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HEALTH STATISTICS

FROM THE U.S. NATIONAL HEALTH SURVEY

Co-operation in Health Examination Surveys

A study of expressed willingness to accept a health examination for survey purposes.

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The U. S. National Health Survey is a continuing program under which the Public Health Service makes studies to determine the extent of illness and disability in the population of the United States and to gather related information. It is authorized by Public Law 652, 84th Congress.

CO-OPERATION OF THE BUREAU OF THE CENSUS

Under the legislation establishing the National Health Survey, the Public Health Service is authorized to use, insofar as possible, the services or facilities of other Federal, State, or private agencies. For the Health Interview Survey the Bureau of the Census designed and selected the sample, conducted the household interviews, and processed the data in accordance with specifications established by the Public Health Service.

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CO-OPERATION IN HEALTH EXAMINATION SURVEYS

INTRODUCTION

The U. S. National Health Survey has a responsibility to collect survey data on the health of the population and on factors relating to health. Its survey program contemplates a variety of types of surveys, each differently designed according to the kinds of data to be collected and the sources from which such data can be obtained.

A major part of the U.S. National Health Survey Program is the collection of health data and related facts in a continuous health household interview survey. Each week a representative sample of households in the United States is interviewed and data on such things as illness. disability, medical care, and hospitalization are obtained. The results of these surveys are published in Series B and Series C of Health Statistics from the U.S. National Health Survey. The interview method provides a wide range of adequately reliable data relating to social, economic. and demographic aspects of health and for such topics as the amount of medical care and disability resulting from illnesses. However, the method has recognized limitations in the quality of diagnostic data obtained. In addition, the interview method cannot provide distributions of those clinical and physical measurements which must be based on actual tests.

Consideration has therefore been given to the development of a survey based on a specially designed health examination given to representative samples of the population. Before such a survey can be instituted, however, many problems must be solved such as standardization of procedures, the designing of a medical history questionnaire, logistics, and ways of getting the selected people to be examined. The medical history problem has been studied, and the results of the study are published in A Study of Special Purpose Medical-History Techniques. The problem discussed in this report is that of persuading people to cooperate in a health examination survey.

The response problem is always an important consideration in any survey, as the validity of sample estimates is dependent upon the sample being representative of its parent population. A small nonresponse rate can be tolerated in most instances. For even if the characteristics being measured for nonrespondents are different from those of respondents, their biasing effect on the estimate may not be serious, (The amount of nonresponse that can be tolerated depends upon the subject matter. No arbitrary goal can be set.) Several community-wide health examination surveys²⁻⁴ indicate, however, that a large proportion of sample persons may not, for various reasons, submit themselves for an examination. The nonresponse rates for these studies ranged from about 30 to 40 percent. The results from these studies are not sufficient evi-

This report was prepared by Earl Bryant and James T. Baird, Jr., of the U.S. National Health Survey staff.

dence to predict that similar nonresponse rates would be encountered in a nationwide survey, but they do point out the need to learn the magnitude of nonresponse that might be expected in a national health examination survey.

To obtain certain information on how people in the United States feel about participating in a health examination survey, a special "supplement" question was added in January 1958 to the questionnaire which was regularly used for the health household interview survey. People were asked a hypothetical question as to their willingness to participate in a health examination survey. The responses to these questions were studied for population groups characterized by specific demographic and health attributes. By this means, groups of people who may tend to be less inclined to participate in a health examination could be identified. Although the responses received in the survey may not completely represent what people will actually do, it is believed that they do indicate peoples' attitudes toward co-operating in a health examination sufficiently well to identify groups likely to pose special problems in an actual survey.5

DESIGN AND METHODOLOGY OF THE HEALTH EXAMINATION CO-OPERATION STUDY

The methods of this special study are based largely on the procedures and techniques used in the Health Household-Interview Survey, which is a continuing survey of the civilian population of the United States. Each week, a sample of households throughout the United States is visited by a group of specially trained interviewers. Information on the social characteristics and health experience of all members of each household is recorded using standardized procedures. The instrument which the interviewer uses to elicit and transcribe this information is referred

to as the health household interview questionnaire, or simply, the questionnaire. In the interview, the interviewer obtains personal particulars and demographic and economic characteristics of each person in the household. After this, detailed information on each person's morbidity, medical care, and hospitalization experience during the past year is recorded. In the household interview all responsible adults who are at home at the time of interview are asked to respond for themselves on questions pertaining to health. If an individual is not available, certain related adults may supply the necessary information. In this case, the person answering the questions is referred to as a proxy respondent, and the individual to whom the information relates is referred to as a person with proxy respondent. When the person replying is the subject of the questions, he is called a self-respondent. For detailed definitions of terms see Appendix II. The information collected in this way, when inflated by appropriate sampling weights and otherwise processed, can be related to the entire civilian population of the United States or to any subgroup of this population.

The mechanism of the Health Interview Survey was used for this special study of expressed willingness to be examined in a health examination survey.

The data in this report are based on household interviews conducted during the eight-week period, January 27-March 30, 1958. During this time, information on willingness to participate in a health examination was obtained for persons 18 years of age and over. This was accomplished by appending a form containing two short questions to the basic questionnaire. The form is referred to as the health examination supplement (shown in Appendix III) and the questions as the supplement questions. Interviews were completed in approximately 5,000 households comprising 11,000 persons 18 years of age and over. The population

covered by the sample is the civilian population of the United States living at the time of the household interview. This report, however, does not include persons living as inmates of resident-type institutions although they are included in the sample. Additional information on the statistical design and variances for the sample statistics are given in Appendix 1.

At the end of each household interview, after a brief explanation of a health examination survey that was being planned, the respondents were asked the supplement questions:

"If you are selected for this special free examination and the time and place are convenient will you be willing to come?"

If the respondent was also replying for a related adult, he then was asked;

"How about ..., do you think he will be willing to come?"

For definite answers of yes or no, a checkmark in an appropriate box recorded the answer. However, if the answer was qualified in some way, it was recorded verbatim. The following criteria were used to classify the qualified answers as "yes" or "don't know."

Yes, qualified—answers which indicated an affirmative attitude toward taking the health examination. This includes all such verbatim answers even if the "don't know" box on the form was checked.

Don't know—answers which could not be clearly distinguished as affirmative. For example, the answer might have been, "I wouldn't know how to answer, she works every day," or "He might come, but I'm not sure."

The frequency of the "qualified" and "don't know" responses in relation to the "unqualified" yes and no responses may be examined in table A.

The ''don't know'' designation, as may be expected, occurred largely in the case of proxy responses (i.e., in instances where one member of a family was answering for another). Table B

Table A. Response pattern for health examination supplement questions

	Estimated population			
Response	Frequency	Percent		
Total	97,970,000	100.0		
Yes (favorable response) Unqualified Qualified	69,550,000 65,650,000 3,900,000	71.0 67.0 4.0		
No	24,420,000	24.9		
Don't know	4,040,000	4.1		

shows that the proportion of "don't knows" was about five times as great among people with proxy respondents as among self-respondents. This is demonstrated for both sexes.

It is obviously not feasible to provide a meaningful accounting of the very small proportions of "don't know's" and "qualified" responses for subpopulation groups. The primary axis of classification in the following detailed analysis of this report is the proportion of persons which may be expected to participate in a health examination survey. It therefore seems reasonable to pool the "qualified" answers with unqualified "yes" answers. This was the approach used, with the combination of these two categories being referred to as favorable response. The pooled result undoubtedly includes some persons who will not participate due in part to the nature of the qualifications in their reply. On the other hand, the complement of percentage favorable response includes the "don't know" as well as the "no" replies. The former may reasonably be expected to include a substantial number of persons who would, in fact, participate. This is especially true in view of the large proportion of persons with proxy respondents in this group, shown in table B.

Table B. "Don't know" responses and respondent status by sex: health examination supplement questions

Respondent status and sex	Percent of all persons	Percent with "don't know" response to health examination supplement questions	Percent of persons within sex group	
Total	100	4.1	100	
Self	60	1.4	60	
Proxy	40	8.2	40	
Male	47	5.5	100	
Self	18	1.5	.37	
Proxy	30	7.9	63	
Female Self Proxy	53	2.8	100	
	42	1.4	81	
	10	8.8	19	

Percents may not add to total due to rounding.

SUMMARY OF FINDINGS

The evidence of this investigation is that 71 percent of the 98 million, noninstitutional population 18 years of age and over may be willing to come to a health examination if the time and place are convenient. On the basis of an individual's reply, or the reply of a related adult responding for him, 67 percent were credited with unqualified willingness to co-operate. The replies indicated that 25 percent would not come in, while 4 percent of the people were in the "don't know" category. The remaining four percent were people for whom a "qualified" yes answer was given.

In accordance with the objectives of the study, it was possible to identify components of the population in which favorable response differed in degree from that of the total population and from other population groups. This, it is felt, is a necessary step in planning actions to reduce overal! nonresponse in a health examination survey.

Results of the analysis of 11 variables in relation to favorable response are presented in this report. Nine of these are demographic variables. Two are scales relating to the health of the individual. Over-all marginal totals of favorable response for the study variables and relative proportions of the population are shown in table C.

While some association with favorable response may be indicated for most of these variables, the following may be demonstrated to a more positive degree as some of the more important findings bearing on response to a health examination survey.

- 1. Persons responding for themselves on the household interview were more reluctant to commit others to a health examination than to commit themselves.
- 2. There is a decreasing rate of favorable response with increasing population size. Stated willingness to accept a health examination was highest among residents of rural areas, and lowest among people living in large metropolitan areas. Associated with this, to some extent, is a regional difference. Individuals in the Northeastern part of the United States were less inclined to co-operate than people in other areas.

