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Evaluation of 2-week Doctor Visit Reporting in the National Health Interview Survey

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This report includes a review of previous research on the reporting of ambulatory medical visits in household surveys, describes the methods used in the Health Interview Evaluation Survey, and presents results relating to the reporting of 2-week doctor visits.

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES Public Health Service Centers for Disease Control and Prevention National Center for Health Statistics

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Contents

ıntr	oduction	1
Hig	hlights	2
Pre	vious research and design of record-check studies for ambulatory medical care visits	3
5	thods Sample design Data collection Matching interview and medical record reports	8
()	Solution Coverview of presentation of results Contacts in the interview and medical record Contact-level results of matching Contact-level match Reporting number of visits in 2-week period Effects of timing of interview and physician contact on reporting accuracy Differences in reporting by respondent characteristics.	11 12 13 13 14 16
	cussion	
	Terencest of detailed tables	
Hea	pendix alth Interview Evaluation Questionnaire	29
	kt tables	
В.	Marquis' basic record-check matrix for binary variable with no missing data, by survey response and notation of condition in medical records	3 6 7
D.	Planned allocation of list-sample persons cooperating in the Health Interview Evaluation Survey, by event history,	
E.	revised to analyze telescoping, age, and sex	
F.	Actual number of list-sample persons available for analysis by event history, according to the medical record, age, and sex	8
G.	Actual number of supplementary-sample persons available for analysis, by event history according to the medical record, age, and sex	8
н. J.	Number and percent of initial draw and response rates for Health Interview Evaluation Survey, by utilization group Results of matching interview and medical record reports, by steps	8
Tex	kt figures	
	Agreement on number of visits	14

Evaluation of 2-week Doctor Visit Reporting in the National Health Interview Survey

by W. Sherman Edwards, M.B.A., Westat, Inc.; Deborah M. Winn, Ph.D., and John Gary Collins, M.B.A., National Center for Health Statistics

Introduction

The National Health Interview Survey (NHIS) is a continuous, cross-sectional survey of the civilian noninstitutionalized population of the United States, conducted by the National Center for Health Statistics. The NHIS core interview provides national estimates of, for example, the use of physician and hospital services, and of functional limitations and restrictions of everyday activities for health reasons. Annual supplements provide timely information on other topics of health policy interest.

This report describes the study methodology and presents findings for an evaluation of the reporting of ambulatory medical care visits in the NHIS 2-week reference period, part of a larger evaluation effort called the Health Interview Evaluation Survey (HIES). The NIES had two purposes, the first of which was to examine the reporting of chronic conditions by household respondents and the second to evaluate the reporting of medical care visits, which is the focus of this report. Findings from the reporting of chronic conditions may be found in the NCHS report, "Evaluation of National Health Interview Survey Diagnostic Reporting" (1). Comparing household interview reports and medical records can improve our understanding of data from both sources and may also shed light on people's understanding of their own health and how well the health care system meets their needs for information.

Evaluations using record-check designs are difficult; if one simply interviews persons and checks the sources they mention, it is likely that sources will be missed. Similarly, a design starting with medical records and following up with interviews will miss persons who have not sought professional medical care. Like the previous studies of the reporting of chronic conditions in the NHIS (2-4), the HIES drew its subjects from the membership of a health maintenance organization (HMO) to allow as complete a verification of reports of chronic conditions as possible. The selection of an HMO as a source of the sample has its limitations, however. The evaluation cannot examine differences by provider in the phenomena under study, since there is in essence only one provider, nor can it examine the effects of variations in persons' access to care. Further, persons belonging to an HMO may exhibit different care-seeking behavior from the general population, and they may differ in other ways as well.

The HIES was designed to meet multiple research objectives. Because of interest in possible reporting differences by race, the study population included a larger proportion of black persons than the U.S. population as a whole. The sample design included stratification by age and sex, with oversamples of older persons. Because chronic conditions generally are far less prevalent among children than among adults, the selection of list sample persons was limited to persons 18 years of age or older. To accommodate the examination of doctor visits within 2 weeks of the interview and hospitalizations within 13 months, persons identified in the medical record as having recent utilization were oversampled. The questionnaire comprised a slightly modified core NHIS, with a composite condition list including the most prevalent chronic conditions and impairments. To avoid confounding examination of data on list-sample persons by whether a self- or proxy report was obtained, all list sample persons responded for themselves.

In addition to collecting data on the sample persons, data were also collected on other members of the sample persons' household, including children. These members were identified by the sample person on the household composition page of the NIES questionnaire, paralleling, procedures used in the NHIS. Data on other household members are useful since they allow some comparisons between self-respondents (the sample persons) and other household persons for whom both self- and proxy responses are included as in the NHIS. To the extent that these persons were members of the HMO and permitted access to their medical records, they are included in some analyses. Other survey procedures were modeled as closely as possible to the NHIS.

This report includes a review of previous research on the reporting of ambulatory medical visits in household surveys, describes the methods used in the HIES, and presents results relating to the reporting of 2-week doctor visits.

The HIES was conceived and mandated by NCHS. It was conducted by Westat, Inc.; the Project HOPE Center for Health Affairs shared the design and analysis responsibilities. The study sample was drawn from the membership rolls of the Group Health Association (GHA), whose staff provided essential assistance in identifying the sample and in making available participants' medical records.

Highlights

The HIES is one of many research studies that have examined the accuracy of household survey reports of ambulatory medical visits through record checks. Two aspects of reporting errors have been examined: failure to report visits present in the medical record (underreporting relative to the medical record) and reporting visits not present in the medical record (relative overreporting). Although medical records are not without error and almost every study examined in this research noted some difficulties in the process of matching interview reports and medical records, this report generally assumes that the medical record is "truth" and survey responses that do not agree with the record are in error.

At the person level, the HIES found that about 78 percent of list-sample persons with one or more GHA visits in the medical record reported at least one visit in the interview, with almost the same proportion (80 percent) of list-sample persons reporting visits having them confirmed by the medical record. ("List-sample persons," those selected from the GHA records, all responded for themselves. Other persons included in the interview are referred to as "household members," some of whom reported for themselves and some of whom had proxy respondents.) For list-sample persons, there was virtually no net difference between the interview and medical record in the number of people with visits. For adult household members not present for the interview, however, less than one-half of the persons with visits in the medical record had visits reported in the interview. This finding suggests poorer reporting by proxy respondents but should be viewed with caution because of design limitations.

Compared with the findings for visits, the findings for telephone calls show a considerable net underreport of GHA telephone calls by all participants. Only about one-third of list-sample persons with calls in the record reported a call in the interview, while about 60 percent of persons with telephone contact reported in the interview had it confirmed by the medical record. The pattern was the same for household members, although the percentages were all lower.

The overall rates of agreement for visits were relatively consistent with the findings of previous studies, given that these studies varied in sample design, question wording, and reference period length. Little previous research had examined the reporting of telephone calls to doctors.

The HIES, like several previous studies, examined the reporting of visits with respect to when the interview occurred, and when in the 2-week reference period the visit occurred. Interview reporting was better for the week preceding the interview (77 percent of medical record visits reported in the interview) than for the prior week (63.5 percent), a finding similar to that of an earlier study. Within weeks, there was little difference for different days of the week. Underreporting was constant for interviews conducted Monday through Friday but higher for interviews conducted on a Saturday or Sunday, with more time elapsed since the reference period and perhaps more confusion about which weeks composed the reference period. Finally, an analysis of overreporting suggested that between one-quarter and one-half of overreported visits were "telescoped" into the reference period from an earlier date.

The HIES found differences in reporting by respondent characteristics. Younger people were less likely to underreport and more likely to overreport than older people, leading to a net overreport of about 14 percent as compared with the medical record for persons 18–44, while all other age groups had a net underreport of between 4 and 9 percent. Men were more likely to underreport than women. College graduates were less likely to underreport and more likely to overreport than persons with less education, leading to a net overreport of almost 11 percent against the medical record for persons with college degrees as compared with a net underreport of about 9 percent for persons with a high school education or less. The only one of these findings clearly confirmed by previous research was that men underreport more than women.

Previous research and design of record-check studies for ambulatory medical care visits

Survey reports of behavior are subject to various types of error. Generally, randomly distributed reporting error can affect the variance of estimates made from survey data, while systematic error can bias survey estimates.

As examples of systematic error for survey reports of behavior, respondents may forget relevant episodes or they may report an episode from outside the period of interest as if it had happened within the period (telescoping); they may report episodes that do not meet the survey definition or they may fail to report relevant episodes because they decide that these do not meet survey criteria; they may fail to report socially undesirable or embarrassing episodes or they may report socially desirable episodes that did not occur. Surveys that collect reports of behavior sometimes seek verification of these reports from other sources, either at an episode level or in some aggregated form. Administrative records are often used in both ways in what is called "record-check studies." While some researchers consider such record data as "truth," considerable evidence suggests that this view oversimplifies the relationship between data from sample surveys and from administrative records. For example, administrative records are maintained for purposes other than verification of survey data, and therefore may use different rules for inclusion or exclusion of events than the survey with whose data they are being compared. Even if administrative records did represent "truth," record checking does not explain why respondents give incorrect answers.

Marquis (5) described limitations of particular recordcheck methodologies, illustrating his arguments with a review of record-check studies of reports of hospitalizations and ambulatory health care visits. Marquis was particularly concerned with response bias, the systematic overreporting or underreporting of some behavior—such as health service use. He described a basic record-check typology in terms of the values obtained for a binary variable (that is, a variable with two possible values) from two different sources, specifically household interviews and medical records. This typology is reproduced as table 1. Cells A and D represent agreement between the two sources—positive match and negative match, respectively. Cells B and C represent disagreement; if the record is taken as truth, cell B would be considered a false positive or overreport, while cell C would be a false negative or underreport.

Note that survey response error, according to this model, comprises both underreporting and overreporting. A more simplistic model might compare only A and B (survey reports)

Table A. Marquis' basic record-check matrix for binary variable with no missing data, by survey response and notation of condition in medical records

_	Survey response			
Condition noted in medical record	Yes	No	Both responses	
es	Α	С	A+C	
ło	В	D		
All conditions	A+B		A+B+C+D	

... Category not applicable.

NOTES: A is positive match, B is false positive, C is false negative, and D is negative match.

and A and C (record reports) and derive a single error term, either overreporting or underreporting, that represents the net effect of both kinds of response error. This comparison could lead to an unduly optimistic view of reporting error if, for example, both underreporting and overreporting were high but of relatively equal magnitude. In such a case, estimates of population totals would be relatively accurate but subpopulation estimates or multivariate analyses might be biased.

Marquis extended this model to describe the design of record-check surveys overall. He labeled "AC" a design in which a sample of persons with a particular characteristic (such as the presence of a doctor visit within a specified reference period) is drawn from records. The characteristic is then tested for in a survey, noting that such a design would not capture overreports (that is, responses in cell B). On the other hand, a design in which a survey is conducted first and record checks are performed on persons reporting a characteristic of interest ("AB" design) would fail to capture underreports (that is, responses in cell C). Record checks of either AB or AC design would thus not measure response bias accurately; estimates of bias would be skewed by the limitations of the design. Fully designed record checks (ABCD designs) identify a population and sample from it independently of records, obtain survey and record information for each sampled element, and compare the two data sources. Thus, Marquis believes that cognitive research on health surveys should contain external validation features, such as fully designed record checks or other careful strategies, to measure the correlation of survey responses with true values. Furthermore, because of the problems inherent with certain types of record checking, it cannot be assumed that respondent forgetfulness is the dominant response problem in health surveys.

Marquis cited a number of prior record-check studies that examined the reporting of ambulatory medical care visits. These and other related studies are introduced in the following paragraphs. These studies include some with incomplete designs, where either the medical providers reported by a household sample composed the record source or individuals selected from medical records composed the interview sample. A full-design record check with an area probability sample in any substantial portion of the United States would be prohibitively expensive, if not impossible, because of the need to include either all providers or all population members (depending on the direction of the study) to ensure the accuracy of negative reports. In general, full-design record-check studies of ambulatory care use have had to rely on relatively closed systems of care, such as HMOs, or on small communities with a manageable number of medical providers to include all in the record check, or on a closed payment system, such as the Canadian national health plan.

In addition to variations in record-check design, the studies varied in many other ways:

- in question wording and approach
- in the length of the reference period
- in the number of interviews (and consequently whether recall was "bounded" by a previous interview or not)
- in the composition of the sample (age, race, urban/rural location, etc.)

These differences make all direct comparisons across studies risky at best. Those studies that most resemble the NHIS will be given greater emphasis in subsequent discussion of findings. However, to the extent that patterns persist across the dissimilar studies, these patterns are useful in drawing conclusions about the NHIS.

In an evaluation of the National Health Survey, predecessor to the NHIS, Cannell and Fowler (6) examined the reporting of doctor visits in a 2-week reference period. Using a modified "AC" design, according to Marquis' terminology, the Cannell and Fowler study interviewed persons identified from medical records at an urban hospital as having recent doctor visits. Most of the hospital's patients were members of a subscription medical plan and about 50 percent of the study sample were black persons. Persons with visits in the 2 weeks preceding the interview week and persons with visits in the prior 2 weeks (third and fourth weeks before the interview) were included in the study. Cannell and Fowler matched individual visits to the hospital clinic between interview reports and administrative records, using doctor's name, visit date, and reason for visit as match criteria.

Cartwright (7) reported on record-check results in the Hertfordshire Morbidity Survey, which was conducted in a post-war housing estate just outside London. Adults were interviewed about themselves and their children in two in-person interviews. The second of these interviews asked about "medical consultations" since the previous interview, a period ranging from 3 to 6 weeks. Independent reports of medical consultations were obtained from physicians in the estate for all persons in the interview sample. Thus, this study is a full-design record check. (Cartwright does not specifically

address the question of out-of-estate medical care use in the cited article; the implicit assumption is that such use was nonexistent or trivial.) Unlike the Cannell and Fowler study, Cartwright's work did not match interview and record reports at the event level; rather, her study compared reports at the person level, comparing the number of visits reported for each person by each source.

Balamuth (2) reported on a study of Health Insurance Plan (HIP) members, an HMO based in New York, in an evaluation of reporting on the National Health Survey. Like the Cannell and Fowler design, this study could only measure underreporting, since it sampled only persons with visits from the HMO records. The HIP study matched only on whether a visit was reported within the 2-week period from both sources. No attempt was made to match specific reports or the number of reports during the 2-week period.

Loewenstein (8) reported on a record-check study in the Washington Heights area of New York City, whose primary purpose was to compare two approaches to collecting health care utilization data. The community sample for this survey included persons seeing private doctors, persons going to clinics, and HMO members. Respondents were asked about ambulatory visits in the past year, and verification data were obtained from providers mentioned in the interview. Marquis termed this record check an "ABC" design, although it approached a full design for the HMO members; the study collected information from providers about medical visits not reported in the interview ("C" visits) but only from providers mentioned in the interview. There was no verification of negative interview reports, so the record check includes no "D" component and an incomplete "C" component. Matching was done at the person-provider level, comparing numbers of visits reported, but not at the visit level. Feather (9) reported on a study of 3,727 Saskatchewan residents selected from the rolls of the government-operated health insurance plan, which covered 99 percent of residents. An interview very similar to the NHIS was conducted, including questions about doctor visits in the 2 weeks before the interview week. Record-check data were obtained for all persons interviewed.

This study thus employed a full ABCD design and matched reports of doctor visits at the visit level. However, the records appear to have been difficult to disaggregate, affecting their completeness as verification data.

The RAND Health Insurance Experiment, as described by Marquis et al. (10), included a record check of dental visits reported in a 1-year-recall interview. The record check was of dentists named by survey participants as having been seen during the year, as a "usual" dentist, or as seeing someone else in the family. Thus, the design is nearly of the full "ABCD" type. Visit reports were matched at the persondentist pair level not at the event level.

The 1970 Center for Health Administration Studies—National Opinion Research Center of the University of Chicago (CHAS/NORC) survey collected information from a national household sample on medical care utilization and expenditures for a calendar year, using a single retrospective interview (Andersen et al. (11)). The medical providers named by interview respondents were subsequently contacted for

verification data. Like the Loewenstein study, Marquis termed this an "ABC" design. Matching of visit reports was at the person-provider pair level not at the visit level.

The Medical Economics Study (12) examined the reporting of outpatient medical visits as well other utilization measures using a variety of procedures. The procedures included a series of interviews, either in person or over the telephone, monthly or bimonthly over a 6-month period. The interviews used the basic NHIS questions but added additional probes for utilization and a diary after the first interview. Medical providers mentioned in the interview for which permission forms were obtained were contacted for verification data. This design is similar to the "ABC" type of the CHAS/NORC study described previously. It is not clear from the cited article whether data were matched at a person or visit level.

Cleary and Jette (13) employed a full design to evaluate self-reports of ambulatory medical care utilization over a 1-year recall period. Their sample was drawn from a rural area, and nearly all possible medical providers in the area were included in the verification. Medical providers outside the area were excluded, as were some local providers mentioned by very few survey participants. The sample included both HMO members and fee-for-service patients. The design approaches a full "ABCD" type. Visit reports were matched at a person level not a visit level.

Edwards, Berk, and Ward (14) compared reports of ambulatory medical provider visits from household interviews and a

medical provider verification survey in a 1986 NCHS-sponsored evaluation of medical expenditure surveys. Their primary purpose was to evaluate different verification and matching strategies. The survey included two interviews, covering a total reference period of about 6 months. Like the preceding two studies, the design would be classified as "ABC." Visits were matched both at a person-provider pair level and at a visit level within person-provider pairs, using only reported visit dates as an additional match criterion.

In examining the processes survey respondents use to recall events and the effects of an experimental procedure intended to improve recall, Means and Loftus (15) conducted two studies of HMO members with three or more medical visits in the year preceding an interview. For this population, the study would constitute a full design for care received at the HMO; however, appropriate to the purposes of the study, the design would not capture overreports by persons without visits in the record. Matching of visit reports was done at the visit level for HMO office visits and emergency room visits, using criteria similar to those of Cannell and Fowler described earlier.

The next section describes the sample design and procedures for the HIES. Some results from the studies described previously are interspersed with results from the HIES in the section that follows. Finally, the last section discusses the HIES findings comparatively with previous studies and their implications for the NHIS.

Methods

This section describes the methodology used to conduct the Health Interview Evaluation Survey (HIES). A complete description of the study design and the questionnaire may be found in the NCHS Series 2 report, "Evaluation of National Health Interview Survey Diagnostic Reporting" (1). Generally, the evaluation was designed to mimic the content and procedures of the NHIS as closely as possible within certain design and analytic constraints. The differences in design and conduct between the HIES and the NHIS are presented in table B.

Sample design

The HIES was conceived as a full-design records check study. That is, following Marquis' (5) typology described earlier, the intent was to examine the reporting of chronic medical conditions and medical utilization by interview respondents so both apparent interview overreports (cell B in table A) and underreports (cell C in table A) could be detected. Further, the design was to allow interpretation of the absence of report of a visit from both sources as agreement that no visit had occurred. The study universe was members of Group Health Association (GHA), a staff model health maintenance organization (HMO) in the greater Washington, D.C., area. The sample was selected from persons associated with one urban and one suburban medical center, and was restricted to individuals who had been GHA members for at least 3 years before selection to maximize the completeness of participants' medical records for the chronic condition analysis.

Because of cost considerations early in the planning of the HIES, the target sample size was 1,000 self-responding adults

selected from the GHA membership rolls. Children were omitted from this list sample because of their relatively low prevalence rates of chronic conditions. Since the NHIS is a household interview, HIES interview data were also collected for other household members, including children, as well as the list-sample persons. Many of these household members were also GHA members. The total sample available for analysis thus includes, in addition to the list sample, all such household members who signed permission forms allowing access to their GHA medical records and for whom records were located. This group is called the "supplementary" sample or "household members," as distinguished from the "primary" sample or "list sample persons." The study design was further guided by the desire to evaluate interview reporting by age, race, and sex.

