was coded missing because of conflicting data.)

(From baseline questionnaire data and physician care supplement.)

IF DE1877 = 2 AND DE1878 = 0;
THEN MDEXP = 0;

(cont..)

VARIABLE MDEXP (cont.)
CONSTRUCTION (cont.)

```
IF DEI1877 = 1 OR DEI1878 > 0 OR DEI1879 = 1
  OR DEI1454 = 2
  OR DEI1454 = 3
  OR DEI1455 = 2
  OR DEI1455 = 3
  OR DEI1456 = 2
  OR DEI1456 = 3
  OR DEI1457 = 2
  OR DEI1457 = 3
  OR DEI1458 = 2
  OR DEI1458 = 3
THEN DO OVER SUPPLEMENTS;
  IF DEI1879 = 2
    THEN DEI1888 = 0;
  IF DEI1894 \= 1
    THEN DEI1895 = 0;
  IF DEI1897 \= 1
    THEN DEI1898 = 0;
  MDEXP = SUM(MDEXP,DEI1888,DEI1895,DEI1898);
END;
```

(From EVF new person supplement data (all such cases are newborns).)

```
MDEXP = 0;
```

(Seattle)

(From baseline or EVF new person supplement data.)

```
IF DEI1410 > 0 THEN MDEXP = DEI1415;
IF DEI1410 = 0 THEN MDEXP = 0;
```

(Massachusetts and South Carolina)

(MDEXP is constructed by summing the expenses incurred by the participant, using baseline data or EVF new person supplement data for persons not present at baseline. Baseline or EVF supplement responses indicated whether the participant had medical expenses, and from which health care providers. For each provider, a baseline physician care supplement (or (cont.)

VARIABLE MDEXP (cont.)
CONSTRUCTION (cont.)

portion of the EVF supplement) was completed specifying the expenses. MDEXP is the sum of the expenses recorded on the supplements. If the number of providers indicated differed from the number of providers recorded, MDEXP was coded missing because of conflicting data.)

(From baseline questionnaire data and physician care supplement.)

```
IF DEI1877 = 2  
    AND (DEI1879= 2 OR DEI1879 = .)
```

```
    AND DEI1879 = 2  
    AND DEI2846 = 2  
    AND DEI2847 = 2  
    AND DEI2848 = 2  
    AND DEI2849 = 2  
    AND DEI2799 = 0  
    THEN MDEXP = 0;
```

```
IF DEI1877 = 1  
    OR DEI1879 = 1  
    OR DEI1879 = 1  
    OR DEI2846 = 1  
    OR DEI2847 = 1  
    OR DEI2848 = 1  
    OR DEI2849 = 1  
    OR DEI2799 > 0  
    THEN DO OVER SUPPLEMENTS;
```

```
MDEXP = SUM(MDEXP,DEI1888);
```

```
END;
```

(From EVF new person supplement for persons not present at baseline.)

```
IF (DEI1270 = 2 OR DEI1270 = .)  
    AND DEI1566 = 2  
    AND DEI1570 = 2  
    AND DEI1571 = 2  
    AND DEI1572 = 2  
    AND DEI1580 = 2  
    AND DEI1581 = 2  
    THEN MDEXP = 0;
```

(cont.)

```
VARIABLE MDEXP (cont.)  
CONSTRUCTION (cont.)  
IF DE11270 = 1  
    OR DE11566 = 1  
    OR DE11570 = 1  
    OR DE11571 = 1  
    OR DE11572 = 1  
    OR DE11580 = 1  
    OR DE11581 = 1  
THEN MDEXP = SUM(MDEXP,DE11888,DE12028,DE12101,DE12106);
```

INTRODUCTION TO DENTAL VARIABLES

CLASS 1: DDSUUAL AND DDSIND

The nine variables pertaining to participants' dental care and expenses are complex. This introduction is intended to clarify them by highlighting their similarities and differences. Several sources were used in deriving the dental data: (1) the baseline questionnaire and its dental supplements, (2) the EVF new person supplement, and (3) other derived variables in this file. Recall that supplements were completed to provide further detail for topics addressed in the main instrument. For example, if a participant reported a visit to the dentist in the baseline questionnaire, the baseline dental supplement was completed to elaborate on the providers and the services they rendered. If a participant had multiple providers and services, multiple supplements were completed. In the construction of each variable, the number of supplements to be completed (as reported in the baseline questionnaire) was compared with the number of supplements actually completed. If there was a discrepancy, the variable value was coded "missing" for the participant.

Data sources with HIEI numbers are identified in the variable descriptions, and the HIEI numbers are defined in Appendix C. Specific data items within those sources are defined by DEI number or variable name in the list of input variables at the end of this introduction.

The dental variables divide into three classes based on common data sources and similarity of construction. Each class is described below. The order of variables by class, which points up construction similarities of particular interest to programmers, differs somewhat from the order of the variable descriptions, which is for analytic convenience.

These straightforward variables identify the participant's regular dentist (DDSUUAL) and indicate whether the participant had multiple regular dentists (DDSIND) at baseline. If multiple dentists are cited, the first mentioned is assigned for the DDSUUAL value. Both variables are constructed by checking all baseline dental supplements completed for the participant. There are no site differences in the method of construction except that Dayton data were unavailable for DDSUUAL.

CLASS 2: HAVEDDS1-HAVEDDS3

These three variables indicate whether the participant visited a dentist for routine services (HAVEDDS1), for defined "special" services (HAVEDDS2), or for orthodontia (HAVEDDS3) during the previous year.

For persons present at baseline, each variable is constructed by first checking the responses to four "trigger" questions in the baseline instrument about whether the participant had dental visits or services (DEI1482 - DEI1485). Unless all four questions were answered "No," the participant's baseline dental supplements were then checked to see if the relevant services were provided.

For persons not present at baseline, these variables are constructed similarly, using the EVF new person supplement, which contained both trigger questions and details about relevant services. The exception is Dayton, which had two EVF new person supplements--a basic form containing the trigger questions and a dental supplement detailing the services. Through an administrative error, however, the new person dental supplement data were never processed. Therefore, all Dayton participants who did not answer No to the four trigger questions have values of "missing" for these variables.

CLASS 3: DDSVSP, DDSVIS, DDSEXP, DDSORTV

Three of these variables count the number of visits by the participant for special dental services (DDSVSP), for routine and special services (DDSVIS), and for orthodontia (DDSORTV). The fourth variable totals the participant's expenses for routine and special dental services (DDSEXP). The four variables are constructed similarly for Dayton participants and for nonDayton participants.

For Dayton participants present at baseline, the construction method resembles that for the class 2 variables, starting with responses to the baseline trigger questions. Unless the participant answered No to all four questions, the number of relevant visits or amount of expenses was counted from the baseline dental supplements. For Dayton participants not present at baseline, class 3 variables have the same construction flaw as the class 2 variables.

For nonDayton participants present at baseline, class 3 variables are constructed by first checking the relevant class 2 variable(s) to determine whether the participant had any visits for special services, routine and special services, or orthodontia. If they did, the number of relevant visits or amount of expenses was counted using the baseline dental supplements. For those not present at baseline, the method was identical except that the visits and expenses were counted from the EVF new person supplement rather than the baseline dental supplements.

INPUT VARIABLES

DE11178 (Seattle) During the last 12 months--that is, since (DATE OF INTERVIEW) a year ago--have you been treated or examined by any dentist? That would include periodontists, orthodontists, oral surgeons, and so on.

1. Yes
2. No

- DE11179 (Seattle) During the past 12 months--since (DATE OF INTERVIEW) a year ago--how many times did you visit a dentist for orthodontia treatment?
- DE11482 Is there a particular dentist or dental clinic you usually go to when you need dental care?
1. Yes
 2. No
- DE11483 Were you treated or examined by any (other) dentist during the last twelve months? For example, orthodontists, periodontists, oral surgeons, and so forth?
1. Yes
 2. No
- DE11484 WERE (SOME/NO) DENTISTS NAMED IN PREVIOUS QUESTION? CIRCLE ONE:
1. Some dentist(s) named
 2. No dentist(s) named
- DE11485 (Dayton) Did you see a dentist for any of the following reasons during the last twelve months? (HAND CARD 10 AND READ LIST): fillings, inlay work, bridgework or replacement of teeth, gum treatments, cleaning, or any other. (NonDayton) During the last 12 months, did you see a dentist for any reason--such as fillings, bridgework, gum treatments, pulling or replacing teeth, cleaning, check-up, or anything else?
1. Yes
 2. No
- DE11730 (Massachusetts and South Carolina) What is the name of that dentist or dental clinic? (MAXIMUM: 4)
- DE12011 (Massachusetts and South Carolina) In the last 12 months, that is, since (DATE OF INTERVIEW) a year ago, have you been treated or examined by (this dentist/this clinic/any of these dentists or clinics)?
1. Yes
 2. No
- DE12012 (Massachusetts and South Carolina) Since (DATE OF INTERVIEW) a year ago, were you treated or examined by any (other) dentist? That would include periodontists, orthodontists, oral surgeons, and so on.
1. Yes
 2. No