Table C. Percent favorable response and population distribution by study variables

Variable	Percent favorable response	Percent of pop- ulation ¹	Variable	Percent favorable response	Percent of pop- ulation ¹
Respondent status			Major activity		
Self-respondents Persons with proxy	76	60	house	77	32
respondents	64	40	Usually working Other	71 73	60 8
Urban-rural residence			Education of family <u>head</u>		,
Large metropolitan areas Small metropolitan	64	24	Less than 9 years of school	71	44
areasOther urban areas	65 74	20 18	9-12 years College	72 67	40 16
Rural areas	78	38	_		
Region			Stated time interval since last physician visit	•	
Northeast	62	26		70	27
North Central	70	. 31	i I	72	37
SouthWest	78 75	28 15	3-11 months 1-2 years 3+ years	73 73 63	28 19 16
Age	- China		Health status of		
18-24	76	13	individual	·	
25-44	76	41			
45-64	68	32	No chronic condi-		
65+	58	14	tions, no physi- cian visit with-	-	-
Race			in year No chronic condi-	. 66	. 22
White	70	90	tions, at least		
Nonwhite	83	10	one physician visit within year	71	24
Sex			-		
Walla	70	47	At least one chron- ic condition, ac-		ļ
Male Female	70	53	tivity not lim-		
Family income	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	33	itedAt least one chron- ic condition, ac-	74	39
Under \$2,000	66	26	tivity limited	70	15
\$2,000-4,999	75	34	_		
\$5,000-6,999	74	21	Į.	ļ	
\$7,000+	67	20			•
	<u> L</u>	L	<u> </u>	L	L

NOTE: Population percent may not add to 100 due to rounding.

 $^{^1}$ Refers to civilian noninstitutional population 18 years of age and over except for "major activity" which refers to 18-64 years of age only.

- 3. People over 45 years of age indicate less willingness to co-operate, especially those over 65.
- 4. There is a racial difference in stated will-ingness to co-operate. Nonwhite persons indicate a much higher degree of co-operation than white persons.
- 5. People in the extreme upper and lower income groups show less favorable response rates than those in the middle income groups.

Following the descriptive analysis of responses according to various population characteristics in the next section, a series of detailed tables presenting the results of the questioning will be found, as well as population estimates which were used in forming the ratios shown in this publication. Sampling variances for the data are tabulated in Appendix I.

ANALYSIS OF DATA

Respondent Status

The difference in favorable response by respondent status is the most easily demonstrated and clear-cut in the study. Self-respondents were less willing to commit others to a health examination than to commit themselves. This was true for nearly all variables and population groups studied. As indicated in table D, favorable response was about one fifth higher among self-respondents than among persons for whom another person responded. This difference is statistically significant.*

If the "don't knows" were distributed between the "yes" and "no" replies on a proportionate basis, the 12 points difference in the percentage of favorable responses shown in table D would be reduced to about seven points, a difference which would still be statistically significant.

Sixty percent of the persons included in the survey responded for themselves while 40 percent had proxy respondents. These proportions were substantially the same for metropolitan, other urban, and rural areas, as well as for all sections of the United States. For some population groups, however, the distribution of self-respondents may be quite different. For example, table E shows that more than twice as many females as males responded for themselves. This is, of course, an expected result in many household surveys that admit proxy respondents.

Thus a substantial differential by respondent status exists for both sex groups. For males, favorable response is 18 percent or about one fifth higher among self-respondents than among persons with proxy respondents. For females, it is nearly a third higher. In both cases the difference is statistically significant. While similar distinctions may be made for some of the other study variables, the general pattern is that favorable response is substantially higher among self-respondents than among persons with proxy respondents for each population group, that is, the trends for the two response groups are generally similar. For this reason, respondent status is not shown in tables 2-15, although references appear in the text where applicable.

Table D. Distribution of response by respondent status

	Percent response			
Respondent status	Yes (favorable response)	No	Don't know	
Total	71	25	4	
Self-respond- ents Persons with	76	23	1	
proxy re- spondents	64	28	8	

^{*}Statements of statistical significance throughout the text relate to a confidence level of 0.05.

Table E. Percent favorable response by sex of subject¹ and respondent status

	Resp sta	Percent	
Sex of subject	Self- re- spond- ents	Persons with proxy re- spond- ents	self- re- spond- ents
Male Female	78 75	66 57	36 81

 $^{^{\}mathbf{1}}$ Subject is the person to whom the response applies.

Urban-Rural Residence and Region

Indications are that one of the factors that is most influential in determining the extent of favorable response to an invitation to be examined is the size of the place of residence. The trend toward better response as the population size decreases may be seen in table F.

In the rural areas, which include about 38 percent of the total population, the proportion of "yes" answers was about one sixth higher than the response rate obtained from the urban population. In rural areas, people seem to be more willing to commit someone else to an examination than they are in urban places, as indicated in table F. The affirmative response rate among

persons with proxy respondents is about one fifth higher in rural areas than in urban places, but only one seventh higher in the case of self-respondents.

The inverse relationship of willingness to be examined and population size is further demonstrated for the different urban size of place groupings. For both self and proxy respondents, the indications are that the best co-operation in urban areas would be received in the small urban places and the poorest in the metropolitan centers, i.e., in urban areas composed of about 50,000 or more people.

Relatively speaking, the higher rural favorable response is somewhat more marked for the older age groups, as illustrated in table G. For example, favorable response for persons 18-24 years of age in rural areas is about 14 percent or one seventh higher than in urban areas, while for persons 65 years of age and over, it is about 24 percent or one fourth higher.

Table H shows the trend for persons 18-64 years of age specific for geographical region and urban-rural residence.

The increase in favorable response with decreasing population appears to be somewhat more clear-cut in the South and the West. These are the two regions with the highest over-all favorable response.

Also, there is some indication that the response pattern would be affected by the part of

Table F. Percent favorable response by urban-rural residence by respondent status

	Urban-rural residence						
Respondent status	Total	All urban	Large metropolitan	Small metropolitan	Other urban	Rural	
Total	71	67	64	65	74	77	
Self Proxy	76 64	72 59	70 53	72 57	77 69	82 71	

Table G. Percent favorable response by age, urban-rural residence, and respondent status

Re-	18-24 years		25-64 years			65+ years			
spond- ent status	Urban Rural Percent relative Urban difference		Urban	Rural	Percent relative difference	Urban	Rural	Percent relative difference	
Total-	72	82	14	68	79	16	53	66	24
Self Proxy	79 65	87 78	10 20	74 61	84 72	14 18	59 39	71 54	20 40

Table H. Percent favorable response by urban-rural residence and region, persons 18-64 years of age

	Urban-rural residence								
Region	Total	Large metropolitan	Small metropolitan	Other urban	Rural				
Total	73	66	67	77	_ 79				
Northeast North Central South	65 73 79 76	60 72 60 71	56 69 69 75	69 75 81 78	75 75 85 81				

the United States in which people live. For example, people in the large metropolitan cities of the West and North Central regions expressed much more willingness to be examined than did persons of similar residence status in the South and Northeast regions. This is further indicated by the fact that people in the Northeast, except those in large metropolitan cities, were less cooperative for any particular population size than the people in other regions.

No substantial difference in urban-rural favorable response can be demonstrated for the nonwhite population. For white persons 18-64 years of age the rural favorable response rate was about one sixth higher than the urban, but this is not statistically significant due to the low frequencies of rural individuals in the sample. For nonwhite persons the two rates are about the

same. Further information on urban-rural residence and region is available in tables 1-10.

Race and Sex

No important differences by sex in stated willingness to participate in a health examination are indicated by the study. Although table 5 shows a slightly higher favorable response among females, this can be accounted for by the larger proportion of self-respondents among them. About 78 percent of the males responding for themselves indicated a willingness to co-operate, which is slightly more than the 75 percent among female self-respondents (table E).

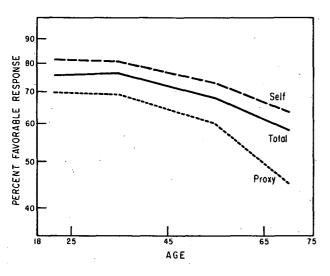
Race, however, is apparently a highly relevant and significant factor. Table 5 indicates that the proportion of favorable replies is about one fifth greater among nonwhite than among white

persons. This relationship varies greatly among regions—there being almost no difference in the West region, but in the Northeast the favorable response rate for nonwhite persons was about 40 percent higher than for white persons. The effect of this difference on the total response rate is negligible, however, even in the South where about 19 percent of all persons 18 years of age and over is nonwhite.

Age

Willingness to participate in a health examination tends to decrease with increasing age. Favorable response is higher among persons under 45 years of age. The rate of 76 percent for this group is about one third higher than that for persons 65 years and over as shown in figure 1.

The same general age pattern shown in figure I can also be demonstrated for specific regions as well as for urban and rural areas of the United States. Persons over 45 years of age, where problems of obtaining co-operation in a health examination appear to be greatest, comprise almost half of the total adult population. Older individuals, of course, will contribute a substantial proportion of positive findings in a health examination. For example, 78 percent of the persons



| Figure 1. Percent favorable response by age and respondent status.

65 years of age and over, but only 32 percent of those 18-24 reported at least one chronic condition as defined in this study.

Major Activity

Persons 18-64 years of age were classified by their major activity during the 12 months preceding the household interview. The objective of this was to delineate population groups which may have different health problems. The methods of classification, which are specified in Appendix II of this report were, therefore, not designed to be comparable with similar classifications in official labor force statistics. The broad tabulation rubrics were "usually working," "usually keeping house," and "other,"

Favorable response rates for persons with proxy respondents show practically no variation among these three categories which range from 65 to 68 percent. For self-respondents, the rates are the same for each category. It may be seen from table I that the favorable response rate for all persons whose major activity was "usually keeping house" is higher than it is for the other two categories. The reason for this is that persons who "usually keep house" are largely self-respondents.

Table 11 shows a difference in the "major activity" pattern by urban and rural areas.

Table I. Percent favorable response by major activity and respondent status, persons 18-64 years of age

	Major activity				
Respondent status	Usually working	Usually keeping house	Other		
Total	71	77	73		
Self Proxy	78 65	78 68	78 68		

Education of Family Head

It may be seen in table 6 that there is no conclusive correlation between favorable response and educational attainment of the family head. There may be, however, some slight tendency toward poorer co-operation for persons in families in which the head of the household had some college education. This pattern is consistent for both self-respondents and persons with proxy respondents.