The number of Federal employees in the list sample was limited, and employees of GHA, Westat, NCHS, and the U.S. Bureau of the Census were excluded from the list sample.

List-sample persons came from two sources within GHA: from the membership rolls, a general sample of members was selected as well as a sample of persons with records of hospital stays; from the ambulatory care appointment records, persons with recent doctor visits were selected. These samples were stratified by age, sex, and employer group (Federal Government or not). Although some separate analyses were planned for each of these subgroups, the intent was not to create a fully crossed design for analysis but to ensure that the distribution of list-sample persons would be uniform within subgroups by other key characteristics.

Persons in older age groups were oversampled. The sample was divided between two major age groups (persons

Table B. Comparison between National Health Interview Survey procedures and Health Interview Evaluation Survey design elements

Area	National Health Interview Survey Practice	Health Interview Evaluation Survey Procedure
Sample frame	Area probability; nationally representative	List of members of Washington, D.C., area health maintenance organization
Sample design	Multistage selection, oversampling of areas with higher proportion of black residents	Disproportionate sampling by age, whether recent doctor visit or hospital stay
Interview selection	Census staff; mostly experienced	Westat staff; many new hires
Interview training	Verbatim training by Census staff	Verbatim training by Census staff
Data collection period	Continuous survey; cases targeted for 2-week field period	Field work lasted 6 months; cases targeted for 2-week field period
Contact procedures	In person; seek household informant	Telephone appointment allowed; sample person only
Respondent selection	Knowledgeable adult in household	Sample person only
Questionnaire content	Core and supplement(s)	Modified core only
Data preparation	Census/NCHS staff rules for resolving discrepancies	Westat staff; same procedures except: refer to questionnaire for resolving discrepancies

Table C. Analytic sample by age and sex

	List sample		Supplementary sample			
Age	Male	Female	Male	Female		
		Number of persons				
All ages	460	545	310	393		
0-17 years	_	_	147	138		
18-44 years	145	164	69	104		
45–64 years	171	202	50	88		
65–74 years	85	108	30	41		
75 years and over	59	71	14	22		

⁻ Quantity zero.

18-64 years and persons 65 years and over) so that each subsample would be expected to yield at least 40 reports of the 10 most prevalent chronic conditions for that age group. Within the younger group, persons 45-64 years of age were selected at a higher rate than those in the general population to increase the number of chronic condition reports expected for the overall group. Equal numbers of males and females were selected in each age group. Table C presents the actual distribution of the analytic sample by age and sex. The first two columns represent list-sample persons, and the second two represent household members.

Since a random sample of the GHA membership would be unlikely to yield sufficient reports of doctor visits within the 2-week NHIS reference period for meaningful analysis, the study design oversampled persons with recent ambulatory visits. To identify persons with recent doctor visits, a sample was drawn weekly from the encounter forms filled out for each patient visit. GHA's central records system provided the sampling frame for the remaining sample. The sample of persons with recent doctor visits was further stratified so that approximately equal numbers of persons would be recalling visits over given time intervals. Because the sampling groups overlapped and the study was not intended to represent the GHA membership, probabilities of selection were not calculated and the sample was not weighted for analysis.

Table D presents the planned allocation of the list sample by whether the person had a recent doctor visit or whether he/she was selected for another reason (recent hospital stay, general sample). The supplementary sample was expected largely to fall in the "other" category.

The reporting of the number and timing of medical events is subject to recall error of various kinds. Two complementary kinds of recall error are forgetting and "telescoping," or drawing in events from outside a reference period. In the NHIS and HIES, the reference period for reporting of doctor visits is the 2 calendar weeks preceding the week in which the interview is conducted. Thus, telescoping could occur if a visit from before the reference period was reported as within it (forward telescoping), or if a visit during the interview week was reported as occurring during the reference period (backward telescoping). The study design as described so far would allow analysis of forgetting or of misplacing an event within the reference period. It would not allow any meaningful analysis of the extent to which telescoping affects NHIS

Table D. Planned allocation of list-sample persons cooperating in the Health Interview Evaluation Survey, by event history, age, and sex

Age and sex	All persons	Persons with recent doctor visits	Other
All age groups, both sexes	1,000	600	400
Age			
18-44 years	292	175	117
45–64 years	375	225	150
65–74 years	200	120	80
75 years and over	133	80	53
Sex			
Male	500	300	200
Female	500	300	200

reporting of medical visits. To analyze forward telescoping, the sample of recent doctor visits was extended to include patients who had visits just outside the reference period, in the preceding 2 weeks. This strategy resulted in the allocation presented in table E. Again, the categories are not mutually exclusive, since persons may visit the doctor in both 2-week periods.

The actual analytic sample was affected by practical difficulties in interviewing persons promptly. That is, persons selected because of a doctor visit within the 2-week reference period were often not interviewed in the week for which they were designated. The reference period for such interviews thus might no longer include the visit for which person was selected. However, this problem was offset by adjustments in the sampling procedures (described earlier) and by list-sample persons with visits other than those for which they were selected, so that the recent visit cell targets were virtually all met or exceeded. Tables F and G present, respectively, the actual list and supplementary samples available for analysis, by event history as noted in the medical record.

The list sample cases were selected and fielded over a period of weeks beginning in June 1990. Each week, a sample of recent doctor visits and other samples were fielded. The recent visit cases were stratified so that equal numbers were

Table E. Planned allocation of list-sample persons cooperating in Health Interview Evaluation Survey, by event history revised to analyze telescoping, age, and sex

		Persons with		
Age and sex	All persons	0–2 weeks	2–4 weeks	Other
All age groups, both sexes	1,000	400	200	400
Age				
18-44 years	292	117	58	117
45–64 years	375	150	75	150
65–74 years	200	80	40	80
75 years and over	133	53	27	53
Sex				
Male	500	200	100	200
Female	500	200	100	200

Table F. Actual number of list-sample persons available for analysis, by event history according to the medical record, age, and sex

		Persons	with recent visits	
Age and sex	All persons	0–2 weeks	2–4 weeks but not 0–2 weeks	Other
All age groups, both sexes	1,005	433	233	339
Age				
18–44 years	309	116	77	116
45–64 years	373	164	73	136
65-74 years	193	86	50	57
75 years and over	130	67	33	30
Sex				
Male	460	187	114	159
Female	545	246	119	180

Table G. Actual number of supplementary-sample persons available for analysis, by event history according to the medical record, age, and sex

		Persons	with recent visits	
Age and sex	All persons	0–2 weeks	2–4 weeks but not 0–2 weeks	Other
All age groups, both sexes	703	103	79	521
Age				
0-18 years	285	29	35	221
18-44 years	173	21	12	140
45–64 years	138	27	24	87
65–74 years	71	14	6	51
75 years and over	36	12	2	22
Sex				
Male	310	40	38	232
Female	393	63	41	289

from the previous week and from the week before, and equal numbers were from each of the preceding 2 weeks. Thus, each interview wave included members from all sampling cells, with the timing of recent visit groups spread across the reference periods and the extended reference periods for analysis of telescoping. Interviewers were expected to complete their assignment in each wave within 1 week; however, as described earlier, many cases in each wave slid into the second week or later. NHIS rules show that such "holdover" cases have the reference period updated to the 2 weeks preceding the interview week; the HIES followed this procedure. The adjustment of selection rates during the field period meant that more persons than originally anticipated were selected in the "recent doctor visit" group.

Interviews were conducted with list-sample persons and any household members who happened to be present. Following NHIS procedures, proxy responses were obtained for other household members not present during the interview. At the conclusion of the interview, list-sample persons and any household members also belonging to GHA were asked for written permission to abstract information from medical records.

Table H presents the cooperation rates for list-sample persons at each stage of the locating, interviewing, and permission form process. The refusal rate was higher than anticipated (all interviews were conducted in metropolitan Washington, D.C., a traditionally difficult area in which to interview), but the locating and permission form rates were higher than expected. Ineligible persons included those who had died, moved from the Washington area, or ended their GHA membership.

From the households of the 1,017 "usable cases," an additional 773 household members 18 years of age or over signed permission forms to allow access to GHA records. Of these, 11 were not GHA members, 5 refused to sign second permission forms required by GHA, and medical records were not located for 54 persons. Thus, 703 supplemental sample persons were available for analysis. Other identified household members not included in the analysis are those under age 18, non-GHA members, persons in households where the list-sample person refused to sign a permission form, and persons refusing or unavailable to sign a permission form.

Data collection

The selected GHA members were administered the NHIS Core questionnaire, with several modifications. Although the sampled GHA members were selected as individuals, the

Table H. Number and percent of initial draw and response rates for Health Interview Evaluation Survey, by utilization group

ting rate (in percent)		Utilization group					
ltem	Total	Recent doctor visit	Recent hospital stay	No recent utilization			
nitial draw	1,615	1,132	277	206			
ocating rate (in percent)	95	96	93	93			
lumber located	1,540	1,090	258	192			
neligible	130	70	34	26			
nterview requested	1,410	1,020	224	166			
nterview response rate (in percent)	76	76	78	77			
ermission form requested	1,077	775	174	128			
Cooperation rate for permission forms (in percent)	94	94	95	95			
Jsable cases	1,017	728	166	123			

NOTE: Twelve additional cases were dropped because they refused to sign a second permission form required by Group Health Association for certain patients.

NHIS questionnaire is a household interview. Thus, the interview included the households of the sampled individuals. Three kinds of changes were made to this core interview for the HIES:

- The six categories under "Condition lists" in Section H
 were abridged and condensed into one list asked of every
 respondent
- To assist in matching visits reported by household respondents with visits in the medical records, questions on the location of each visit were added to the "Doctor visits details" section.
- The HIES household composition put the list-sample person in the first column and collected relationships to this person.

The HIES questionnaire may be found in appendix I.

All HIES interviewers were trained as if they were new interviewers for the NHIS. An experienced Census trainer conducted the session, using NHIS materials.

The HIES included two advance contacts by mail. The first was a letter from GHA mailed to all members at the two selected medical centers. It gave a very brief description of the research and included a postpaid return postcard for members to return if they did not want their name released. The second letter, from the Director of NCHS, was sent to persons selected for an interview.

Unlike NHIS procedures, in which interviewers approach addresses from an area probability sampling frame, interviewers contacted HIES sample members directly, having knowledge of their names. The initial contact was made by telephone (when a phone number was available). HIES required the sample person to be present for the interview. Other family members present could respond for themselves; the sample person answered for family members not present.

Following the interview, the interviewer asked all GHA members in the family (and parents for children) for written permission to review their medical records. Medical records were obtained for most list-sample persons and other household members who signed permission forms.

Abstracting of participants' medical records was done from photocopies of the past 3 years' hard-copy records. The abstracting identified all doctor visits within the 4 weeks before the interview. Abstracted information included the date

of the visit, the provider (GHA or not), the type of visit within GHA, and conditions reported on the visit encounter form. Telephone calls for advice or prescriptions were also recorded in the medical record and information about them was abstracted. Those forms are shown in NCHS Series 2, No. 120 (1).

Matching interview and medical record reports

The process for matching interview and medical record reports of 2-week physician contacts included several steps. Table J summarizes the results of these steps, which are described in the following text.

Step 1. Several rules were devised to begin matching reported contacts between the two sources:

- Contacts would be matched only within provider (GHA vs. non-GHA) and type (telephone vs. in-person), that is, GHA visits with GHA visits and so on.
- If one source reported more than one contact of a given type and provider on the same date, only one would be considered for the initial match.
- If the medical record and interview reported the same number of contacts for a given provider and type, all contacts of that provider and type from both sources would be considered matched.
- If one source reported contacts and the other reported none for a given provider and type, all reported contacts of that provider and type would be considered nonmatches.

These rules ignored the date of contact as a match criterion (so long as the contact was within the 2-week reference period), and did not attempt to match contact by contact. That is, if the interview and medical record each reported two GHA visits in the 2-week period, all would be considered matched, but no effort was made to identify matching pairs. These rules were programmed and applied to the interview and medical record files. As shown in table J, 430 contacts were matched in each file, while 353 contacts in the medical record and 389 contacts in the interview file were determined not to match. The remaining visits included those for persons with unequal, nonzero numbers of visits from the two sources, and duplicate visits (the second and any subsequent visit of the same provider and type on the same date).

Table J. Results of matching interview and medical record reports, by steps

Steps	Medical record	Nonmatch	Match	Household interview	Nonmatch	Match
Total reported	1,072	447	625	1,141	516	625
1. First automated match ¹	783	353	430	819	389	430
2. Second automated match ²	179	71	108	168	60	108
3. Manual match	110	39	71	154	83	71
4. Crossover match		-16	16	•••	-16	16

^{...} Category not applicable.

NOTE: Seven medical record reports and 31 interview reports were missing information on type of contact.

¹Remaining first automated match was 305 for medical record and 322 for household interview.

²Remaining second automated match was 110 for medical record and 154 for household interview.

Step 2. The second matching pass matched remaining contacts of the same provider and type with the same date in both files. An additional 108 matches were identified, with an additional 71 reports from the medical record and 60 from the interview being classified as nonmatches.

Step 3. The remaining contacts (those not classified as match or nonmatch in the first two passes) were reviewed manually, as were all cases with multiple contacts of the same type on the same day (duplicates). The manual review considered date of contact, reason for contact, and name or type of provider. Fifteen duplicate contacts were matched; that is, both the interview and medical record showed more than one contact on the given day. Three contacts with missing dates in the medical record were matched to interview-reported contacts. In addition, 53 contacts were matched for persons with unequal numbers of contacts from the two sources. The remaining 39 contacts in the medical record file and 83 contacts in the interview file were considered nonmatches.

Step 4. The manual review showed some misclassification of visits by interview respondents; that is, some contacts reported as non-GHA were recorded in the medical record as

GHA contacts. This typically occurred when a person was referred to a GHA provider practicing outside a GHA medical center. About fifteen visits and one telephone call were matched across providers. Also, some visits reported in the interview may have been coded as telephone contacts in the medical record. This would occur when, for example, a person showed up at a medical center for renewal of a prescription. Since there was inadequate documentation to justify individual match decisions of this type, any such misclassification remained as nonmatches.

Step 4 and to some extent step 3 represent tenuous extensions of matching logic. While it is highly likely that the matches made in step 4 are "true" matches, additional "true" matches across visit types may have been missed because of lack of information. Multiple visits on the same day (matched in step 3) may be perceived quite differently by medical staff and patients, so mismatches of this type may not be "fair" to interview respondents. However, the net effect of these matching decisions was small, and does not affect analyses that follow. Hence, all data presented will include matches made at each step.

Results

Overview of presentation of results

The HIES sample, as described in the previous section, was not designed to produce estimates for any particular population. The sample is not representative of the GHA membership, nor is the GHA membership representative of the population of the greater Washington, D.C., area. Thus, the data presented in this report are unweighted, that is, there are no adjustments for differing probabilities of selection or for nonresponse. To the extent that idiosyncrasies of the sample are known (for example, universal access to care, overrepresentation of older persons), these are considered in the analysis and discussion of the results. Care should be taken in making inferences from the study findings to another survey, such as the NHIS, since the methodology is different. However, it still provides a useful guide for the accuracy of doctor visit reporting.

Where tests of statistical significance (Chi-square, z) are used, they are applied to comparisons of subgroups within the HIES sample. It is not appropriate to infer from these tests that similar differences would appear in any other survey sample. The analysis presented here draws heavily from previous record-check studies of doctor visit reporting, most of which have similar limitations of generalizability. Where consistent findings occur across studies, one can be more confident in suggesting that a response effect may be present in the NHIS.

2-week contacts in the interview and medical record

Physician contacts reported in the HIES interview and recorded in the medical record were classified by provider (GHA or non-GHA) and by type of contact (telephone or in-person), creating four categories. The agreement between interview and medical record reports for each category is examined both at the person level and at the contact (visit and call) level. This section describes aggregate agreement between the data sources, while subsequent sections examine the results of matching, first at the person level and then at the contact level.

Table 1 shows the number of persons with 2-week contacts reported by each source by sample type, the total number of contacts, and the mean number of contacts per person. The sample types comprise the following categories:

 List-sample persons are those selected from the GHA membership roles and appointment schedules, as described

- in the "Methods section, sample design." All list-sample persons were self-respondents.
- Household members, present, are those persons in the household of list-sample persons who were GHA members present for the HIES interview.
- Household members, not present, were GHA members not present for the HIES interview.
- Household members, under 17, were GHA members not allowed to respond for themselves by NHIS rules. It should be noted that in these analyses, one list-sample person was categorized as a household member present.

Overall, for 532 persons, or 31 percent of the entire sample, GHA visits within the 2-week reference period were noted in the medical record. The bulk of these persons, and visits, was from the list sample, which is not surprising given that the list included a heavy oversample of persons with visits. Household members under 17 had the fewest visits per person. The medical record indicated about the same rate of visits (18 percent) for adult household members whether present for the interview or not, but in the interview, visits were reported by twice as many household members who were present as for household members not present (23 percent versus 11.5 percent, respectively). The mean number of visits per person in the medical record was also identical (0.25) for household members whether present or not, but in the interview the rate was greater for household members present (0.32) than for those not present (0.18). These differences suggest a proxy reporting effect, which will be explored further in a subsequent section.

Telephone calls to GHA (also shown in table 1) followed very similar patterns to GHA visits: most were for list-sample persons, very few were for children, and interview reporting was noticeably less for adult household members not present during the interview than for those present, although the latter numbers are very small. Overall, fewer telephone calls were reported in the interview than were present in the medical record, suggesting that such calls may be very easily forgotten.

Very few non-GHA visits were recorded in the medical record, particularly compared with the number reported in the interview. In many cases, the record indicated a referral to or ongoing treatment by a non-GHA provider, but specific visit dates were not noted. The medical records included no notations of telephone calls to non-GHA providers and only six were reported in the interview. Because of the lack of documentation of non-GHA visits in the medical record and the

very small number of non-GHA telephone calls, most analyses will examine only GHA contacts (visits and telephone calls).

Person-level results of matching

Table 2 presents a person-level summary of the match between the medical record and interview report for the GHA visits and telephone calls by four categories of survey participant, according to their sample selection status and their presence during the interview. After a review of other studies' findings on person-level match rates, this section will describe table 2 results in detail.

Most of the previous studies cited earlier with 2-week reference periods present only visit-level data. Balamuth et al. (2), who did present person-level data, found that 64 percent of persons with one or more visits in the medical record had some visit reported in the interview, a lower number than that obtained in the HIES. (The design of the Balamuth et al. study did not permit calculation of the rate of confirmation of interview-reported visits.)

Among studies with longer reference periods reporting person-level data (all studies cover at least one year), Loewenstein (8) found that 89 percent of persons with medical record visits had some visit reported in the interview and Madow (4) found 94 percent of persons in this category. Loewenstein's study showed confirmation in the medical record for 86 percent of persons for whom a visit was reported in the interview; Madow found 95 percent of persons in this category and Andersen et al. (16) 87 percent. Cleary and Jette (13), in contrast, found only 65 percent of persons with visits in the medical record had some interview report and 71 percent of persons with reported visits had confirmation in the medical record. The differences among these studies are in part attributable to differences in sample selection (studies selecting known utilizers tend to have higher rates of agreement at the person level), survey procedures, and the content of and procedures for using medical record data.

Group Health Association visits

Table 2 shows that between the interview and medical record the number of persons reported as having GHA visits are comparable. Overall, about 78 percent of the persons reported as having one or more visits from the medical record were also reported as having at least one visit in the interview. Almost the same proportion of interview reports were confirmed by the medical record. Thus, there is no evidence of general net over- or underreporting of GHA visits at the person level.