- DEI12038 (NonDayton) What was the total cost of (that visit/those visits)--including costs covered by insurance or paid by some other source? (SPECIAL SERVICES)
- DEI12039 (NonDayton) Besides (that/those) (NUMBER OF VISITS IN DEI12085) visit(s), how many other visits did you make to (PROVIDER)?
- DEI12042 (NonDayton) What was the total cost of (that visit/those visits)--including costs covered by insurance or paid by some other source? (ROUTINE SERVICES)
- DEI12043 (NonDayton) Since a year ago, did you receive any:
1. SERVICES IN BOTH A-D AND E-L
 2. SERVICES IN A-D
 3. SERVICES IN E-L (Seattle only)
 4. NO SERVICES
- A. CHECK-UP OR EXAM
- B. TEETH CLEANED
 - C. X-RAYS
 - D. FLUORIDE TREATMENT
 - E. TOOTH OR TEETH FILLED
 - F. CROWNS, CAPPING OR INLAYS
 - G. DENTURES, PLATES, OR BRIDGWORK--MADE, REPAIRED, REPLACED, OR ADJUSTED
 - H. GUM TREATMENT
 - I. TOOTH OR TEETH PULLED
 - J. ROOT CANAL
 - K. ORAL SURGERY
 - L. OTHER
- DEI12056 (NonDayton) Did (PROVIDER) give you any other kind of dental care, for which (PROVIDER) charged in addition to the charges for orthodontia?
1. Yes
 2. No
- DEI12080 IS THIS DENTIST YOUR USUAL PROVIDER OF DENTAL CARE? CIRCLE ONE:
1. Usual provider
2. Other provider
- DEI12081 (Dayton) Have you been treated or examined by (USUAL DENTIST) in the last twelve months? (NonDayton) Since (DATE OF INTERVIEW) a year ago have you been treated or examined by (PROVIDER)?
1. Yes
2. No
- DEI12083 Were any of the visits you made to any dentists for orthodontia--teeth straightening?
1. Yes
2. No
- DEI12084 (Dayton) How many times did you go to (DENTIST) in the past 12 months? Please include visits for any reason, including (HAND CARD 9 AND READ LIST)
fillings, inlay work, bridgework or replacement of teeth, gum treatment, cleaning, or any other.
(Dayton) How many of those visits to (DENTIST) were to have your teeth cleaned, x-rayed, or checked only (i.e., no fillings were done)?
(Dayton) What was the cost of those visits during the last twelve months including costs covered by insurance?
Since (DATE OF INTERVIEW) a year ago--how many times did you visit (PROVIDER) for orthodontia treatment?
- DEI12085 (NonDayton) DENTAL PROVIDER IDENTIFIER
DEI13653 (NonDayton) How many of those visits to (DENTIST) were to have your teeth cleaned, x-rayed, or checked only (i.e., no fillings were done)? (REPEAT ROUTINE SERVICES)
- DEI12087 (NonDayton) What was the total cost of (that visit/those visits)--including costs covered by insurance or paid by some other source? (ROUTINE VISITS--REPEAT SERVICES)
- DEI14055 (NonDayton) Altogether, how many times did you visit (PROVIDER) since (DATE OF INTERVIEW) a year ago for those services?
DEI14072 (NonDayton) What was the total cost of (that visit/those visits)--including costs covered by insurance or paid by some other source? (SPECIAL SERVICES)
- DENTCNT (Massachusetts and South Carolina) Temporary variable--number of dental providers listed on EVF new person supplement
HAVEDDS1 Any visit for routine dental services
HAVEDDS2 Any visit for special dental services
HAVEDDS3 Any visit for orthodontia

VARIABLE FSD
Usual dentist at baseline

DDSUUSUAL is an 8-character alphanumeric code that uniquely identifies the participant's usual dentist. All such provider codes are defined in an HIE data file (see Appendix B, item RF2).

INPUT VARIABLES
Site HIEI Variables
Seattle 65 See "Introduction to
Massachusetts 94 Dental Variables" above.
South Carolina 149

CONSTRUCTION

(Seattle, Massachusetts, and South Carolina)

```
DO OVER DENTAL SUPPLEMENTS;  
  IF DE12080 = 1 AND DDSUUSUAL = 1  
    THEN DDSUUSUAL = DE13411;  
END;
```

VARIABLE	DDSIND	FSD	CUM FREQ	CUM %
Multiple dentists at baseline				
CODES	VALUE	15501	10273	96.49
0 - Missing or no usual dentist	0	10273	10273	96.49
0 - Only one usual dentist	1	374	10647	3.51
1 - More than one usual dentist				
DDSIND indicates whether participant had more than one usual dentist.				
<hr/>				
INPUT VARIABLES				
Site	HIEI	Variables		
Dayton	27	See "Introduction to Dental Variables" above.		
Seattle	65			
Massachusetts	94			
South Carolina	149			
<hr/>				
CONSTRUCTION				
(All sites)				
DO OVER DENTAL SUPPLEMENTS;				
IF DE12080 = 1				
THEN DDSIND = 1				
THEN DDSIND = 0;				
ELSE DDSIND = 1;				
END;				

VARIABLE	HAVEDDS1	FSD	VALUE	FREQ	CUM FREQ	%	CUM %
Any visit for routine dental services							
CODES							
0 - Missing 0 - No visit for routine services 1 - One or more visits for routine services							
HAVEDDS1			0	11371	4449	30.11	30.11
			1	10328	14777	69.89	100.00

Site	HIEI	Variables
Dayton	15/43,27,36	See "Introduction to
Seattle	63,65,125	Dental Variables" above.
Massachusetts	92,94,181	
South Carolina	147,149,192	

INPUT VARIABLES

Site HIEI Variables

Dayton 15/43,27,36 See "Introduction to

Seattle 63,65,125 Dental Variables" above.

Massachusetts 92,94,181

South Carolina 147,149,192

CONSTRUCTION

(Dayton)

(From baseline data.)

```

IF DE11482 = 2 & DE11483 = 2 & DE11484 = 2 & DE11485 = 2
THEN HAVEDDS1 = 0;

ELSE DO OVER DENTAL SUPPLEMENTS;
  IF DE12085 > 0 ON ANY DENTAL SUPPLEMENT
  THEN HAVEDDS1 = 1;
  IF DE12085 = 0 ON ALL DENTAL SUPPLEMENTS
  THEN HAVEDDS1 = 0;
  IF DE12083 = 1 AND HAVEDDS1 \= 1
  THEN HAVEDDS1 = 0;

END;

```

(cont.)

```
VARIABLE HAVEDDS1 (cont.)  
CONSTRUCTION (cont.)  
(From EVF new person supplement data.)  
IF DEI1482 = 2 & DEI1483 = 2 & DEI1484 = 2 & DEI1485 = 2  
THEN HAVEDDS1 = 0;  
  
(Seattle)  
(From baseline data.)  
IF DEI1482 = 2 & DEI1483 = 2 & DEI1484 = 2 & DEI1485 = 2  
THEN HAVEDDS1 = 0;  
ELSE DO OVER DENTAL SUPPLEMENTS;  
    IF DEI2081 = 1 OR DEI2083 = 1 OR DEI2043 > 0  
        THEN DO;  
            IF (DEI2043 = 1 OR DEI2043 = 2)  
                THEN HAVEDDS1 = 1;  
            ELSE IF DEI2043 = 3 AND HAVEDDS1 \= 1  
                THEN HAVEDDS1 = 0;  
            IF DEI2083 = 1 AND DEI2056 = 2 AND HAVEDDS1 \= 1  
                THEN HAVEDDS1 = 0;  
        END;  
  
(From EVF new person supplement data.)  
IF DEI1178 = 2  
THEN HAVEDDS1 = 0;  
ELSE DO;  
    IF DEI2043 = 1 OR DEI2043 = 2  
        THEN HAVEDDS1 = 1;  
    ELSE IF DEI2043 = 3 OR DEI2043 = 4  
        THEN HAVEDDS1 = 0;  
    IF DEI2083 = 1 AND HAVEDDS1 \= 1  
        THEN HAVEDDS1 = 0;  
END;  
(cont.)
```

```
 VARIABLE HAVEDDS1 (cont.)  
CONSTRUCTION (cont.)  
(Massachusetts, South Carolina)  
(From baseline data.)  
  
IF DE11482 = 2 & DE11483 = 2 & DE11484 = 2 & DE11485 = 2  
THEN HAVEDDS1 = 0;  
  
ELSE DO OVER DENTAL SUPPLEMENTS;  
  
  IF DE12081 = 1 OR DE12083 = 1 OR DE12043 > 0  
  THEN DO;  
  
    IF (DE12043 = 1 OR DE12043 = 2)  
    THEN HAVEDDS1 = 1;  
    ELSE IF DE12043 = 3 AND HAVEDDS1 \= 1  
    THEN HAVEDDS1 = 0;  
    IF DE12083 = 1 AND DE12056 = 2 AND HAVEDDS1 \= 1  
    THEN HAVEDDS1 = 0;  
  
  END;  
  
  END;  
  
(From EVF new person supplement data.)  
IF (DE12011 = 2 OR DE12011 = :) AND  
(DE12012 = 2 OR DE12012 = :) AND  
DENTCNT = 0  
THEN HAVEDDS1 = 0;  
  
ELSE DO OVER DENTCNT;  
  
  IF DE12043 = 1 OR DE12043 = 2  
  THEN HAVEDDS1 = 1;  
  ELSE IF DE12043 = 3 AND HAVEDDS1 \= 1;  
  THEN HAVEDDS1 = 0;  
  IF DE12083 = 1 AND DE12056 = 2 AND HAVEDDS1 \= 1  
  THEN HAVEDDS1 = 0;  
  
END;
```

VARIABLE	HAVEDDS2	FSD	VALUE	FREQ	CUM FREQ	%	CUM %
Any visit for special dental services CODES			0	11371	6835	46.25	46.25
1			1	7942	14777	53.75	100.00

- Missing

0 = No visit for special services

1 = One or more visits for special services

HAVEDDS2 indicates whether participant went to the dentist during the previous year for special services, including filling, crown, capping, or inlay; denture, plate, or bridgework; gum treatment; extraction, root canal, or oral surgery.

