H E A L T H S T A T I S T I C S

FROM THE U.S. NATIONAL HEALTH SURVEY

Volume of X-ray Visits

United States July 1960 - June 1961

Statistics on volume of medical and dental X-ray visits, by area of body x-rayed, place of X-ray, type of X-ray, age, sex, race, residence, geographic region, family income, and education. Based on data collected in household interviews during the period July 1960-June 1961.

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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.

In accordance with specifications established by the National Health Survey, the Bureau of the Census, under a contractual arrangement, participates in most aspects of survey planning, selects the sample, collects the data, and carries out certain parts of the statistical processing.

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VOLUME OF X-RAY VISITS

SELECTED FINDINGS

During the 12-month period starting in July 1960 the U. S. National Health Survey, in its Health Interview Survey program, collected information about medical and dental X-ray visits. Since about half of the total radiation dosage to the whole body of an average person is accounted for by medical and dental X-ray exposures, it is of interest to study how these X-rays are distributed in the several age and sex groups in the population of the United States.

During a 12-month period members of the civilian, noninstitutional population reported that they had made an estimated 85 million visits to medical facilities for medical X-rays, and about 49 million visits for dental X-rays. During a medical X-ray visit one or more areas of the body were x-rayed; a total of about 93 million areas of the body were x-rayed during the 85 million visits. An X-ray of an area of the body may have included one or more film exposures, one or more fluoroscopic views, or one or more X-ray treatments. No attempt was made to collect information about the number of film exposures, fluoroscopic views, or ports used for treatment; in addition no data were collected about treatment with radioactive materials, including radium and radioisotopes.

The chest was the area of the body x-rayed most frequently, with an estimated 51 million visits. Next in terms of frequency were X-rays of the extremities, about 14 million visits. Most of the 85 million medical X-ray visits made by individuals were for diagnostic purposes; there were 82 million diagnostic X-ray visits compared with about 3 million visits reported for treatment; about 2 million of the visits were made for both diagnosis and treatment.

This report was prepared by Charles S. Wilder of the U. S. National Health Survey staff. Males had a higher rate of medical X-ray visits than did females, but the reverse was true for dental X-ray use. Nonwhite persons between the ages of 15-44 had more medical X-ray visits per 100 persons than did white persons. The greater rate of X-rays of the chest by nonwhite persons accounted for this racial difference. On the other hand, rates of visits for dental X-rays were higher for white persons than for nonwhite persons.

As family income and educational attainment of the head of the family rose, the rate of dental X-ray visits also increased. For medical X-ray visits, an increase in the X-ray visit rate was correlated with rise in educational level of the head of the family, but the rate remained approximately the same for each income group.

Residents of the Western States had the highest rate of medical and dental X-ray visits. Persons residing in urbanized areas of the country, using areas defined in the 1950 Census, made greater use of medical and dental X-ray facilities in proportion to population than did residents in the rural areas.

A higher percentage (50.0) of medical X-rays of various areas of the body were performed in the hospital than in other places. The percentage in hospitals includes both outpatients and inpatients. About two out of each five chest X-rays were made in a place other than a hospital or doctor's office, including such places as health departments, mobile X-ray units, industrial places, or schools.

SOURCE AND LIMITATIONS OF THE DATA

The information presented in this report was obtained from a continuing household interview survey of a probability sample representative of the civilian, noninstitutional population residing in the United States. During the 12-month period July 1960-June 1961, interviews were obtained in approximately 38,000 households containing about 125,000 persons living at the time of the interview. Data about health, social, and demographic characteristics of each household member were recorded on the questionnaire reproduced in Appendix III. Information on the volume of X-ray visits and areas of the body x-rayed was obtained in response to questions 21-25.

A brief description of the statistical design of the survey, the methods of estimation, and general qualifications of the data obtained from surveys is presented in Appendix I. Since estimates shown in this report are based on a sample of the population rather than on the entire population, they are subject to sampling error. Therefore, particular attention should be directed toward the section, "Reliability of Estimates," which contains charts indicating relative sampling errors and instructions for their use. The sampling errors for most of the estimates are of relatively low magnitude. However, when a number, or the numerator or denominator of a rate orpercentage, is small, the sampling error may be high. In these instances, the estimates must be interpreted with caution.

Definitions of certain terms, and particularly those related to X-ray visits, are explained in Appendix II. Some of the terms have specialized meanings for the purpose of the survey. Familiarity with these definitions will assist the reader in interpreting the data. For example, an X-ray visit was included if X-rays had been used for film exposure, fluoroscopy, or treatment. If radioactive materials, such as radium or radioactive isotopes, were used for treatment or diagnosis, an X-ray visit was not counted.

A general limitation to all data obtained by household interview is that the data are no better than the respondent's knowledge of and willingness to discuss his affairs. To determine the format which would elicit the most accurate and complete information, pretests of the X-ray questions were conducted, and the answers were compared with X-ray records of sample populations (see Appendix IV). These pretests indicated that memory recall of X-ray visits was satisfactory up to a period of three months. Beyond that period, however, a larger proportion of X-ray visits were not reported in the interview. Therefore, the X-ray questions were phrased in terms of a three-month reference period. As indicated in Appendix IV, visits for treatment were less well reported than visits for diagnosis.

Questions were formulated to elicit information in terms of the X-ray <u>visit</u> rather than the

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X-ray exposure since it was assumed that respondents would be likely to know how many times a visit was made during which an area of the body was x-rayed or fluoroscoped, but that they would not know the number of exposures (films or fluoroscopic views). For similar reasons the X-ray visits were classified in terms of six general areas of the body rather than such specific parts of the body as individual bones or internal organs. The use of radioisotopes as a source of radiation for medical purposes was not included in these data because relatively few respondents would know sufficient details about this application.

MEDICAL X-RAY VISITS

Volume of Visits

From data collected during July 1960-June 1961 it is estimated that about 85 million visits were made to medical facilities for medical X-rays during this period (table 1). One visit was counted each time a person went to a doctor's office, hospital, or other facility to have one or more areas of the body x-rayed. Since the same person may have had more than one such visit during the period, this does not mean that 85 million persons had medical X-rays during a year's time.