However, some indications of differences appear for other household members (nonsample persons). The most notable departure from the general pattern is for household members not present during the interview, that is, adults with proxy respondents. Although the number of visits is small, less than half of the persons in this group with visits in the medical record had visits reported in the interview. The difference between the proportion of medical record visits reported in the interview for household members present for the interview (84.4 percent) and the proportion for those not present (46.9 per-

cent) is statistically significant (z=3.00, p<.01). The GHA visit, medical record report table is also significantly different from that expected (Chi-square=19.96, df=3, p<.001), mainly due to the poorer reporting for household members not present. This difference suggests some underreporting for adults by proxy respondents. The generalizability of this finding is unclear because the proxy respondents (almost all list-sample persons) were not selected according to NHIS procedures and many more of them had visits of their own to report than typical NHIS respondents.

For adult household members present during the interview and for children, on the other hand, the interview shows about 25 percent more people with GHA visits than does the medical record. The proportion of present adult household members with visits is 23 percent from the interview (57 out of 248 persons) versus 18 percent from the medical record (45 out of 248), while for children it is 11.4 percent (31 out of 273) versus 9.1 percent (25 out of 273). These differences are not statistically significant, however.

Other household members reporting for themselves and persons reporting for household members under 17 were more likely than list-sample persons to report having had a GHA visit when the medical record indicated one or more visits (84.4 percent for adult household members and 88.0 percent for household members under 17 versus 78.1 percent for list-sample persons). These members were also more likely to report having had a visit when the medical record did not include one. The difference between list-sample persons and household members reporting for themselves in proportion of interview-reported visits confirmed by the medical record (79.6 percent versus 66.7 percent, respectively) is significant at the .05 level (z=2.21).

These differences in reporting between the adult household members and the list-sample persons may be due to the higher rarity, and perhaps greater salience, that physician visits have for the former group. That is, because they had less to report than the list-sample persons, there may have been more of a tendency for household members to "telescope" in visits from outside the reference period. This hypothesis was first advanced by Cannell and Fowler (6) when comparing reports of visits between one group of persons selected because of known visits and a second group of whom about one-third had visits. One may argue that HIES household members are more like the typical NHIS participant than the list-sample persons, and thus these tendencies may be particularly important in interpreting the results for list-sample persons. Further exploration of telescoping will be presented in a later section.

Non-Group Health Association visits

Only nine persons were reported in the medical record as having non-GHA visits in the 2-week reference period, as opposed to 83 in the interview. As described earlier, about 15 non-GHA visits reported in the interview were "matched" with GHA visits in the medical record, showing a disagreement between the two sources about classifying visits. For other persons, the medical record indicated that they were being treated outside GHA, but did not give specific visit

dates. Other interview reports appeared to indicate out-of-plan use, such as nonphysician specialties and for out-of-town care. Therefore, the medical record does not seem to provide adequate verification for these visits.

Group Health Association telephone calls

The GHA medical record includes notation of telephone calls made about the patient. Only about one-third of the list-sample persons with calls noted in the medical record had calls reported for them in the interview. The numbers of household members with calls are small, but the proportion of interview reports are even lower than for list-sample persons. On the other hand, almost 60 percent of the persons for whom calls were reported in the interview had the reports confirmed by the medical record, with lower proportions for household members. These findings indicate a notable underreport of telephone calls in the HIES interview.

Non-GHA telephone calls

These contacts are not recorded in the GHA medical records, and the interview produced only five reports. No analysis of this contact type will be offered.

Contact-level match

Table 3 presents the match results at the contact (visit and call) level. Whereas table 2 and the previous section examined whether one or more contacts of a particular type (GHA or non-GHA, visit or call) were reported for a person, this section examines the match for all contacts reported. Contacts were matched within type (with certain exceptions described earlier), and globally within person. That is, if both the medical record and the interview showed two GHA visits, all were considered "matched," without regard to which interview report matched with which contact in the medical record.

As shown in table 3, the pattern of reporting for GHA visits is very similar to the person-level figures of table 2: nearly identical levels of reporting between the interview and medical record for list-sample persons, with evidence of underreporting for adult household members not present during the interview, and slight overreporting for other household members. Rates of confirmation for interview reports are lower than those at the person level for all groups, suggesting that visits by persons with multiple reports in either source may be less likely to match than those of persons with one visit in the reference period. This possibility will be examined further in the following section. The similarities between contact-level and person-level figures hold for non-GHA visits and GHA telephone calls as well.

One minus the "percent reported in interview" is also referred to as "percent underreport," and one minus the "percent confirmed by medical record" as "percent overreport." These terms imply that the medical record represents truth, which is contestable. However, the medical record does provide a standard against which to evaluate the interview report, and the measures of overreport and underreport are useful in comparing record-check studies.

Among other studies using a 2-week reference period, Cannell and Fowler (6) found an underreporting rate of 23 percent for adult self-respondents, as compared with that of the HIES for list-sample persons (28 percent) and household members present for the interview (23 percent). Feather (9) found only a 14 percent underreporting rate (16 percent for adult self-respondents and 9 percent for children with adult proxy respondents), but an initial 46 percent overreporting rate (48 percent for adults and 39 percent for children). Further investigation reported by Feather of the apparent overreports showed that nearly half were probably attributable to the nature of the records. Applying this analysis to the rate (not calculated by Feather) of overreporting reduces it to about 26 percent. The HIES overreporting rates are 29 percent for list-sample persons, 41 percent for household members present for the interview, and 32 percent for children. Except for Feather's underreporting rate, which is suspect because of the records, these results are consistent across the 2-week studies.

Cartwright (7), describing a study with a bounded 4-week reference period ("bounded" here means that one interview was conducted at the beginning of the reference period, a second, to obtain the reports of physician contacts, at the end), found both underreporting and overreporting from adult selfrespondents to be about 21 percent. Sudman et al. (17), using a combined interview and diary procedure with a 3-month reference period, found an overreporting rate of 24 percent and an underreporting rate of 17 percent. Edwards, Berk, and Ward (14), reporting on a study with two interviews each covering about a 3-month reference period (with a diary used by some respondents between the first and second interviews), found overreporting rates of about 24 percent when comparing only numbers of visits, and of between 30 and 40 percent when individual visits were matched between the interview and medical record. These studies suggest that the expected effects of a longer reference period on accuracy of reporting may be mitigated by using diaries and recall bounding. The Medical Economics Study (12), using repeated interviews with both 1- and 2-month intervals, found an underreporting rate of about 34 percent, with the 1-month interval showing about a 7 percent improvement over the 2-month interval.

Means and Loftus (15), in a pair of studies exploring the cognitive processes of recall of medical visits (including hospital stays), found rates of underreporting and overreporting in excess of 50 percent with conventional questionnaires using a 1-year reference period. When supplementing the traditional questions with a more detailed set of questions, the underreporting rate dropped from 59 to 37 percent, and the overreporting rate from 36 to 27 percent. Persons receiving only the more detailed questions had an underreporting rate of 43 percent and an overreporting rate of 38 percent. This study suggests that the use of cognitively-based questionnaire design may increase the accuracy of reporting of medical visits.

Reporting number of visits in 2-week period

Tables 4 and 5 show the distribution of list-sample persons and household members, respectively, by number of 2-week visits reported from the interview and from the

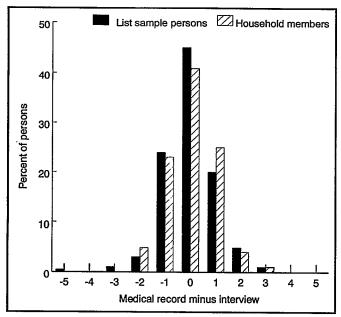


Figure 1. Agreement on number of visits

medical record. Most people cluster along the diagonal representing agreement between the two sources. Figure 1 presents the same data in another way. For all persons with one or more visits reported by either source, it shows the proportion of persons according to the difference in number of visits between the two sources. For both list-sample persons and household members, more than 40 percent of persons with visits had the same number reported by both the interview and medical record, while for both groups 89 percent either agreed or were off by one visit. The symmetry of figure 1 indicates that for both sample groups the over- and underreporting are distributed similarly.

Another view of the symmetry of this distribution is presented in tables 6 and 7. For list-sample persons, the more visits in the medical record, the more likely the interview is to underreport the number (25 percent for one visit, 48 percent for two, and 82 percent for three or more). However, for 0-2 visits in the record, the overreporting rate stays nearly constant (12-15 percent). Conversely, the more visits are reported in the interview, the more likely that the number is an overreport (22 percent for one visit, 50 percent for two, 68 percent for three or more). From the perspective of interview reporting, the overreporting rate stays constant (12-16 percent). Nearly identical patterns hold for household members, although the "constant" rates are lower (6-9 percent overreporting from the perspective of medical record reports and 4-12 percent underreporting from the interview standpoint) than for listsample persons, and the escalating error rates rise more steeply. The last observation may be due to proxy reporting for some household members. This evidence indicates that if one were to consider household interview data only (from the NHIS, for example), the expected rate of underreporting may not be related to the number of visits reported.

Cartwright (7) presents a table much like tables 4 and 5, and from it can be derived the information in table 8. Cannell and Fowler (6) present similar data for underreporting only,

which is also shown in table 8. Cartwright's data look similar to those from the HIES, except a jump in overreporting for persons with three or more visits in the medical record (23.6 percent) as opposed to persons with fewer visits (4.6-8.2 percent). The data from Cannell and Fowler, on the other hand, do not parallel those of the HIES. They show a decline in underreporting against the medical record the more visits the sample person had; the decline is more pronounced when considering visits reported to a standard question plus special probes than to the standard question alone. Like the HIES and Cartwright findings, Feather (9) and Cleary and Jette (13) found more underreporting for persons with more utilization during the reference period, according to the medical record.

Effects of timing of interview and physician contact on reporting accuracy

The NHIS 2-week doctor visit reference period, also used for the HIES, runs through the Sunday immediately preceding the day of interview and begins on the Monday 2 weeks earlier. Thus, if the interview is conducted on a Monday, the 2-week reference period runs until "yesterday." If the interview is conducted on a Saturday, there are 5 intervening days. This design raises several questions about the effects of recall on reporting accuracy. The first set of questions concerns the likelihood of respondents to report physician contacts that actually (according to the medical record) occurred, or, conversely, the likelihood of underreporting. Are contacts in the second (later) week of the reference period more likely to be reported than those in the first (earlier) week because respondents are more likely to forget the earlier visits? Do interviews conducted later in the interview week lead to poorer reporting than those conducted earlier in the interview week because more time has elapsed since the contacts?

The second set of questions concerns the likelihood that interview-reported visits actually occurred, or, conversely, the likelihood of overreporting. For example, how likely are survey respondents to "telescope" contacts into the reference period, either from before, or, for interviews conducted later in the interview week, from after the reference period?

Underreporting

Table 9 presents data related to the first set of questions. The first column shows the days of the 2-week reference period, arrayed from earliest (top) to most recent. The second column shows the number of GHA visits recorded in the medical record for HIES list-sample persons on each day of the reference period. The third column gives the percentage of these visits matched with an interview-reported visit. Overall, almost 77 percent of the second-week visits were matched, as opposed to 63.5 percent of the first-week visits, a statistically significant difference (z=3.61, p<.01. Within the first week there is no particular pattern of reporting accuracy. In the second week, the more recent visits are slightly better reported than the earlier ones, but the pattern is not statistically significant. Very few visits were made Saturday or Sunday of either week (days 6, 7, 13, and 14).

The next pair of columns in table 9 shows the same information for household members. The differential between reporting of week 1 and week 2 visits for household members (59.7 percent versus 72.6 percent) is very similar to that for list-sample persons. The numbers of visits by day for household members are too small to support meaningful interpretation. Thus, there may be more forgetting of visits in the earlier week of the reference period but the data present no evidence for day-by-day "memory decay."

Cannell and Fowler (6) found a similar pattern of underreporting between weeks of the reference period. Of visits in the medical record for the earlier week, 70 percent were reported in the interview; for the later week, 85 percent were reported in the interview. The authors believe forgetting may not be the dominant problem and that confusion about the reference period and "deliberate" misdating of events out of the reference period may be other important factors. However, Feather (9) found that only 13 of 380 visits (3.4 percent) in the medical record for a 2-week reference period were reported as occurring in the week before the interview, suggesting that deliberate "backward telescoping" is not common.

The HIES pattern of better interview reporting in the second week does not hold for telephone calls. The numbers for list-sample persons are shown in the last two columns of table 9, with 29 percent of first week calls matching an interview report and only 28 percent of the second week calls matching. Household members had too few telephone calls for analysis.

Table 10 presents the same statistics as table 9, but by the day of the week the interview took place for GHA visits and GHA telephone calls, respectively. For sample persons and household members, and for GHA visits and GHA telephone calls, a similar pattern holds: reporting in the interview is consistent on weekdays across the week, but drops off on Saturday and Sunday. For GHA visits, the percentage of visits in the medical record reported in Saturday and Sunday interviews combined drops to 59 percent from over 70 percent on weekdays for list-sample persons (z=3.19, p<.01), and to 57 percent on Saturday and Sunday from nearly 70 percent on weekdays for household members (z=1.46, ns). For GHA telephone calls, the weekend interview rate (17 percent) is half the weekday rate (34 percent) for list-sample persons, and none of the 10 GHA telephone calls in the medical record for household members was reported in a weekend interview while 29 percent were reported in weekday interviews.

Overreporting

Turning to the interview report, table 11 presents the number of GHA visits reported and the percentage of interview reports confirmed by the medical record, by week and day of the reference period on which the respondent said they occurred. The percentage confirmed by the medical record was lower for the first week (67.9 percent) than for the second week (71.9 percent) for list-sample persons, but higher in the first week for household members. Thus, this table does not present any conclusive evidence about the tendency of respon-

dents to "telescope" from outside the reference period by what part of the reference period in which a visit was reported as taking place.

In table 12, we see the percent of interview reports confirmed by the medical record remaining constant across the days on which the interview was conducted. Apparently, net telescoping from outside the reference period is unaffected by the length of time between the end of the reference period and the date of the interview.

Table 13 presents another view of possible telescoping from outside the reference period. For list-sample persons, table 13 shows the number of persons with GHA visits in the 2 weeks before the reference period and in the time between the reference period and the date of interview, by person-level match status. "Match status" means the type of agreement or disagreement between the interview and medical record on whether the person had a GHA visit or not (regardless of the number) in the reference period. Just over half the overreports had visits in the prior 2 weeks, about five points more than persons with positive matches. Thus, if one assumes that overreports and positive matches would be equally likely to have a visit in the prior 2 weeks, telescoping from the prior 2 weeks would explain only about 5 percent of the overreports, with the remainder due to telescoping from farther back or other causes. Cartwright (7) found that 47 percent of overreporting persons had a visit in the medical record 1 month or less before the reference period, a figure similar to the 51 percent in table 13; these numbers probably represent an upper bound for the proportion of overreports due to forward telescoping. Feather (9) attributed about 23 percent of "true" overreports (visits) to telescoping from the week immediately preceding the reference period.

Cannell and Fowler (6) report on apparent telescoping at the visit level. Of visits from the 2 weeks before the reference period, 2 percent were apparently telescoped in by one sample (persons selected because of one or more visits), while 6 percent were telescoped in by the general sample. The Cannell and Fowler study does not present totals of overreports. They suggest that persons without a visit in the reference period may be more prone to telescope than those with a visit to report.

Looking at the columns in table 13 for visits in the time after the reference period but before the interview, only 8 percent of the persons overreporting had visits, the same percentage as the negative matches and half the rate of the people with a 2-week reference period visit (positive matches and underreports). Thus, backward telescoping into the reference period may not be a particular problem in reporting of 2-week doctor visits.

Telescoping within the reference period

Comparing the weekly totals between tables 9 and 11 for list-sample persons, there was an interview net underreport of about 7 percent in the first (earlier) week as compared with the medical record (293 visits versus 315 visits), and a net overreport of about 2 percent in the second week (302 visits versus 295 visits). For household members, the Week 1 net

underreport was 6 percent (68 versus 72 visits), and the Week 2 net overreport was 15 percent (73 versus 62 visits). These differences could indicate forgetting of the earlier visits or reporting of Week 1 visits as if they were in Week 2 (forward telescoping). Backward telescoping from Week 2 to Week 1 is also possible.

Looking at 241 list-sample persons and household members with one and only one visit reported in both the interview and medical record (data not shown in a table), 7 percent of Week 1 visits were apparently reported in the interview as Week 2, and 10 percent of Week 2 visits were apparently reported as Week 1. "Apparently" is appropriate because the reported visit may not have been the same as the one in the medical record. However, this analysis does show the magnitude of week-to-week telescoping, and suggests that backward telescoping was more common than forward telescoping. This rate of backward telescoping is higher than the 3.4 percent reported by Feather (9) mentioned in the previous section, and again suggests that Cannell and Fowler's hypothesis of backward telescoping may explain some portion of the higher Week 1 underreport.

Differences in reporting by respondent characteristics

Table 14 presents the agreement on 2-week doctor visits between interview and medical record reports by person characteristics for list-sample persons only. These persons were all self-responding adults. The person characteristics reported on here are different from those for which NHIS statistics are published because of idiosyncrasies in the HIES sample. For each set of characteristics, table 14 presents percent of medical record contacts reported in the interview, percent of interview reports confirmed by the medical record, and the net overreport, defined as the difference between the interview reported contacts and medical record contacts divided by the number of contacts in the medical record.

The youngest group of list-sample persons, those 18-44 years of age, was the least likely to underreport (81 percent of medical record contacts reported in the interview) and the most likely to overreport (71 percent of interview reports confirmed by the medical record). The latter finding is statistically significant for the sample at the .05 level. These two tendencies led to a net overreport of almost 14 percent by the youngest age group, as opposed to net underreports by the older age groups.

Men (72 percent of medical record visits reported in the interview) were more likely than women (84 percent) to underreport, a significant difference, and were more likely to overreport. Men had a net underreport of almost 9 percent, while women had a net overreport of 4.5 percent. There were virtually no differences in reporting by race of respondent.

Persons in lower-income families (under \$20,000) were least likely to underreport (almost 84 percent of medical record visits reported in the interview) and most likely to overreport (76 percent of interview reports were confirmed by the medical record). Persons in families with incomes between \$30,000 and \$50,000 had the opposite pattern. Although neither of these patterns was statistically significant, the lowest-income persons had a net overreport of 10 percent, while those in the next-to-highest income category had a net underreport of almost 10 percent.

List-sample persons with the most education (college graduates) were least likely to underreport (86 percent of medical record visits were reported in the interview), while persons with less than a high school education were the least likely to overreport (87 percent of interview reports were confirmed by the medical record). The former finding was statistically significant at the .05 level. The combination of these two trends led to a net underreporting of 9 percent among the least educated and a net overreporting of almost 11 percent by the most educated.

There were no significant differences in reporting by employment status, either among persons under 65 or over 65 years of age, although in three out of four pairs the employed reported better than the not employed. Employed persons over and under 65 years of age had virtually the same net underreport (just over 1 percent) while among those not employed, persons over 65 years of age had a net 6 percent overreport and persons under 65 years of age had a net 7.5 percent underreport. Comparing list-sample persons by self-reported health status, there was a trend for those in poorer health to underreport less.

Table 15 presents a summary of significant differences in reporting ambulatory medical visits by respondent characteristics across studies. Generally, the findings are scattered and inconsistent. One consistent finding (HIES and two other studies) is that women are less likely to underreport doctor visits than men. A finding of two other studies, Andersen et al. (11) and Cleary and Jette (13), shows that persons with poorer health status are more likely to overreport was not confirmed by the HIES, although the health status measures differ across the three studies. Several studies find differences by age of respondent, although the results are inconsistent. Feather's (9) finding that older women had less underreporting than younger women was inconsistent with three other studies where advancing age was associated with more underreporting, although the other findings included both men and women. Feather's finding that persons 65 years of age and over overreported less was inconsistent with the finding of Andersen et al. (11) that households, including persons 65 years of age and over, had more overreporting but somewhat consistent with the HIES finding that persons 18-44 years of age overreported more than older persons.