INPUT VARIABLES

Site

HIEI

Variables
Dayton 15/43, 27, 36
Seattle 63, 65, 125,
Massachusetts 92, 94, 181,
South Carolina 147, 149, 192

See "Introduction to Dental Variables" above.

CONSTRUCTION

(Dayton)

(From baseline data.)

```
IF DEI1482 = 2 & DEI1483 = 2 & DEI1484 = 2 & DEI1485 = 2  
THEN HAVEDDS2 = 0;
```

ELSE DO OVER DENTAL SUPPLEMENTS;

```
IF (DEI2084 - DEI2085) > 0 ON ANY DENTAL SUPPLEMENT  
THEN HAVEDDS2 = 1;  
IF (DEI2084 - DEI2085) = 0 ON ALL DENTAL SUPPLEMENT  
THEN HAVEDDS2 = 0;  
IF DEI2083 = 1 AND HAVEDDS2 \= 1  
THEN HAVEDDS2 = 0;  
END;
```

(cont.)

VARIABLE HAVEDDS2 (cont.)
CONSTRUCTION (cont.)
(From EVF new person supplement data.)
IF DEI1482 = 2 & DEI1483 = 2 & DEI1484 = 2 & DEI1485 = 2
THEN HAVEDDS2 = 0;

(Seattle)
(From baseline data.)
IF DEI1482 = 2 & DEI1483 = 2 & DEI1484 = 2 & DEI1485 = 2
THEN HAVEDDS2 = 0;
ELSE DO OVER DENTAL SUPPLEMENTS;
IF DEI2081 = 1 OR DEI2083 = 1 OR DEI2043 > 0
THEN DO;
IF DEI2043 = 1
THEN HAVEDDS2 = 1;
ELSE IF DEI2043 = 2 AND HAVEDDS2 \=1
THEN HAVEDDS2 = 0;
ELSE IF DEI2043 = 3
THEN HAVEDDS2 = 1;
IF DEI2083 = 1 AND DEI2056 = 2 AND HAVEDDS2 \= 1
THEN HAVEDDS2 = 0;
END;
END;

(From EVF new person supplement data.)
IF DEI1178 = 2 THEN HAVEDDS2 = 0;
ELSE DO;
IF DEI2043 = 1
THEN HAVEDDS2 = 1;
ELSE IF DEI2043 = 2
THEN HAVEDDS2 = 0;
ELSE IF DEI2043 = 3
THEN HAVEDDS2 = 1;
ELSE IF DEI2043 = 4
THEN HAVEDDS2 = 0;

(cont.)

```
VARIABLE HAVEDDS2 (cont.)  
CONSTRUCTION (cont.)  
  IF DE12083 = 1 AND DE12056 = 2 AND HAVEDDS2 \= 1  
    THEN HAVEDDS2 = 0;  
  END;  
  
(Massachusetts, South Carolina)  
(From baseline data.)  
  IF DE11482 = 2 & DE11483 = 2 & DE11484 = 2 & DE11485 = 2  
    THEN HAVEDDS2 = 0;  
  ELSE DO OVER DENTAL SUPPLEMENTS;  
    IF DE12081 = 1 OR DE12083 = 1 OR DE12043 > 0  
      THEN DO;  
        IF DE12043 = 1  
          THEN HAVEDDS2 = 1;  
        ELSE IF DE12043 = 2 AND HAVEDDS2 \= 1  
          THEN HAVEDDS2 = 0;  
        ELSE IF DE12043 = 3  
          THEN HAVEDDS2 = 1;  
        IF DE12083 = 1 AND DE12056 \= 2 AND HAVEDDS2 \= 1  
          THEN HAVEDDS2 = 0;  
      END;  
    END;
```

(From EVF new person supplement data.)
 IF (DE12011 = 2 OR DE12011 = :) AND
 (DE12012 = 2 OR DE12012 = :) AND
 DENTCNT = 0
 THEN HAVEDDS2 = 0;

(cont.)

VARIABLE HAVEDDS2 (cont.)

CONSTRUCTION (cont.)

```

ELSE DO OVER DENTCNT;
  IF DE12043 = 1
    THEN HAVEDDS2 = 1;
  ELSE IF DE12043 = 2 AND HAVEDDS2 \= 1
    THEN HAVEDDS2 = 0;
  ELSE IF DE12043 = 3
    THEN HAVEDDS2 = 1;
  IF DE12083 = 1 AND DE12056 = 2 AND HAVEDDS2 \= 1
    THEN HAVEDDS2 = 0;
END;
```

	DDSVSP	VALUE	FREQ	CUM FREQ	%	CUM %
	0	11460	1	11460	.91	58.91
CODES	1	8653	2610	8653	76.68	76.68
	2	1350	11263	11263	9.19	85.87
	3	750	13363	13363	5.11	90.98
	4	446	13809	13809	3.04	94.02
	5	313	14122	14122	2.13	96.15
	6	201	14323	14323	1.37	97.52
	7	79	14402	14402	0.54	98.05
	8	73	14475	14475	0.50	98.55
	9	33	14508	14508	0.23	98.78
	10	62	14570	14570	0.42	99.20
	11	17	14587	14587	0.12	99.31
	12	40	14627	14627	0.27	99.59
	13	5	14632	14632	0.03	99.62
	14	9	14641	14641	0.06	99.68
	15	10	14651	14651	0.07	99.75
	16	6	14657	14657	0.04	99.79
	17	2	14659	14659	0.01	99.80
	18	4	14663	14663	0.03	99.83
	19	3	14666	14666	0.02	99.85
	20	10	14676	14676	0.07	99.92
	22	1	14677	14677	0.01	99.93

(cont.)

VARIABLE	DDSVSP	FSD	CODES	Number of visits for special dental services	DDSVSP	Variables
						- Missing
						DDSVSP identifies the number of times the participant saw dentist during the previous year for special services, including filling, crown, capping, or inlay; denture, plate, or bridgework; gum treatment; extraction, root canal, or oral surgery.

INPUT VARIABLES

Site	HIEI	Variables
Dayton	15/43, 27, 36	See "Introduction to Dental Variables" above.
Seattle	63, 65, 125	
Massachusetts	92, 94, 181	
South Carolina	147, 149, 192	

(cont.)

	VALUE	FREQ	%	CUM	FREQ	%	CUM
CONSTRUCTION	23	1	14678	0.01	99.93		
{ Dayton	24	2	14680	0.01	99.95		
{ From baseline data.)	25	2	14682	0.01	99.96		
IF DE11482 = 2 & DE11483 = 2 & DE11484 = 2 & DE11485 = 2 THEN DDSVSP = 0;	30	1	14683	0.01	99.97		
ELSE DO OVER DENTAL SUPPLEMENTS;	34	1	14684	0.01	99.97		
IF ((DE12080 = 2 OR DE12080 = .) OR (DE12081 = 1 OR DE12081 = .)) AND DE12083 = 2 THEN DDSVSP = SUM(DDSVSP, (DE12084 - DE12085));	36	1	14685	0.01	99.98		
END;	40	1	14686	0.01	99.99		
(From EVF new person supplement data.)	55	1	14687	0.01	99.99		
IF DE11482 = 2 & DE11483 = 2 & DE11484 = 2 & DE11485 = 2 THEN DDSVSP = 0;	72	1	14688	0.01	100.00		

```

VARIABLE DDSVSP (cont.)

CONSTRUCTION
{ Dayton
{ From baseline data.)
IF DE11482 = 2 & DE11483 = 2 & DE11484 = 2 & DE11485 = 2
THEN DDSVSP = 0;

ELSE DO OVER DENTAL SUPPLEMENTS;

IF ((DE12080 = 2 OR DE12080 = .) OR
(DE12081 = 1 OR DE12081 = .)) AND
DE12083 = 2
THEN DDSVSP = SUM(DDSVSP, (DE12084 - DE12085));

END;

{From EVF new person supplement data.)

IF DE11482 = 2 & DE11483 = 2 & DE11484 = 2 & DE11485 = 2
THEN DDSVSP = 0;

ELSE DO OVER DENTAL SUPPLEMENTS;

IF DE12081 = 1 OR DE12043 > 0
THEN DO;
IF DE12043 = 1 OR DE12043 = 3
THEN DDSVSP = SUM(DDSVSP, DE12039);

END;

{Seattle
{ From baseline data.)
IF HAVEDDS2 = 0
THEN DDSVSP = 0;
ELSE DO OVER DENTAL SUPPLEMENTS;

IF DE12081 = 1 OR DE12043 > 0
THEN DO;
IF DE12043 = 1 OR DE12043 = 3
THEN DDSVSP = SUM(DDSVSP, DE12039);

END;

```

(cont.)

```
VARIABLE DDSVSP (cont.)  
CONSTRUCTION (cont.)  
(From EVF new person supplement data.)  
IF HAVEDDS2 = 0;  
  THEN DDSVSP = 0;  
ELSE DO;  
  IF DE12039 = 1 THEN DE12039 = DE14055;  
  IF DE12043 = 1 OR DE12043 = 3  
  THEN DDSVSP = SUM(DDSVSP,DE12039);  
END;  
  
(Massachusetts, South Carolina)  
(From baseline data.)  
IF HAVEDDS2 = 0;  
  THEN DDSVSP = 0;  
ELSE DO OVER DENTAL SUPPLEMENTS;  
  IF DE12081 = 1 OR DE12043 > 0  
  THEN DO;  
    IF DE12039 =  
      IF DE12039 = DE14055;  
      IF DE12043 = 1 OR DE12043 = 3  
      THEN DDSVSP = SUM(DDSVSP,DE12039);  
    END;  
  END;
```