Table 12 shows that a somewhat different distribution by level of education apparently exists between urban and rural areas for persons 18-64 years of age.

Income

In general, the populations with either very low or very high reported family incomes have lower favorable response rates than people with family incomes closer to the median. This trend appears to be slightly greater for persons with proxy respondents than for persons responding for themselves. The "peaked" distribution reflected in table J remains about the same for other population groups in the study.

The substantially lower favorable response in the "under \$2,000" income group may be largely the result of the higher proportion of persons over 65 years of age in this group.

Table J. Percent favorable response by family income and urban-rural residence

Family	Urban-	rural r	esidence
income	Total	Urban	Rural
Total	71	67	77
Under \$2,000 \$2,000-4,999 \$5,000-6,999 \$7,000+	66 75 74 67	60 71 70 65	73 81 81 72

Interval Since Last Physician Visit

This variable refers to the elapsed interval between the individual's last physician visit and the date of the household interview as stated by the respondent. Although undoubtedly errors occur in respondents' efforts to remember dates of last physician visits, similar trends were observed for both self-respondents and persons with proxy respondents. The favorable response rate decreases 13 percent between the "under 3 months" and "3 years and over" groups, or from 72 to 63 percent (table 10).

The trends observed for specific age, urbanrural residence, and family income groups are not inconsistent with the above.

Health Status

Obviously the state of a person's health may be an important factor influencing his desire to participate in a health examination. It can be hypothesized that persons with recent manifest health problems might reasonably be expected to be more inclined to participate than people who have not had such experiences. On the other hand, some persons with painful chronic conditions and activity limitation may be less willing to make the necessary effort to undergo the examination.

In an attempt to develop a rough index of the health status of an individual three different variables were considered collectively. These were the respondents' statements of:

- Presence or absence of a chronic condition
- Any limitation of activity in cases where a chronic condition was reported
- 3. Visiting a physician during the 12 months preceding household interview

(For a precise definition of physician visit see Appendix II.)

This structuring provided a means of ranking people according to their degrees of health. In

general, persons in the first category in table K probably have the poorest health, those in the last category, the best.

The detailed results of this classification are shown in tables 3, 7, and 9. The pattern shown in table K is fairly consistent for specific urban-rural residence and income groups.

Naturally, the age distribution is quite different for each of the four categories of the health status index. For example, three percent of the

persons with chronic conditions and activity limitation were 18-24 years of age, while the corresponding figure for people with no chronic conditions and no physician visits during the past year was 14 percent. Table K shows the trend by health status for the expected favorable response which would occur if the age distributions of each health status category were the same as the age distribution of the total population.

Table K. Index of health status and percent favorable response

		Percent favo:	rable response
	Index	Unadjusted	Age adjusted
	Persons with chronic conditions, activity limited	70	76
2.	Persons with chronic conditions, activity not limited	74	75;
	Persons with no chronic conditions but a physician was visited within the past year	71	. 68
4.	Persons with no chronic conditions and no physician visited within the past year	66	65

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Table 1. Percent distribution of response, persons 18 years of age and over, by respondent status and urban-rural residence

Due to rounding, the detailed figures may not add to 100 percent. The survey design, general qualifications, and information on the reliability of the estimates are given in Appendix I. Definitions of terms are given in Appendix II. The supplement form and questionnaire are given in Appendix III]

			Resp	onse an	d respo	ndent s	tatus		
Urban-rural residence		Yes			No		Don't know		
	Total	Self	Proxy	Total	Self	Proxy	Total	Self	Proxy
All areas	71	76	64	25	23	28	4	1	8
All urban	67	72	59	29	26	33	4	2	8
Large metropolitanSmall metropolitanOther urban	64 65 74	70 72 77	53 57 69	33 30 22	28 28 22	39 34 22	4 5 4	2 1 2	7 9 9
Rural	77	82	71	19	17	21	4	1	8

Table 2. Percent distribution of response by age and urban-rural residence (See headnote on table 1)

		Age	and respo	nse	
Urban-rural residence	All ages 18+	18-24	25-44	45-64	65+
			Yes		
All areas	71	7:6	76	68	58
Large metropolitan	64	65	69	62 59	48 53
Small metropolitanOther urban	65 74 77	70 83 82	73 80 81	70 77	59 66
Kural	"	. 02	No No	,	00
411	25	20	i 20 i	28	38
All areas	23	20	20	20	36
Large metropolitanSmall metropolitan	33	31 28	27 22	34 36	50 42
Other urban	22	15	16	25	36
Rural	19	12	16	19	31
	Ī		Don't kno	o₩	
All areas	4	4.	4	3	4
Large metropolitan	4	4	4	4	2
Small metropolitan	5	2	5	5	4
Other urbanRural	4 4	2	4 3	5 4	5 4
MULUI		ľ		,	,

Table 3. Percent distribution of response, persons 18 years of age and over, by $\frac{\text{health status}}{\text{and region}}$

[Due to rounding, the detailed figures may not add to 100 percent. The survey design, general qualifications, and information on the reliability of the estimates are given in Appendix I. Definitions of terms are given in Appendix II. The supplement form and questionnaire are given in Appendix II.

							
			se				
			th chronic tions		h no chronic itions		
Region	Total	Acti	vity	Physician			
		Limited	Not limited	Visited within l year	Not visited within l year		
			Yes				
All regions	71	70	74	71	66		
Northeast North Central South West	62 70 78 75	60 66 78 75	66 73 82 78	64 72 76 75	57 67 73 68		
			No				
All regions	25	28	22	25	28		
Northeast	33 26 18 21	38 31 19 23	29 24 15 19	33 25 19 22	36 28 21 25		
			Don't know	•			
All regions	4	3	4	4	. 6		
Northeast	5 4 4 4	2 3 3 1	5 4 3 3	. 3 5 3	8 5 6 7		

Table 4. Percent distribution of response by age and region

Due to rounding, the detailed figures may not add to 100 percent. The survey design, general qualifications, and information on the reliability of the estimates are given in Appendix 1. Definitions of terms are given in Appendix 11. The supplement form and questionnaire are given in Appendix 11]

		Age	and respo	nse	
Region	All ages 18+	18-24	25-44	45-64	65+
			Yes		
All regions	71	76	76	68	58
Northeast	62 70 78	67 73 82	70 77 80	59 68 76	69
West	75		No		l 68
NortheastSouth	33 26 18 21	20 31 24 13 16	25 19 16 18	36 28 19 25	53 41 26 29
			Don't kno	W	
All regions	4	4	4	5	4
Northeast	5 4 4 4	2 4 5 4	5 3 4 4	5 4 5 4	3 5 5 3

Table 5. Percent distribution of response, persons 18 years of age and over, by race, sex, and region

[Due to rounding, the detailed figures may not add to 100 percent. The survey design, general qualifications, and information on the reliability of the estimates are given in Appendix 1. Definitions of terms are given in Appendix 11. The supplement form and questionnaire are given in Appendix 11.

	<u> </u>			Race,	sex, and	respon	se		
		Ra	ce	S	ex		Race a	nd sex	
Region	Total	"				Wh	ite	Non	white
		White	Non- white	Male	Female	Male	Female	Male	Female
All regions	71	70	83	70	72	.69	70	82	84
Northeast	62	61	86	62	62	61	61	85	87
North Central	70	69	81	69	71	68	70	77	85
South	78	76	85	77	78	75	77	85	84
West	75	75	78	73	l 77	73	76	76	l ´ 80
					No				
All regions	25	26	13	24	26	26	27	13	13
Northeast	33	34	12	31	34	. 33	36	12	12
North Central	26	27	16	26	26	27	.27	18	14
South	18	20	11	17	19	19	20	9	12
West	21	22	l 17	22	21	22	22	16	1 17
					Don't k	now			
All regions	4	1 4	4	6	3	6	3	5	3
	_	_	_			-	2		
Northeast	5 4	5 4	2.3	6 5	3	6 5	3	3 5	
South	4	4	5	6	3	6	3	5	1 4
West	4	4	5	5	2	5	2	7	4

Table 6. Percent distribution of response, persons 18 years of age and over, by $\frac{\text{education of }}{\text{family head}}$

[Due to rounding, the detailed figures may not add to 100 percent. The survey design, general qualifications, and information on the reliability of the estimates are given in Appendix I. Definitions of terms are given in Appendix II. The supplement form and questionnaire are given in Appendix III]

	Response	and education	of famil	y head
Region	All educational groups	Less than 9 years	9-12 years	College
		Yes		
All regions	71	71	72	67
Northeast	62 70 78 75	60 69 81 75	67 74 75 75	59 66 69 76
		No		
All regions	25	24	24	30
Northeast	33 26 18 21	35 26 14 22	29 24 21 21	37 31 28 22
		Don't kno	w	
All regions	4	<u>5</u>	3	3
Northeast	5 4 4 4	5 5 5 4	4 2 4 4	4 4 3 3

Table 7. Percent distribution of response by health status, urban-rural residence, and age

[Due to rounding, the detailed figures may not add to 100 percent. The survey design, general qualifications, and information on the reliability of the estimates are given in Appendix I. Definitions of terms are given in Appendix II. The supplement form and question-naire are given in Appendix [11]