Respondents in the household health interview were asked how many times each household member visited an X-ray facility for a medical or dental X-ray during the three months prior to the week of interview. No data about X-ray visits were collected for active military personnel, institutionalized members of the population, or deceased members of the household.

During an average three-month period about three fourths of all persons, who had X-ray experience made a single visit for a medical X-ray (table A). The remainder made two or more visits. As age increased the frequency of multiple visits rose; about one third of the x-rayed persons aged 65 years and over made two or more visits to an X-ray facility during a three-month period. Multiple visits were made chiefly for treatment X-rays, while the majority of single visits were for diagnostic purposes.

On the average there were about 48 visits a year for medical X-rays for each 100 persons in the population. Relatively few persons under 15 years of age had an X-ray visit, but from 15-64 years of age the rate remained quite stable except as noted below. In general, persons between the ages of 45-64 years reported the highest rate of medical X-ray use. Table A. Percent distribution of X-ray visits (other than dental) during an average three-month period by number of X-ray visits in three-month period, according to selected characteristics: United States, July 1960-June 1961

Characteristic	Number of X-ray visits in three-month period				
	· Total	1	2	3	4+ ,
		Percen	t distri	bution	
All persons with X-ray visits	100.0	75.9	14.2	5.1	4.8
Age	1				
Under 15 15-29 30-44 45+ 45-64	100.0 100.0 100.0 100.0 100.0 100.0	76.4 82.8 78.2 69.7 70.9 66.1	15.3 11.5 12.4 16.9 16.4 18.2	4.4 3.1 4.9 6.7 6.1 8.5	3.9 2.6 4.4 6.7 6.6 7.3
Residence			-		·
Urban Inside urbanized areas Other urban places Rural	100.0 100.0 100.0 100.0	75.7 75.8 75.3 76.3	14.3 14.3 14.4 14.0	5.3 5.2 5.6 4.8	4.7 4.7 4.8 4.9
Family income	-				
Under \$2,000 \$2,000-3,999 \$4,000-6,999 \$7,000+	100.0 100.0 100.0 100.0 100.0	75.4 76.5 76.0 76.0 74.7	13.6 14.6 13.9 14.3 15.5	/ 5.9 4.0 5.5 4.8 5.6	5.1 4.9 4.5 4.9 4.3
Type of X-ray					-
Diagnostic Treatment	100.0 100.0	76.4 38.0	14.3 10.4	5.0 / 13.5	4.4 <u>38.5</u>

The rate of medical X-ray visits was about the same for members of white and nonwhite races for all ages combined and for some of the age groups (table 1). There was a substantial racial difference in the rate for the age groups 15-44 years for both sexes combined and for females; moreover, there is an apparent, but not significant, difference in the rate for males aged 15-44 (table 1 and fig. 1).¹ This difference is partially explained by the higher rate of chest X-ray visits among nonwhite persons in the middle years of life (table B). No such racial difference in rates was' present in the data for other areas of the body x-rayed.

The rate of X-ray visits for males was higher than that for females in each age group (table 1 and fig. 2). The sex difference in rates was marked among persons 45 years and over, probably because of the high frequency of chest X-rays among males. The contradictory data in table 1 showing higher rates for nonwhite females than for nonwhite males in the age groups 15-64 may

¹The rates shown in figures 1-6, 9-15 are plotted on semilogarithmic scale so that visual comparisons can be made of relative amounts of variation within and between individual curves.

	Race			
Sex and age	All races	White	Nonwhite	
·	Number of	chest X-ray	visits per	
Both sexes	100	persons per	year	
All ages	28.7	27.6	37.4	
Under 15	6.8	6.2	10.7	
15-29	37.0	34.4	55.4	
30-44	40.0	37.7	59.9	
45+	39.7	38.8	50.1	
45-64	42.6	41.3	55.5	
65+	33.0	33.0	33.0	
Male				
All ages	29.9	29.1	35.9	
Under 15	7.3	6.4	12.3	
15-29	35.8	34.1	48.5	
30-44	41.5	39.9	55.6	
45+	45.0	44.1	53.5	
45-64	47.5	46.4	57.7	
65+	38.7	38.5	(*)	
Female		L		
All ages	27.6	26.1	38.8	
Under 15	6.4	6.0	9.0	
15-29	38.0	34.7	61.5	
30-44	38.7	35.6	63.4	
45+	35.1	33.9	47.0	
45-64	38.1	36.5	53.5	
65+	28.5	28.6	(*)	
••••	20.5	20.0	(**)	

Table B. Number of chest X-ray visits per 100 persons per year, by race, sex, and age: United States, July 1960-June 1961

be due to sampling error since the difference in rates is not statistically significant.

There were also differences in the rates of medical X-ray visits by place of residence (table 2 and fig. 3). Residents of urbanized areas reported the highest rate, while rural-farm residents had the lowest rate. This urban-rural difference, which has also been noted in statistics dealing with the use of other health facilities, e.g., physician and dental visits, may be due to the lesser availability of X-ray facilities in rural areas. The sex difference mentioned above appears to be less pronounced in rural areas than in urban areas, but this may be an artifact resulting from sampling error. The age curve of the rates was substantially of the same pattern in each area of residence.

Residents of the Western States reported higher rates of medical X-ray visits than did residents in the Northeast, North Central, and South regions (table 3 and fig. 4). The lowest rates were reported from the Northeast. The sex difference in rates was most pronounced in the North Central region, and least in the South. The

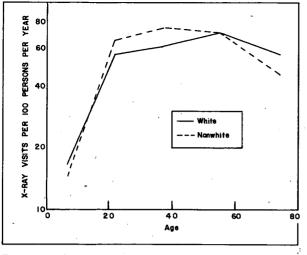


Figure 1. Medical X-ray visits per 100 persons per year, by race and age.

age changes in the rates were about the same in all four regions, except that in the West the rate for persons 15-29 years of age was somewhat higher than the comparable rate in the other regions. Males in this age group had a much higher rate than did females. A possible explanation is

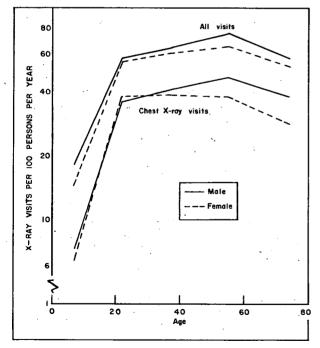


Figure 2. Medical X-ray visits and chest X-ray visits per 100 persons per year, by sex and age.