(cont.)

```

VARIABLE DDSVSP (cont.)
CONSTRUCTION (cont.)
( From EVF new person supplement data. )
IF HAVEDDS2 = 0
  THEN DDSVSP = 0;
ELSE DO OVER DENTCNT;
  IF DE12039 = 1 THEN DE12039 = DE14055;
  IF DE12043 = 1 OR DE12043 = 3
    THEN DDSVSP = SUM(DDSVSP,DE12039);
END;

```

VARIABLE	DDSVIS	FSD	DDSVIS	VALUE	FREQ	CUM FREQ	CUM %
Number of dental visits for routine and special services							
CODES	0	11501		3438	3438	23.47	23.47
	1			3325	6763	22.70	46.17
	2			3169	9932	21.64	67.81
	3			1691	11623	11.55	79.35
	4			1039	12662	7.09	86.45
	5			657	13319	4.49	90.93
	6			437	13756	2.98	93.92
	7			233	13989	1.59	95.51
	8			174	14163	1.19	96.70
	9			103	14266	0.70	97.40
	10			102	14368	0.70	98.10
	11			50	14418	0.34	98.44
	12			61	14479	0.42	98.85
	13			27	14506	0.18	99.04
	14			30	14536	0.21	99.24
	15			25	14561	0.17	99.41
	16			18	14579	0.12	99.54
	17			15	14584	0.03	99.57
	18			12	14596	0.08	99.65
	19			7	14603	0.05	99.70
	20			10	14613	0.07	99.77
	21			5	14618	0.03	99.80
	22			5	14623	0.03	99.84
	23			1	14624	0.01	99.84
	24			3	14627	0.02	99.86
	25			2	14629	0.01	99.88
	26			1	14630	0.01	99.88
	27			3	14633	0.02	99.90
	28			3	14636	0.02	99.93
	30			2	14638	0.01	99.94

(cont.)

DDSVIS	VALUE	FREQ	CUM FREQ	CUM %
0	11501	11501	11501	11501
1	3438	3438	3438	3438
2	3325	6763	6763	6763
3	3169	9932	9932	9932
4	1691	11623	11623	11623
5	1039	12662	12662	12662
6	657	13319	13319	13319
7	437	13756	13756	13756
8	233	13989	13989	13989
9	174	14163	14163	14163
10	103	14266	14266	14266
11	50	14368	14368	14368
12	61	14418	14418	14418
13	27	14479	14479	14479
14	30	14506	14506	14506
15	25	14536	14536	14536
16	18	14561	14561	14561
17	15	14579	14579	14579
18	12	14584	14584	14584
19	7	14596	14596	14596
20	10	14603	14603	14603
21	5	14613	14613	14613
22	5	14618	14618	14618
23	1	14623	14623	14623
24	3	14624	14624	14624
25	2	14627	14627	14627
26	1	14629	14629	14629
27	3	14630	14630	14630
28	3	14633	14633	14633
30	2	14636	14636	14636

(cont.)

INPUT VARIABLES
Site HIEI Variables
Dayton 15/43,27,36 See "Introduction to
Seattle 63,65,Dental Variables" above.
Massachusetts 92,94,181
South Carolina 147,149,192
CONSTRUCTION
(Dayton)
(F from baseline data.)
IF DE11482 = 2 & DE11483 = 2 & DE11484 = 2 & DE11485 = 2
THEN DDSVIS = 0;

```

VARIABLE DDSVIS (cont.)
CONSTRUCTION (cont.)
    ELSE DO OVER DENTAL SUPPLEMENTS;
        IF (DE12080 = 2 OR DE12080 = .) OR
           (DE12081 = 1 OR DE12081 = .) AND DE12083 = 2
        THEN DDSVIS = SUM(DDSVIS,DE12084);
    END;

{ From EVF new person supplement data. }

IF DE11482 = 2 & DE11483 = 2 & DE11484 = 2 & DE11485 = 2
THEN DDSVIS = 0;

{Seattle}

{From baseline data.}

IF HAVEDDS1 = 0 & HAVEDDS2 = 0
THEN DDSVIS = 0;

ELSE DO OVER DENTAL SUPPLEMENTS;

    IF DE12081 = 1 OR DE12043 > 0
    THEN DO;
        IF DE12043 = 1
        THEN DDSVIS = SUM(DDSVIS,DE12039,DE12085);
        ELSE IF DE12043 = 2
        THEN DDSVIS = SUM(DDSVIS,DE12085);
        ELSE IF DE12043 = 3
        THEN DDSVIS = SUM(DDSVIS,DE12039);
    END;
END;

{ From EVF new person supplement data. }

IF HAVEDDS1 = 0 & HAVEDDS2 = 0
THEN DDSVIS = 0;

```

(cont.)

VALUE	FREQ	CUM FREQ	%	CUM %
31	2	14640	0.01	99.95
34	1	14641	0.01	99.96
35	1	14642	0.01	99.97
36	2	14644	0.01	99.98
40	1	14645	0.01	99.99
56	1	14646	0.01	99.99
76	1	14647	0.01	100.00

```
VARIABLE DDSVIS (cont.)  
CONSTRUCTION (cont.)  
ELSE DO;  
    IF DE12039 = . THEN DE12039 = DE14055;  
    IF DE12085 = . THEN DE12085 = DE13653;  
    IF DE12043 = 1  
        THEN DDSVIS = SUM(DDSVIS,DE12039,DE12085);  
    ELSE IF DE12043 = 2  
        THEN DDSVIS = SUM(DDSVIS,DE12085);  
    ELSE IF DE12043 = 3  
        THEN DDSVIS = SUM(DDSVIS,DE12039);  
END;  
  
(Massachusetts, South Carolina)  
(From baseline data.)  
IF HAVEDDS1 = 0 & HAVEDDS2 = 0  
THEN DDSVIS = 0;  
ELSE DO OVER DENTAL SUPPLEMENTS;  
    IF DE12081 = 1 OR DE12043 > 0  
    THEN DO;  
        IF DE12039 = . THEN DE12039 = DE14055;  
        IF DE12085 = . THEN DE12085 = DE13653;  
        IF DE12043 = 1  
            THEN DDSVIS = SUM(DDSVIS,DE12039,DE12085);  
        ELSE IF DE12043 = 2  
            THEN DDSVIS = SUM(DDSVIS,DE12085);  
        ELSE IF DE12043 = 3  
            THEN DDSVIS = SUM(DDSVIS,DE12039);  
    END;  
END;  
  
(From EVF new person supplement data.)  
IF HAVEDDS1 = 0 & HAVEDDS2 = 0  
THEN DDSVIS = 0;
```

(cont.)

VARIABLE DDSVIS (cont.)
CONSTRUCTION (cont.)

```

ELSE DO OVER DENTCNT;
  IF DE12039 = . THEN DE12039 = DE14055;
  IF DE12085 = 1 THEN DE12085 = DE13653;
  IF DE12043 = 1 THEN DDSVIS = SUM(DDSVIS,DE12039,DE12085);
  ELSE IF DE12043 = 2 THEN DDSVIS = SUM(DDSVIS,DE12085);
  ELSE IF DE12043 = 3 THEN DDSVIS = SUM(DDSVIS,DE12039);
END;

```

DDSEXP	
	NUMBER OF OBSERVATIONS NUMBER OF MISSING MEAN MEDIAN MINIMUM VALUE MAXIMUM VALUE STANDARD DEVIATION COEFFICIENT OF VARIATION SKENNESS KURTOSIS
	10572 15576 57.92 20.00 0.00 4130.00 153.83 265.60 9.94 161.83

VARIABLE DDSEXP
Dental expenses for routine and special services
CODES
- Missing
Dollar amount

DDSEXP reports the participant's total expenses during the previous year for routine and special dental services.

INPUT VARIABLES

Site	HIEI	Variables
Dayton	15/43,27,36	See "Introduction to
Seattle	63,65,125	Dental Variables" above.
Massachusetts	92,94,181	
South Carolina	147,149,192	

(cont.)

VARIABLE DDSEXP (cont.)

```
CONSTRUCTION
  (Dayton)
    (From baseline data.)
    IF DE11482 = 2 & DE11483 = 2 & DE11484 = 2 & DE11485 = 2
    THEN DDSEXP = 0;

    ELSE DO OVER DENTAL SUPPLEMENTS;
      IF (DE12080 = 2 OR DE12080 = .) OR
        (DE12081 = 1 OR DE12081 = .) AND DE12083 = 2
      THEN DDSEXP = SUM(DDSEXP, DE12087);

    END;

  (From EVF new person supplement data.)
  IF DE11482 = 2 & DE11483 = 2 & DE11484 = 2 & DE11485 = 2
  THEN DDSEXP = 0;

  (Seattle)
  (From baseline data.)
  IF HAVEDDS1 = 0 & HAVEDDS2 = 0
  THEN DDSEXP = 0;

  ELSE DO OVER DENTAL SUPPLEMENTS;
    IF DE12081 = 1 OR DE12043 > 0
    THEN DO;
      IF DE12043 = 1
      THEN DDSEXP = SUM(DDSEXP, DE12042, DE12038);
      ELSE IF DE12043 = 2
      THEN DDSEXP = SUM(DDSEXP, DE12042);
      ELSE IF DE12043 = 3
      THEN DDSEXP = SUM(DDSEXP, DE12038);

    END
  END;
```

(cont.)

VARIABLE DDSEXP (cont.)

CONSTRUCTION (cont.)