					Resp	onse a	nd health	status		-		
			Yes				No			Do	n't know	
Urban-rural residence and age	wi chr	sons th onic on- ions	wi n chr	sons th o onic litions	wi chr cc	sons th onic n-	wi n chr	sons th o onic litions	Persons with chronic con- ditions		wi n chr	sons th o onic itions
*	Acti	vity	Physician		Acti	vity	Phys	ician	Acti	vity	Physician	
	Lim- ited	Not lim- ited	Visited within 1 year	Not visited within l year	Lim- ited	Not lim- ited	Visited within l year	Not visited within l year	Lim- ited	Not lim- ited	Visited within 1 year	Not visited within l year
All areas				,				,			,	_
All ages-18+	70	74	71	66	28	22	25	28	3	4	4	6
18-24 25-44 45-64 65+	83 82 74 58	83 80 70 62	73 75 64 49	71 69 63 55	16 17 24 39	15 17 25 35	22 21 32 45	24 23 32 42	1 1 3 3	2 3 5 4	5 3 4 7	5 8 5 4
Large metropolitan	63	(7		50	2/	20	25	25	3	. 4	2	7
All ages-18+	63	67	63	59	34	. 29	35	35_				7
48-24 25-44 45-64 65+	55 73 71 47	80 73 62 53	· 64 70 58 21	54 62 57 55	40 26 26 50	18 23 33 46	31 29 41 79	42 29 38 44	5 2 3 3	2 3 5 1	5 2 2 -	4 9 5 1
Small metropolitan	·											
All ages-18+	63	. 68	64	62	35	27	32	32	3	5	3	6
18-24 25-44 45-64 65+	43 82 64 53	75 76 62 56	67 72 53 48	72 67 56 52	57 18 34 43	23 19 33 40	32 26 41 46	24 25 38 43	1 3 3	2 5 6 5	1 3 6 6	4 8 6 5
Other urban	69	7.6	70	70	29	20	19	23	3	4	4	7
All ages-18+		76	78							-		7
18-24 25-44 45-64 65+	80 80 72 59	91 80 72 59	76 83 74 57	83 75 63 56	20 20 24 38	8 17 24 34	22 13 21 35	13 16 32 36	- 4 3	2 3 5 7	2 4 5 8	4 9 5 8
<u>Rural</u>						ļ						
All ages-18+	76	82	78	71	22	16	17	23	3	3	5	6
18-24 25-44 45-64 65+	95 88 79 64	87 85 79 72	82 78 74 64	75 73 70 56	5 10 19 33	11 13 17 26	10 18 22 25	18 21 24 42	2 2 2 4	2 2 4 3	9 4 4 1	7 6 6 3

Table 8. Percent distribution of response, persons 18 years of age and over, by time interval since last physician visit, urban-rural residence, and family income

[Due to rounding, the detailed figures may not add to 100 percent. The survey design, general qualifications, and information on the reliability of the estimates are given in Appendix 1. Definitions of terms are given in Appendix II. The supplement form and Questionnaire are given in Appendix II]

The supplement form and questions	7						ince	1201	physi	cian u	icit	
		Yes			ie Ince	No		Tast		Don't		
Urban-rural residence	Mor	ths		Years		Months		rs	Months		Years	
and family income	Less than 3	3-11	1-2	3+	Less than 3	3-11	1-2	3+	Less than 3	3-11	1-2	3+
All areas												
All income groups	72	73	73	63	25	23	25	31	3	4	4	7
Less than \$2,000 \$2,000-4,999 \$5,000-6,999 \$7,000+	69 77 73 67	67 77 77 69	71 75 76 68	57 67 68 61	27 21 25 30	28 18 19 29	26 20 22 27	35 28 25 32	5 2 2 4	4 5 4 3	3 5 2 5	8 5 7 8
Large metropolitan All income groups	65	65	65	55	32	32	32	36	3	3	3	. 9
Less than \$2,000 \$2,000-4,999 \$5,000-6,999 \$7,000+	60 66 72 62	46 69 75 62	62 67 67 64	56 58 56 50	38 31 27 35	53 26 22 37	36 31 32 30	37 38 30 39	3 4 1 3	1 5 3 1	2 2 1 7	7 5 14 11
Small metropolitan		60	60		2.			0.6			_	_
All income groups Less than \$2,000 \$2,000-4,999 \$5,000-6,999 \$7,000+	66 60 73 63 65	54 73 73 65	66 75 73 57	57 44 62 65 62	31 37 25 34 32	28 44 20 21 32	32 17 23 38	36 48 31 29 32	3 2 3 3	3 7 6 2	5 2 8 5 5	7 9 7 5 7
Other urban All income groups	73	78	76	64	24	18	19	29	. 3	4.	5	7
Less than \$2,000\$2,000-4,999\$5,000-6,999\$7,000+	66 79 75 68	81 79 75 75	67 77 78 85	60 64 71 68	30 19 20 30	16 17 20 20	26 18 20 12	30 30 26 26	4 2 5 2	3 5 4 5	7 5 2 3	10 6 3 7
Rural All income groups	79	80	78	70	18	16	18	25	3	4	4	5
Less than \$2,000 \$2,000-4,999 \$5,000-6,999 \$7,000+	76 84 79 73	75 84 84 75	77 79 85 71	63 74 82 67	18 14 21 21	18 14 13 22	20 15 14 26	31 22 16 27	6 2 1 6	7 3 3 3 3	3 6 2 4	7 4 2 6

Table 9. Percent distribution of response, persons 18 years of age and over, by health status, urban-rural residence, and family income

Due to rounding, the detailed figures may not add to 100 percent. The survey design, general qualifications, and information on the reliability of the estimates are given in Appendix I. Definitions of terms are given in Appendix II. The supplement form and question-naire are given in Appendix III]

		Response and health status Yes No Don't know											
•	L		Yes				No			Do	n¹t know		
Urban-rural residence and family income	wi chr co	Persons with chronic con- ditions		Persons with no chronic conditions			Persons with no chronic conditions		Persons with chronic con- ditions		wi r chr	sons th o onic itions	
	Acti	Activity		Physician		vity	Phys	ician	. Acti	lvity	Phys	ician	
	Lim- ited	Not lim- ited	Visited within 1 year	Not visited within l year	Lim- ited	Not lim- ited	Visited within 1 year	Not visited within l year	Lim- ited	Not lim- ited	Visited within 1 year	Not visited within l year	
All areas													
All income groups	70	74	71	66	28	22	25	28	3	4	4	6	
Less than \$2,000 \$2,000-4,999 \$5,000-6,999 \$7,000+	69 71 73 65	70 78 78 70	65 76 72 67	60 71 70 62	28 27 26 31	26 18 19 27	29 21 25 29	33 23 25 32	3 2 1 4	4 4 3 3	6 3 4 4	7 6 5 7	
Large metropolitan									·				
All income groups	63	67	63	59	34	29	35	35	3	4	2.	7	
Less than \$2,000 \$2,000-4,999 \$5,000-6,999 \$7,000+	63 63 66 58	55 70 73 65	47 66 74 59	58 61 60 55	37 33 31 38	41 64 27 30	52 32 23 39	35 36 31 38	4 3 4	4 5 1 5	1 3 3 2	7 3 9 6	
Small metropolitan					••								
All income groups	63	68	64	62	35	27	32	32	3	5	3	6	
Less than \$2,000 \$2,000-4,999 \$5,000-6,999 \$7,000+	51 69 83 64	59 73 71 67	59 71 63 61	51 70 65 59	46 29 17 31	37 20 24 32	39 25 33 35	43 22 30 34	3 2 - 5	4 7 6 1	2 3 4 4	6 7 5 7	
Other urban All income groups	69	.76	78	. 70	29	20	19	23	3	4	4	7	
Less than \$2,000 \$2,000-4,999 \$5,000-6,999 \$7,000+	68 74 65 61	70 80 77 72	77 78 79 77	63 70 74 78	28 25 35 34	25 16 18 25	17 19 16 21	28 24 23 17	4 7 - 6	5 4 4 4	5 3 6 2	9 7 4 5	
Rural													
All income groups	76	82	78	71	22	16	17	23	3	3	5	6	
Less than \$2,000 \$2,000-4,999 \$5,000-6,999 \$7,000+	75 76 81 76	78 84 87 74	72 84 73 77	63 78 81 60	21 23 20 21	18 14 11 23	18 12 24 17	30 17 17 32	4 1 - 3	4 2 1 3	1 4 3 6	7 5 2 8	

Table 10. Percent distribution of response, persons 18 years of age and over, by $\frac{\text{time interval}}{\text{since last physician visit, urban-rural residence, and age}}$

Due to rounding, the detailed figures may not add to 100 percent. The survey design, general qualifications, and information on the reliability of the estimates are given in Appendix 1. Definitions of terms are given in Appendix II. The supplement form and questionnaire are given in Appendix III]

	R	espons	e and	l tim	e inte	rval s	ince	last	physi	cian v	isit	
•		Yes				No)			Don't	know	
Urban-rural residence	Mon	ths	Yea	Years		Months		Years		Months		ırs
and age	Less than 3	3-11	1-2	3+	Less than 3	3-11	1-2	3+	Less than 3	3-11	1-2	3+
All areas					-							
All ages-18+	72	73	73	63	25	23	23	31	3	4	4	7
18-24 25-44 45-64 65+	80 78 69 59	75 78 70 59	72 78 69 64	72 67 62 50	17 20 27 38	21 18 26 36	23 18 26 33	21 24 33 45	3 2 4 3	3 4 4 5	4 4 5 4	6 9 5 5
Large metropolitan									_			
All ages-18+	65	65	65	55	32	32	32	36	3	3	3	9
18-24 25-44 45-64 65+	75 72 62 45	64 70 63 48	54 71 63 63	65 58 56 39	20 26 34 54	34 26 34 50	44 27 33 32	25 29 37 59	5 2 4 4	2 4 3 2	2 2 4 6	10 13 7 3
Small metropolitan								-				
All ages-18+	-66	-68	68	57	31	28	27	36	3 -	5	5	7
18-24 25-44 45-64 65+	74 73 58 60	68 75 62 45	73 80 56 49	57 58 58 51	26 26 37 38	30 18 34 50	23 15 38 45	34 34 35 42	1 5 3	2 7 5 5	3 5 . 6 6	9 8 6 6
Other urban	70	70	76		24		10	20	2	,	-	_
All ages-18+	73	78	76	64	24	18	19	29	3	4	.5	7
18-24 25-44 45-64	82 80 72 55	84 83 74 63	81 81 74 64	88 71 58 55	17 17 24 41	15 14 20 30	12 14 23 32	12 19 37 33	1 3 4 4	1 3 6 8	7 5 3 5	- 10 6 7
Rural		20							٠	_		_
All ages-18+	79	80	78	70	18	16	18	25	3	4	4	5
18-24 25-44 45-64 65+	84 82 78 67	85 82 79 70	80 81 78 · 69	75 76 69 52	11 16 18 29	9 15 18 25	15 17 16 30	18 18 27 44	6 2 4 4	7 3 3 5	5 3 6 2	6 6 4 4