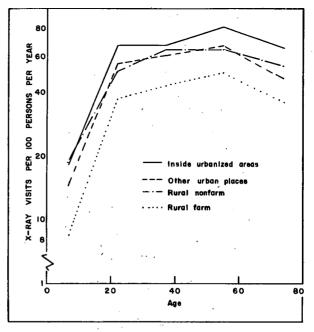


Figure 3. Medical X-ray visits per 100 persons per year, by residence and age.

that males in this age-sex group are known to have a high rate of injury and the injury rate is higher in the West than in any other geographic region (see Health Statistics, Series B, No. 37).

In general, the rate of medical X-ray visits was substantially the same in each age-sex-in-

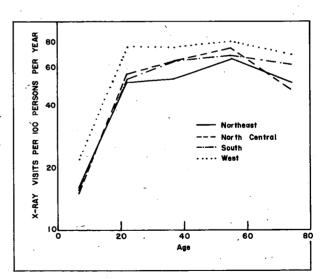


Figure 4. Medical X-ray visits per 100 persons per year, by region and age.

come group, except in three instances (table 4 and fig. 5). These three instances were: in the \$7,000 and over family income group, the higher rate of X-ray visits among males was more pronounced than in the other income groups; and for both sexes combined in the top income group the rate for the 45-64 year age group was higher than that for the same ages in the other income groups; and in the under \$2,000 income group the rate for females of ages 15-29 years was substantially higher than that in the other income groups.

There are several possible explanations for these differences. There may be less concern over the possible hazards of radiation for routine detection purposes in men than in women of younger adult ages. It is also possible that men more often receive X-rays in connection with their employment. Among higher income males in the 45-64 year age range, the high rate of X-ray visits could reflect a greater use of X-rays in physical examinations aimed at detection of lung cancer, cardiac abnormalities, and other conditions to which this group is considered subject to risk. In the upper income group a relatively high proportion of the X-ray visits were in doctors' offices.

Persons in lower income families have a high proportion of X-ray visits in hospitals. There may be an association between this and the high rate of X-rays, especially chest X-rays, in lower income women of childbearing ages. Women in this group, requiring the services of a physician for prenatal or postnatal care, or of a hospital for delivery, may frequently receive chest X-rays as a

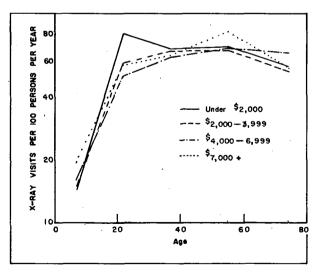


Figure 5. Medical X-ray visits per 100 persons per year, by family income ond age.

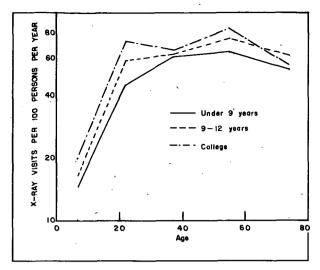


Figure 6. Medical X-ray visits per 100 persons per year, by education of head of the family and age.

part of physicians' assessments of their health. This is often done in prenatal clinics or at photofluorographic units in certain hospitals.

The rate of medical X-ray visits rose markedly with increasing levels of education of the head of the family (table 5 and fig. 6). Again within the two age groups, 15-29 and 45-64 years, the greatest variation among educational groups was noted. Table 6 shows the effects on the rates of medical X-ray visits resulting from cross-classification of family income and education of head of the family. The table indicates that the use of medical X-rays is related to educational level and that income does not influence this relationship to any great extent.

X-rays of the chest area were responsible for more than half of the medical X-ray visits (table 7 and fig. 7). A total of about 93 million gross areas of the body were x-rayed during the 85 million visits, or an average of 1.1 body areas per visit. Therefore during relatively few visits were multiple areas of the body x-rayed. The second area of the body in order of frequency of area x-rayed was the extremities. The sex difference in rate of X-ray visits noted for all visits was present in some of the data by area of the body, notably in X-rays of the chest and extremities, the two largest groups. However, females had the higher rate of X-ray visits for the lower

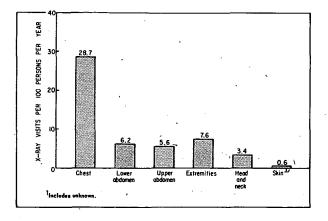


Figure 7. Medical X-ray visits per 100 persons per year, by area of body x-rayed.

and upper abdomen. X-rays of the head and neck were equal in rate between the sexes. It is probable that the peaking in the rate of X-ray visits for extremities for males aged 15-29 was caused by a high injury rate for this age group (see Health Statistics, Series B, No. 37).

There were about 82 million X-ray visits for diagnosis and 3 million visits for treatment (table C). About 2 million of the total of 85 million visits were for both diagnosis and treatment during the same visit: one area of the body was treated by X-rays while another area was x-rayed for diagnostic purposes.