Discussion

Both the reporting and the verification of ambulatory medical visits are subject to various kinds of error. As described by Marquis (5), comparing aggregate totals from interview and medical record reports is insufficient to determine the nature and extent of reporting error. Both sources of data are subject to error and the sources often differ on how "visits" are defined. In the HIES analysis, the very low rates of agreement between survey interviews and medical records on visits to providers outside GHA and telephone calls to GHA show that the medical records are probably not comparable to the interview in important ways. Even within the classification of "GHA visits," some ambiguities of definition could not be fully resolved between sources. Most other verification studies of reporting of ambulatory medical visits in the literature describe similar problems in matching between the two sources. Despite these difficulties, it is useful to consider the medical record as "truth" in comparing reports from the two sources. While some error remains in this verification source, it is more nearly "true" when analyzing reports of visits than when analyzing reports of chronic conditions, for example, the subject of the previous report from the HIES (1).

Reporting error in a verification study can be broken into two components: underreporting, or the failure of an interview to report a visit in the medical record, and overreporting, or the reporting of a visit in an interview that is not confirmed by the medical record. Only record-check studies using a "full design" (Marquis (5)) can examine both aspects of reporting error. The HIES, like several prior studies of ambulatory visit reporting, employed a full design. Like most of these other studies, the HIES found little difference in aggregate reporting of visits between the two data sources, except for adults not present for the interview, for whom the interview provided a considerable net underreport. Reporting of telephone calls to doctors in the HIES had much greater error than reporting of visits, with many more calls found in the medical record than were reported in the interview and, among calls reported in the interview, only about half being confirmed by the medical record.

The underreporting and overreporting rates in the HIES are consistent with rates reported in the literature, both for 2-week reference periods and for longer reference periods with bounded recall or other enhancements. These rates range about 17–35 percent for underreporting and 20–40 percent for overreporting. Differences in sample frames and selection procedures and in interview and matching procedures affect

the comparability of these results across studies, and care should be taken in applying the rates to any other survey, such as the HIES. Although the HIES followed NHIS procedures as closely as possible, many differences remained that could affect reporting accuracy. Most notable is the difference between a sample representative of the civilian noninstitutionalized U.S. population (NHIS) and a sample of HMO members in the Washington, D.C., area. Other differences include respondent selection procedures and the relative experience of the interviewers and supervisors with the study.

The HIES confirmed an earlier finding (Cannell and Fowler (6)) that underreports are about 13-15 percent more prevalent for visits in the earlier week of the reference period than for those in the later week. It also supported the findings of several other studies that underreporting is greater for persons with more visits in the reference period. These findings may be framed in the context of the respondent's cognitive processes: motivation to report may decrease with increasing numbers of visits, for example, or respondents may deliberately or inadvertently telescope visits backwards, remembering them as more distant than they are. Deliberate telescoping would be possible, for example, if the respondent wished to shorten the interview (more reports mean more questions), or if the respondent felt some stigma associated with a doctor visit. Neither the HIES nor previous studies have shown definitively what processes contribute to these kinds of reporting error, but have provided evidence for informed speculation. The HIES also found a significant increase in underreporting for interviews conducted on Saturday and Sunday, suggesting some confusion about "the last 2 weeks" in such interviews.

Overreporting presents a different set of problems. It appears that overreporting is greater for persons reporting more visits, but may not be related to the actual number of visits. Several authors have attributed overreports to forward telescoping, or recalling visits earlier than the reference period as occurring within the reference period. However, the estimates of overreports attributable to telescoping in the HIES and other studies range up to half of all overreports; in fact, the number is probably less than that. The question of what the other overreports represent remain. Errors in the medical record, telescoping from further back than has been examined, differences in definition of "visit," and respondent errors in identifying the provider are all possibilities.

Mostly, the HIES and previous literature point to few consistent patterns of under- or overreporting by respondents'

demographic characteristics. Males seem to underreport consistently more than females, findings about age and health status are not consistent, and other demographic characteristics are typically not associated with significant differences in reporting.

The implications of these findings for the NHIS are not clear. The NHIS is subject to both overreporting and underreporting of 2-week doctor visits. Some research shows that reporting of doctor visits can be improved through recall bounding or the use of additional probes. The difference between reporting in the 2 weeks of the reference period

suggests that estimates might better be made from the more recent week only, or that the interview reference period might be extended and truncated to 2 weeks for analysis. Such steps should be thoroughly investigated before considering them for the NHIS. Despite the manner of asking questions or the reference period employed, however, some reporting error will remain. Reporting error through record checks will itself remain an imperfect process. Nonetheless, data from the HIES and other record check studies may help persons using survey data about health care utilization to understand and to interpret these data.

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List of detailed tables

	Number of persons with 2-week doctor contacts and number of contacts, by sample type	21	8.	Person-level agreement, overreporting, and underreporting	
2.	Agreement between interview and medical record on whether any physician contact in 2-week reference period,	21	9.	by number of visits reported, previous studies	23 24
	by type of contact	21	10.	Interview reporting of physician contacts in medical record,	24
	Contact-level agreement between interview and medical	00		by day of week of interview	24
4.	record, by contact type	22	11.	Medical record confirmation of interview-reported physician visits to Group Health Association, by day of refer-	
	2-week reference period, by list-sample persons Person-level agreement between interview and medical	22	12.	ence period	25
	record on number of Group Health Association visits in 2-week reference period, by household members	22	13.	cian visits, by day of week of interview Persons with visits just outside of reference period, by	25
6.	Person-level agreement, overreporting, and underreporting by number of visits reported, list-sample persons		14.	agreement on whether any visit in reference period Agreement of interview and medical record on 2-week	25
	only	23		Group Health Association visits, by list-sample person characteristics	26
7.	Person-level agreement, overreporting, and underreport- ing by number of visits reported, household members		15.	Summary of differences in reporting ambulatory medical	20
	only	23		visits, by respondent characteristics	27

Table 1. Number of persons with 2-week doctor contacts and number of contacts, by sample type

			Medical	record		Interview			
Sample type	Number in sample	Number of persons with contact	Percent of persons with contact	Number of contacts	Mean number of contacts per person	Number of persons with contact	Percent of persons with contact	Number of contacts	Mean number of contacts .per person
Total, all contacts	1,708	624	36.5	1,072	0.63	629	36.8	1,135	0.66
Group Health Association (GHA)									
visit	1,708	532	31.1	745	0.44	531	31.1	760	0.44
List sample persons	1,004	430	42.8	611	0.61	422	42.0	613	0.61
Household members, present .	248	45	18.1	61	0.25	57	23.0	80	0.32
Household members, not									
present	183	32	17.5	46	0.25	21	11.5	33	0.18
Household members under 17									
years	273	25	9.2	27	0.10	31	11.4	34	0.12
Non-GHA visit	1,708	9	0.5	11	0.01	83	4.9	172	0.10
List sample persons	1,004	7	0.7	7	0.01	68	6.8	143	0.14
Household members, present .	248	1	0.4	1	0.00	9	3.6	19	0.08
Household members, not									
present	183	1	0.5	3	0.02	5	2.7	9	0.05
Household members under 17									
years	273	0	0.0	0	0.00	1	0.4	1	0.00
GHA telephone call	1,708	245	14.3	309	0.18	137	8.0	172	0.10
List sample persons	1,004	193	19.2	243	0.24	109	10.9	137	0.14
Household members, present .	248	29	11.7	34	0.14	21	8.5	24	0.10
Household members, not									
present	183	16	8.7	22	0.12	3	1.6	7	0.04
Household members under 17									
years	273	7	2.6	10	0.04	4	1.5	4	0.01
Non-GHA telephone call	1,708	• • •	• • •			5	0.3	6	0.00
Contacts missing type data	1,708	6	0.4	7	0.00	11	0.6	31	0.02

^{0.0} Quantity more than zero but less than 0.05.

Table 2. Agreement between interview and medical record on whether any physician contact in 2-week reference period, by type of contact

Group Health Association	Number	Number of persons with contact in medical record	Percent reported in interview	Number of persons with contact in interview	Percent confirmed by medical record
Visit					
All visits	1,708	¹ 532	77.3	531	77.4
List sample persons	1,004	¹430	78.1	422	79.6
Household members, present	248	¹45	84.4	57	66.7
Household members, not present	183	¹ 32	46.9	21	71.4
Household members under 17	273	¹ 25	0.88	31	71.0
Telephone call					
All telephone calls	1,708	245	31.0	137	55.5
List sample persons	1,004	193	33.7	109	59.6
Household members, present	248	29	31.0	21	42.9
Household members, not present	183	16	6.3	3	33.3
Household members under 17	273	7	14.3	4	25.0

¹X=19.96, p<.001.

^{...} Category not applicable.

Table 3. Contact-level agreement between interview and medical record, by contact type

Sample type	Number of contacts in medical record	Percent reported in interview	Number of contacts in interview	Percent confirmed by medical record
Group Health Association (GHA) visits	745	68.2	760	67.9
List sample persons	611	72.2	613	69.7
Household members, present	61	77.0	80	58.8
Household members, not present	46	43.5	33	57.6
Household members under 17 years	27	85.2	34	67.6
GHA telephone calls	309	28.5	172	49.4
List sample persons	243	29.6	137	51.1
Household members, present	34	32.4	24	41.7
Household members, not present	22	22.7	7	57.1
Household members under 17 years	10	10.0	4	25.0

Table 4. Person-level agreement between interview and medical record on number of Group Health Association visits in 2-week reference period, by list-sample persons

Number of Group Health	Number of GHA visits recorded in medical record									
Association (GHA) visits reported in interview	0	1	2	3	4	5	6	7	8	Total
Total persons	574	307	90	19	9	2	1	1	1	1,004
None	488	77	10	3	0	1	0	0	0	579
1	66	193	33	3	2	0	0	0	0	297
2	17	28	35	10	0	0	0	1	0	91
3	1	5	8	2	4	0	0	0	0	20
4	1	4	4	1	3	0	0	0	0	13
5	1	0	0	0	0	1	1	0	0	3
6	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	1	1

Table 5. Person-level agreement between interview and medical record on number of Group Health Association visits in 2-week reference period, by household members

Number of Group Health	Number of GHA visits recorded in medical record									
Association (GHA) visits reported in interview	0	1	2	3	4	5	6	7	8	Total
Total persons	602	77	20	4	0	1	0	0	0	704
None	568	22	5	0	0	0	0	0	0	595
1	26	48	8	2	0	0	0	0	0	84
2	6	6	6	1	0	0	0	0	0	19
3	2	0	1	1	0	0	0	0	0	4
4	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	1	0	0	Ó	1
7	0	1	0	0	0	0	0	0	0	1

Table 6. Person-level agreement, overreporting, and underreporting by number of visits reported, list-sample persons only

		Percent					
Number of Group Health Association visits	Number of persons	Agreeing with medical records	Overreporting	Underreporting			
Medical record							
None	574	85.0	15.0				
1	307	62.9	12.1	25.1			
2	90	38.9	13.3	47.8			
3 or more	33	18.2	0.0	81.8			
Interview							
None	579	84.3	•••	15.7			
1	297	65.0	22.2	12.8			
2	91	38.5	49.5	12.1			
3 or more	37	16.2	67.6	16.2			

^{...} Category not applicable.

Table 7. Person-level agreement, overreporting, and underreporting by number of visits reported, household members only

			Percent	
Number of Group Health Association visits	Number of persons	Agreeing with medical records	Overreporting	Underreporting
Medical record				
None	602	94.4	5.6	• • •
1	77	62.3	9.1	28.6
2 or more	25	28.0	8.0	64.0
Interview				
None	595	95.5		4.5
1	84	57.1	31.0	11.9
2 or more	25	28.0	68.0	4.0

^{...} Category not applicable.

Table 8. Person-level agreement, overreporting, and underreporting by number of visits reported, previous studies

				Percent ²			
Number of visits	Number¹	Overreporting	Underreporting	Agreeing with medical records	Number ²	Underreporting one question	With probes
Medical record							
None	1,618	4.6	• • •	95.4			
1	269	7.1	19.3	73.6	131	29	27
2	98	8.2	40.8	51.0	118	37	29
3 or more	55	23.6	38.2	38.2	154	25	15
Interview							
None	1,604	•••	3.7	96.3			
1	303	21.5	13.2	65.3			
2	85	31.8	9.4	58.8			
3 or more	48	45.8	10.4	43.8		•••	

^{...} Category not applicable.
¹Cartwright (7).

^{0.0} Quantity more than zero but less than 0.05.

²Cannell and Fowler (6).

Table 9. Interview reporting of physician contacts in medical record, by day of reference period contact occurred

		Group Health	Association visits		Group Health Association telephone calls		
	List samp	le persons	Household i	nembers	List sample persons		
Day of reference period contact occurred	Number of contacts in medical record	Percent reported in interview	Number of contacts in medical record	Percent reported in interview	Number of contacts in medical record	Percent reported in interview	
First week	315	63.5	72	59.7	137	29.9	
Day 1	53	64.2	8	50.0	36	25.0	
Day 2	80	68.8	12	66.7	28	21.4	
Day 3	63	58.7	8	62.5	29	44.8	
Day 4	68	61.8	23	69.6	25	28.0	
Day 5	38	63.2	14	42.9	17	35.3	
Day 6	7	57.1	5	60.0	1	0.0	
Day 7	6	66.7	2	50.0	1	0.0	
Second week	295	76.9	62	72.6	107	28.0	
Day 8	54	75.9	8	75.0	23	21.7	
Day 9	83	75.9	12	83.3	22	31.8	
Day 10	53	79.2	20	50.0	25	24.0	
Day 11	60	0.08	9	100.0	18	27.8	
Day 12	40	0.08	10	70.0	19	36.8	
Day 13	2	0.0	1	100.0	_		
Day 14	3	33.3	2	100.0	-		

^{0.0} Quantity more than zero but less than 0.05.

Table 10. Interview reporting of physician contacts in medical record, by day of week of interview

	G	iroup Health A	ssociation visits		Group Health Association telephone calls				
Day of interview	List sample persons		Household members		List sample	persons	Household members		
	Number of contacts in medical record	Percent reported in interview	Number of contacts in medical record	Percent reported in interview	Number of contacts in medical record	Percent reported in interview	Number of contacts in medical record	Percent reported in interview	
All days	611	70.1	134	66.4	244	29.1	66	24.2	
Sunday	34	50.0	8	75.0	28	14.3	2	0.0	
Monday	71	70.4	12	83.3	40	25.0	6	16.7	
Tuesday	101	74.3	22	77.3	11	27.3	15	33.3	
Wednesday	129	76.0	27	66.7	29	42.9	13	30.8	
Thursday	103	69.9	20	60.0	44	31.8	14	21.4	
Friday	73	74.0	16	68.8	50	40.0	8	37.5	
Saturday	100	62.0	29	51.7	42	19.0	8	0.0	

^{0.0} Quantity more than zero but less than 0.05.

⁻ Quantity zero.

⁻⁻⁻ Data not available.

Table 11. Medical record confirmation of interview-reported physician visits to Group Health Association, by day of reference period

	List san	nple persons	Housel	nold members
Day of contact of reference period	Number of contacts in interview	Percent reported in medical record	Number of contacts in interview	Percent reported in medical record
First week	293	67.9	68	63.2
Day 1	56	66.1	12	58.3
Day 2	72	63.9	11	63.6
Day 3	59	72.9	9	77.8
Day 4	50	74.0	15	80.0
Day 5	40	65.0	12	50.0
Day 6	11	54.5	3	66.7
Day 7	5	80.0	6	33.3
econd week	302	71.9	73	61.6
Day 8	51	72.5	15	53.3
Day 9	75	74.7	12	66.7
Day 10	58	79.3	17	70.6
Day 11	51	76.5	10	60.0
Day 12	63	58.7	13	53.8
Day 13	3	33.3	3	33.3
Day 14	1	100.0	3	100.0

Table 12. Medical record confirmation of interview-reported physician visits, by day of week of interview

	List san	ple persons	Household members		
Day of interview	Number of contacts in interview	Percent reported in medical record	Number of contacts in interview	Percent reported in medical record	
All days	613	69.7	147	60.5	
Sunday	26	65.4	10	60.0	
Monday	76	65.8	16	62.5	
Tuesday	105	71.4	33	51.5	
Vednesday	133	72.9	29	62.1	
Thursday	91	79.1	17	70.6	
riday	93	58.1	19	57.9	
Saturday	89	69.7	23	65.2	

Table 13. Persons with visits just outside of reference period, by agreement on whether any visit in reference period

Agreement		visit in a	s with a 2 weeks ence period	Persons visit betwe of referenc and inte	en end e period
	Number	Number	Percent	Number `	Percent
otal	1,004	427	42.5	111	11.1
ositive match ¹	339	156	46.0	54	15.9
verreport ²	86	44	51.2	7	8.1
Inderreport ³	91	40	44.0	13	14.3
legative match4	488	187	38.3	37	7.6

¹"Positive match" is a person with one or more visits in both interview report and medical record.

²"Overreport" is a person with one or more visits in the interview and none in the medical record.

^{3&}quot;Underreport" is a person with one or more visits in the medical record and none in the interview.

^{4&}quot;Negative match" is a person with a visit in neither source.

Table 14. Agreement of interview and medical record on 2-week Group Health Association visits, by list-sample person characteristics

Characteristic	Number	Number of persons with contact in medical record	Percent reported in interview	Number of persons with contact in interview	Percent confirmed by medical record	Net overreport by interview
Age		******				
18–44 years	311	116	81.0	132	¹ 71.2	13.8
45–64 years	372	162	78.4	148	¹85.8	-8.6
65–74 years	191	85	78.8	81	¹ 82.7	-4.7
75 years and over	130	67	76.1	64	179.7	-4.5
Sex						
Male	459	185	² 71.9	169	78.7	-8.6
Female	545	245	² 84.1	256	80.5	4.5
Race						
Black	674	281	79.0	280	79.3	-0.4
Other	330	149	78.5	145	80.7	-2.7
Income						
\$0–\$19,999	141	68	83.8	75	76.0	10.3
\$20,000–\$29,999	113	57	82.5	58	81.0	1.9
\$30,000-\$49,999	236	102	74.5	92	82.6	- 9.8
\$50,000 and over	284	112	78.6	109	80.7	-2.6
Education						
Less than 12 years	168	77	³ 79.2	70	87.1	-9.1
High school graduate	305	129	³ 72.1	118	78.8	- 8.5
Some college	204	82	³ 76.8	81	77.8	-1.2
College graduate	320	139	³ 86.3	154	77.9	10.8
Employment and age						
Employed:						
65 years and over	544	232	80.2	229	81.2	-1.2
18–64 years	218	95	77.9	94	78.7	-1.0
65 years and over	121	48	79.2	51	74.5	6.3
18–64 years	117	53	73.6	49	79.6	<i>-</i> 7.5
Health status						
Excellent	203	64	73.4	61	77.0	-4.7
Very good	293	133	75.9	128	78. 9	-3.8
Good	296	133	82.0	135	80.7	1.6
Fair or poor	200	94	83.0	97	80.4	3.2

¹Chi-sq.=9.77, df=3, p<.05.

²z=3.07, p<.01.

³Chi-sq.=8.40, df=3, p<.05.

⁴includes retired, unemployed, and homemakers.