Table 11. Percent distribution of response, persons 18-64 years of age, by $\underline{\text{major activity and}}$ urban-rural residence

[Due to rounding, the detailed figures may not add to 100 percent. The survey design, general qualifications, and information on the reliability of the estimates are given in Appendix 1. Definitions of terms are given in Appendix 11. The supplement form and questionnaire are given in Appendix 111]

	Major ac	tivity and r	esponse (18-	64 years)					
Urban-rural residence	Total.	Usually working	Keeping house	Other					
		Y	es						
All areas	73	71	77	73					
UrbanRural	69 79	67 77	73 83	68 82					
	No								
All areas	23	. 24	21	25					
Urban	27 17	27 18	25 15	30 14					
		Don't	know						
All areas	4	6	2	3					
UrbanRural	4 4	6 5	2 2	2 4					

Table 12. Percent distribution of response, persons 18-64 years of age, by education of family head and urban-rural residence

(See headnote on table [])

	Education	of family head	and response (1	8-64 years)			
Urban-rural residence	All educational groups	Less than 9 years	9-12 years	College			
		Y	'es				
All areas	73	74	74	69			
UrbanRural	69 79	67 82	72 79	67 72			
	No						
All areas	23	21	23	28			
UrbanRural	27 17	28 13	25 18	29 27			
	-	Don't	know				
All areas	4	5	3	3			
UrbanRural	4 4	5 5	4 3	4 2			

POPULATION

Tables 13-19 contain estimates of the civilian noninstitutional population of the United States 18 years of age and over based on interviews conducted by the U. S. National Health Survey during the period, January 27-March 30, 1958. These estimates have been used as denominators for the percentages shown in this report. They are included in the publication for the purpose of

determining the appropriate standard errors of the statistics. They are not official population estimates.

For official population estimates, see Bureau of the Census reports on the civilian population of the United States, in <u>Current Population Reports</u>: Series P-20.

Table 13. Population used in obtaining percents shown in this publication by respondent status, age, urban-rural residence, and region

Due to rounding, the detailed figures may not add to the total. The survey design, general qualifications, and information on the reliability of the estimates are given in Appendix I. Definitions of terms are given in Appendix II. The supplement form and questionnaire are given in Appendix III

Urban-rural residence		Respondent status		Age				
and region	Total	Self	Proxy	18-24	25-44	45-64	65+	
			Popula	tion in	thousand	ls		
All areas	97,970	58,890	39,080	12,420	40,140	32,040	13,370	
All urban	60,870	37,100	23,770	7,850	24,380	20,410	8,220	
Large metropolitan	23,260 19,820 17,790	14,190 12,020 10,890	9,070 7,800 6,900	2,690 2,720 2,440	9,590 7,980 6,810	8,240 6,380 5,790	2,750 2,720 2,750	
Rura1	37,110	21,790	15,320	4,570	15,760	11,630	5,150	
Northeast	25,400 30,340 27,680 14,550	14,810 18,580 16,210 9,290	10,590 11,760 11,470 5,260	2,610 3,630 4,320 1,830	10,780 11,960 11,150 6,240	8,720 10,220 8,570 4,550	3,290 4,530 3,630 1,930	

Table 14. Population used in obtaining percents shown in this publication, persons 18 years of age and over, by race, sex, and region

[Due to rounding, the detailed figures may not add to the total. The survey design, general qualifications, and information on the reliability of the estimates are given in Appendix 1. Definitions of terms are given in Appendix 11. The supplement form and questionnaire are given in Appendix 111]

	Race and sex								
Region				Wh	ite	Nonwhite			
	Total	White	Nonwhite	Males	Females	Males	Females		
	Population in thousands								
All regions	97,970	88,000	9,970	41,700	46,300	4,700	5,270		
Northeast North Central	25,400 30,340 27,680 14,550	24,020 27,920 22,480 13,590	1,390 2,420 5,210 960	11,160 13,400 10,750 6,420	12,860 14,520 11,730 7,170	650 1,230 2,380 440	740 1,190 2,830 520		

Table 15. Population used in obtaining percents shown in this publication, persons 18 years of age and over, by education of family head and region

(See headnote on table 14)

The state of the s	Education of family head					
Region	All educational groups	Less than 9 years	9-12 years	College		
	Population in thousands					
All regions	97,970	43,120	38,690	16,170		
Northeast North Central South West	25,400 30,340 27,680 14,550	10,980 12,850 14,820 4,470	10,290 12,620 9,110 6,660	4,130 4,870 3,750 3,420		

Table 16. Population used in obtaining percents shown in this publication, persons 18 years of age and over, by health status, urban-rural residence, and region

[Due to rounding, the detailed figures may not add to the total. The survey design, general qualifications, and information on the reliability of the estimates are given in Appendix I. Definitions of terms are given in Appendix II. The supplement form and questionnaire are given in Appendix III]

	Health status							
Urban-rural residence	Pers	ons with conditi		Pe	Persons with no chronic conditions			
and region		Activity			Physician			
	Total	Limited	Not limited	Total:	Visited within l year	Not visited within 1 year		
			Populati	on in th	ousands			
All areas	53,040	15,020	38,020	44,930	23,520	21,410		
All urban	32,120	8,620	23,500	28,740	15,310	13,430		
Large metropolitan Small metropolitan Other urban	11,930 10,060 10,140	3,340 2,350 2,930	8,590 7,710 7,210	11,340 9,750 7,640	6,090 5,210 4,000	5,250 4,540 3,640		
Northeast North Central South West	12,610 17,070 14,830 8,520	6,410 3,530 4,750 4,490 2,250	9,080 12,320 10,340 6,270	16,190 12,780 13,270 12,860 6,030	8,210 6,950 6,490 6,810 3,270	7,980 5,830 6,780 6,050 2,760		

Table 17. Population used in obtaining percents shown in this publication, persons 18 years of age and over, by health status, time interval since last physician visit, urban-rural residence, and age

[Due to rounding, the detailed figures may not add to the total. The survey design, general qualifications, and information on the reliability of the estimates are given in Appendix I. Definitions of terms are given in Appendix II. The supplement form and questionnaire are given in Appendix III]

		Health	status		Time interval since last physician visit						
Urban-rural residence and age	chro	tions	no ch condi	s with ronic tions ician	Less than 3 months	3-11 months	1-2 years	3+ years			
	Limited	Not limited	Visited within l year	Not visited within l year	Morreira						
		Population				n thousands					
All areas											
All ages-18+	15,020	38,020	23,520	21,410	35,870	27,600	18,610	15,880			
18-24 25-44 45-64 65+	460 3,230 5,610 5,720	3,560 15,900 13,800 4,770	5,410 11,560 5,490 1,050	2,990 9,450 7,140 1,820	4,210 14,010 11,870 5,780	4,540 12,230 7,910 2,910	2,320 7,960 6,170 2,160	1,350 5,930 6,100 2,510			
Large metropolitan											
All ages-18+	3,340	8,590	6,090	5,250	8,710	6,530	4,460	3,550			
18-24 25-44 45-64 65+	70 840 1,320 1,110	700 3,420 3,470 990	1,180 2,950 1,700 260	720 2,380 1,760 380	860 3,380 3,340 1,120	980 2,850 2,030 680	580 1,860 1,580 440	240 1,510 1,290 510			
Small metropolitan											
All ages-18+	2,350	7,710	5,210	4,540	6,750	6,170	3,410	3,490			
18-24 25-44 45-64 65+	40 540 7,740 1,010	880 3,200 2,620 1,020	1,330 2,320 1,360 200	490 1,930 1,640 490	850 2,610 2,100 1,180	1,260 2,650 1,730 540	400 1,500 1,160 340	220 1,220 1,400 660			
Other urban											
All ages-18+	2,930	7,210	4,000	3,640	6,820	4,810	3,550	2,610			
18-24 25-44 45-64	60 500 1,210 1,150	850 2,930 2,400 1,040	1,040 1,830 910 230	500 1,550 1,280 320	930 2,520 2,040 1,330	870 1,970 1,400 570	430 1,450 1,230 440	210 870 1,120 420			
<u>Rural</u>							,				
All ages-18+	6,410	14,510	8,210	7,980	13,610	10,090	7,200	6,190			
18-24 25-44	300 1,370 2,310 2,440	1,130 6,340 5,320 1,720	1,870 4,460 1,530 350	1,280 3,600 2,480 630	1,560 5,500 4,400 2,160	1,430 4,770 2,750 1,120	910 3,150 2,190 950	670 2,340 2,280 920			

Table 18. Population used in obtaining percents shown in this publication, persons 18 years of age and over, by health status, time interval since last physician visit, urban-rural residence, and family income

[Due to rounding, the detailed figures may not add to the total. The survey design, general qualifications, and information on the reliability of the estimates are given in Appendix I. Definitions of terms are given in Appendix II. The supplement form and questionnaire are given in Appendix III]