About 89 million of the 93 million areas of the body x-rayed, or 96 percent of the total, were x-rayed for diagnostic purposes. The remainder were treated by X-radiation (compare tables C and 7). The chest and extremities were the most frequent sites of diagnostic X-rays with about 72 percent of the total number of diagnostic

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Table C. Number of diagnostic X-ray visits and number per 100 persons per year, by race and area of body x-rayed: United States, July 1960-June 1961

Race				
All races	White	Nonwhite		
Number of X-	ray visits	in thousands		
82,288	72,725	9,564		
50,588	42,933	7,654		
		74		
13,215	12,294	· 92		
5,102	4,669	43		
(*)	(*)	(*)		
Number per	100 persons	per year		
46.2	46.2	46.		
28.4	27.3	37.		
5.9	6.3	2.		
		3.		
7.4	7.8	4.		
2.9	3.0	2.		
(*)	(*)	(*		
	Number of X- 82,288 50,588 10,418 9,724 13,215 5,102 (*) Number per 46.2 28.4 5.9 5.5 7.4 2.9	All races White Number of X-ray visits 82,288 72,725 50,588 42,933 10,418 9,857 9,724 8,981 13,215 12,294 5,102 4,669 (*) (*) Number per 100 persons 46.2 46.2 28.4 27.3 5.9 6.3 5.5 5.7 7.4 7.8 2.9 3.0 3.0		

¹The sum of visits by area of body x-rayed may be greater than the total number of visits, since during one visit more than one area of body may be x-rayed.

²Includes unknown areas of the body

X-rays. Of the approximately 4 million areas of the body treated by X-rays, the skin and head and neck accounted for about 49 percent of the total.

There was a racial difference in the use of diagnostic X-rays. The rate of diagnostic chest X-rays was somewhat greater for nonwhite persons than for white persons. However, the rates for the abdomen and extremities were higher for white persons than for nonwhite persons. No racial differences were apparent for treatment X-rays.

Areas of the Body X-rayed by Place of X-ray

The place of medical X-ray differs substantially according to the area of the body x-rayed. Therefore, the place of X-ray was tabulated for each area of the body rather than for the X-ray visit. Three locations are shown in tables 8-10; hospital includes both inpatient and outpatient X-ray services, doctor's office includes radiologists and other doctors with X-ray equipment in their offices, and other includes such places as schools, mobile units, health departments, etc. The number of unknown places of X-ray included in this latter group cannot be determined.

The majority of X-rays for areas of the body other than the chest were performed in hospitals (table 8 and fig. 8). For the chest, about two fifths of the X-rays were made in other and unknown places. It is probable that most of these were diagnostic chest X-rays conducted for screening purposes by various agencies, such as health departments, industries, schools, and nonprofit health agencies. The largest percentages of X-rays performed in doctors' offices were for the extremities, head and neck, skin, and other and unknown areas of the body.

Table 9 shows the distribution by place for X-rays of the chest, and table 10 shows place of X-ray for other combined body areas according to various demographic, social, and economic characteristics. In general, smaller proportions of X-rays of the chest were performed in hospitals than corresponding percentages of X-rays of other areas of the body. Table 9 shows that in only three demographic groups were more than half of the chest X-ray visits reported as having been made to the hospital, namely, persons under 15, persons with family income under \$2,000, and persons residing in the New England States. Relatively small proportions of chest X-ray visits were made to the doctor's office, while larger percentages were made to other and unknown

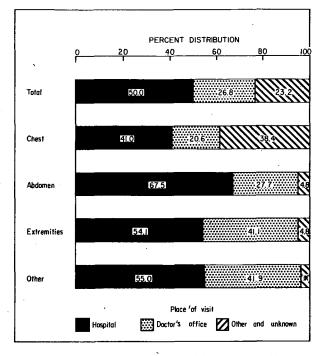


Figure 8. Percent distribution of areas of the body x-rayed by place of X-ray.

places of X-rays. For areas of the body other than the chest the hospital was the most frequent place of X-rays in all demographic classes.

The place of X-ray treatment, shown in table D, probably reflects the location of available equipment required for treatment of various areas of the body. Low-voltage X-ray equipment used for treatment of skin conditions is usually available in the dermatologist's office, Deep X-ray treatment for pathology of the chest and abdomen is usually performed in the hospital. The large percentage of treatment X-rays of the extremities occurring in the doctor's office perhaps results from the use of X-rays to determine proper reduction and placement of casts in fractures or dislocations. The percentages shown in this table are based on relatively small numbers and should be interpreted with caution due to high sampling errors.

DENTAL X-RAY VISITS

The data on dental X-ray visits will be more meaningful to readers if reference is made to other reports from the U. S. National Health Survey on dental care. Health Statistics, Series B,

Table D.	Percent	distribution of areas of the body treated by X-rays, by place	of
		X-ray: United States, July 1960-June 1961	

	Total areas	Place of X-ray				
Area of body	of body treated by X-rays	Hospital	Doctor's office	Other and unknown		
	Percent distribution					
All areas of body	100.0	44.5	51.0	4.6		
Chest Abdomen Extremities Head and neck Skin	100.0 100.0 100.0 100.0 100.0	76.9 80.9 31.7 47.3 4.7	12.8 9.2 65.2 50.6 94.4	10.3 9.8 3.1 1.9 0.9		

Nos. 14 and 15, covering the period from July 1957-June 1959, show data on interval and frequency of visits, and volume of visits, by the same variables shown in this report.

An estimated 49 million dental X-ray visits, or an average of 27 per 100 persons, occurred during the 12-month period from July 1960-June 1961 (table 11). Figure 9 shows a comparison between the age distribution of dental X-ray visits with the age distribution of all dental visits shown in Series B, No. 15, based on data collected during July 1957-June 1959. The two curves are quite similar, and give the impression that during one of each five dental visits a dental X-ray procedure is performed. In each instance the age group 15-29 years reported the highest rate of dental services.

There was a substantial racial difference in the rates of dental X-ray visits; the rate per 100 white persons was about twice that for nonwhite persons (table 11 and fig. 10). Such a difference in rates could imply lesser need for dental X-rays or inability or unwillingness to obtain them. Table E shows that within each racial group, the rate of dental X-ray visits rose remarkably with increased income. Since about 31 percent of the white population has a family income of \$4,000 or less as compared with 72 percent of the nonwhite population (table 21), it is probable that much of the difference between racial groups in the rate of dental X-rays results from factors associated with income.