Table 15. Summary of differences in reporting ambulatory medical visits, by respondent characteristics

Characteristic	Effect	Reference(s)
	Underreporting	
Age:		
Advancing age	More	Cleary and Jette (1984)(13); Balamuth (1965)(2
Under age 55	Less	Cannell and Fowler (1963)(6)
Over 65 females ¹	Less	Feather (1972)(9)
Sex:		
Females under 45	Less	Cannell and Fowler (1963); (6)HIES(1)
Females 45–65 ²	Less	Feather (1972)(9)
Education:		
College graduates	Less	HIES(1)
Health status:		• •
Persons with many health conditions	Less	Cannell and Fowler (1963)(6)
Persons with restricted activity	Less	Cannell and Fowler (1963)(6)
Other:		
Lowerst SES ³ category	Less	Feather (1972)(9)
HMO ⁴ membership	· More	Cleary and Jette (1984)(13)
	Overreporting	
Age:	, -	
Persons 65 years and over	Less	Feather (1972)(9)
Oldest adult in household 65 or over	More	Andersen et al. (1979)(11)
Persons 18–45	More	HIES(1)
Sex:		=5(.)
Male	More	Feather (1972)(9)
Race:		(//-/
Non-white	More	Andersen et al. (1979)(11)
Health status:		
Several chronic conditions	More	Cleary and Jette (1984)(13)
Persons in fair or poor health	More	Andersen et al. (1979)(11)
Presence of limiting illness	More	Cleary and Jette (1984)(13)
More demoralized	More	Cleary and Jette (1984)(13)
Other:	111010	along and done (100 l)(10)
Belief in regular checkups	More	Cleary and Jette (1984)(13)
manai iti iadaimi aitaanaha		2.22.7 2 22 (.00 //(.0)

¹Compared with younger females. ²Compared with males 45–64 years of age. ³SES is socioeconomic status.

⁴HMO is Health Maintenance Organization.

Appendix

Contents	
Health Interview Evaluation Survey questionniare	29

Appendix I Health Interview Evaluation Survey Questionnaire

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HEA 6a. What is yo county and	LTH IN	ACTIN.	WESTAT, INC IG AS COLLECTING AS S. PUBLIC HEALTH	GENT FOR THE SERVICE				8			. of b	ooks									
6a. What is yo county and	our exact ad	ITERVI	EW EV		ION		١,						1. 8ook of books								
county and	our exact ad d ZIP Code)	dress? (Includ				SURVEY	-	-5. N	от аррі	licat	ble this form										
City		ia. What is your exact address? (Include House No., Apt. No., or other identification, county and ZIP Code)					1	I. Noni													
City							0	TYPE A 01 Refusal Describe in footnotes 02 No one at home, repeated calls)										
	·	<u>i</u>	tate	County	† 	ZIP Code		∃ ∐ Temp L ☐ Other			Footnote	Fill items									
b. Is this you Include cod	b. Is this your mailing address? (Mark box or specify if different. Same as 6a Include county and ZIP Code.)										1 – 6a, 10, and 12 – 15										
Čity			State	- - _T	Caustu																
		plicable this f		1	County	ZIP Code	_	5. Reco	ora or c				Com								
10. CLASSIFIC				by observatio	n		\exists	Month	Date	٠	Beginning time	Ending time	piete Mari (X)								
Items 10 a	-	plicable this for					1,			P T	a.m. p.m.	å.m. p.m.									
01□ House 02□ HU in	e, apartment, f nontransient h		.				2		1	P T	a.m. p.m.	a.m. p.m.									
04∐ HU in 05∏ Mobile	rooming house e home or trails	e er with no perm er with one or m	anent room ad				3			P T	a.m. p.m.	a.m. p.m.									
	ot specified abo	ove — Describe — — — — — —							1	PΥ	a.m. p.m.	a.m. p.m.									
oa□ Quarte	ers not HU in re	ooming or board in transient hote	ding house				5			P T	p.m.	a.m, p.m.	ļ								
10∐ Unoco	cupied site for nt quarters in c	mobile home, tr college dormitor	railer, or tent ry				6		į L	P T	8.m. p.m.	a.m, p.m.									
12 ∐ Other	unit not specif	ied above — De	escribe in footr		20.3		10				ble this form										
	OUSEHOLD	COMPOSITI						7. Reco	Date		tional contac Beginning time	Ending time	Com plete Man								
11. What is the	e telephone ¦	Area code/n	umber			rview observed?				P	a.m. p.m.	a.m.	"ix"								
None	; !				10	Yes 2 □No	2			P	a.m.	a.m. p.m.									
3a. Interviewer	r's name		Code	b. Languag			3				a.m. p.m.	a.m.									
			1 1	1 DEnglis		☐ Both English and Spanis ☐ Other	4				a.m. p.m.	a.m. p.m.	-								

							Old age
	A. HOUSEHOLD COMPOSITION PAGE				······································	1	<u></u>
1a.Wh	at are the names of all persons living or staying here? Start with the name of the	perso	n or	1.	First name	Mic	d. init. Age
b. What are the names of all other persons living or staying here? Enter names in columns.							Sex 1 M
names in columns							2□ F
c. I have listed (read names). Have I missed: — any bables or small children?					Date of birth Month	PERSON	
⊸ 8	ny lodgers, boarders, or persons you employ who live here?	🗇	🗖		i		Year
— anyone who USUALLY lives here but is now away from home traveling or in a hospital?						ORK RD	
i	inyone else staying here?				l] w₃ 1□ 1] wь 2□ 1	(ex
d. Do	all of the persons you have named usually live here?	O MEA	ADEDCUID	3/25	LIAMINIDAL I	1	Number
Pro	be if necessary: RULES. Delete nonhou	usehold i	members	C2			
Do	es —— usually live somewhere else?	2 and 811	to: reason.,		TA TRA	TINJ.T	CELTALHSTCOND
Į.	for all persons beginning with column 2:			1		L	
	at is —— relationship to <u>(reference person)?</u>				LA TRA	ו.נאון ייסו	CELTRI HSTCONO
3. Wh	at is —— date of birth? (Enter date and age and mark sex.)				i	<u> </u>	
	REFERENCE PERIODS]	 	. K. F. T. T.	CLITA: HSTCOND
	2-WEEK PERIOD		, ,	1	LA INA		LINI HSICOND
A1				-			
	12-MONTH DATE				LA TRA	ו עמון עם	CLLTRI HSTCOND
	13-MONTH HOSPITAL DATE				i	<u>i i i</u>	
10				-	LA - TRA -	IN THE	CLETRI HETCOND
A2	ASK CONDITION LISTS 1,2, and 3.						
	李·秦·明皇帝 李·昭 李 秦 秦 秦 李 秦 帝 帝 帝 帝 帝 帝 帝 帝 帝 帝 帝 帝 帝 帝		ure", i	70	* 2 m		
АЗ	Refer to ages of all related HH mambers.			А3		ns 65 and ov	
					Other (4		
4a. Arı	e any of the persons in this family now on full-time active by with the armed forces?		□ No (5)				
b. Wi	no is this?			-			
	Delete column number(s) by an "X" from 1—C2.						# _ T ^{_1}
c. An	yone else? Yes (Reask 45 and d	;)	□No			11.34	
A W	k for each person in armed forces: tere does —— usually live and sleep, here or somewhere else?			4d.	Living at		
Ma	rk box in person's column.				☐ Not livin	g at home	
If n	elated persons 17 and over are listed in addition to the respondent and are not present	, say:	. ,		100		
Ar.	would like to have all adult family members who are at home take part in the ir a <u>(names of persons 17 and over)</u> at home now? If "Yes," ask: Could they join us?	(Allow t	v. ime)				100
	ad to respondent(s):						
ho	is survey is being conducted to collect information on the nation's health. I will spitalizations, disability, visits to doctors, illness in the family, and other health	related	out litems.				
	HOSPITAL PROBE			6a.	1 🗆 Yes		
6a. Sir	ce (<u>13-month hospital date)</u> a year ago, was —— a patient in a hospital OVERNIG	HT?		04.	2 No (Mar.	k "HOSP." b	ox, THEN NP)
b. Ho	w many different times did —— stay in any hospital overnight or longer since			┨~~		7	(Meke entry in
123	i-month hospital date) a year ago? 🗸			ь.	Number of	times	"HOSP." box THEN NP)
			247 Cm:				
	k for each child under one: 18 —— borû in a hospital?			7a.	1 🗆 Yes		
				1	2 No (NP)		
	s for mother and child: we you included this hospitalization in the number you gave me for ——?			b.	Yes (NP.) rect 6 and "H	OSP " boyl
FOOTN					1		
	•						

Page 2.

FORM HIS-1 (Evaluation) (2-1-90)

			☐ Old age			
	A. HOUSEHOLD COMPOSITION PAGE		1			
	t are the names of all persons living or staying here? Start with the name of the person or of the persons who owns or rents this home. Enter name in REFERENCE PERSON column.	1.	First name Mid. init. Age			
	·	,	Last name Sex			
b. Wha	t are the names of all other persons living or staying here? Enter names in columns. If "Yee," enter names in columns		2□F Relationship			
	re listed (read names). Have I missed:	3.	REFERENCE PERSON			
	ry bables or small children?	3.	Date of birth Date Year			
an	yone who USUALLY lives here but is now away from home		HOSP. WORK RD 2-WK. DV			
	aveling or in a hospital?	C.	00 None 1 Wa 1 Yes 00 None			
		_ا ا	Number 2 Wb 2 No Number			
d. Do a	ill of the persons you have named usually live here? Yes (2) No (APPLY HOUSEHOLD MEMBERSH	ne 🖭	TENHAMAT S. S. A. S.			
Prob	e if necessary: RULES. Delete nonhousehold membe by an "X" from 1—C2 and enter reas	s C				
Dos	s usually live somewhere else?		LA TRA IDV TINJ. TOLETRI HSTOOMS.			
Ask	for all persons beginning with column 2:					
2. Wha	t is relationship to (reference person)?	- 1	LA TRA TOV TINJ. TOUTRI HISTOONO.			
3. Wha	t is date of birth? (Enter date and age and mark sex.)		i i i i i i i			
	REFERENCE PERIODS					
·	REFERENCE PERIODS		LA TRA TOV TIND. TOLLTRI HSTOOND.			
	2-WEEK PERIOD	- 1				
A1						
	12-MONTH DATE		LA TRA TOV TINJ. CLETRI HSTCOND.			
j	13-MONTH HOSPITAL DATE					
	15-MONTH ROOFHALDATE		LA TRA TOV TINJ. TCLLTRI HSTCON			
A2	ASK CONDITION LISTS 1,2, and 3.					
1		374 TE	A COLUMN EN POLICIO			
42		A	All persons 65 and over (6)			
A3	Refer to ages of all related HH members.	[]	Other (4)			
	B. LIMITATION OF ACTIVITIES PAGE					
B1	Refer to age.	В				
			2 Other (NP)			
1. Wha	it was —— doing MOST OF THE PAST 12 MONTHS; working at a job or business, ping house, going to school, or something else?	11.	1 =			
	rity if 2 or more activities reported: (1) Spent the most time doing; (2) Considers the most important	. [2 Going to school (5)			
			4 Something else (5)			
2a. Doe	s any impairment or health problem NOW keep —— from working at a job or business?	24	1 Yes (7) No			
b. Is -	- limited in the kind OR amount of work $ -$ can do because of any impairment or health proble	m? t	2 Yes (7) 3 No (6)			
3a. Doe	s any impairment or health problem NOW keep —— from doing any housework at all?	31	1. 4 Yes (4) No			
	— limited in the kind OR amount of housework —— can do because of any impairment eaith problem?	-). 5 ☐ Yes (4) 6 ☐ No (5)			
	earth problem?					
	if injury or operation: When did [the (injury) occur?!—— have the operation?] if operation over 3 months ago: For what condition did —— have the operation?	4:	(Enter condition in C2, THEN 4b)			
If pro	egnancy delivery or 0—3 months injury or operation —		1 ☐ Old age (Mark "Old age" box, THEN 4cl			
	Reask question 3 where limitation reported, saying: Except for —— <u>(condition),?</u> OR reask 4b/c.		THEN 4cl			
b. Besi	ides (<u>condition)</u> is there any other condition that causes this limitation?		Yes (Reask 4e and b)			
-			□ No (4d)			
c. is th	is limitation caused by any (other) specific condition?	٠ ١	Yes (Reask 4a and b)			
			- 			
	k box if only one condition. ch of these conditions would you say is the MAIN cause of this limitation?		I. □Only 1 condition			
			Main cause			
5a. Dos	s any impairment or health problem keep —— from working at a job or business?	54	1 Yes (7) No			
b. ls –	 limited in the kind OR amount of work —— could do because of any impairment or health prol 	lem? E	2 Yes (7) 3 No			
B2	Refer to questions 3a and 3b.	В				
	Tieves to questions de and do.		2 Char (6)			
6a. ls —	- limited in ANY WAY in any activities because of an impairment or health problem?	64	1 🗆 Yes 2 🗀 No (NP)			
b. In w	hat way is limited? Record limitation, not condition.	1	·			
			Limitation			
	it (other) condition causes this? If Injury or operation When did [the (injury) occur?! —— have the operation?]	71	(Enter condition in C2, THEN 7b)			
Ask	of operation over 3 months ago. For what condition did have the operation?		1 Old age (Mark "Old age" box, THEN 7c)			
F	egnancy delivery or 0 — 3 months injury or operation — Reask question 2, 5, or 6 where limitation reported, saying: Except for — — <u>icondition), ?</u>	İ	THEN TEL			
	OR reask 7b.c.					
b. Besi	ides (<u>condition)</u> is there any other condition that causes this limitation?	l t	Yes (Reask 7s and b)			
e lest	is limitation caused by any (other) specific condition?		☐ No (7d)			
IB (II		'	Yes (Reask 7a and b)			
Mari	k box if only one condition.	1	1			
	ch of these conditions would you say is the MAIN cause of this limitation?	1	I. Unity 1 condition			

Page 4

	A. HOUSEHOLD COMPOSITION PAGE			Old age
1a.	What are the names of all persons living or staying here? Start with the name of the person or	1.	First name	Mid. init. Age
•	one of the persons who owns or rents this home. Enter name in REFERENCE PERSON column.	1	Lest name	
ь. ч	What are the names of all other persons living or staying here? Enter names in columns. If "Yas," enter		Last name	Sex 1
	names in columns	2.	Relationship	
	have listed (read names). Have I missed: — any bables or small children?	з.	Date of birth Month	ERSON
	any lodgers, boarders, or persons you employ who live here?		Month De	ate 'Year
	- anyone who USUALLY lives here but is now away from home traveling or in a hospital?		HOSP. WO	
	anyone else staying here?	CT	1 =	Wa 1□ Yes 00 Nor
d.	Do all of the persons you have named usually live here? Yes (2)	6	MILLIDER	Wb 2□ No Number
	L.) NO JAPELT GOUGEGULD MEMBERSHIP #	C2	<u> </u>	
	by an "X" from 1—C2 and enter reason.) Does —— usually live somewhere else?	1	LA TRA ID	V TINJ. TCELTRI HSTCO
	Ask for all persons beginning with column 2:	-		
	What is relationship to (reference person)?			
	What is — — date of birth? (Enter date and age and mark sex.)		TAT TRATIO	TINJ.TCTTRIHSTCOM
		Ī		
	REFERENCE PERIODS	-	LA TRATIO	TINJ.TCELTRI HSTCO
	2-WEEK PERIOD	1		
A	₹	Ì		\
	12-MONTH DATE	[LA TRA I	TINJ. TCCTRI HSTCO
	13-MONTH HOSPITAL DATE	t	<u>-</u>	
A ·		}	LA TRA TE	TINU. TOUTH HETCON
A	ASK CONDITION LISTS 1,2, and 3.			
		ŭ÷.		
			7	2 1 1 6 4 8 4 5 E
В	3 Refer to age.	B3	0 Under 5	5 (10) 2 18-69 (NP)
			1 🗆 5 – 17 ((11) 3 0 70 and over (8)
8.	What was —— doing MOST OF THE PAST 12 MONTHS; working at a job or business, keeping house, going to school, or something else?	8.	1 Working	
	Priority if 2 or more activities reported: (1) Spent the most time doing; (2) Considers the most important.		3 Going to	
				ning else
	Because of any impairment or health problem, does —— need the help of other persons with —— personal care needs, such as eating, bathing, dressing, or getting around this home?	9a.	1 🗆 Yes (73	3) 🗆 No
b	Because of any impairment or health problem, does —— need the help of other persons in handling —— routine needs, such as everyday household chores, doing necessary business, shopping, or	b.	2 Yes (13	
	getting around for other purposes?			.,
10a	is able to take part AT ALL in the usual kinds of play activities done by most children age?	10a.	□Yes	o 🗌 No (13)
b.	is —— limited in the kind OR amount of play activities —— can do because of any impairment or health problem?	- Б.	1 🗆 Yes (13	
11a		11a.		
	Does — attend a special school or special classes because of any impairment or health problem?		1 Yes (13	
	Does — need to attend a special school or special classes because of any impairment or	b. 	2 Yes (13	3) 🗆 No
	health problem?	⁻ €.	3 ☐ Yes (13	3) 🗆 No
d.	is —— limited in school attendance because of —— health?	đ.	4 🗆 Yes (13	 D 5□No
12a	Is — Ilmited in ANY WAY in any activities because of an impairment or health problem?	12 a .		
	In what way is —— limited? Record limitation, not condition.	- Б.	1 ☐ Yes	2 No (NP)
٠.	necord illitation, not condition.	D.		
13a	What (other) condition causes this?	13a.	 	Limitation
	Ask if injury or operation: When did ithe (injury) occur?/—— have the operation?		(Enter condit	ion in C2, THEN 13b)
	Ask if operation over 3 months ago: For what condition did —— have the operation? If pregnancy/delivery or 0—3 months injury or operation —		1 Old age	(Mark "Old age" box,
	Reask question where limitation reported, saying: Except for —— (condition),? OR reask 13b/c.		THEÑ 1	(3c)
ь.	Besides (condition) is there any other condition that causes this limitation?	- ъ.	Tyes /Pa	nask 13a and b)
			□No (130	d)
C.	is this limitation caused by any (other) specific condition?	c.	Yes (Re	rask 13a and b)
_	Mark box if only one condition.	-	+	
d.	Which of these conditions would you say is the MAIN cause of this limitation?			ANIMIN'I
				Main cause

50RM HIS-1 (Evaluation) (2-1-80)