(From EVF new person supplement data.)

```
IF HAVEDDS1 = 0 & HAVEDDS2 = 0  
THEN DDSEXP = 0;
```

```
ELSE DO;
```

```
  IF DE12042 = . THEN DE12042 = DE13654;  
  IF DE12038 = : THEN DE12038 = DE14072;  
  IF DE12043 = 1  
    THEN DDSEXP = SUM(DDSEXP, DE12042, DE12038);  
  ELSE IF DE12043 = 2  
    THEN DDSEXP = SUM(DDSEXP, DE12042);  
  ELSE IF DE12043 = 3  
    THEN DDSEXP = SUM(DDSEXP, DE12038);
```

```
END;
```

(Massachusetts, South Carolina)

(From baseline data.)

```
IF HAVEDDS1 = 0 & HAVEDDS2 = 0  
THEN DDSEXP = 0;
```

```
ELSE DO OVER DENTAL SUPPLEMENTS;
```

```
  IF DE12081 = 1 OR DE12043 > 0  
    THEN DO;
```

```
    IF DE12042 = . THEN DE12042 = DE13654;  
    IF DE12038 = : THEN DE12038 = DE14072;  
    IF DE12043 = 1  
      THEN DDSEXP = SUM(DDSEXP, DE12042, DE12038);  
    ELSE IF DE12043 = 2  
      THEN DDSEXP = SUM(DDSEXP, DE12042);  
    ELSE IF DE12043 = 3  
      THEN DDSEXP = SUM(DDSEXP, DE12038);
```

```
  END;
```

```
END;
```

(cont.)

VARIABLE DDSEXP (cont.)

CONSTRUCTION (cont.)

(From EVF new person supplement data.)

```
IF HAVEDDS1 = 0 & HAVEDDS2 = 0  
THEN DDSEXP = 0;  
  
ELSE DO OVER DENTCNT;  
  
    IF DE12042 = 1 THEN DE12042 = DE13654;  
    IF DE12038 = 1 THEN DE12038 = DE14072;  
    IF DE12043 = 1 THEN DDSEXP = SUM(DDSEXP, DE12042, DE12038);  
    ELSE IF DE12043 = 2 THEN DDSEXP = SUM(DDSEXP, DE12042);  
    ELSE IF DE12043 = 3 THEN DDSEXP = SUM(DDSEXP, DE12038);  
  
END;
```

HAVEDDS3	VALUE	FREQ	CUM FREQ	%	CUM %
Any visit for orthodontia	0	11397	11397	95.60	95.60
CODES	1	649	14102	4.40	100.00
			14751		

- Missing
- 0 - No visit for orthodontia
- 1 - One or more visits for orthodontia

HAVEDDS3 indicates whether participant went to the dentist during the previous year for orthodontic work.

INPUT VARIABLES

Site	HIEI	Variables
Dayton	15/43, 27, 36	See "Introduction to Dental Variables" above.
Seattle	63, 65, 125	
Massachusetts	92, 94, 181	
South Carolina	147, 149, 192	(cont.)

VARIABLE HAVEDDS3 (cont.)

```
CONSTRUCTION  
(Dayton)  
(From baseline data.)  
IF DE11482 = 2 & DE11483 = 2 & DE11484 = 2 & DE11485 = 2  
THEN HAVEDDS3 = 0;  
ELSE DO OVER DENTAL SUPPLEMENTS;  
    IF DE12083 = 1 ON ANY DENTAL SUPPLEMENTS  
    THEN HAVEDDS3 = 1;  
    IF DE12083 = 2 ON ALL DENTAL SUPPLEMENTS  
    THEN HAVEDDS3 = 0;  
END;  
  
(From EVF new person supplement data.)  
IF DE11482 = 2 & DE11483 = 2 & DE11484 = 2 & DE11485 = 2  
THEN HAVEDDS3 = 0;  
  
(Seattle)  
(From baseline data.)  
IF DE11482 = 2 & DE11483 = 2 & DE11484 = 2 & DE11485 = 2  
THEN HAVEDDS3 = 0;  
ELSE DO OVER DENTAL SUPPLEMENTS;  
    IF DE12081 = 1  
    THEN IF DE12083 = 1  
        THEN HAVEDDS3 = 1;  
    ELSE IF DE12083 = 2 AND HAVEDDS3 \= 1  
        THEN HAVEDDS3 = 0;  
END;
```

{ cont. }

VARIABLE HAVEDDS3 (cont.)
CONSTRUCTION (cont.)

(From EVF new person supplement data.)

```
IF DEI1178 = 2  
  THEN HAVEDDS3 = 0;  
ELSE IF DEI2083 = 1  
  THEN HAVEDDS3 = 1;  
ELSE IF DEI2083 = 2 AND HAVEDDS3 \= 0;  
  THEN HAVEDDS3 = 0;
```

(Massachusetts, South Carolina)

(From baseline data.)

```
IF DEI1482 = 2 & DEI1483 = 2 & DEI1484 = 2 & DEI1485 = 2  
  THEN HAVEDDS3 = 0;  
ELSE DO OVER DENTAL SUPPLEMENTS;  
  IF DEI12081 = 1  
    THEN IF DEI12083 = 1  
      THEN HAVEDDS3 = 1;  
      ELSE IF DEI12083 = 2 AND HAVEDDS3 \= 1  
        THEN HAVEDDS3 = 1;  
    END;  
  END;  
  
( From EVF new person supplement data. )  
IF (DEI12011 = 2 OR DEI12011 = .) AND  
(DEI12012 = 2 OR DEI12012 = .) AND DENTCNT = 0  
  THEN HAVEDDS3 = 0;  
ELSE DO OVER DENTCNT;  
  IF DEI12083 = 1  
    THEN HAVEDDS3 = 1;  
    ELSE IF DEI12083 = 2 AND HAVEDDS3 \= 1  
      THEN HAVEDDS3 = 0;  
  END;
```

VARIABLE	DDSORTHV	FSD	CUM VALUE	FREQ	CUM FREQ	%	CUM %
Number of visits for orthodontia CODES							
- Missing							
DDSORTHV identifies the number of times the participant saw dentist for orthodontic work.							
INPUT VARIABLES	HIEI	Variables	12	97	14725	0.66	99.49
Site		See "Introduction to Dental Variables" above.	13	8	14733	0.05	99.54
Dayton	15/43, 27, 36		14	8	14741	0.05	99.60
Seattle	63, 65, 125		15	13	14754	0.09	99.68
Massachusetts	92, 94, 181		16	8	14762	0.05	99.74
South Carolina	147, 149, 192		17	1	14763	0.01	99.74
CONSTRUCTION			18	1	14774	0.07	99.82
(Dayton)			19	1	14775	0.01	99.82
(From baseline data.)							
IF DEI1482 = 2 & DEI1483 = 2 & DEI1484 = 2 & DEI1485 = 2 THEN DDSORTHV = 0;			20	8	14783	0.05	99.88
ELSE DO OVER DENTAL SUPPLEMENTS;			24	9	14792	0.06	99.94
IF (DEI12080 = 2 OR DEI12080 = .) OR (DEI12081 = 1 OR DEI12081 = .) AND DEI12083 = 1 THEN DDSORTHV = SUM(DDSORTHV, DEI12092);			25	2	14794	0.01	99.95
END;			26	1	14795	0.01	99.96
			30	5	14800	0.03	99.99
			52	1	14801	0.01	100.00

(From EVF new person supplement data.)

```
IF DEI1482 = 2 & DEI1483 = 2 & DEI1484 = 2 & DEI1485 = 2  
THEN DDSORTHV = 0;
```

(cont.)

```
VARIABLE DDSORTHV (cont.)  
CONSTRUCTION (cont.)  
(Seattle)  
(From baseline data.)  
IF HAVEDDS3 = 0  
THEN DDSORTHV = 0;  
ELSE DO OVER DENTAL SUPPLEMENTS;  
  IF DE12081 = 1  
  THEN IF DE12083 = 1  
    THEN DDSORTHV = SUM(DDSSORTHV, DE12092);  
END;  
  
(From EVF new person supplement data.)  
IF HAVEDDS3 = 0  
THEN DDSORTHV = 0;  
ELSE IF DE12083 = 1  
THEN DDSORTHV = SUM(DDSSORTHV, DE11179);  
  
(Massachusetts, South Carolina)  
(From baseline data.)  
IF HAVEDDS3 = 0  
THEN DDSORTHV = 0;  
ELSE DO OVER DENTAL SUPPLEMENTS;  
  IF DE12081 = 1  
  THEN IF DE12083 = 1  
    THEN DDSORTHV = SUM(DDSSORTHV, DE12092);  
END;  
(cont.)
```

```
VARIABLE DDSORTHV (cont.)  
CONSTRUCTION (cont.)  
( From EYF new person supplement data.)  
IF HAVEDDS3 = 0  
THEN DDSORTHV = 0;  
ELSE DO OVER DENTCNT;  
  IF DE12083 = 1  
  THEN DDSORTHV = SUM(DDSSORTHV,DE12092);  
END;
```

Appendix A PARTICIPATION INCENTIVE PAYMENTS

HIE-insured families were paid a participation incentive (PI) if their HIE plans could conceivably impose a greater financial burden than their existing health insurance policies.¹ Calculated yearly, the PI consisted of (1) an amount calculated to be the *maximum* difference between what the family would have to pay for health care under its HIE insurance plan and what it would have paid under its existing insurance plan, unless (2) the premium a family paid to maintain its existing insurance exceeded the maximum difference. In that case, the family was paid an amount equal to the premium payment.