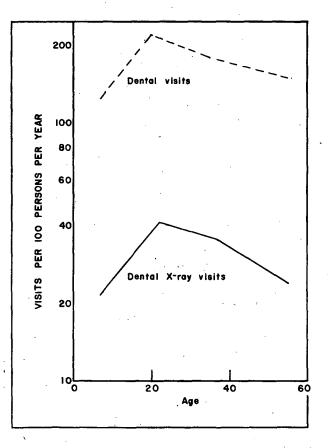


Figure 9. Comparison between rates per 100 persons per year of dental X-ray visits and dental visits (adapted from table 2, Health Statistics Series B-15, July 1957-June 1959), by ages under 65.

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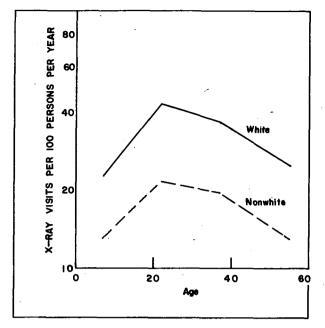


Figure 10. Dental X-ray visits per 100 persons per year, by race and ages under 65.

A considerable difference in rates by sex is present in the data shown in figure 11, with the rate for females higher in each age group than the corresponding rate for males. This sex difference was not noted for nonwhite persons. The difference was marked in the age group 15-29 years, and may be explained by the use of dental X-rays for straightening of teeth and other dental care for cosmetic reasons. Another cause may be childbirth and associated increase in dental caries.

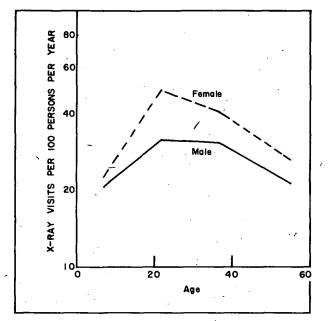
The rate of dental X-ray visits was highest in urbanized areas and lowest in rural areas (table 12 and fig. 12). The sex-age difference at ages 15-29 years was marked in urbanized areas of residence but the difference was smaller in other places of residence.

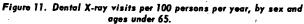
Persons in the West and Northeast regions of the United States had considerably higher rates of dental X-ray visits than did persons residing in the South and North Central States (table 13 and fig. 13). Except in the South the rate was highest for the age group 15-29 years.

The dental X-ray visit rate was directly related to the rise in family income (table 14 and fig. 14). There was a substantial increase in the rate for the income group \$7,000 and over compared with that for the next lower income group. Members of the highest income group probably make more use of orthodontia and of preventive dental practice through increased frequency of dental examinations than do members of the other groups. The persons in the lower income groups probably incur dental expense for X-ray visits as the need arises. This is suggested by the fact that for the age group 15-29, the rates are quite closely comparable for each of the three lower income groups.

Table E. Number of dental X-ray visits per 100 persons per year, by race, family income, and age: United States, July 1960-June 1961

	Wh	ite	Nonwhite			
Age	Under \$4,000	\$4,000+	Under \$4,000	\$4,000+		
	Number of dental X-ray visits per 10 persons per year					
All ages	16.8	34.8	11.6	25.2		
Under 15 15-29 30-44 45+ 45-64	10.5 35.1 20.2 10.8 13.6 7.7	27.0 48.0 42.2 28.6 31.1 17.5	10.7 16.1 16.5 6.1 7.0 3.6	18.1 37.3 26.6 23.8 27.0 5.3		





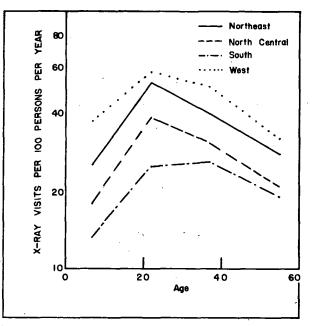


Figure 13. Dental X-ray visits per 100 persons per year, by region and ages under 65.

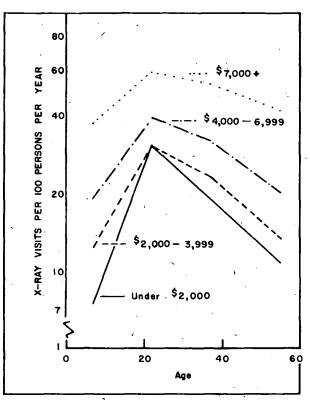


Figure 14. Dental X-ray visits per 100 persons per year, by family income and ages under 65.

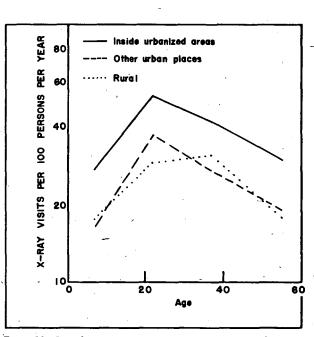
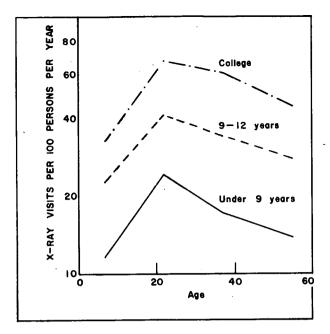


Figure 12. Dental X-ray visits per 100 persons per year, by residence and ages under 65.

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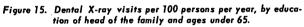


Table 15 and figure 15 show a substantial rise in the rate of dental X-ray visits with increase in education of head of the family. The rise in rate closely resembles that shown in the previous table for family income. Such a similarity in rates is expected since, in general, higher income is associated with higher educational level (table 20).

Tables 16-21 show the populations used in computing the rates presented in this report.