FOOTNOTES

1a. What are the names of all persons living or staying here? Start with the name of the person or one of the persons who owns or rents this homs. Enter name in REFERENCE PERSON column. b. What are the names of all other persons living or staying here? Enter names in columns. c. I have listed (read names). Have I missed: — any bables or small children? — any lodgers, boarders, or persons you employ who live here? — anyone who USUALLY lives here but is now away from home traveling or in a hospital? — anyone else staying here? d. Do all of the persons you have named usually live here? Probe if necessary: Does — usually live somewhere else? Ask for all persons beginning with column 2: What is — relationship to (inference person)? 3. What is — date of birth? (Enter date and age and mark sex) REFERENCE PERIOD 12-MONTH DATE 13-MONTH HOSPITAL DATE Ask CONDITION LISTS 1, 2, and 3. B. LIMITATION OF ACTIVITIES PAGE, Continued	14. What are the names of all persons living or staying here? Start with the name of the person or one of the persons who owns or retarts this home. Actor parts of the person or one of the person who was or retarts this home. Actor parts of the person or one of the person of the pe				☐ Old age
one of the persons who owns or rents this home. Enter name in REFERENCE PERSON column. b. What are the names of all other persons living or stayling her? Enter names in columns. c. I have listed (read names). Have I missed:	one of the persons who owns or rents this home. Enter name in REFERENCE PERSON columns. b. What are the names of all other persons living or staying her? Enter names in columns. c. I have lited (rend names). Have I missed: any tables or small children? any tables or small children? any tables or small children? anyone who USUALY lives here but is now away from home travelling or in a hospital? anyone she staying her? d. Do all of the persons you have named usually live here? Probe if necessary: Doss — usually live somewhere elss? Ask for all persons beginning with column 2: 2. What is — relationship to defendence person? Ask for all persons beginning with column 2: 2. What is — relationship to defendence person? Ask for all persons beginning with column 2: 2. What is — relationship to defendence person? Ask for all persons beginning with column 2: 2. What is — relationship to defendence person? Ask for all persons beginning with column 2: 2. What is — relationship to defendence person? Ask for all persons beginning with column 2: 2. What is — relationship to defendence person? Ask for all persons beginning with column 2: 2. What is — relationship to defendence person? Ask for all persons beginning with column 2: 2. What is — relationship to defendence person? Ask for all persons beginning with column 2: 2. What is — relationship to defendence person? Ask for all persons beginning with column 2: 2. What is — relationship to defendence person? C2 LV Tild Tild Tild Tild Tild Tild Tild Tild	4 550	A. HOUSEHOLD COMPOSITION PAGE		1
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	-,-01		Va'' box, THEN 2)	2 🗆 No	1				THER) ti	ime c	lurin	g those 2	weeks			
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		e a job or busines	is?									miss	ed fron			
		1 ☐ Yes (Mark "V	Vb" box, THEN 2)	2 🗆 No (4)		ь. (А	gain, r	iot cou	nting the	day	(s)	miss	ed fron } in bed	ı schoo),
2a	. Dur	ring those 2 week	s, did —— miss an of illness or injury	y time from a job					d, how n						own fo	r
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			(Fig. 1)	1		5 تا			in 2—6 i re days in						7)	•
1		oo □ None (4)	No. of work-loss days	(4)		Re	fer to 2	2b, 3b,	4b, and 6	b.		Гm	iss work	. 1		_
3-			did	time from school bec		7a. W	hat (ot	her) co	ndition o	aus	ed -	a m	iss scho r) stay in	ol d	uring th	
٦		ing those 2 weeks liness or injury?	, alu — — iniss any t	11 Offi Sci1001 D8C	aust	(F)	nter co	ndition	in C2, TH	IEN 7	<i>'</i> 61		r) cut do			
ļ		□Yes	00 □ No (4)] :-	•		,			гm	iss work	. 1		
b				lays did —— miss m		b. Di	d any	other c	ondition	caus	se —	_ +o m	iss scho r) stay in	ol d	uring theriod?	ıat,
	tha	n half of the day f	rom school becaus	se of illness or injury	/7		. —	V-: 17				L (o	r) cut do			
İ			No. of school-loss days	1		500=		Yes (He	ask 7a ar	na b)		2 🗆	No			
		oo 🗆 None	L	1		FOOTN	UTES									
4a	. Dur	ing those 2 weaks,	did —— stay in bed b	ecause of illness or in	jury?	1										
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		□Yes	∞ □ No (6)													
Ь	. Dur	ing that 2-week pen half of the day be	eriod, how many da scause of illness or	ys did —— stay in bed injury?	d more											
		, -														
		∞ □ None (6)	No. of bed days	(03)												
		OO LINORE (b)	L	(D2)												

								Old age
	A. HOUSEHOLD COMPOS						1	
1 a . Wh	at are the names of all persons living or staying here? So of the persons who owns or rents this home. <i>Enter nam</i>	tart with the name of the e in REFERENCE PERSO	person o N column) r).		First name	ı	Mid. init. Age
b. Wh	at are the names of all other persons living or staying here?	Enter names in columns.	If "Yes," e	enter				Sex 1 M 2 F
c. 1 he	ive listed (<u>read names</u>). Have I missed:			No	l Ł		E PERSON	
8	ny bables or small children?				3.	Date of birt Month	Date	Year
	ny lodgers, boarders, or persons you employ who live here nyone who USUALLY lives here but is now away from hon	17			\longrightarrow	HOSP.	WORK F	D 2-WK, DV
t	raveling or in a hospital?				C1	None		1
	nyone else staying here?				ا · ا		1□ Wa 1□ 2□ Wb 2□	Yes
d. Do	all of the persons you have named usually live here?	☐ Yes (2) ☐ No (APPLY HOUSEHO	I D MEMRI	RSHIP		Number		Number
Pro	be if necessary:	RULES. Delete nonhouby an "X" from 1—C2	isehold me	mbers	C2			
Do	ss —— usually live somewhere else?	by an X non 1—C2	and enter	reasuri.,		LA TRA		. TCL LTRI HSTCOND
Ask	for all persons beginning with column 2:				1 1		1 1	-
2. Wh	at is —— relationship to (reference person)?					LA TRA	נאוז יסו־	CLITTI HSTCOND
3. Wh	at is date of birth? (Enter date and age and mark sex.)]	!_	1 !	1 1
	REFERENCE PER	IODS			1 [
	2-WEEK PERIOD		·		1 [LA TRA	נאוד ייסור	. TCLLTRI HSTCOND
A1	2-WEER PERIOD	. – – – – – – – – – –			1			
A I	12-MONTH DATE					LA IRA	יאון עם ו	. I CL LTRI HSI COND
					1 1			I I I
	13-MONTH HOSPITAL DATE							
A2	ASK CONDITION LISTS 1,2, and 3.					LA TRA	ַנאון דער דוק <u>ק</u>	TCL LTRI HSTCOND
***************************************					. 10			<u> </u>
	E. 2-WEEK DOCTOR VISITS P	ROBE PAGE			Ţ		- = ;; / }	
Re	ad to respondent(s):				18. ±			
Th	ase next quastions are about health care received during t	he 2 weeks outlined in re	d on that c	elendar.			, <u>, , , , , , , , , , , , , , , , , , </u>	المستنسب أأسام
E 1	Refer to age.				E1		der 14 <i>(1b)</i> and over <i>(1a)</i>	ı
of	ring those 2 weeks, how many times did —— see or tall doctors, such as dermatologists, psychiatrists, and opi actitioners and osteopaths.} (Do not count times while :	nthalmologists, as well a	is general	i	1a. and	00 No	ne }	
b. Du	ring those 2 weeks, how many times did anyone see or o not count times while an overnight patient in a hospit	talk to a medical doctor			b.	Numbe	r of times	(NP)
b. Di (D	uring those 2 weeks, how many times did anyone see or o not count times while an overnight patient in a hospit	talk to a medical doctor al.)	about	-3	b.	Numbe	r of times	
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b. Do (D) 2a. (B) from (B) fr	aring those 2 weeks, how many times did anyone see or o not count times while an overnight patient in a hospit esides the time(s) you just told me about) During those is alth care at home or go to a doctor's office, clinic, hospit me nurse or anyone working with or for a medical doctoring that the patient in a hospital. The received this care? Mark "DR Visit" box in person's convened this care? Mark "DR Visit" box in person's convened this care of the person with "DR Visit" in 2b: own many times did — receive this care during that period the time(s) you already told me about) During the tany medical advice, prescriptions or test results over the yone working with or for a medical doctor? The was the phone call about? Mark "Phone call" box in pare there any calls about anyone else? Add numbers in 1, 2d, and 3d for each person. Record tot	talk to a medical doctor al.) 2 weeks, did anyone in tital or some other places for. Do not count times to yes flumn. Yes (Reask 2b an od? See 2 weeks, did anyone he PHONE from a doctor yes erson's column.	he family? Include while an	receive care No (3a) No or No (E2)	2b. d. 3b.	Numbe	Visit	
b. Dic (D) 2a. (B) b. Wi c. An As d. Ho 3a. (B) ge an b. Wi C. Wi As d. Ho	aring those 2 weeks, how many times did anyone see or o not count times while an overnight patient in a hospit esides the time(s) you just told me about) During those is alth care at home or go to a doctor's office, clinic, hospit me nurse or anyone working with or for a medical doctoring that the patient in a hospital. The received this care? Mark "DR Visit" box in person's convened this care? Mark "DR Visit" box in person's convened this care of the person with "DR Visit" in 2b: own many times did — receive this care during that period the time(s) you already told me about) During the tany medical advice, prescriptions or test results over the yone working with or for a medical doctor? The was the phone call about? Mark "Phone call" box in pare there any calls about anyone else? Add numbers in 1, 2d, and 3d for each person. Record tot	talk to a medical doctor al.) 2 weeks, did anyone in tital or some other places for. Do not count times to yes flumn. Yes (Reask 2b an od? See 2 weeks, did anyone he PHONE from a doctor yes erson's column.	he family? Include while an	receive care No (3a) No or No (E2)	2b. d. 3b.	Numbe	Visit	

			
	A. HOUSEHOLD COMPOSITION PAGE		☐ Old age
	that are the names of all persons living or staying here? Start with the name of the person or	_	1. First name Mid. init. Age
	ne of the persons who owns or rents this home. Enter name in REFERENCE PERSON column. It is a staying here? Enter names in columns. If "Yes," enter names in columns.		Last name Sex 1 ☐ M 2 ☐ F
c. l	have listed (read names). Have I missed:		2. Relationship REFERENCE PERSON 3. Date of birth
	any bables or small children?		3. Date of birth Month Date Year
	anyone who USUALLY lives here but is now away from home traveling or in a hospital?		HOSP. WORK RD 2-WK. DV
-	anyone else staying here?		C1 00 None 1 Wa 1 Yes 00 None
d. E	o all of the persons you have named usually live here? Yes (2)		Number 2 Wb 2 No Number
F	robe if necessary: \textsize	5	C2
E	by an "X" from 1—C2 and enter reasonous —— usually live somewhere else?	n.)	LA TRA TIDY TINJ. TCLLTRI HISTOCHO
-	sk for all persons beginning with column 2:		1 1
	that is —— relationship to <u>(reference person)?</u>		בב - זאב יוסע זומט. זכנעדאו History
3. ¥	that is — — date of birth? (Enter date and age and mark sex.)]
	REFERENCE PERIODS		TA TRA TIDY TINJ. TOTUM HISTORIA
	2-WEEK PERIOD		
A1	<u>-</u>		
	12-MONTH DATE		LA IRA IDV INJ. I CLLTRI HSI COND
	13-MONTH HOSPITAL DATE		
A:	ASK CONDITION LISTS 1,2, and 3.		LA TRA LOV TINJ. TCLLTRI HSTCONO
	F. 2-WEEK DOCTOR VISITS PAGE	DRV	VISIT 1
R	efer to C1, ''2-WK. DV'' box.	PE	RSON NUMBER
F1	Refer to age.	F1	Under 14 (1b) 14 and over (1s)
b.	On what (other) date(s) during those 2 weeks did —— see or talk to a medical doctor, nurse, or doctor's assistant? On what (other) date(s) during those 2 weeks did anyone see or talk to a medical doctor, nurse, or doctor's assistant about ——?	1a. and b.	(2222 [*] 311 wash
c.	Ask after last DR visit column for this person: Were there any other visits or calls for —— during that period? Make necessary correction to 2-Wk. DV box in C1.	-c:	1 Yes (Reask 1a or b and c) 2 No (Ask 2-6 for each visit)
28.	Where did —— receive health care on (<u>date in 1)</u> — at a GHA medical center or somewhere else, or was this a telephone call? If telephone call: Was this call to GHA or somewhere else?	2a.	To (risk 2-0 for each west) To GHA Med. Center (b) Somewhere else (c) Somewhere else (c) Phone call somewhere else (c)
b.	Which GHA medical center was that?	ъ.	
c.	Where was that? Record full name of place.	c.	
d.	What kind of place is that — a doctor's office, clinic, hospital, or some other kind of place?	d.	Not le hospital: Hospital:
3a.	Ask 3b if under 14. Did —— actually talk to a medical doctor?	3a. and	1 ☐ Yes (<i>3d</i>) 8 ☐ DK if M.D. (<i>3c</i>)
Ь.	Did anyone actually talk to a medical doctor about?	.b.	2 No (3c) 9 DK who was seen (4)
	What type of medical person or assistant was talked to?	c. d.	
	What was the doctor's name?		99 DK
	Is that doctor a general practitioner or a specialist? What kind of specialist? Ask 4b if under 14.	f.	1 ☐ GP (4) 2 ☐ Specialist (31) 9 ☐ DK (4)
	For what condition did —— see or talk to the [doctor/[entry in 3c]] on Idate in 1? Mark first appropriate box.	and b.	1 Condition (Item C2 THEN 4g) 2 Pregnancy (4e) 3 Test(s) or examination (4c)
	For what condition did anyone see or talk to the [doctor/(entry in 3c/] about —— on <u>(date in 1</u> /? Mark first appropriate box.	-	8 Other (Specify)
	Was a condition found as a result of the [test[s]/exemination]? Was this [test/examination] because of a specific condition — — had?	c. d.	Yes (4h) No
٠.	During the past 2 weeks was —— sick because of her pregnancy?	•	Yes No (4g)
	What was the matter?	f.	(Item C2. THEN 4g)
	During this [visit/call] was the [doctor/ <u>(entry in 3c)</u>] talked to about any {other) condition? What was the condition?	g. h.	S Yes No 151 Pregnancy (4e) (Item C2, THEN 4g)
5a.	Mark box if "Telephone" in 2. Did —— have any kind of surgery or operation during this visit, including bone settings and stitches:	5a.	O Telephone in 2 (Next 1 Yes 2 No (6)

b.

6.

(2)

City County

State ZIP Code

Yes (Reask 5b and c)

□No

b. What was the name of the surgery or operation? If name of operation not known, describe what was done.

c. Was there any other surgery or operation during this visit?

Go to next DV if "Home" or "GHA medical center" in 2.

			☐ Old age
4 - 1	A. HOUSEHOLD COMPOSITION PAGE		1
18.4	What are the names of all persons living or staying here? Start with the name of the person or one of the person or one of the persons who owns or rents this home. Enter name in REFERENCE PERSON column.	1.	First name Mid. Init. Age
	What are the names of all other persons living or staying here? Enter names in columns. If "Yes," enter names in columns have listed (read names). Have I missed:	2.	Last name Sex 1 M M 2 F
ı	- any bables or small children?	3.	Date of birth
-	any lodgers, boarders, or persons you employ who live here?		Month Date Year
-	anyone who USUALLY lives here but is now away from home traveling or in a hospital?		HOSP. WORK RD 2-WK. DV
-	- anyone else staying here?	CT	00 None 1 Wa 1 Yes 00 None
d. I	Do all of the persons you have named usually live here?	8728	Number 2 Wb 2 No Number
,	□ No (APPLY HOUSEHOLD MEMBERSHIP Probe if necessary: RULES. Delete nonhousehold members	C2	
l	by an "X" from 1—C2 and enter reason	, 52	LAT TRA TIDY TINJ. TOUTHI HISTOOND.
	Ask for all persons beginning with column 2:	-	
	What is — relationship to (reference person)?		
	What is —— date of birth? (Enter date and age and mark sex.)	-	LA TRA I DV TINJ. TCLTTRI HSTCOND.
	REFERENCE PERIODS	-	
	THE ENERGY PERIODS	-	LA TRA TIDY TINJ. TOUTRI HISTOOND.
	2-WEEK PERIOD	_	
A'	I		LA TRA I DV TINJ. I CLLTRI HSTCOND.
		-	1 1 1 1 1 1
	13-MONTH HOSPITAL DATE	_ .	
A:	ASK CONDITION LISTS 1,2, and 3.	1	LA TRA I DV TINJ. TCELTRI HSTCOND.
Your Vind	The second of th	i Andri	
	G. HEALTH INDICATOR PAGE	ئەۋ ئ	
1a.	During the 2-week period outlined in red on that calendar, has anyone in the family had an injury from an accident or other cause that you have not yet told me about?	1,32,5 41,77	
_	□Yes □No (2)		
	Who was this? Mark "Injury" box in person's column.	₹Б.	□ Injury
c.	What was — — injury? Enter injury(ies) in person's column.	c.	
			Injury
u.	Did anyone have any other injuries during that period? Solve (Reask 1b, c, and d) No	4	
	Ask for each injury in 1c:		☐ Yes (Enter injury in C2, THEN
•,	As a result of the (injury in 1c) did [——/anyone] see or talk to a medical doctor or assistant (about ——) or did —— cut down on —— usual activities for more than half of a day?	•.	1e for next injury)
2.	During the past 12 months, {that is, since (12-month date) a year ago} ABOUT how many days did	2.	000 None
	illness or injury keep — — In bed more than half of the day? (include days while an overnight patien in a hospital.)	١	No. of days
3a.	During the past 12 months, ABOUT how many times did [/anyone] see or talk to a medical	3a.	000 None (3b)
	doctor or assistant (about		000 Only when overnight patient in hospital
			(NP)
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		No. of visits
D.	About how long has it been since [/anyone] last saw or talked to a medical doctor or assistant (about)? Include doctors seen while a patient in a hospital.	Ь.	1 Interview week (Reask 3b) 2 Less than 1 vr. (Reask 3a)
			3 1 yr., less than 2 yrs.
			4 ☐ 2 yrs., less than 5 yrs. 5 ☐ 5 yrs. or more
			o □ Never
4.	Would you say — — health in general is excellent, very good, good, fair, or poor?	4.	
••		•	1 Excellent 4 Fair 2 Very good 5 Poor
			3 ☐Good
	Merk box if under 18. About how tall is —— without shoes?	5a.	Under 18 (NP)
04.	Want not full is Affiliant siless:		FeetInches
b.	About how much does —— weigh without shoes?	b.	†
FOOT	TNOTES	L	Pounds
	···		

													old age	_
	A. He	DUSEHOLD COMPOSITION	PAGE								1			
		s living or staying here? Start wirents this home. Enter name in RE					T	1.	First na	me		Mid. init	. Age]
	•	rsons living or staying here? Enter			if "Yes,	" enter			Last nar	ne			Sex 10 20	
c. I ha	ive listed (<u>read names)</u> . Have I	missed:			names in Yes	No	Ì		Relation REFER		RBON			\Box
	•							3.	Date of Month	birth Da	te	Yes	r	-
- 4	inyone who USUALLY lives her			• • • •			H		HOSP	. I WOF	RK	RD 2	2-WK. D	↲
	raveling or in a hospital? inyone else staying here?							C1	∞□ N	one 1 🗆 🗎	Na 1[] Yes O	o 🗆 No	•
d. Do	all of the persons you have no	amed usually live here?	s (2)		L			7 034	Numbe	81	γ b 2[Number	
	h - 14		(APPLY HO					C2	To be		1774 44	9.4.4.2	7	1
	be if necessary: as —— usually live somewher	by	an "X" froi				J [62	[<u> </u>	īrā īrō	V TIN	J. [CL LTA	i HSTCÖ	.d.
	k for all persons beginning with						\dashv			<u> </u>		<u> </u>	Ļ	\dashv
	eat is —— relationship to (refe									TR⊼ TIB	.r- 171.	IJ. Telītā	NoTest i	k.
	at is date of birth? (Enter						ᅱ			I I	1	I	Halco	
		REFERENCE PERIODS												J
									TA -	ÎRĂ "ID	V TIN	IJ. TCETA	HSTCO	HD.
	2-WEEK PERIOD									 .			, /	T
A1	12-MONTH DATE						ı		LA -	IRA I D	V Tin	IJ. T CLLTP	ii HSTCO	<u></u>
										1 L		_!	1	_]
	13-MONTH HOSPITAL DA	TE					_		L				·	L
A2	ASK CONDITION LISTS 1,2,	and 3.					- 1		LA	IRA D	V N	IJ. TCL LTF	HSICO	HD.
		H. COND	ITION LI	STS			1		<u> </u>	· · · · ·			<u></u>	
Re	ad to respondent:													
	w I am going to read you sev u have mentioned it before.	eral lists of medical conditions. I	eil me if ar	yone i	n the fa	mily has	eaci	h co	nditio	ı i read,	, 4 V81	n if		
	1a. Does anyone in the fam If "Yes," ask 1b and 1c.	nily {read names} NOW HAVE -			DURIN family l	G THE P	AST	12	MONT	HS, die	iany	one in	the	
						" ask 3b	and	3c.						
4	b. Who is this?	,	3		Who w		A 6 T	40		ue al	e			
•	c. Does anyone else NOW	l have — r in appropriate person's column.	3		else ha						•			
			-			ndition a		tter					umn.	
	A. PERMANENT stiffness or any	E. Any other trouble hearing with one or both ears?	ľ	^.	valves	ed heart		1	'-	FREC				
	deformity of the foot, leg, or back?	Dotti ears:	-[4	В.	Tachyo	ardia or		-[-	`` `				-	
	B. PERMANENT	F. Tinnitus or ringing in the ears?						-		Diabe				
	stiffness or any deformity of the		_[]			murmu		- -	к.	Migra	ilne?		ı	
·	fingers, hand, or arm?	G. Blindness in one or	11	D.	Any other	her heart ?	1						+.	
		both eyes?		F	Verico	te veins?	-	- -	1	Brone	:hitia	?	L	
	C. Any condition caused by an accident or	H. Cataracts?	71			rhoids o			- I M	. Asthr	na?			
	injury which happened more than	H, Cataracter	_	Ľ	piles?		• 	_						
	three months ago?	I. Any other trouble seeing with one or		G.	Arthriti of rheu	is or any matism?	kind	<u>'</u>	N.	. Hay f	everi	• 	.	
	D. Deafness in one or both ears?	both eyes EVEN when wearing glasses?		H.	Derma other s	titis or ar kin troub	ny sie?		0.	. Sinus	trou	ble?		
ļ	2a. Has anyone in the fami	IV EVED HAD	F001	NOTE	s	•								
	If "Yes," ask 2b and 2c.													
2	b. Who was this?													
_	c. Has anyone else EVER	had —	li l											
	Enter condition and lette	r in appropriate person's column.												
	A. Hardening of the	D. Hypertension,												
İ	arteries or arteriosclerosis?	sometimes called high blood pressure?												
	B. Congenital heart	E. Angina pectoris?												
	disease?	F. A myocardial	71											
1	h	infarction?												
	1 1													