The calculation of item 1 ignored the family's actual medical expenses. To illustrate, consider family X whose HIE plan specified 95 percent coinsurance up to a maximum out-of-pocket expenditure of \$450, above which care was free.² Family X's existing insurance specified a \$100 deductible, above which the family had to pay 20 percent coinsurance. Under its HIE policy, the family had to spend \$473.68 for medical services (with the 5 percent reimbursement) to reach the \$450 out-of-pocket maximum. For the same charge under its existing insurance, the family would have paid \$100 (the deductible) plus 20 percent of the amount between \$100 and \$473.68. The maximum difference was thus $\$473.68 - 100 - 0.2(473.68 - 100) = 298.94$. Family X was entitled to \$298.94 per year for that portion of its participation incentive.

The total PI could not exceed the MDE specified in the family's HIE plan unless the family's share of its insurance premium exceeded the MDE. For example, if family X paid an insurance premium of \$300, its

¹Participation incentive payments were not offered to families receiving free care (plan A, described on p. 3) who had no premium to pay, families who had no health insurance before the experiment, and families whose other policies had equal or less generous terms, under all circumstances, than their HIE plan.

²In HIE terminology, maximum out-of-pocket expenditure is called "maximum dollar expenditure," or MDE.

total PI entitlement was \$450, not \$598.94 ($300 + 298.94$). If the family paid a premium of \$600, its PI was \$600 because the premium exceeded the MDE of \$450. On the other hand, a family who had a high MDE in its HIE plan and an existing insurance policy with 0 percent coinsurance, no deductible, and an employer-paid premium was entitled to the full MDE amount. The purpose of PI payments was to ensure that a family was no worse off financially by participating in the experiment--whether because of the cost of its insurance premium or the "worse" terms of its HIE insurance plan compared with its existing policy.³

As encouragement for families to complete their assigned enrollment terms, a portion of the family's annual PI was withheld until the last year of the term.⁴ The family received its full annual PI that last year, and the amount previously withheld was paid as part of a completion bonus when the family completed the physical screening examination and medical health questionnaire at exit.⁵

To measure enrollees' responsiveness to PI payments, a subset of families received their full annual PI in the next-to-last, as well as the last, year of their term. That "super PI bonus" was offered to 44.4 percent of the families assigned to insurance plans requiring 95 percent coinsurance, the highest rate (plans K-N, described on p. 3). Super PI

³Calculation of PI is further described in Clasquin and Brown, op. cit. The formula on p. 20 of that report should read $PI = \max[K \times PG, PR]$.

⁴The percentage of PI withheld depended on the site and assigned enrollment term, as follows:

	3-yr Term	5-yr Term
Dayton	25	15
Seattle	25	15
Fitchburg	33.3	25
Franklin Co.	33.3	25
Charleston	33.3	20
Georgetown Co.	33.3	20

If the discounted PI was not enough to reimburse the cost of the family's insurance premium, however, the family received the full amount of its premium. The difference between the premium and the discounted PI was then subtracted from the withheld amount.

⁵The rest of the completion bonus was the largest annual PI to which the family had been entitled during its enrollment (minus the withheld amount) or \$120, whichever was greater.

recipients represented all sites and both terms of enrollment except Dayton enrollees assigned to three year terms, who had already begun their next-to-last year when super PI was instituted. Within the 95 percent coinsurance plans, super PI recipients were chosen using the "finite selection model." That model was developed by Rand to assign enrollees to experimental insurance plans so that, across plans, families resembled each other in 24 health and socioeconomic characteristics.⁶

⁶The finite selection model is described in Morris, op. cit.

Appendix B HIE DATA FILES

This appendix identifies the data files that the HIE has either issued or expects to issue, grouped in topical series. As a tape of each file is issued, a companion codebook is published as a Rand Note. One Note may contain the codebooks for several files. In addition to issuing files and codebooks, HIE staff will prepare a user's guide to provide assistance in understanding and using the HIE database for analysis.

The list below cites codebooks for the files that have been issued, and file names for those not yet issued. At this time it is impossible to predict exact issue dates for future files and codebooks. This preliminary list is to alert prospective users to the variety of subject matter covered by the HIE database and to the existence of related files that should be used together.

Before ordering a file or codebook, be sure to verify its availability with the Rand Publications Department, using the reference numbers cited below (e.g., MS3).

ISSUED TO DATE

Master Sample Series

MS1. *Vol. 1: Codebook for Eligibility-Family Changes File*, by S. M. Polich and C. d'Arc Taylor, The Rand Corporation, N-2264/1-HHS, May 1986.

MS2. *Vol. 2: Codebook for Full Sample Demographic File*, by S. M. Polich et al., The Rand Corporation, N-2264/2-HHS, May 1986.

Aggregated Claims Series

AC1. *Vol. 1: Codebook for Fee-for-Service Annual Expenditures and Visit Counts*, by C. E. Peterson, M. Nelsen, and E. S. Bloomfield, The Rand Corporation, N-2360/1-HHS, May 1986.

ISSUED TO DATE (cont.)

HIE Reference Series

RF1. *Codes Used in HIE Claims--Diagnoses, Symptoms, Procedures, Drugs, and Supplies*, by M. Nelsen and C. A. Edwards, The Rand Corporation, N-2349/1-HHS, May 1986.

TO BE ISSUED

Master Sample Series

MS3. Supplemental data file

Aggregated Claims Series

AC2. FFS outpatient visits

AC3. FFS inpatient visits

AC4. FFS dental visits

AC5. FFS treatment episodes

AC6. FFS annual episode counts

AC7. HMO and Seattle FFS annual expenditures and visit counts

AC8. HMO and Seattle FFS outpatient visits

AC9. HMO and Seattle FFS inpatient visits

Claims Line-Items Series

LI1. FFS data: hospital inpatient services

LI2. FFS data: inpatient physician procedures billed by institutions

LI3. FFS data: drugs prescribed by physicians

LI3. FFS data: drugs prescribed by physicians

LI4. FFS data: supplies prescribed by physicians

LI5. FFS data: services rendered by physicians

LI6. FFS data: drugs sold by physicians

LI7. FFS data: supplies sold by physicians

LI8. FFS data: injections administered by physicians

LI9. FFS data: outpatient services billed by institutions

TO BE ISSUED (cont.)

Claims Line-Items Series (cont.)

- LI10. FFS data: services rendered by dentists
- LI11. FFS data: drugs prescribed by dentists
- LI12. FFS data: drugs purchased
- LI13. FFS data: supplies purchased from pharmacies
- LI14. FFS data: supplies purchased from nonpharmacy suppliers

- LI15. Seattle HMO data: hospital inpatient services
- LI16. Seattle HMO data: inpatient physician services
- LI17. Seattle HMO data: drugs prescribed by physicians
- LI18. Seattle HMO data: supplies prescribed by physicians
- LI19. Seattle HMO data: services rendered by physicians
- LI20. Seattle HMO data: drugs dispensed by physicians
- LI21. Seattle HMO data: supplies dispensed by physicians
- LI22. Seattle HMO data: injections administered by physicians

- LI23. Seattle HMO data: outpatient services provided by institutions
- LI24. Seattle HMO data: drugs dispensed
- LI25. Seattle HMO data: supplies dispensed

- LI26. Seattle FFS data for HMO comparison: hospital inpatient services
- LI27. Seattle FFS data for HMO comparison: inpatient physician procedures billed by institutions
- LI28. Seattle FFS data for HMO comparison: outpatient services rendered by physicians
- LI29. Seattle FFS data for HMO comparison: injections administered by physicians
- LI30. Seattle FFS data for HMO comparison: outpatient services billed by institutions

HIE Reference Series

- RF2. Providers cited in HIE data

TO BE ISSUED (cont.)

Medical Disorder Series

- MD1. Adult medical disorders at enrollment and exit
- MD2. Infant and child medical disorders at enrollment and exit

Health Status and Attitude Series

- HS1. Adults at enrollment and exit
- HS2. Children at enrollment and exit

Medical History Questionnaire Series

- MH1. Dayton adults at enrollment
- MH2. NonDayton adults at enrollment
- MH3. Adults at exit
- MH4. Dayton children at enrollment
- MH5. NonDayton children at enrollment
- MH6. Children at exit
- MH7. Dayton infants at enrollment
- MH8. NonDayton infants at enrollment
- MH9. Infants at exit

Appendix C

DATA SOURCES

This appendix identifies the data collection instruments and other sources of data in the full sample demographic file. The source types, shown as centered headings in the table below, are the EVF and its supplements, baseline questionnaire and its supplements, screening questionnaire, annual income report, and HIE administrative files. Within each category, separately administered versions of the instruments are identified by HIEI number, general topic addressed, site covered, inclusive dates administered, and FSD variables to which they contributed.

APPENDIX C (cont.)

HIEI Number	Topic	Site	Dates Administered	Relevant Variables
EVF (interviewer-administered)				
39	Family changes since baseline	Dayton	10/74-1/75	MARSTAT, ESTATUS, INSURED, PUBLINS
123	Screener for family changes since baseline	Seattle	11/75-9/76	MARSTAT
124	Nature of family changes since baseline	Seattle	11/75-9/76	OCC, INDUSTRY, DEIWG1E, SSI
176	Screener for family changes since baseline	Massachusetts	5-10/76	MARSTAT
177	Nature of family changes since baseline	Massachusetts	5-10/76	OCC, INDUSTRY, DEIWG1E, SSI
187	Screener for family changes since baseline	South Carolina	9/76-1/77	MARSTAT
188	Nature of family changes since baseline [1]	South Carolina	9/76-1/77	INDUSTRY, DEIWG1E, SSI
377	Nature of family changes since baseline [1]	South Carolina	9/78-1/79	OCC, DEIWG1E

[1] For 3-year South Carolina enrollees who were members of the PEG, HIEIs 188 and 192 are the "preenrollment" EVF and EVF new person supplement, respectively; HIEIs 377 and 380 are the "enrollment" EVF and EVF new person supplement.