		Health	status		Time interval since last physician visit				
Urban-rural residence and family income	chro condi	s with nic tions vity	no ch condi	s with ronic tions ician	Less	3-11	1-2	3+	
	Limited	Not limited	Visited within l year	Not visited within l year	than 3 months	months	years	years	
All areas	•	thousan	ds		•				
All income groups	15,020	38,020	23,520	21,410	35,870	27,600	18,610	15,880	
Less than \$2,000 \$2,000-4,999 \$5,000-6,999 \$7,000+	6,420 5,080 1,980 1,550	8,650 12,570 8,810 8,010	4,490 8,200 5,290 5,540	5,620 7,250 4,470 4,040	8,850 12,200 7,550 7,280	6,290 9,570 6,270 5,470	4,650 6,260 3,790 3,900	5,390 5,070 2,940 2,490	
Large metropolitan	•								
All income groups	3,340	8,590	6,090	5,250	8,710	6,530	4,460	3,550	
Less than \$2,000 \$2,000-4,999 \$5,000-6,999 \$7,000+	1,010 1,240 620 460	1,350 2,550 2,270 240	970 1,940 1,480 1,700	1,070 1,500 1,480 1,200	1,620 2,700 2,180 2,200	1,050 2,220 1,650 1,630	760 1,410 1,050 1,240	970 890 990 710	
Small metropolitan								`	
All income groups	2,350	7,710	5,210	4,540	6,750	6,170	3,410	3,490	
Less than \$2,000 \$2,000-4,999 \$5,000-6,999 \$7,000+	930 860 290 280	1,400 2,400 2,220 1,670	890 1,630 1,220 1,480	1,100 1,520 880 1,040	1,400 2,110 1,600 1,650	1,220 2,000 1,600 1,360	610 1,130 740 920	1,090 1,180 680 530	
Other urban							'		
All income groups	2,930	7,210	4,000	3,640	6,820	4,810	3,550	2,610	
Less than \$2,000 \$2,000-4,999 \$5,000-6,999 \$7,000+	1,150 1,020 410 350	1,640 2,600 1,430 1,570	820 1,540 740 900	950 1,400 610 690	1,600 2,590 1,230 1,400	1,200 1,740 970 910	900 1,280 640 730	850 940 360 470	
Rural									
All income groups	6,410	14,510	8,210	7,980	13,610	10,090	7,200	6,190	
Less than \$2,000 \$2,000-4,999 \$5,000-6,999 \$7,000+	3,340 1,970 650 460	4,260 5,010 2,880 2,360	1,810 3,100 1,850 1,460	2,500 2,850 1,510 1,120	4,230 4,790 2,550 2,040	2,830 3,620 2,060 1,580	2,390 2,460 1,350 1,000	2,470 2,050 910 770	

Table 19. Population used in obtaining percents shown in this publication, persons 18-64 years of age, by major activity and urban-rural residence

[Due to rounding, the detailed figures may not add to the total. The survey design, general qualifications, and information on the reliability of the estimates are given in Appendix 1. Definitions of terms are given in Appendix 11. The supplement form and questionnaire are given in Appendix 11.

Urban-rural	Major activity (18-64 years)						
residence	Total	Usually working	Keeping house	Other			
·	Population in thousands						
All areas	84,300	50,590	27,170	6,540			
UrbanRural	52,420 31,880	32,290 18,300	15,910 11,260	4,220 2,320			

APPENDIX I

TECHNICAL NOTES ON METHODS

Statistical Design of the Health Interview Survey

General plan.—The sampling plan of the survey follows a multistage probability design which permits a continuous sampling of the civilian population of the United States. At the time of this study the first stage of this design consisted of an area sample of 372 from among approximately 1,900 geographically defined Primary Sampling Units (PSU's) into which the United States has been divided. A PSU is a county, a group of contiguous counties, or a Standard Metropolitan Area.

With no loss in general understanding, the remaining stages can be telescoped and treated in this discussion as an ultimate stage. Within PSU's, then, ultimate stage units called segments are defined, also geographically, in such a manner that each segment contains an expected six households in the sample. Each week a random sample of about 120 segments is drawn. In the approximately 700 households in those segments persons are interviewed concerning illnesses, injuries, chronic conditions, disability, and other factors related to health.

The household members interviewed each week are a representative sample of the population so that samples for successive weeks can be combined into larger samples for, say a calendar quarter, or a year. Thus the design permits both continuous measurement of characteristics of high incidence or prevalence in the population, and through the larger consolidated samples more detailed analysis of less common characteristics and smaller categories. The continuous collection has administrative and operational advantages, as well as technical assets, since it permits field work to be handled with an experienced, stable staff.

Collection of data.—The field operations for the household survey are performed by the Bureau of the Census under specifications established by the Public Health Service, In accordance with these specifications the Bureau of the Census designs and selects the sample, conducts the field interviewing acting as collecting agent for the Public Health Service, and edits and codes the questionnaires. Tabulations are prepared by the Public Health Service using the Bureau of the Census electronic computers.

Estimating methods.—Each statistic produced by the survey—for example, the incidence of acute illnesses in a specified period—is the result of two stages of ratio estimation. In the first of these, the ratio factor is 1950 decennial population count to estimated population for 1950 for the U. S. National Health Survey's first-stage sample of PSU's. These factors are applied for 132 color-residence classes.

Later, ratios of sample-produced estimates of the population to official Bureau of the Census figures for current population in 76 age-sex-color classes are computed, and serve as second-stage factors for ratio estimating.

The effect of the ratio estimating process is to make the sample more closely representative of the population by age, sex, color, and residence, thus reducing sampling variance,

As noted, each week's sample represents the population living during that week and characteristics of that population. Consolidation of samples over a time period, say a calendar quarter, produces estimates of average characteristics of the U. S. population for that calendar quarter.

The interviewing and estimation procedures, as noted earlier, are designed to reproduce the experience in the reference period of the questionnaire for the population living at the time of interview.

General Qualifications

Nonresponse.—Data were adjusted for nonresponse by a procedure which imputed to persons in a household not interviewed the characteristics of interviewed persons in the same segment. The total noninterview rate was 6 percent; 1 percent was refusal, and the remainder was accounted for by all other reasons, such as failure to find any household respondent after repeated trials.

The interview process.—The statistics presented in this report are based on replies secured in interview of persons in the sampled households. Each person 18 years and over, available at the time of interview, was interviewed individually. Proxy respondents within the household were employed for adults not available at the time of the interview provided the respondent was closely related to the person about whom information was being obtained.

Rounding of numbers.—The original tabulations on which data in this report are based show all estimates to the nearest whole unit. All consolidations were made from the original tabulations using the estimates to the nearest unit. In the final published tables the figures are shown in thousands, although they are not necessarily accurate to that detail.

Population figures.—Some of the published tables include population figures for specified categories. These figures are based on the sample of households in the U.S. National Health Survey, are given solely for the purpose of providing denominators for rate computation and for entering the sampling error table. They are more appropriate for use with the accompanying measures of health characteristics than any other datathat may be available. In some instances, they will permit users to recombine published data into classes more suitable to their specific needs. The population figures are not official estimates, in some cases being themselves subject to considerable variability, and as such should be used only for the purposes stated in connection with data given in this report. For fuller details on population estimates see Bureau of the Census reports in the P-20 series.

Table I. Standard error of estimated percentages (body of table expressed in percentage points)

Population estimate (denominator of percentage) 5
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
500,000
800,000
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
2,000,000
3,000,000
4,000,000
5.000.000 1.7 2.2 2.5 2.9 3.2 3.4 3.5 3.6 3.7 3.
5.000.000 1.7 2.2 2.5 2.9 3.2 3.4 3.5 3.6 3.7 3.
$\begin{bmatrix} 6,000,000 \\ 7,000,000 \\ \end{bmatrix}$ $\begin{bmatrix} 1.5 \\ 1.9 \\ 2.2 \\ 2.5 \\ 2.8 \\ 3.1 \\ 3.2 \\ 3.2 \\ 3.3 \\ 3.6 \\ 2.8 \\ 2.9 \\ 3.0 \\ 3.1 \\ 3.3 \\ 3.1 \\ 3.2 \\ 3.3 \\ 3.1 \\ 3.2 \\ 3.3 \\ 3.3 \\ 3.3 \\ 3.3 \\ 3.4 \\ 3.4 \\ 3.5 \\ 3.5 \\ 3.1 \\ 3.2 \\ 3.2 \\ 3.3 \\ 3.3 \\ 3.3 \\ 3.3 \\ 3.3 \\ 3.4 \\ 3.4 \\ 3.5 \\ 3.$
7,000,000
7,000,000 1.5 1.7 2.0 2.0 2.0 3.1 3.0
8,000,000
9,000,000 1.2 1.5 1.8 2.0 2.2 2.5 2.7 2.8 2.9 3
10,000,000 1.2 1.4 1.7 1.9 2.1 2.3 2.5 2.7 2.8 2
15,000,000
20,000,000 0.9 1.1 1.3 1.5 1.7 1.8 2.0 2.2 2.3 2
25,000,000
30,000,000 0.8 1.0 1.1 1.2 1.4 1.5 1.6 1.7 1.8 1.
35,000,000 0.7 0.9 1.0 1.1 1.2 1.3 1.5 1.6 1.7 1.
40,000,000 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.
45,000,000 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4
50,000,000
75,000,000 0.5 0.6 0.7 0.8 0.8 0.9 0.9 0.9 1.0 1
100,000,000

Illustration of the use of table 1.—An estimated 64 percent of the persons living in large metropolitan cities said they would be willing to co-operate in a health examination survey. The estimated number of persons living in large metropolitan cities is 23,260,000 as shown in table 13. Thus, for a denominator of 23,260,000, table I shows that an estimate of 64 percent has a standard error of approximately 1.9 percent.

Reliability of Estimates

Since the estimates are based on a sample, they will differ somewhat from the figures that would have been obtained if a complete census had been taken using the same schedules, instructions, and interviewing personnel and procedures. As in any survey, the results are also subject to measurement error.

The standard error is primarily a measure of sampling variability, that is, the variations that might occur by chance because only a sample of the population is surveyed. As calculated for this report, the standard error also reflects part of the variation which arises in the measurement process. It does not include estimates of any biases which might lie in the data. The chances are about 68 out of 100 that an estimate from the sample would differ from a complete census by less than the standard error. The chances are about 95 out of 100 that the difference would be less than twice the standard error and about 99 out of 100 that it would be less than 2½ times as large.

The estimates of standard errors shown in table I are approximations for the 372-area sample. Table I shows the average estimates of standard errors of percentages as obtained from 8 weeks of sampling. In order to derive standard errors which would be applicable to

a wide variety of health statistics and which could be prepared at a moderate cost, a number of approximations were required. As a result, table I should be interpreted as providing an estimate of approximate standard error rather than as the precise standard error for any specific percentage.