DETAILED TABLES -

MEDICAL X-RAY VISITS BY RACE, RESIDENCE, REGION, FAMILY INCOME, EDUCATION OF FAMILY HEAD, SEX, AND AGE

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	15.	Number of dental X-ray visits and number of dental X-ray visits per 100 per- sons per year, by education of family head, sex, and age: United States, July 1960-June 1961

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POPULATION

Table	16.	Population used in obtaining rates shown in this publication, by race, resi- dence, sex, and age: United States, July 1960-June 1961	30
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	18.	Population used in obtaining rates shown in this publication, by family income, sex, and age: United States, July 1960-June 1961	32
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	20,	Population used in obtaining rates shown in this publication, by family income, education of family head, sex, and age: United States, July 1960-June 1961	34
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Table 1. Number of medical X-ray visits and number of medical X-ray visits per 100 persons per year, by race, sex, and age: United States, July 1960-June 1961

[Data are based on household interviews of the civilian, noninstitutional population. 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]

	Race						
Sex and age	All races	White	Nonwhite	All races	White	Nonwhite	
<u>Both sexes</u>		Number of medical X-ray visits in thousands			Number of medical X-ra visits per 100 persons per year		
All ages	85,303	75,647	9,656	47.9	48.0	47.0	
Under 15	9,403	8,217	1,185	16.4	16.7	: 14.6	
15-29	19,418	16,630	2,787	, 57.1	55.9	65.5	
30-44	22,044	19,269	2,775	63.0	61.5	75.3	
45+ 45-64 65+	34,439 25,852 8,587	31,531 23,435 8,096	2,908 2,418 491	66.5 71.2 55.4	66.6 71.2 56.2	64.9 71.3 45.0	
Male							
All ages	43,063	38,529	4,535	49.7	50.2	45.8	
Under 15	5,308	4,621	687	18.2	18.4	16.8	
15-29	9,463	8,234	1,229	58.4	58.0	61.3	
30-44	10,891	9,689	1,202	64.9	64.2	71.6	
45+ 45-64 65+	17,401 13,345 4,057	15,985 12,231 3,754	1,416 1,114 (*)	71.2 76.3 58.4	71.7 77.1 58.3	66.4 68.7 (*)	
Female							
All ages	42,240	37,118	5,122	46.2	46.0	48.1	
Under 15	4,095	3,596	. 498	14.6	15.0	12.3	
15-29	9,954	8,396	-1,558	55.9	54.0	69.3	
30-44	11,153	9,580	1,573	61.2	59.1	78.4	
45+ 45-64 65+	17,037 12,507 4,530	15,545 11,204 4,342	1,492 1,304 (*)	62.3 66.5 53.0	62.1 65.8 54.4	63.4 73.5 (*)	

Table 2. Number of medical X-ray visits and number of medical X-ray visits per 100 persons per year, by residence, sex, and age: United States, July 1960-June 1961

[Data are based on household interviews of the civilian, noninstitutional population. 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]

	Residence						
Sex and age	All areas	Total	Inside urbanized areas	Other urban places	Rural nonfarm	Rural farm	
<u>Both</u> sexes		Number	of medical X-	ray visits in	thousands		
All ages	85,303	56,593	43,322	13,271	22,190	6,520	
Under 15	9,403	5,459	4,137	1,322	3,340	. 60	
15-29	19,418	13,269	9,960	3,308	4,698	1,45	
30-44	22,044	13,747	10,574	3,173	6,776	1,52	
45+	34,439	24,119	18,651	5,468	7,377	2,94	
45-64 65 +	25,852 8,587	18,103 6,016	14,087 4,565	4,017 1,451	5,501 1,876	2,24 69	
Male							
All ages	43,063	28,472	21,772	6,699	11,062	3,53	
Under 15	5,308	3,241	2,491	750	1,777	(*)	
15-29	9,463	6,283	4,535	1,747	2,291	89	
30-44	10,891	6,850	5,380	1,471	3,184	85	
45+	17,401	12,098	9,367	2,731	3,810	1,49	
45-64	13,345	9,401	7,453	1,948	2,931	1,01	
65+	4,057	2,697	1,914	783	879	48	
Female							
All ages	42,240	28,122	21,549	6,572	11,128	2,99	
Under 15`	4,095	2,218	1,646	572	1,563	(*	
15-29	9,954	6,986	5,425	1,561	2,407	· 56	
30-44	11,153	6,897	5,194	1,703	3,592	66	
45+	17,037	12,021	9,284	2,737	3,566	1,45	
45-64 65 +	12,507 4,530	8,703 3,319	6,633 2,651	2,069 668	2,570	1,23 (*	
Both sexes			-	its per 100 p	•		
All ages	47.9	53.0	56.0	45.0		•	
All ages	47.5			45.0	44.2	31.	
Under 15	16.4	17.1	18.2	. 14.5	18.4	8.	
15-29	57.1	63.9	67.2	55.6	50.3	37.	
30-44	63.0	65.7	67.6	60.0	63.9	43.	
45+	66.5	72.4	77.1	60.0	61.1	45.	
45-64 65 +	71.2	78.0 59.6	81.9 65.3	66.8 46.9	64.2 53.7	49. 36.	
Male		57.0		4012	5517	50.	
 All ages	49.7	55.9	59.1	47.5	44.7	32.	
Ū.							
Under 15	18.2	20.1	21.7	16.0	19.3	(*	
15-29	58.4	64.1	64.9	62.0	52.6	43.	
45+	64.9 71.2	69.3 80.2	72.8	58.9 66.5	61.3 63.9	50. 44.	
45-64	76.3	87.1	93.1	70.0	67.5	44.	
65+	58.4	62.8	64.5	59.0	54.1	46.	
Female						,	
All ages	46.2	50.3	53.1	42.8	43.8	29.	
Under 15	14.6	14.2	14.6	12.9	17.5	(*	
15-29	55.9	63.7	69.2	49.9	48.3	30.	
30-44	61.2	62.5	62.9	61.1	66.4	37.	
45+	62.3	66.0	70.2	54.7	58.5	47.	
			70.1		() 0 1		
45-64	66.5 53.0	70.0	72.1 65.8	64.0 37.8	60.8 53.3	57. (*	

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Table 3. Number of medical X-ray visits and number of medical X-ray visits per 100 persons per year, by region, sex, and age: United States, July 1960-June 1961

[Data are based on household interviews of the civilian, noninstitutional population. 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]