APPENDIX C (cont.)

HIEI Number	Topic	Site	Dates Administered	Relevant Variables
EVF New Person Supplement (interviewer-administered)				
36	Demographic and health information about new family member	Dayton	10/74-1/75	EDUCPER, BACKGRND, INCOME1, LFEXPER, PAINBAS, WORRYBAS, HOSP, HAVEMD, MDEXAM, MDVIS, MDEXP, HAVEDDS1-3, DDSVSP, DDSVIS, DDSEXP, DDSORTHV
125	Demographic and health information about new family member	Seattle	11/75-9/76	EDUCPER, BACKGRND, INCOME1, ESELF, LFEXPER, DEIWG1B, HOSP, MDV S, MDEXP, HAVEDDS1-3, DDSVSP, DDSVIS, DDSEXP, DDSORTHV
181	Demographic and health information about new family member	Massachusetts	5-10/76	EDUCPER, BACKGRND, INCOME1, ESELF, LFEXPER, DEIWG1B, HOSP, HAVEMD, MDEXAM, MDVIS, MDEXP, HAVEDDS1-3, DDSVSP, DDSVIS, DDSEXP, DDSORTHV
192	Demographic and health information about new family member [1]	South Carolina	9/76-1/77	EDUCPER, BACKGRND, INCOME1, ESELF, LFEXPER, DEIWG1B, HOSP, HAVEMD, MDEXAM, MDVIS, MDEXP, HAVEDDS1-3, DDSVSP, DDSVIS, DDSEXP, DDSORTHV
380	Demographic and health information about new family member [1]	South Carolina	9/78-1/79	DEIWG1B, HOSP, MDVIS

[1] For 3-year South Carolina enrollees who were members of the PEG, HIEIs 188 and 192 are the "reenrollment" EVF and EVF new person supplement; HIEIs 377 and 380 are the "enrollment" EVF and EVF new person supplement.

APPENDIX C (cont.)

HIEI Number	Topic	Site	Dates Administered	Relevant Variables
EVF Employment Supplement (interviewer-administered)				
42	Wages	Dayton	10/74-1/75	DEIWGE
127	Wages	Seattle	11/75-9/76	DEIWGE
178	Wages	Massachusetts	5-10/76	DEIWGE
189	Wages	South Carolina	9/76-1/77	DEIWGE
381	Wages	South Carolina	9/78-1/79	DEIWGE
EVF New Head Supplement (interviewer-administered)				
50	Demographic information about new household head	Dayton	10/74-1/75	RACE, ETHNOS
126	Demographic information about new household head	Seattle	11/75-9/76	RACE, ETHNOS
182	Demographic information about new household head	Massachusetts	5-10/76	RACE, ETHNOS
193	Demographic information about new household head	South Carolina	9/76-1/77	RACE, ETHNOS

APPENDIX C (cont.)

HIE Number	Topic	Site	Dates Administered	Relevant Variables
Baseline Questionnaire (interviewer-administered [2])				
15/43	Income, employment, family composition, health status; self-administered: health care experience, insurance coverage, satisfaction with medical care	Dayton	6-9/74	BASELD, RACE, ETHNOS, MARSTAT, EDUCPER, BACKGRND, INCOME1, INCOME2, ESTATUS, EFULL, ESELF, OCC, INDUSTRY, LFFEXPER, DE1WG1B, INSURED, PUBLINS, AFDC, SSI, FOODSTMP, WELFARE, EGFPBAS, HSELFREP, PA1NBAS, WORRYBAS, HOSP, HAVEMD, MDEXAM, MDVIS, MDEXP, HAVEDDS1-3, DDSVSP, DDSV1S, DDSEXP, DDSORTHV
63	Income, employment, family composition, health status; self-administered: health care experience, insurance coverage, satisfaction with medical care	Seattle	6-11/75	RACE, ETHNOS, EDUCPER, ECOLLEGE, BACKGRND, INCOME1, INCOME2, ESTATUS, ESELF, INDUSTRY, LFFEXPER, DE1WG1B, INSURED, PUBLINS, AFDC, SSI, FOODSTMP, WELFARE, EGFPBAS, HSELFREP, PA1NBAS, WORRYBAS, HOSP, MDXAM, MDVIS, MDEXP, HAVEDDS1-3, DDSVSP, DDSV1S, DDSEXP, DDSORTHV
92	Income, employment, family composition, health status; self-administered: health care experience, insurance coverage, satisfaction with medical care	Massachusetts	10/75-3/76	BASELD, RACE, ETHNOS, EDUCPER, ECOLLEGE, BACKGRND, INCOME1, INCOME2, ESTATUS, EFULL, ESELF, INDUSTRY, LFFEXPER, DE1WG1B, INSURED, PUBLINS, EGFPBAS, HSELFREP, PA1NBAS, WORRYBAS, HOSP, HAVEMD, MDXAM, MDVIS, MDEXP, HAVEDDS1-3, DDSVSP, DDSV1S, DDSEXP, DDSORTHV
147	Income, employment, family composition, health status; self-administered: health care experience, insurance coverage, satisfaction with medical care	South Carolina	1-5/76	BASELD, RACE, ETHNOS, EDUCPER, ECOLLEGE, BACKGRND, INCOME1, ESTATUS, EFULL, ESELF, INDUSTRY, LFFEXPER, DE1WG1B, PUBLINS, EGFPBAS, HSELFREP, PA1NBAS, WORRYBAS, HOSP, HAVEMD, MDXAM, MDVIS, MDEXP, HAVEDDS1-3, DDSVSP, DDSV1S, DDSEXP, DDSORTHV

[2] Except where noted otherwise.

APPENDIX C (cont.)

HIE Number	Topic	Site	Dates Administered	Relevant Variables
Baseline Dental Supplement (interviewer-administered)				
27	Dental services and providers	Dayton	6-9/74	DD\$IND, HAVEDDS1-3, DDSVSP, DD\$VIS,
65	Dental services and providers	Seattle	6-11/75	DD\$UUAL, DDSIND, HAVEDDS1-3, DDSVSP, DD\$VIS, DD\$EXP, DDSORTHV
94	Dental services and providers	Massachusetts	10/75-3/76	DD\$UUAL, DDSIND, HAVEDDS1-3, DDSORTHV, DD\$VIS, DD\$EXP
149	Dental services and providers	South Carolina	1-5/76	DD\$UUAL, DDSIND, HAVEDDS1-3, DDSVSP, DD\$VIS, DD\$EXP, DDSORTHV
Baseline Physician Supplement (interviewer-administered)				
25	Medical visits, providers, and expenses	Dayton	6-9/74	MDVIS, MDEXP
93	Medical visits, providers, and expenses	Massachusetts	10/75-3/76	MDVIS, MDEXP
148	Medical visits, providers, and expenses	South Carolina	1-5/76	MDVIS, MDEXP
Baseline Insurance Supplement (interviewer-administered)				
67	Type of health insurance	Seattle	6-11/75	PRIVINS, WORKINS
96	Type of health insurance	Massachusetts	10/75-3/76	PRIVINS, WORKINS
151	Type of health insurance	South Carolina	1-5/76	PRIVINS, WORKINS

APPENDIX C (cont.)

HIE Number	Topic	Site	Dates Administered	Relevant Variables
Screening Questionnaire (interviewer-administered)				
9	Demographic information to establish basic eligibility	Dayton	6-9/74	MARSTAT, ECOLLEGE, INSURED, EGFPBAS
62	Demographic information to establish basic eligibility	Seattle	6-11/75	MARSTAT, EDUCPER, EGFPBAS
91	Demographic information to establish basic eligibility	Massachusetts	10/75-3/76	MARSTAT, EDUCPER, EGFPBAS
146	Demographic information to establish basic eligibility	South Carolina	1-5/76	MARSTAT, EDUCPER, EGFPBAS
Annual Income Report (self-administered)				
78	Amount and sources of family income, taxes paid in 1974	Dayton	8-12/75	TINC
171	Amount and sources of family income, taxes paid in 1975	Seattle	5/76-9/77	TINC
255	Amount and sources of family income, taxes paid in 1976	Massachusetts, South Carolina	4/77-9/77	TINC
435	Amount and sources of family income, taxes paid in 1978	South Carolina	4-7/79	TINC
HIE Administrative Files				
--	Document accountability file	All	--	INSTAT, PLAN, ENRTERM
--	Sample file	All	--	ANND, ENRDATE
--	Sex/birth file	All	--	SEX, AGE
--	Participant master file	All	--	MDEOFF, PIOFF, SUPERPI
--	Master demographic file	All	--	TINC
--	Enrollment screening exam file	All	--	ASGNPHYS

Appendix D
FILE DICTIONARY

This appendix describes the character version of the full sample demographic file in technical terms. Basic identifying data (Table D.1) are followed by lists showing the location (starting column), length, and type of each variable (Tables D.2 and D.3).