The standard errors shown in table I are not directly applicable to differences between two sample estimates. The standard error of a difference is approximately the square root of the sum of the squares of each standard error considered separately. This formula will represent the actual standard error quite accurately for the difference between separate and uncorrelated characteristics, although it is only a rough approximation in most other cases.

The reliability of an estimated rate or percentage, computed by using sample data for both numerator and denominator, depends upon both the size of the rate and the size of the total upon which the rate is based. Generally, estimated rates are relatively more reliable than the corresponding absolute estimates of the numerator of the rate, particularly if the rate is high. Table I shows approximate standard errors of estimated rates or percentages when the characteristic used to form the numerator of the percentage or rate is a subclass of the base or denominator.

APPENDIX II

DEFINITIONS OF CERTAIN TERMS USED IN THIS REPORT

Terms Relating to Health

Health status.-Health status is structured so as to provide a means of ranking people, though in a crude sense, by degrees of health. Persons in the first of the following four categories, in general, probably have the poorest health, and those in the last category probably have the best health.

- 1. Persons with chronic conditions, activity limited
- 2. Persons with chronic conditions, activity not limited
- 3. Persons with no chronic conditions, physician visited within one year
- 4. Persons with no chronic conditions, physician not visited within one year

Condition.-A morbidity condition, or simply a condition, is any entry on the questionnaire which describes a departure from a state of physical or mental well-being. It results from a positive response to one of a series of "illness-recall" questions. In the coding and tabulating process, conditions are selected or classified according to a number of different criteria, such as, whether they were medically attended; whether they resulted in disability; whether they were acute or chronic; or according to the type of disease, injury, impairment, or symptom reported.

Chronic condition. - A condition is considered to be chronic if (1) it is described by the respondent in terms of one of the chronic diseases on the "Check List of Chronic Conditions" (see Appendix III) or in terms of one of the types of impairments on the "Check List of Impairments," or (2) the condition is described by the respondent as having been first noticed more than 3 months before the week of the interview.

Terms Relating to Disability

Chronic activity limitation.—Persons with chronic conditions are classified into 4 categories according to the extent to which their activities are limited at present as a result of these conditions. Since the major activities of preschool children, school-age children, housewives, and workers and other persons differ, a different set of criteria is used for each group. There is a general similarity between them, however, as will be seen in the descriptions of the 4 categories below:

1. Persons unable to carry on major activity for

their group

Preschool children: inability to take part in ordinary play with other

children.

Housewives:

School-age children: inability to go to school. inability to do any housework.

Workers and all

other persons:

inability to work at a job

or business.

2. Persons limited in the amount or kind of major

activity performed

Preschool children:

limited in the amount or kind of play with other children, e.g., need special rest periods, cannot play strenuous games, cannot play for long pe-

riods at a time.

School-age children: limited to certain types

of schools or in school. attendance, e.g., need special schools or special teaching, cannot go to school full time or for long periods at a time.

Housewives:

limited in amount or kind of housework, e.g., cannot lift children, wash or iron, or do housework for long periods at a time.

Workers and all other persons:

limited in amount or kind of work, e.g., need special working aids or special rest periods at work, cannot work full time or for long periods at a time, cannot do strenuous work.

3. Persons not limited in major activity but other-

wise limited

Preschool children:

not classified in this cat-

egory.

School-age children:

not limited in going to school but limited in participation in athletics or other extracurricular ac-

tivities.

Housewives:

not limited in housework but limited in other activities, such as church, clubs, hobbies, civic proj-

ects, or shopping.

Workers and all

other persons:

not limited in regular work activities but limited in other activities, such as church, clubs, hobbies, civic projects, sports, or games.

4. Persons not limited in activities

Includes persons with chronic conditions whose activities are not limited in any of the ways described above.

Medical Care Terms

Physician visit. -- A physician visit is defined as consultation with a physician, in person or by telephone. for examination, diagnosis, treatment, or advice, The visit is considered to be a physician visit if the service is provided directly by the physician or by a nurse or other person acting under a physician's supervision. For the purpose of this definition "physician" includes doctors of medicine and osteopathic physicians. The term "doctor" is used in the interview, rather than "physician," because of the need to keep to popular usage. However, the concept toward which all instructions are directed is that which is described here.

Physician visits to hospital inpatients are not included.

If a physician is called to the house to see more than one person, the call is considered to be a separate physician visit for each person about whom the physician was consulted.

A physician visit is associated with the person about whom the advice was sought, even if that person did not actually see or consult the physician. For example, if a mother consults a physician about one of her children, the physician visit is ascribed to the child.

Interval since last physician visit,-The interval since the last physician visit is the length of time prior to the week of interview since a physician was last consulted in person or by telephone for treatment or advice of any type whatsoever, (See definition of "Physician visit.")

The interval is recorded to the nearest month for periods of a month or more but less than a year, and to the nearest year for periods of a year or more.

Demographic, Social, and Economic Terms

Age. - The age recorded for each person is the age at last birthday. Age is recorded in single years and grouped in a variety of distributions depending upon the purpose of the table.

Race. - Race is recorded as "White," "Negro," or "Other." "Other" includes American Indian, Chinese, Japanese, and so forth. Mexican persons are included with "White" unless definitely known to be Indian or other nonwhite race.

Income of family or of unrelated individuals. - Each member of a family is classified according to the total income of the family of which he is a member. Within the household all persons related to each other by blood, marriage, or adoption constitute a family. Unrelated individuals are classified according to their own income.

The income recorded is the total of all income received by members of the family (or by an unrelated individual) in the 12-month period ending with the week of interview, Income from all sources is included, e.g., wages, salaries, rents from property, pensions, help from relatives, and so forth.

Major activity.-All persons 6 years old or over are classified according to their major activity during the 12-month period prior to the week of interview. This report, however, refers only to persons aged 18 and over. The "major activity," in case more than one is reported is the one at which the person spent the most time during the 12-month period.

The categories of major activity are: usually working, usually keeping house, and other. For several reasons these categories are not comparable with somewhat similarly named categories in official Federal

labor force statistics, in the first place, the responses concerning major activity are accepted without detailed questioning, since the objective of the question is not to estimate the numbers of persons in labor force categories but to identify crudely certain population groups which may have differing health problems. In the second place, the figures represent the major activity over the period of an entire year, whereas official labor force statistics relate to a much shorter period, usually one week. Finally, in the definitions of the specific categories which follow, certain marginal groups are classified in a different manner to simplify the procedures.

- 1. Usually working includes paid work as an employee for someone else; self-employment in own business, or profession, or in farming; and unpaid work in a family business or farm. Work around the house, or volunteer or unpaid work, such as for church, Red Cross, etc., is not counted as working.
- 2. <u>Usually keeping house</u> includes any activity described as "keeping house" which cannot be classified as "working" or "going to school."
- 3. Other, in this report, includes all persons not classified as "usually working" or "usually keeping house."

Location of Residence Terms

Urban-rural residence.-This term refers to the urban or rural place of residence of the interview subjects. The definition of urban and rural areas used in the U.S. National Health Survey is the same as that used in the 1950 Census. According to this definition. the urban population comprises all persons living in (a) places of 2,500 inhabitants or more incorporated as cities, boroughs, and villages; (b) incorporated towns of 2,500 inhabitants or more except in New England, New York, and Wisconsin where "Towns" are simply minor civil divisions of counties; (c) the densely settled urban fringe, including both incorporated and unincorporated areas, around cities of 50,000 or more; and (d) unincorporated places of 2,500 inhabitants or more outside any urban fringe. The remaining population is classified as rural.

Large metropolitan. - Refers to urban areas comprising 1,000,000 or more population.

Small metropolitan. - Urban areas with less than 1,000,000 people which are composed of central cities of 50,000 or more.

Other urban. - This category includes the remainder of the urban population as defined above. In general it includes urban populations of less than 50,000.

Geographic region. - The regions referred to in this report correspond to those used by the Bureau of the Census, and are composed of the following States: States Included

Region

South

Maine, New Hampshire, Northeast Vermont, Massachusetts, Rhode Island, Connecticut, New York, New Jersey,

Pennsylvania

North Central Michigan, Ohio, Illinois, Indiana, Wisconsin, Minnesota, lowa,

> Missouri, North Dakota, South Dakota, Nebraska, Kansas Delaware, Maryland, District of

Columbia, Virginia,

West Virginia, North Carolina,

South-Continued

South Carolina, Georgia, Florida, Kentucky, Tennessee, Alabama, Mississippi, Arkansas, Louisiana, Oklahoma, Texas

West

Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Utah, Nevada, Washington, Oregon, California

APPENDIX III

THE SPECIAL SUPPLEMENT FORM AND QUESTIONNAIRE

The supplement form and pertinent parts of the questionnaire used in this study are shown below. The coding and classification of the answers to the supplement questions were done by the National Opinion Research Center of the University of Chicago.

Coding of the data on the basic questionnaire was then done at the Bureau of the Census, using procedures regularly followed for the continuing Health Interview Survey.