Sex and age <u>Both sexes</u> All ages Jnder 15 15-29 30-44	85,303 9,403 19,418 22,044	North- east er of medical X 20,514	North Central -ray visits in 23,544	South thousands	West
All ages Jnder 15	85,303 9,403 19,418 22,044	20,514		thousands	
Jnder 15 15-29	9,403 19,418 22,044		23.544		
5-29	19,418 22,044	1		25,170	16,076
5-29	19,418 22,044	2,178	2,400	2,806	2,018
		4,316	5,208	5,883	4,011
		5,236	6,180	6,440	4,189
54	34,439	8,784	9,756	10,040	5,859
45-64 65 1	25,852	6,567 2,217	7,505	7,386 2,654	4,395 1,465
0,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	8,587	2,217	2,251	2,004	1,40.
<u>Male</u>					
All ages	43,063	10,399	12,389	12,265	8,011
Jnder 15	5,308	1,388	1,361	1,519	1,040
15-29	9,463	1,856	2,708	2,720	2,179
0-44	10,891	2,636	3,198	3,052	2,00
+5+	17,401	4,518	5,122	4,973	2,78
45-64	13,345	3,442	3,947	3,726	2,230
65+	4,057	1,077	1,175	1,248	557
Female					
All ages	42,240	10,115	11,155	12,905	8,06
Jnder 15	4,095	791	1,040	1,287	978
5-29	9,954	2,459	2,500	3,163	1,83
30-44	11,153	2,600	2,982	3,388	2,184
+5+	17,037	4,266	4,633	5,067	3,07
45-64 65 1	12,507 4,530	3,125 1,140	3,557	3,660	2,164 907
Both sexes		medical X-ray v		•	vear
All ages	47.9	44.3	47.3	46.4	57.9
·					
Jnder 15	16.4	15.8	15.0	15.5	21.
15-29	57.1	51.3	55.9	53.7	75.
30-44	63.0	53.4	64.5	64.1	75.3
45-64	66.5	61.4	65.9	66.7	76.
45-64 65 +	71.2	66.1 50.8	74.4 47.6	68.6 61.9	79. 68.
Male					
	49.7	46.7	50.3	46.8	59.0
All ages	47./	40.7		40.0	
Jnder 15	18.2	19.7	16.5	16.5	22.4
15-29	58.4	46.7	59.2	52.3	88.
30-44	64.9	56.7	67.5	64.6	75.
45+	71.2	68.5	72.3	70.5	75.
45-64	76.3 58.4	73.5	80.3 54.2	72.4	81. 58.
Female		•			
All ages	46.2	42.2	44.4	46.1	56.3
-					
Under 15 15-29	14.6	11.8	13.3	14.4	21.
30-44	55.9	55.3	52.8	54.9 63.6	63. 75.
45+	61.2	50.5 55.4	61.5 60.0	63.4	75.
45-64	66.5	- 59.5	68.8	65.2	78.
65+	53.0	46.6	42.0	59.2	77.

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Table 4. Number of medical X-ray visits and number of medical X-ray visits per 100 persons per year, by family income, sex, and age: United States, July 1960-June 1961

[Data are based on household interviews of the civilian, noninstitutional population. 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]

			Family	income		
Sex and age	All incomes	Under \$2,000	\$2,000- 3,999	\$4,000- 6,999	\$7,000+	Unknown
Both sexes		Number of	medical X-r	ay visits i	n thousands	
All ages	85,303	12,944	16,033	27,330	25,126	3,870
Under 15	9,403	852	1,626	3,628	2,961	(*)
15-29	19,418	3,493	4,154	6,028	4,912	831
30-44	22,044	1,821	3,584	8,413	7,277	948
45+	34,439	6,778	6,669	9,260	9,976	1,756
45-64 65+	25,852 8,587	3,608 3,169	4,656 2,013	7,529 1,732	8,824 1,152	1,23
Male		•				
 All ages	43,063	5,988	7,921	13,649	13,534	1,97
	5 200				1 700	(+)
Under 15	5,308 9,463	537 1,437	908 1,851	1,919 2,922	1,733	(*) 42(
30-44	10,891	788	1,731	4,244	3,614	514
45+	17,401	3,225	3,432	4,563	5,360	82
45-64	13,345	1,788	2,348	3,721	4,865	624
65+	4,057	1,437	1,084	842	495	(*)
Female		•				
All ages	.42,240	6,956	8,113	13,681	11,592	1,89
Jnder 15	4,095	(*)	719	1,709	1,229	(*)
15-29	9,954	2,056	2,303	3,106	2,085	404
30-44	11,153	1,033	1,853	4,169	3,663	43
45+	17,037	3,553 1,821	3,237 2,308	4,697 3,808	4,616 3,960	93. 61.
43-64 65 1	4,530					
Both sexes	Numbe	r of medica	l X-ray vis	its per 100	persons pe	r year
All ages	47.9	54.4	46.6	44.2	52.4	38.9
Under 15	16.4	14.4	14.8	16.1	19.6	(*)
15-29	57.1	79.6	58.0	49.7	57.8	45.9
30-44	63.0	67.5	66.2	61.9	63.1	53.
45+	66.5	62.7	61.7	68.2	77.7	46.0
45-64	71.2	70.3	66.6	68.9	81.9	49.
65 +	55.4	55.8	52.8	65.3	55.5	40.
Male						
All ages	49.7	55.4	48.3	44.4	56.7	41.
Under 15	18.2	17.5	16.3	16.7	22.7	(*
15-29	58.4	67.3	54.8	51.6	68.2	49.
30-44	64.9	66.5	69.1	63.4	65.1	61.
45+	71.2	72.9 86.7	69.3 76.6	66.6 66.6	82.0 86.6	49. 53.
43-64 65+	58.4	60.9	57.5	66.5	53.7	(*
Female						
All ages	46.2	53.5	45.1	43.9	48.1	36.
Under 15	14.6	(*)	13.2	15.5	ు 16.5	(*
15-29	55.9	91.2	60.8	48.1	48.0	42.
30-44	61.2	68.2	63.7	60.4	61.2	47.
45+	62.3	55.6	55.3	69.8	73.2	44.
45-64 65+	66.5 53.0	59.4 52.2	58.8 48.2	71.3 64.0	76.9	46. (*