Table D.1
BASIC IDENTIFYING DATA

Data file name	DSF0AA01.PUF.DATA
Creation date	April 21, 1986
Variable format	Character
Total number of data elements	62
Header length (bytes)	40
Derived data length (bytes)	440
Record length (bytes)	480

Table D.2

LISTING BY ALPHABETIC ORDER

Name	Location	Length	Type	Name	Location	Length	Type
AFDC	305	8	I	HSELFREP	345	8	I
*AGE	113	8	I	INCOME1	169	8.2	F
ANND	65	8	I	INCOME2	177	8.2	F
BACKGRND	161	8	I	INDUSTRY	241	8	I
BASELD	41	8	I	INSTAT	16	1	A
BFAMILY	17	8	A	INSURED	273	8	I
BHH	25	8	A	LFEXPER	249	8	I
DDSEXP	457	8.2	F	MARSTAT	137	8	I
DDSIND	417	8	I	MDEOFF	81	8.2	F
DDSORTHV	473	8	I	MDEXAM	385	8	I
DDSUSUAL	409	8	A	MDEXP	401	8.2	F
DDSVIS	449	8	I	MDVIS	393	8	I
DDSVSP	441	8	I	OCC	233	8	I
DEIWG1B	257	8.2	F	PAINBAS	353	8	I
DEIWG1E	265	8.2	F	PERSON	7	8	A
ECOLLEGE	153	8	I	PIOFF	89	8.2	F
EDUCPER	145	8.1	F	PLAN	73	8	I
EFULL	217	8	I	PRIVINS	281	8	I
EGFPBAS	337	8	I	PUBLINS	297	8	I
ENRDATE	57	8	I	RACE	121	8	I
ENRTERM	49	8	I	SEX	105	8	I
ESELF	225	8	I	SITE	15	1	A
ESTATUS	209	8	I	SSI	313	8	I
ETHNOS	129	8	I	SUPERPI	97	8	I
FILENAME	1	6	A	TINC	185	8.4	F
FOODSTMP	321	8	I	TINCCAT	193	8	I
HAVEDDS1	425	8	I	TINCSE	201	8.6	F
HAVEDDS2	433	8	I	WELFARE	329	8	I
HAVEDDS3	465	8	I	WORKINS	289	8	I
HAVEMD	377	8	I	WORRYBAS	361	8	I
HOSP	369	8	I	XPERSON	33	8	A

NOTE: "Type" refers to whether the variable values are alphanumeric (A), integer (I), or fixed-decimal (F). For fixed-decimal variables, the placement of the decimal point is shown in the "LENGTH" column; the number to the right of the dot "." tells the number of digits to the right of the decimal point (e.g., 8.2 means the numbers will be written "nnnnn.nn"). Missing values are written differently for each variable type: A = bbbbbbb, I = bbbbbbb., F8.1 = bbbbb.b, F8.2 = bbbb.bb, and F8.6 = b.bbbbb ("b" meaning blank). An asterisk indicates that the variable has special missing values in the form bbbbbbbA. To obtain the appropriate positive and missing values, read all values as alphanumeric, then convert "I" data to integers and "F" data to the specified floating-point format.

Table D.3

LISTING BY LOCATION

Name	Location	Length	Type	Name	Location	Length	Type
FILENAME	1	6	A	OCC	233	8	I
PERSON	7	8	A	INDUSTRY	241	8	I
SITE	15	1	A	LFEXPER	249	8	I
INSTAT	16	1	A	DEIWG1B	257	8.2	F
BFAMILY	17	8	A	DEIWG1E	265	8.2	F
BHH	25	8	A	INSURED	273	8	I
XPERSON	33	8	A	PRIVINS	281	8	I
BASELD	41	8	I	WORKINS	289	8	I
ENRTERM	49	8	I	PUBLINS	297	8	I
ENRDATE	57	8	I	AFDC	305	8	I
ANND	65	8	I	SSI	313	8	I
PLAN	73	8	I	FOODSTMP	321	8	I
MDEOFF	81	8.2	F	WELFARE	329	8	I
PIOFF	89	8.2	F	EGFPBAS	337	8	I
SUPERPI	97	8	I	HSELFREP	345	8	I
SEX	105	8	I	PAINBAS	353	8	I
*AGE	113	8	I	WORRYBAS	361	8	I
RACE	121	8	I	HOSPI	369	8	I
ETHNOS	129	8	I	HAVEMD	377	8	I
MARSTAT	137	8	I	MDEXAM	385	8	I
EDUCPER	145	8.1	F	MDVIS	393	8	I
ECOLLEGE	153	8	I	MDEXP	401	8.2	F
BACKGRND	161	8	I	DDSUSUAL	409	8	A
INCOME1	169	8.2	F	DDSEND	417	8	I
INCOME2	177	8.2	F	HAVEDDS1	425	8	I
TINC	185	8.4	F	HAVEDDS2	433	8	I
TINCCAT	193	8	I	DDSVSP	441	8	I
TINCSE	201	8.6	F	DDSVIS	449	8	I
ESTATUS	209	8	I	DDSEXP	457	8.2	F
EFULL	217	8	I	HAVEDDS3	465	8	I
ESELF	225	8	I	DDSORTHV	473	8	I

NOTE: "Type" refers to whether the variable values are alphanumeric (A), integer (I), or fixed-decimal (F). For fixed-decimal variables, the placement of the decimal point is shown in the "LENGTH" column; the number to the right of the dot "." tells the number of digits to the right of the decimal point (e.g., 8.2 means the numbers will be written "nnnnn.nn"). Missing values are written differently for each variable type: A = bbbbbbbb, I = bbbbbbb., F8.1 = bbbbbbb.b, F8.2 = bbbbb.bb, and F8.6 = b.bbbbbbb ("b" meaning blank). An asterisk indicates that the variable has special missing values in the form bbbbbbbA. To obtain the appropriate positive and missing values, read all values as alphanumeric, then convert "I" data to integers and "F" data to the specified floating-point format.

GLOSSARY

Adjunct enrollee	Uninsured member of insured family/household (person/family of interest) or member of Dayton control group.
Attrition	Departure from the experiment by voluntary withdrawal before completion of assigned enrollment term.
Baseline participant	Person considered for enrollment at the beginning of the experiment in the site. May or may not have enrolled, either remaining a baseline-only participant or becoming an enrollee.
Baseline-only participant	Person considered for enrollment at the beginning of the experiment in the site who did not enroll.
Contract year	Administrative unit of time for enrollees; year period(s) reckoned from date family signed enrollment contract. First contract year began on enrollment date, second contract year began on first anniversary of enrollment, and so on.
Dayton control group	Group of 669 uninsured enrollees who participated from November 1974 to February 1976. Formed to compare the community's use of health services with use by insured Dayton enrollees. Members retained their own insurance but were asked to complete the same questionnaires as insured enrollees. Group was discontinued because complete data appeared unobtainable from them.
DEI	Data element indicator. Unique label assigned to every element in database. Most DEIs represent questions on data collection instruments.
Enrollee	Person whose family or household signed an enrollment contract with the HIE. An insured person or uninsured person. Any of the following: HIE-insured, HMO-insured, person of interest, family of interest, member of Dayton control group. (See also "adjunct enrollee," "insured enrollee.")
EVF	Enrollment verification form (see Table 2, item 3). With its supplements ("new person," employment, new household head), the LEVF is a primary data source for the full sample demographic file.

Exit	Departure from the experiment after completion of assigned enrollment term, three or five years.
Experimental insurance treatment	One of sixteen groups in which experimental subjects participated. Fifteen were insurance plans with varying coinsurance rates, out-of-pocket expenditure limits, and both FFS and HMO delivery systems. The sixteenth was the HMO control group.
Family of interest	Uninsured, self-supporting member of insured family or member of uninsured self-supporting family residing in the household of an insured family. Compare "person of interest."
FFS	Fee for service.
FSD	Full sample demographic (file name).
GHC	Group Health Cooperative of Puget Sound, the Seattle HMO that participated in the experiment.
HIE	Health Insurance Experiment.
HIEI	Health Insurance Experiment Instrument. Each separately administered version of a data collection instrument was given a unique HIE number.
HIE-insured	Enrollee assigned to an experimental health insurance plan paid by the HIE (plans A-O, described on pp. 3-4). Includes members of HMO experimental group. Compare "HMO-insured."
HMO	Health maintenance organization; Group Health Cooperative of Puget Sound, the HMO that participated in the HIE.
HMO control group	Seattle enrollees drawn at random from existing HMO members who met HIE eligibility criteria. The HIE did not pay their insurance premiums.
HMO experimental group	Seattle enrollees experimentally transferred to HMO from fee-for-service system. The HIE paid their insurance premiums.
HMO-insured	Member of HMO control group.
Insured	Either HIE-insured or HMO-insured.
Insured enrollee	Person assigned to an experimental treatment; HIE-insured or HMO-insured.

MDE	Maximum dollar expenditure--maximum out-of-pocket expense to be paid by HIE-insured family before health care was free. The amount was a function of the family's assigned insurance plan.
Participant	Anyone with a record in the HIE database; includes baseline-only participants and enrollees.
PEG	South Carolina preenrollment group.
Person of interest	Uninsured member of insured family/household who was financially dependent on insured family/household. Compare "family of interest."
PI	Participation incentive.
Preenrollee	Person who participated in preenrollment phase in South Carolina; PEG member. May or may not have formally enrolled in the experiment as a primary enrollee.
SAS	Statistical Analysis System. HIE files contain data in both SAS and character formats.
SSI	Supplemental Security Income.
Suspension	Revocation of HIE-provided insurance benefits because of ineligibility expected to be temporary. Suspended persons remained enrollees.
Termination	Involuntary departure from the experiment. Cancellation of enrollment for permanent ineligibility or failure to fulfill obligations.
Uninsured	Neither HIE-insured nor HMO-insured. Person/family of interest or member of Dayton control group. Uninsured persons did not necessarily lack health insurance; they were uninsured only with respect to HIE experimental treatments.