A. THE HEALTH EXAMINATION SUPPLEMENT FORM

	Form Approved: Budget Bureau No. 66-R630										
HHS-5-1-Sapplement 1 (1-23-50)		. u.	S DEPARTMENT OF COMMERCE SUREAU OF THE CENSUS	Iden. Code	Sub-sample	weight	Sample	PSU	Segment No	· [Serial No.
	HEALTH EXAMINA	TION SUPPLEMENT									
Last name	1	2	3		4		5				7
First name				•							
	Age	Age	Age	Age		Age		Age		Age	
Age (Question 5)	Under I year	Under 1 year	Under 1 year	Under I year		Unde:	1 year	Under I year		Unde	r 1 year
(Ask for all adults): learn all we need to k	As part of the Health Sur mow about health just by	vey, the Public Health Se asking questionsfor so	ervice will provide a free ne things we need actual	healti. exominati measurements a	on to so	me af the	e people we are i amination will in	nterviewing. A	s you wou visit to a	ld expe	ct, we cannot place.
1. If you are selected forthis special free examination and the time and place are convenient, will you be willing to came? (a) How about (each related adult), do you think he will be willing to came?	Yes No Qualified (verbatim) Don't know (verbatim)	Yes No Qualified (verbatim) Don't know (verbatim)	Yes No Qualified (verbatim) Don't know (verbatim)	Yes Yes Qualified (verbatim) Dop't know (verbatim)] No	☐ Don	lified batim)	Yes Qualified (verbatim) Don't know (verbatim)	<u> </u>	m Doi	
2. Who was the respondent for	Self	Self	☐ Self	☐ Self		C Sel		☐ Self		☐ Sel	f
guestion 1?	Col No	Col. No	Col. No	Cal. No		Col. No		Col. No		Col. N	o
Footnotes:			,								

USCOMM-DC 23127

B. PERTINENT PARTS OF THE BASIC QUESTIONNAIRE USED IN THE SURVEY

3. Race (Check one box for each person)	☐ White	☐ Negro
		Other
4. Sex (Check one box for each person)	☐ Male	☐ Pemale
5. How old were you on your last birthday?	Age	□ Under 1 year
If 14 years old or over, ask: 8. What is the highest grade you completed in school? (Circle highest grade completed or check "None")	Elem: 1	Under 14 years 2 3 4 5 6 7 8 2 3 4 2 3 4 5+
If 5 years old or over, ask: 10. (a) What were you doing most of the past 12 months (For males over 16): working, looking for work, or doing something else? (For fenales over 16): working, looking for work, keeping house, or doing something else? (For children 6 - 16): going to school or doing something else? If "Something else" checked, and person ia 50 years old or over, ask:	Working Looking Keeping Going t Somethi	for work house o school ng else
(b) Are you retired?	Yes	· □ No
We are interested in all kinds of illness, whether serious or not 11. Were you sick at any time LAST WEEK OR THE WEEK BEFORE? (a) What was the matter? (b) Anything else?	☐ Yes	□ No
12. Last week or the week before did you have any accidents or injuries, either at home or away from home? (a) What were they? (b) Anything else?	Yes Yes	□ No
13. Last week or the week before did you feel any ill effects from an earlier accident or injury?(a) What were these effects?(b) Anything else?	☐ Yes	□ No
14. Last week or the week before did you take any medicine or treatment for any condition (hesideswhich you told me about)? (a) For what conditions? (b) Anything else?	☐ Yea	□ No
15. AT THE PRESENT TIME do you have any ailments or conditions that have continued for a long time? (1f "No") Even though they don't bother you all the time? (a) What are they? (b) Anything else?	☐ Yes	□ No
16. Has anyone in the family - you, your, etc had any of these conditions DUBING THE PAST 12 MONTHS?	☐ Yes	, 🗀 No
(Read Card A, condition by condition; record any conditions mentioned in the column for the person)		
17. Does anyone in the family have any of these conditions?	Tes	□ No
(Read Card B, condition by condition; record any conditions mentioned in the column for the person)		
18. (a) LAST WEEK OR THE WEEK BEFORE did anyone in the family - you, your, etc talk to a doctor or go to a doctor's office or clinic? Anyone else?	☐ Yes	No (skip to q. 20)
If "Yes" (b) How many times during the past 2 weeks?		No. of times
(c) Where did you talk to the doctor? (d) How many times at (home, office, clinic, etc.)? (Record total number of times for each type of place)	Place At home At office Hospital clin Company or in Over telephon Other (Special	nic
19. What did you have done? If more than one visit or telephone call: What did you have done on the { first second etc. } visit (or telephone call)?		ing. or treatment re/post natal care en'l check-up mmum./Vacc. ye exam. (glasses) ther (Specify)
20. If "No" to q. 18a, ask: How long has it been since you last talked to a doctor?		. orYrs.

Г	Table I - ILLNESSES, IMPAIRMENTS AND ACCIDENTS											
			Diđ you	What did the doctor say it was? did he use any	If an impairment or sympt	om, ask:	What kind oftrouble is it?	What part of the body was affected?	OB T	BE-		
≅ of t per- N son	Ques- tion No.	ever talk to a doc- tor about	was: Unit to the day medical terms? (If doctor not talked to - "No." in col. (c) - record respondent's description) (If ill-effects of earlier accident also fill Table A) For an accident or injury occurring during past 2 weeks, ask: What part of the body was hurt? What kind of injury was it? Anything else? (Also, fill Table A)	What was the cause of? (If cause is already entered in (d-i) circle "X" without asking the question) (If accident or injury, fill Table A)	(If eye trouble of any kind and 6 years old or over, ask): Can you read ordinary newspaper print with glasses?	(If kind of trouble already entered in col. (d-1), circle "X" without asking the question)	(If part of body can be determined from entries in cols. (d-1) through (d-4), circle "X" without asking the question)	FORE you cut on y usua tivi for much a day	TESK BE-FORE did cause you to cut down on your usual ac- tivities for as much as a day? Check one No Yes (Co to Col.			
L	(a)	(b)	(c)	(d-1)	(đ-2)	(d-3)	(d-4)	(d-5)	(e)	(f)		
			☐ Yes	·	x	☐ Yes	x	x				
1			□ No			□ No						

How many days, includ- ing the 2 week- ends?	in bed all or most of the day?		in col. (i): How many days did keep you from work (going to	DUREN	G THE fore to one During	time?	To Interviewer: If Col. (k) is checked or the condition is on either one of Cards A or B, continue; otherwise,	Did you first notice DUBING THE PAST 12 MONTHS or before that time? (If during past 12 months, ask): Which month?	When did you last talk to a doctor about? (Month and yearYear only if prior to 1956)	Do you still take any medicine or treatment that the doctor prescribed for? Or, follow any advice he gave?	many days during the past 12 months, has kept you in bed for all or most of the	Please look at this card and read each state- ment. Then tell ne which state- ment fits you best. (Show Cards C- P, as appro- priate)	If "1," or "2" or "3" in Col. (f) ask: Please look at this card and tell me which of these statements fits you best. (Show Card G)	Line Number
(g)	(h)	(i)	(1)	(k)	(1)	(11)	(aa) .	(n)	(0)	(p)	(q)	(r)	(S)	Ш
Days	Or Days	☐ Yes	or None			Last Before 2 wks. Week before		Mo Yr Before Birth	Mo Yr □ No Dr.	☐ Yes ☐ No	or Days			1

27. During the past 12 months in which group did the total income of your family fall.	Group No.
that is, your's, your's, etc.? (Show Card H) Include income from all sources,	
such as wages, salaries, rents from property, pensions, help from relatives, etc.	

Card A

NATIONAL HEALTH SURVEY

Check List of Chronic Conditions

14. Stomach ulcer 1. Asthma 15. Any other chronic stomach trouble 2. Any allergy 3. Tuberculosis 16. Kidney stones or other kidney trouble 17. Arthritis or rheumatism 4. Chronic bronchitis 5. Repeated attacks of sinus trouble 18. Prostate trouble 19. Diabetes 6. Rheumatic fever 7. Hardening of the arteries 20. Thyroid trouble or goiter 8. High blood pressure 21. Epilepsy or convulsions of any kind 9. Heart trouble 22. Mental or nervous trouble 23. Repeated trouble with back or spine 10. Stroke 24. Tumor or cancer 11. Trouble with varicose veins 12. Hemorrhoids or piles 25. Chronic skin trouble

13. Gallbladder or liver trouble

Card C

NATIONAL BEALTH SUBVEY

FOT:

Workers and other persons except Bousewives and Children

- 1. Cannot work at all at present
- 2. Can work but limited in amount or kind of work.
- Can work but limited in kind or amount of outside activities.
- 4. Not limited in any of these ways.

Card B

26. Hernia or rupture

NATIONAL REALTH SURVEY

For: Bousewife

- 1. Cannot keep house at all at present.
- 2. Can keep house but limited in amount or kind of housework.
- 3. Can keep house but limited in outside activities.
- 4. Not limited in any of these ways.

Card E

NATIONAL REALTH SURVEY

Children from 6 to 16 years old and others going to school

- 1. Cannot go to school at all at present time.
- 2. Can go to school but limited to certain types of schools or in school attendance.
- 3. Can go to school but limited in other activities.
- 4. Not limited in any of these ways.

Card F

NATIONAL BEALTH SURVEY

For: Children under 6 years old

- 1. Cannot take part at all in ordinary play with other
- 2. Can play with other children but limited in amount or kind of play.
- 4. Not limited in any of these ways.

Card B

NATIONAL HEALTH SURVEY

Family income during past 12 months

- Under \$500 (Including loss)
- \$500 \$999 2.
- \$1,000 \$1,999
- \$2,000 \$2,999
- \$3,000 \$3,999
- \$4,000 \$4,999
- \$5,000 \$6,999
- \$7,000 \$9,999
- 9. \$10,000 and over

SELECTED REPORTS FROM THE U.S. NATIONAL HEALTH SURVEY

Series A (Program descriptions, survey designs, concepts, and definitions)

- No. 1. Origin and program of the U. S. National Health Survey, PHS Pub. No. 584-A1. Price 25 cents.
- No. 2. The Statistical Design of the Health Household-Interview Survey. PHS Pub. No. 584-A2. Price 35 cents.
- No. 3. Concepts and Definitions in the Health Household-Interview Survey. PHS Pub. No. 584-A3. Price 30 cents.

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Series D (Developmental and Evaluation Reports)

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Catalog Card

U. S. National Health Survey.

Co-operation in health examination surveys, a study of expressed will-ingness to accept a health examination for survey purposes. Washington, Public Health Service, Division of Public Health Methods, 1960.

38 p. tables. diagr. 27cm. (Its Health statistics, ser. D2) U.S. Public Health Service. Publication no. 584-D2.

1. Medical and physical examinations.

Title. II. Title: Health examination surveys.
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