Page 22

	A. HOUSEHOLD COMPOSITION PAGE					4	Old age
1a. Wh	at are the names of all persons living or staying here? Start with the name of the person of the persons who owns or rents this home. Enter name in REFERENCE PERSON co	on or		1.	First nam	ie l	Mid init. Age
			_		Last nam	6	Sex 1 N
	names	(es,'' enter s in columns	5	2.	Relations	hio	2 F
	we listed (read names). Have I missed: Ny babies or small children?	No 🗆	1	3.	REFERE Date of b	hip NCE PERSON irth Date	
a	ny lodgers, boarders, or persons you employ who live here?				Month	Date	Year
tı	nyone who USUALLY lives here but is now away from home raveling or in a hospital?			0.4	HOSP		2-WK. DV
	nyone else staying here?		_]	CI		1 Wa 1 C	1 !
d. Do	all of the persons you have named usually live here? Yes (2) No (APPLY HOUSEHOLD M.	FMREDCL	110	-	Number	1-0 110 110	Number
Prol	be if necessary: RULES. Delete nonhouseho by an "X" from 1—C2 and	ld member	rs	C2			
Doe	as —— usually live somewhere clse?		011.7		LA TE	ÜN∏ VŒ∏ ⊼ !!	. TCLLTŘI HSTCONI
l	for all persons beginning with column 2:]			
	at is — relationship to Ireference person?				LA IF	ᅜᄺᄀᄺᇊᅐ	TCCLTRI HSTCON
3. WIII	at is —— date of birth? (Enter date and age and mark sex.)				 		
	REFERENCE PERIODS			4	LA TE	ᄧᄺᅑᇘ	TCCLTRI HSTCON
	2-WEEK PERIOD						1 1
A1	42 MONTH DATE				L		
	12-MONTH DATE			-	LA IA	A DV TINJ.	CLLTRI HSTCON
	13-MONTH HOSPITAL DATE						
A2	ASK CONDITION LISTS 1,2, and 3.			1	LA - In	נאון יסן א	TCELTRI HSTCONO
	AND PROPERTY OF THE PROPERTY O			1	1	1 1	1 []
	J. HOSPITAL PAGE		нов	PITAL	STAY 1		
1. Re	fer to C1, "HOSP." box.		1.	PER	SON N	UMBER_	
2. Yo	u said earlier that —— was a patient in the hospital since <i>(13-month hospital date)</i> a ye o. On what date did —— anter the hospital ([the last time/the time before that])?	Par		Month	1	Date	Year
	cord each entry date in a separate Hospital Stay column.		2.				19
3. Ha	w many nights was —— in the hospital?		3.	0000	☐ None (Next HS)	
					Nig	••-	
4. For	r what condition did enter the hospital?		4.	1	□ Normal		
• F	For newborn ask: For newborn ask: For newborn ask: For newborn ask: Was this a normal delivery? Was the baby normal at birth? Why did —— enter the hos		,	2	Normal	at birth } (5)	
1	if "No," ask: • For tests, ask:	•			□ No con □ Conditi		
	If no results, ask:					•	
	Why were the tests perform	med?		_=			
			J1	ı	At leas	t one night in 2- ce period (Enter	week condition
JI	Refer to questions 2, 3, and 2-week reference period.				in C2,	THEN 5) ts in 2-week refe	
5a. Dic	i — — have any kind of surgery or operation during this stay in the hospital,		5a.		- No mgm	CS RI 2-WEEK TELE	rence period (5)
inc	cluding bone settings and stitches?		J a .	1	☐ Yes		2 ☐ No <i>(6)</i>
	nat was the name of the surgery or operation?		ъ.	(1)_			
ırn	ame of operation not known, describe what was done.						
				(3) _			
c. Wa	s there any other surgery or operation during this stay?						
					∟jYes(R	eask 5b and c)	□No
o. Wh	at is the name and address of this hospital?		6.	Name			
				Numbe	r and stre	et	
				City or	County		State
				•••			
FOOTNO	Direc.						
ORM HIS 1 (F.	valuation (2.1-90)					· · · · · · · · · · · · · · · · · · ·	
	Page 24						

													니이	o age
_			IOLD COMPOSITION						-1-			1	11-4 1-16	
			or staying here? Start with t is home. <i>Enter name in</i> REFE					1	۱۲	irst nam	ie	rv	lid. init.	Age
_	16/h-aa							1	ü	ast nam	e			Sex 1□M
D.	aaust ste me um	les of an other persons liv	ing or staying here? Enter nar	nes i	in columns.	If "Yes, names in		2	_	elations	ut.	-		2 F
	· · · · · · · · · · · · · · · · · · ·	<u>d names</u>). Have i missed :				Yes	No					RSON		
		small children?	mploy who live here?	• • •	• • • • • • •			3	. ₽	ate of b	irth Da	te	Year	l
	- anyone who US	SUALLY lives here but is	now away from home					-	+	HOSP.	Iwor	RK R	D 2-	WK. DV
								C		Noi		wa 10		None
	•				• • • • • • •				- I_	Number	_1.5.	Wb 2	N- 1-	lumber
a.	Do all of the peri	ions you have named us	· —		Y HOUSEHO	OLD MEN	IBERSHIP	, 🖭		4		1 19 m	ल कुछ।	
	Probe if necessary	/ :	RULE	S. D	elete nonho '' from 1 — C	usehold r	nembers	IC:	2					
	Does —— usuali	y live somewhere else?	by an	^	110111 1 — C	Z and em	ei ieasui	"丨	Ţ	F - 1	RĀ "ĮD	√ TINJ.	TCELTA!	HSTCOND.
	Ask for all person	s beginning with column 2	?:						-				<u>i i</u>	-
2.	What is rela	tionship to (reference pe	rson)?						l.	<u>_</u>	RĀ TIĐ	V TINT	Terran	нетсоно.
3.	What is date	of birth? (Enter date and	d age and mark sex.)							^ i			l l	HSICOND.
														$\overline{}$
			REFERENCE PERIODS					_	ī	A - T	RA TID	עאון דע.	TCLLTRI	нетсомо.
	2-WEEK PE	RIOD							-	1				
A	1													\sim
	12-MONTH	DATE							Ī	- T	RA D	V ŢINJ.	CLLTRI	ня соно.
	12.MONTH	HOSPITAL DATE							┝	i	i_	i_	<u>ii</u>	
		NOOFIIALDAIL						_	L				T-7-T-	
A	2 ASK CONDI	TION LISTS 1,2, and 3.							٦	Ā. T	RATIO	V IINJ.	CLUMI	HSTCOND.
	CON	DITION 1	PERSON NO.	i	Ask 3g if t	there is a	n impairr	nent (re	efer	to Car	d CP2)	or any	of the	
1.	Name of conditi		1. 4.10011 1101	l	following	entries ir								
				ľ	Abscess Ache (exce)	pt head or		Damage Growth			Paisy Paralys	ile.		
	Mark "2-wk. ref.	pd." box without asking i	f "DV" or "HS"	l	Bleeding (e:	xcept man		Hemorr	-	•	Ruptur			- !
2	in C2 as source.	nyone] last see or talk t	donto- ou ocaleta-t		Blood clot Boil			Infectio Inflamn		m	Sore(no			1
2.	about (cond	lition)?	o a doctor or assistant		Cancer			Neuralg	in		Tumor			ì
	0 🔲 Interview week		2 yrs., less than 5 yrs. 5 yrs. or more		Cramps (ex Cyst	cept mens		Neuritis Pain	•		Ulcer	e veine		:
	1 2-wk. ref. pd. 2 Over 2 weeks, le	_ [7]	Dr. seen, DK when		-,						Weak(r			
	3 G mos., less that	n 1 yr. 8 🗍	DK if Dr. seen } (3b)	l										1
	4 1 yr., less than 2	<u> </u>	Dr. never seen)	8.	. What par	t of the	body is a	affecte	d? .		(S	pecify	,	— I
3a.		e about —— <u>(condition</u> i) Di by a more technical or spe		l	Show the		-					•		
ŀ	1 🗆 Yes	2 🗆 No	9 □ DK		Head Back/spine									
İ	Ask 3b if "Yes" i		,	l	8lde								. left c	or right
	item 1 without as				Ear	• • • • • • •								
b.	What did he or s	he call it?	(Specify)		Arm									
	1 Color Blindness	(NC) 2 Cancer	(3a)			• • • • • • •		ent			-			
ĺ	3 Normal pregnan normal delivery,	Old age با	(NC)		Foot	• • • • • • • • • • • • • • • • • • •								
	vasectomy										5.			
C.	. What was the ca	use of —— (<u>condition in</u>	3b)? (Specify) 🕌		Except for following	r eyes, e: entries i:	ers, or in: n 3b—f:	ternai o	rgar	ns, ask	3n if t	nere ar	e any c	or the
					Infection	8	010	Soren	033					
	Mark box if accid	ent or injury	.ccident/injury (5)	h.	What par									
d.		<u>n in 3b)</u> result from an ac			sore/sore	ness]	the skir	n, mus	cie,	bone,	or soi	me oth	er par	t?
	1 Yes (5)	2 🗆 No			(Conseils)									
	Ask 3e if the con	dition name in 3b includes	any of the following words:	<u> </u>	(Specify).									
	Ailment Can		Problem		Ask if the		y of the i vet	followin Grown	_	ntries i	n 3b	t:		
	Anemia Con Asthma Cys	dition Disorder t Growth	Rupture Trouble		Is this (to		•			ant or	hanio			
	Attack Dafe		Tumor Ulcer	Ι		lalignant	_] Benign	-		о Пок			l
	u		OREST	L	100	រសម្បូបនាស	2 L	- oenign			- UUK			
	. What kind of (co	ondition in 3b) is it?		_	a. When	was —- oticed?	- (condit	ion in 3	8b/3	£]		-wk. ref.		months
			(Specify)	5				 4 lml:	 in •	_	з 🗆 с	ver 3 m	onthe to	1 year
		rgy or stroke in 3b—e: illergy/stroke] NOW affe	ect ? (Specify)	•	b. When	ala ——	iname o	ı injury	ın 3	ביים:		Over 1 ye		ears
Ι ¨		Shan and make all	1 toboonly/ 7		Ask probe	as as nec	essarv.				ه ۱۱۰	over 5 ye	#I\$	
					(Was it o	n or sinc	e (first d		2-we	eek ref	. perio	<u>d)</u>		
					or was it	before t	hat date	(\$)				_		
	Eng Construction dell	maladas adable a 1955			(Was it le						•		7)	
	effect. Enter in its	mainder of this condition p om C2 and complete a sep	page for the first present Parate condition page for	1	(Was it le		-				_			
ı	each additional p	resent effect.		ı	(Was it le	¥¥ tnan	o years	or more	e th	an o y	4=12 g	Aot)		

					age] Old a	age					Old	age				Uoı	d age
L			2					3						4						5		
1.	First name		Mi	d. init.	Age	First n	ame		Mid. i	nit. A	\ge	1.	First name		Mic	. init.	Age	First name		М	id. init.	Age
	Last name				Sex	Last n	ame			S	ex		Last name			s	ex	Last name				Sex
					1 M		•			1	□M □f					L	1 □ M 2 □ F					Sex 1 □ M 2 □ F
2.	Relationshi	р				Relatio	nship				=-	2.	Relationship				<u> </u>	Relationsh	ip			- L.J F
3.	Date of bird Month	th Date		Year		Date o Month	f birth	Date	lv.	ear		3.	Date of birth Month	Date		Year		Date of bu	th Date		lyea	
<u></u>				<u> </u>				<u> </u>	<u> </u>					<u> </u>				Month	!			
	HOSP.	WORK	RD		None	HOS CO I	1	WORK	RD		None	َ ـِ ا	HOSP.	WORK	_	_	WK. DV	HOSP.	WORK		1	WK. DV
C1	Number	¹ l∐Wa 2□Wb	1 DY	88			.		1□ Yes 2□ No			C1		1□Wa 2□Wb		res			¹ 1□wa 2□wi		Yes	
1100	Number	T	<u> </u>	N	umber	Numl	per .		20100		mber	5	Number	2000	بأثر	N 0	lumber	Number	12 JWI	1213	NO 1	lumber
C2	8. 17.				$\overline{}$					<u> </u>	<u></u>	C2	<u> </u>			, +3	<u></u>					\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
	LA - TRA	_i <u>o</u> _iii	NJ. jči	TYRIHS	TOND.	TA	ĮRA	<u>ΓΝΙ, ΛαΙ</u>	i. [—] 1 CL LTF	₹HS (COND.		LA TRAT	TOV TIN	J. 7a	.CTR] HS	TCOND.	LA TRA	_15vi	NJ. TO	CLTRI HS	TOND.
		_				<u> </u>	<u> </u>	<u> </u>						<u> </u>		!_			1 1		1	_
	⊼ЯŢ ~ ⊼.Γ !	: _ _[6∨_]: 	NJ. TCU	CTRIHS	TCONO.	TA -	[RA	נמוך עם ד ווו	I.T; CL ETF	THS (COND.		EA TRA	NIJ VOT	IJ. ⊤į Čī.	LTRTHS	Гомо.	LTA TRIZ	וְיֹעלון".	ואו. דָּכּ י	CLTR _I HS	COND.
			<u> </u>	i_	\		1	<u>. i</u>		نــــن	$\overline{}$		i	<u>. i</u> .	<u>i</u>	i_	\	 i	<u>i i</u>	i_		<u> </u>
	ጊጽ - ገጽጆ	_'B_''	NJ	Trance	LANGE 3	 	' TB A''' '	1677 TIAT	_''⊠ _ -	ಪಾರ್ಕ:	لمسم		CA TIRA	יים סמד	ਜ ⊸ਲਾ	(Teite	۷	LTA (1874		m	-C1+48: -77	
		i [Ĺ			U.L.	U:10	JUND.			I I	J. [CL	 	I I	-		C	 - 	LUND.
					7		•				$ egin{array}{cccccccccccccccccccccccccccccccccccc$]					$\overline{}$	· · ·	- 1			egthankowskip
	LX - TRX	_le^_li	M).— içi	THINS	тсоко.	TA	ĪĀĀ -	נמיד עסד	ו. וַכּנה	ក្រុនៈ	cons.	1	CAIHA-	און ספן	J. ¬į cī	.CTRĮ HS	ісомо:	LX _ L83	וֹעַםוֹּ	INJ. TO	CLINHS	T COND.
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	L										/											
	LA TRA		NJ. TCL I	TRIHS	ТСОМБ. !	TA -	IRA	נאון עסן ו	וֹ. ֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֓֓	THS I	COND.		LA IRA	TDV IIN.	J. 701	LTRIHS	TCOND.	LA TRA	וועםן. ו ו	NJ. TO	CCTRI HS	Тсомо.
<u></u>	1 0-4-	r to RD an	4.02			L	1	1 1		<u>i</u>		<u> </u>	L	1 1			!	Li	<u>i i</u>	i	i	<u> </u>
K	1 1 -	Yes" in "		k AND i	more tha	n 1 con	dition in	C2 (6)				13.	is this <u>(con</u>		<u>13b</u>)1	the res	ult of	the same	accide	nt you	ı alrea	dy {
	8∐0	ther (K2)									_				dition r	age ni i	nber wh	ere				ł
5.0	During t	<u>n)</u> caus	9 — — 18KS O	utiine to cu	t d <u>ow</u> i	ı on ti	nat c 10 thi	aienda ngs — -	r, did - - usua	- — ily do	288?		Yes (Rec	ident que	stions	first co	mpleted	:; →	age No.	(NC)		
	O Y					o (K2)							□ No						-			l
"	During t			m wo	any da	ys did		cut do	wn for	more	'	14.	Where did	the ac	cide	nt han	pen?					
1	ооПм	one <i>(K2)</i>				BV\$							1 At home	(inside h	nouse)	·						1
7.	During t	hose 2	weeks	, hov	v many	days	did -	sta	y in bed	d for	-		2 ☐ At home 3 ☐ Street a				oadway :	and public :	idewalk)			
	more the	en half d	of the	day b	ecaus	e of ti	is co	ndition	17		ı		4 Farm									}
	00 🗆 N					ays							5☐ Industria 6☐ School (includes	premis	es)						
A.	Ask if "N During th					ار مروا	id	mies -	nore at	er			7 Place of			sports,	except a	t school				
"	half of th										1?		8LJ Other (S	pecity) -	7							
	00 🗆 N	one			D	ays					ł	•	Mark box it	f under	18.		Under	18 <i>(16)</i>		•		
	Ask if ag					•						15a.	Was —— ti 1☐ Yes (16	ındər 1	8 wl	en th	e acci	dent hap	pened	•		Į
9.	During ti	hose 2 v	weeks	, hov choo	v many I becau	days	did -	- – mis	s more	tha	n		Yes (16.	, 			<u>-</u>					<u>.</u>
	00 🗆 N	•							-			D.	Was — — ii 2☐ Yes (16)	n the A	vrm o (d Ford	es wh	on the a	ccident	napp	enedi	·
-	П.		"0"	TRU	D	·						c.	Was at	work a	it	job oı	busine	ss when	the acc	ident l	apper	ed?
K		ondition h ondition d						e (K4)					3□ Yes			4 🗆 1						
10.	About ho	w man	y days	since	(12-m	onth d	ate) a	year ag					Was a car, in any way		bus,	or oth	er mot	or vehicl	involv	ed in t	the ac	cident
.	condition	n kept – overnic	— in i	ed m	ore the	n half	of th	e day?	linclud	e day	*		1 Yes			201	No (17)					[
	_	_	pal									b.	Was more			_		red?				
11.	Was		neni+-	ادعرال	D		ditio-	in 2412	,		_	_	1 Yes			20!						
"	1 🗆 Ye		rahitg		tor — -] No	- ICOU	union	111 30)¢				C.	Was [it/eit	ner on	ej mo	ving . 2 🔲 1		time?			٠	
17		issing ext	remity o					· · · · · · · · ·			-		At the time			ident	-	part of ti	e body	was	hurt?	
K	3 🗆 o	ther (12)											What kind Anything	of inju					•			ļ
12a.	Does		ave th		_	17								Part(s) o	f bods	, •			Kind	of inju	rv	
٠,		s (K4)			No.									,5, 0						gu	·	-
D.	ls this co		comp		-			der con	itrol?													
	3 🔲 Ur	nder contr	ol <i>(K4)</i>		Other (-	,			(K4)		Ank # F = -			<u></u>						
c.	About ho	ow long	did	– ha	ve this	cond	lition	before	it was	cure	d?		Ask if box : What part	of the	body	is aff	ected					
	_				,			Months					How is —- is —— affe	– (<u>part</u> ected i	of bo	dy) af	fected r wav?	17				
	uuo∟Le	ss than 1	month	OR	Num		(2∏				I			Part(s) o					Present	effect		
d.	Was this		on pre			ime dı	ıring t	the pas	t 12 mc	onths	17											
<u> </u>	1 🗆 Ye			2	No																	
	_ O□No	ot an accid									ł		* Enter par	t of hor	dy in 4	same 4	letail a	s for 2a				
K	4. 1 Fir	staccider her (13)	nt/injury	for this	s person	(14)					1	•	* If multiple same as 3						one th	at is n	ot the	1

			Old age
	A. HOUSEHOLD COMPOSITION PAGE		.1
1a. Wh	at are the names of all persons living or staying here? Start with the name of the person or of the persons who owns or rents this home. Enter name in REFERENCE PERSON column.	[First name Mid. init. Age
b. Wh	et are the names of all other persons living or staying here? Enter names in columns. It "Yes," enter		Last name Sex 1 M 2 F
c. I ha	ve listed (read names). Have I missed: Yes No	Ιi	Relationship REFERENCE PERSON
- a	ny bables or small children?	3.	Date of birth Month Date Year
	ny lodgers, boarders, or persons you employ who live here?	\vdash	HOSP. WORK RD 2-WK. DV
t	raveling or in a hospital?	C1	00 None 1 Wa 1 Yes 00 None
		ا ، ا	Number 2 Wb 2 No Number
d. Do	all of the persons you have named usually live here? Yes (2) No (APPLY HOUSEHOLD MEMBERSHIP	41.2	W + 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
Pro	be if necessary: RULES. Delete nonhousehold members by an "X" from 1—C2 and enter reason.)	C2	
Do	es —— usually live somewhere else?		TA TRA TOV TINJ. TOLLTRI HSTCONO.
Asi	for all persons beginning with column 2:		
	at is —— relationship to (reference person)?		LA TRA TOV TINJ. TCELTRI HSTCONO.
3. Wh	nt is — — date of birth? (Enter date and age and mark sex.)		
-	REFERENCE PERIODS		LA - TRA TIDV TINJ. TCELTRI HSTCOND.
	2-WEEK PERIOD		
A1	12-MONTH DATE		LA TRA TOV TINJ. TCLLTRI HSTCOND.
	18-110-110-110-110-110-110-110-110-110-1		
	13-MONTH HOSPITAL DATE		
A2	ASK CONDITION LISTS 1,2, and 3.	'	LA TRA IDV TINJ. TCLLTRI HSTCOND.
	L. DEMOGRAPHIC BACKGROUND PAGE	i i	Anglaising 1995
		L1	
L1	Refer to age.		☐ 5—17 (2) ☐ 18 and over (1)
1a.D	d EVER serve on active duty in the Armed Forces of the United States?	1a.	1 🗆 Yes
_		l	2 No (2)
b. W	hen did —— serve? Vietnam Era (Aug. '64 to April '75) VN Korean War (June '50 to Jan. '55) KW	Ь.	1
M	ark box in descending order of priority. ark box in descending order of priority. aus, if person served in Vietnam and in Korea World War I (April '17 to Nov. '18)	1	2 KW 8 0S 3 WW∥ 9 DK
T m	ark VN. Post Vietnam (May '75 to present) PVN		4□wwi
c.W	Other Service (all other periods)		
_	,		Yes 2 No (2) 7 DK (2)
d. W	as ALL of active duty service related to National Guard or military reserve training?	d.	t ☐ Yes 3 ☐ No 9 ☐ DK
2a. W	hat is the highest grade or year of regular school —— has ever attended?	2a.	
1			kindergarten (NP)
1			Elem: 1 2 3 4 5 6 7 8
		1	High: 9 10 11 12
١. ـ		- _Б	College: 1 2 3 4 5 6 +
0.0	id —— finish the (<u>number in 2a)</u> [grade/year]?	D.	1 ☐ Yes 2 ☐ No
			POLY LICESPEE P 5
3914	and Card R. Ask first alternative for first person; ask second alternative for other persons. That is the number of the group or groups which represents race?	3=.	1 2 3 4 5
1	/hat is —— race?	İ	
1 1	ircle all that apply — Aleut, Eskimo, or American Indian 4 — White		
3	 Asian or Pacific Islander Black 5 — Another group not listed — Specify — Black		(Specify)
	sk if multiple entries:	Т-Б	1 2 3 4 5 V
b. w	hich of those groups; that is <u>, (entries in 3e)</u> would you say BEST represents —— race?		•
		1	(Specify)
c. N	ark observed race of respondent(s) only.	7-6	· 1□w 2□B 3□0
******		r i ž	
H	and Card O.	48	1
-	re any of those groups —— national origin or encestry? (Where did —— ancestors come from?)	- <u>-</u> -	2 No (NP)
0	lease give me the number of the group. ircle all that apply.	"	1
2	Puerto Rican 5 Chicano Cuban 6 Other Latin American		1 2 3 4 5 6 7
	- Mexican/Mexicano 7 - Other Spanish - Mexican American		

									Old age
1a.Wi	A. HOUSEHOLD COMPOS at are the names of all persons living or staying here? St	ert with the name of the	Dersor	1 OF	11.	First name		Mid. i	nit. Age
on	of the persons who owns or rents this home. Enter name	in REFERENCE PERSO	N colui	nn.		Last name		•	
b. Wi	at are the names of all other persons living or staying here?	Enter names in columns.	If "Yes,			Fast Havin			Sex 102
c. I h	ive listed (<u>read names</u>). Have I missed:		names in Yes	No	2.	Relationshi REFEREN	SE PERS	ON	الساعين
- :	my bables or small children?				3.	Date of birt Month	h Date	ļ _Y ,	ar
(my lodgers, boarders, or persons you employ who live here myone who USUALLY lives here but is now away from hom				-	HOSP.	WORK	RD	2-WK. D
_ ;	raveling or in a hospital?	• • • • • • • • • • • • • • • • • •			C1	00 None		1 Yes	00□ Nor
	all of the persons you have named usually live here?	☐ Yes (2)				Number		2 No	Number
	• •	□ No (APPLY HOUSEHO			,a;tr	* 4 1 1	12 12 14	15.17.3	122.5
	be if necessary:	RULES. Delete nonhou by an "X" from 1 – C2			C2	TA TRA	7.50	TINT TOT	त्त्र। संडाटक
	es — — usually live somewhere else?			-	4			1 1	1
	t for all persons beginning with column 2: at is relationship to (reference person)?								
	at is —— date of birth? (Enter date and age and mark sex.)				-{	LA TRA	TI DV	TINJ. TCEL	TRI HSTCO
					4			1 1	
	REFERENCE PERI	ODS				LA TRA			raı HSTCÖN
	2-WEEK PERIOD						<u>.i.</u>		
A1					-				
	12-MONTH DATE				-	LA TRA	Þν	INJ. I CL L	TRIHSTCON
	13-MONTH HOSPITAL DATE								
A2	ACK CONDITION LICES 2 2				1	LA TRA	-10v	TINJ. TOLL	TRITISTICON
	ASK CONDITION LISTS 1,2, and 3.					i 	<u>i</u>	<u>i i</u>	<u>i i </u>
	L. DEMOGRAPHIC BACKGROUND	PAGE, Continued			1 3000	The second secon		76573 Silan	
						o□ Un	der 18 (A	IP)	
L2	Refer to "Age" and "Wa/Wb" boxes in C1.				L2		box mar box mar		
Ka.F	rlier you said that —— has a job or business but did not t	work foot work on the co			 	3□ Ne	ither box	marked (5	ib)
W	== — looking for work or on layoff from a job during th	ose 2 weeks?	eek Det	ore.	5a.	1□ Ye	s (5c)	2□	No <i>(6b)</i>
b. E	rlier you said that didn't have a job or business last	week or the week befor			ъ.	1 _ Ye			 No <i>(NP)</i>
	as —— looking for work or on layoff from a job during th hich, looking for work or on layoff from a job?	089 2 Weeks? ·			1	ļ _ <u>_</u>			
U. 11	men, looking for work or on layou from a Joor				C.		oking (6c off (6b)	, 3∐	Both <i>(6b)</i>
6a.E	riler you said that —— worked last week or the week be	ore. Ask 6b.			est.				
b. Fo	r whom did —— work? Enter name of company, business,	organization or other am			2	Employer	ان گاریس الف آف آمد .		
-					and c.	Linployer			NEV (6g) AF (6e)
C.FC	r whom did —— work at —— last full-time job or business lasti ter name of company, business, organization, or other employer, or	ng 2 consecutive weeks o mark ''NEV'' or ''AF'' box ir	r more? n person':	s column.	"				(,
		. 			1	Industry			
re	hat kind of business or industry is this? For example, TV a all shoe store, State Labor Department, farm.	na radio manutacturing,			d.				
Īf.	'AF'' in 6b/c, mark "AF" box in person's column without ask				1	Occupation			
e.W	nat kind of work was —— doing? For example, electrical e	ang. ngineer, stock clerk, typis	st, farme	er.	6.		•		AF (NP)
. W	The ways mast important actuals and using a state of			-	-	Duties			
ke	nat were —— most important activities or duties at that j sps account books, files, sells cars, operates printing press, f	obr Por example, types, inishes concret e .			f.	Dottes			
-Co	mplete from entries in 6b-f, If not clear, ask:				-	Class of we			-
g. W	18				g.	1 P	AKCI	s 🗀	
Ind	vidual for wages, salary, or commission P practice	loyed in OWN business, pro or farm?	fessional		•	2□ F		6□	SE
A	TATE government employee? Yes	e business incorporated?		l		3□s 4□∟		7 🗆 8 🗆	
^'	Working	WITHOUT PAY in family but	siness	de					
	- NEVER	WORKED or never worked at	a full-tim	WP					
OOTNO		ng 2 weeks or more		MEV		L			_
RM HIS-1 (I	reluation) (2-1-90)	Page 42							

			Old age
	A. HOUSEHOLD COMPOSITION PAGE		1
1a. Wh	at are the names of all persons living or staying here? Start with the name of the person or of the persons who owns or rents this home. <i>Enter name in</i> REFERENCE PERSON <i>column.</i>		First name Mid. init. Age
c. I ha	at are the names of all other persons living or staying here? Enter names in columns. If "Yes," enter names in columns.	2.	Relationship REFERENCE PERSON Date of birth
	ny bables or small children?	\vdash	HOSP. WORK RD 2-WK. DV
d. Do	all of the persons you have named usually live here? Yes (2) No (APPLY HOUSEHOLD MEMBERSHIP RULES. Delete nonhousehold members	 C2	Number 2 Wb 2 No Number
	by an "X" from 1 — C2 and enter reason.) by an "X" from 1 — C2 and enter reason.)		TA THAT TOV TINJ. TOLETH HISTORIO.
	k for all persons beginning with column 2: at is —— relationship to <u>(reference person</u>)?		TAT THAT TIEVT TINJ. TOLLTRI HESTOOMS.
3. Wi	at is —— date of birth? (Enter date and age and mark sex.)		
	REFERENCE PERIODS		TA THAT TOV TINJ. TCCCTM HESTORIO
A1	2-WEEK PERIOD 12-MONTH DATE		LA TRA IDV TINJ. TOLETRI HSTOOND
ļ	13-MONTH HOSPITAL DATE		
A2	ASK CONDITION LISTS 1,2, and 3.		LA TRA I DV TINJ. I CELTRI HISTOON
	L.DEMOGRAPHIC BACKGROUND PAGE, Continued	11	
7. 14	ark box if under 14. If ''Married'' refer to household composition and mark accordingly. —— now married, widowed, divorced, separated, or has —— never been married?	7.	O Under 14 1 Merried — spouse in HH 2 Merried — spouse not in HH 3 Widowed 4 Divorced 5 Separated 6 Never married
	17.15 T. 19.15 基础的 17.15 在19.15 在19.15 在19.15 A. 15 A	14.6	
A re	as the total combined FAMILY income during the past 12 months — that is, yours, <u>freed names, including</u> <u>med Faces members living at home</u>) more or less than \$20,000? Include money from jobe, social security, tirement income, unemployment payments, public assistance, and so forth. Also include income from terest, dividends, net income from business, farm, or rent, and any other money income received.	8a.	1 🗋 \$20,000 or more (Hend Card I) 2 🗍 Less than \$20,000 (Hend Card J)
l is	ed if necessary: Income is important in analyzing the health information we collect. For example, this formation helps us to learn whether persons in one income group use certain types of medical care ervices or have certain conditions more or less often than those in another group.	 	
f	ead parenthetical phrase if Armed Forces member living at home or if necessary. If those income groups, which letter best represents the total combined FAMILY income	Ь.	00 A 10 K 20 U 01 B 11 L 21 V 02 C 12 M 22 W
d ji	uring the past 12 months (that is, yours, <i>(read names, including Armed Forces members</i> ving at home)? Include wages, salaries, and other items we just talked about.		
		1	03 D 13 N 23 X 04 E 14 0 24 Y
1 1	lead if necessary: Income is important in analyzing the health information we collect. For example, is information helps us to learn whether persons in one income group use certain types of nedical care services or have certain conditions more or less often than those in another group.		1 =
1 1	ils information helps us to learn whether persons in one income group use certain types of	Ra.	04 E 14 0 24 Y 05 F 15 P 25 Z Z 06 G 16 Q 25 ZZ 07 H 17 R 08 L 18 S 09 J 19 T
ti n	als information helps us to learn whether persons in one income group use certain types of needical care services or have certain conditions more or less often than those in another group.	Ra.	04 E 14 0 24 Y 05 F 15 P 25 Z 06 G 16 Q 26 ZZ 07 H 17 R 08 I 18 S 09 J 19 T 0 Under 17 1 Present for all questions 2 Present for some questions 3 Not present
ti n	als information helps us to learn whether persons in one income group use certain types of needical care services or have certain conditions more or less often than those in another group. a. Mark first appropriate box.		04 E 14 0 24 Y 05 F 15 P 25 Z 06 G 16 Q 26 ZZ 07 H 17 R 08 I 18 S 09 J 19 T 0 Under 17 1 Present for all questions 2 Present for some questions 3 Not present
R	als information helps us to learn whether persons in one income group use certain types of needical care services or have certain conditions more or less often than those in another group. a. Mark first appropriate box. b. Enter person number of respondent.	b.	04 E 14 O 24 Y 05 F 15 P 25 Z 06 G 16 Q 26 ZZ 07 H 17 R 08 I 18 S 09 J 19 T 0 Under 17 I Present for all questions 2 Present for some questions 3 Not present Person number(s) of respondent(s) Person number of parent 00 None in household
R L3	a. Mark first appropriate box. b. Enter person number of first parent listed or mark box. Enter person number of first parent listed or mark box.	b.	04 E 14 0 24 Y 05 F 15 P 25 Z Z 06 G 16 0 26 ZZ 07 H 17 R 08 I 18 S S S J I9 T 0 Under 17 1 Present for some questions 2 Present for some questions 3 Not present Person number(s) of respondent(s) Person number of parent 00 None in household Person number of spouse 00 None in household
R L3	a. Mark first appropriate box. b. Enter person number of first parent listed or mark box. Enter person number of spouse or mark box. Enter person number of spouse or mark box.	b.	04 E 14 O 24 Y

1. Wh.	A HOUSEHOUR COMPONITION OF					d age
o. WIRE	A. HOUSEHOLD COMPOSITION PAGE t are the names of all persons living or staying here? Start with the name of the person of the persons who	OF	1.	First name	Mid. init.	Age
one of the persons who owns or rents this home. Enter name in REFERENCE PERSON column.				Last name		Sex_
b. What are the names of all other persons living or staying here? Enter names in columns. It "Yes," enter names in columns.						1 M 2 F
	e listed (read names). Have I missed:	3.	REFERENCE	PERSON		
– any	y bables or small children?		3.	Date of birth Month	Date Year	
— any tra	yone who USUALLY lives here but is now away from home iveling or in a hospital?			WORK RD 2-V	WK. DV	
– any	yone else staying here?	C1		U We 1 L Yes	None	
d. Do al	Il of the persons you have named usually live here?			Number 2	□ Wb 2□ No No	lumber
Probe	□ No (APPLY HOUSEHOLD MEMB RULES. Delete ∃onthousehold member of fore 1 — C2 and enter	embers	C2			$\overline{}$
	— usually live somewhere else?	rreaso	n.)	LA TRA	I DV TING. TOCETRE	HISTCOMO
	or all persons beginning with column 2:				<u> </u>	$\overline{}$
	is — relationship to (reference person)? is — date of birth? (Enter date and age and mark sex.)			LA TRA	IDV TINJ. TOLLYNI H	HSTCONO
				i	<u>i i i i i</u>	÷
-	REFERENCE PERIODS			LA TRA	ีเ อี∨ี โฟว.⊺αโเสเส	HSTCOND
	2-WEEK PERIOD	***		ļ - -		-
A1	12-MONTH DATE					
Ī.	2 MONTH MACRITAL DAY			LA IRA	DV INJ. ICLLTRIH	HSICOND
	13-MONTH HOSPITAL DATE					
A2 A	ASK CONDITION LISTS 1,2, and 3.				IDV TINJ. TOUTH	1
	L. DEMOGRAPHIC BACKGROUND PAGE, Continued	4.5				
L5	Refer to age. Complete a separate column for each nondeleted person aged 18 and over.	L5	PERS	SON NUN	L 	3-4
Read t	to respondent(s): In order to determine how health practices and conditions are related to how long people live, we would like to refer to statistical					
	records maintained by the National Center for Health Statistics.		*	100		
16	Secondary of thirt day and the secondary of the secondary		Date of		Year	5-11
L6	Enter date of birth from question 3 on Household Composition page.	F6		Date		
9a. In w	9a. In what State or country was born?				[1	12-13
Print	the full name of the State or mark the appropriate box if the on was not born in the United States.					ate
P 0.00	on value of the office diales.			uerto Rico Irgin Islands	05 □ Cuba 06 □ Mexico	
			03 □ G 04 □ C		98 All other countries	
If ha	rn in U.S., ask 9b; if born in foreign country, ask 9c.	1-1				14
	gather, how many years has — — lived in (<u>State of present residence</u>)?	5.		ess than 1 yr. yr., less than 5	4 🔲 10 yrs., less t 5 🔲 15 yrs. or moi	
				yrs., less than		 - 15
C. AILU	gether, how many years has — — lived in the United States?		ess than 1 yr.	4 🔲 10 yrs., less ti	than 15	
		C.		yr., less than 5 yrs., less than 1		ore

Page 46

*U.S. GOVERNMENT PRINTING OFFICE:1996-404-888/40007

SUGGESTED SCRIPT TO INTRODUCE PERMISSION FORMS: As I mentioned earlier, GHA is working with Westat on this study. As part of the data collection, we would like to obtain some additional information from your medical records at GHA. One of the purposes of this study is to see how certain national health statistics would be different if they were made from medical records rather than from interviewing people in households. To do this, we need your written permission. I remind you that any information that would identify you or members of your family will be destroyed after the data collection.

Hand permission form to respondent. If additional GHA members in household, fill out permission forms for them, and arrange to have them signed as well.

			PERSON 1	PERSON 2	PERSON 3		PERSON 4	PERSON 5
PF1	Enter status of permission form for each person	PF1	0 Not Required 1 Signed 2 Not Obtained; Left at Household 3 Refused 4 Other	0 Not Required 1 Signed 2 Not Obtained; Left at Household 3 Refused 4 Other	0 Not Required 1 Signed 2 Not Obtained; Left at Household 3 Refused 4 Other	PF1	0 Not Required 1 Signed 2 Not Obtained; Left at Household 3 Refused 4 Other	0 Not Required 1 Signed 2 Not Obtained; Left at Household 3 Refused 4 Other

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For answers to questions about this report or for a list of reports published in these series, contact:

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