Table 5. Number of medical X-ray visits and number of medical X-ray visits per 100 persons per year, by education of family head, sex, and age: United States, July 1960-June 1961

[Data are based on household interviews of the civilian, noninstitutional population. 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 estimates are given in	Appendix I. Delinia	ous of terms are gr	Abbeugix II		
		Educat	ion of family	head	
Sex and age	All educational groups	Under 9 years	9-12 years	College	Unknown
Both sexes	N	umber of medi	cal X-ray vis	its in thousan	nds
All ages	85,303	27,792	37,909	17,705	1,898
Under 15	9,403	2,429	4,642	2,248	(*
15-29	19,418	4,502	9,714	4,801	40
30-44	22,044	5,689	11,058	4,925	(*
45+	34,439	15,172	12,495	5,730	1,04
45-64	25,852	10,440	9,918	4,760	73
65+	8,587	4,732	2,576	971	(*
Male			•		
All ages	43,063	14,066	19,143	9,027	82
Under 15	5,308	i,397	2,692	1,177	(*)
15-29	9,463	2,274	4,722	2,371	(*
30-44	10,891	2,562	5,484	2,684	(*
45+	17,401	7,832	6,245	2,795	52
45-64	13,345	.5,345	5,130	2,460	410
65+	4,057	2,488	1,115	· (*)	(*)
<u>Female</u>					
All ages	42,240	13,726	18,766	8,677	1,07
Under 15	4,095	1,032	1,950	1,071	(*)
15-29	9,954	2,228	4,992	2,430	(*)
30-44	11,153	3,127	5,574	2,241	(*
45-64	17,037 12,507	7,339	6,250	2,935	51
65+	4,530	5,095 2,244	4,788 1,462	2,300 635	(*) (*)
Both sexes		-	•		
· · · · · · · · ·			-	r 100 persons	
All ages	47.9	45.7	47.7	54.0	39.
Under 15	16.4	, 14.7	16.5	19.9	(*)
15-29	57.1	45.1	58.7	72.9	46.0
30-44	63.0	61.0	63.3	66.1	(*
45+	66.5	60.6	72.1	77.0	52.
45-64	, 71.2	64.6	75.1	83.5	60.
65+	55.4	53.4	62.4	55.8	(*)
Male					×
All ages	49.7	47.1	49.9	56.4	35.0
Under 15	18.2	16.6	18.6	20.7	(*)
15-29	58.4	45.0	62.5	74.7	(*)
30-44	64.9	59.0	5.5	72.2	(*
45+	71.2	65.2	77.8	81.5	54.
45-64	, 76.3	69.0	79.8	89.9	70.
65+	58.4	58.2	69.9	(*)	. (*)
Female					
All ages	46.2	44.3	45.6	51.7	42.
Under 15					
Under 15	14.6	12.8	14.2	19.1	(*)
30-44	55.9	45.2	55.5	71.1	(*)
30-44	61.2	62.7	61.2	59.9	(*) 50.
45-64	62.3 66.5	56.4 60.5	67.1 70.6	73.1 77.5	
65+			57.7	60.6	(*)
0)+	53.0	48.8			

Table 6. Number of medical X-ray visits and number of medical X-ray visits per 100 persons per year, by family income, education of family head, sex, and age: United States, July 1960-June 1961

[Data are based on household interviews of the civilian, noninstitutional population. 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]

		Fan	ily inco	me and ed	ucation o	of family	7 head	
Sex and age		Un	der \$4,0	00		\$4,000+	-	_
·	Total	Under 9 years	9-12 years	College	Under 9 years	9-12 years	College	Income or education unknown
<u>Both sexes</u>		Num	ber of m	edical X-	ray visit	s in'the	ousands	
All ages	85,303	13,990	11,083	3,159	12,516	25,200	14,128	5,22
Under 15	9,403	1,042	1,127	(*)	1,281	3,318	1,952	41
15-29	19,418	2,137	3,667	1,669	2,050	5,702	3,076	1,11
30-44	22,044	2,426	2,451	(*)	2,978	8,102	4,454	1,24
45+	34,439	8,385	3,838	833	6,207	8,078	4,646	2,45
45-64 65++	25,852	5,006 3,379	2,589 1,249	477 (*)	5,100 1,107	6,911 1,167	4,085	1,68 76
Male	r							
All ages	43,063	7,039	5,124	1,391	6,419	13,122	7,430	2,53
Under 15	5,308	658	674	(*)	689	1,880	1,067	(*
15-29	9,463	950	1,505	767	1,123	3,030	1,578	51
30-44	10,891	1,207	973	(*)	1,251	4,182	2,392	64
45+	17,401	4,224	1,973	(*)	3,356	4,030	2,393	1,12
45-64	13,345	2,442	1,378	(*)	2,739	3,574	2,160	83
65+	4,057	1,782	594	(*)	617	456	(*)	(*
Female								
All ages	42,240	6,950	5,959	1,768	6,097	12,078	6,698	2,68
Under 15	4,095	384	453	(*)	593	1,439	885	()
15-29	9,954	1,187	2,162	902	927	2,672	1,499	60
30-44	11,153	1,219	1,478	(*)	1,727	3,920	2,062	60
45+	17,037	4,161	1,865	537	2,851	4,048	2,253	1,32
45-64 65+	12,507 4,530	2,564 1,597	1,210 655	(*) (*)	2,361 490	3,337 711	1,925 (*)	85
Both sexes		Number of	medical	X-ray vi	sits per	100 pers	ons per y	ear
All ages	47.9	44.2	53.8	77.1	48.9	45.8	51.3	38.
Under 15	16.4	12.1	16.2	(*)	18.2	16.5	19.3	11.
15-29	57.1	46.1	72.0	114.9	43.5	53.3	62.3	· 45.
30-44	63.0	60.0	74.9	(*)	62.9	60.4	66.8	54.
45+	66.5	58.4	72.8	68.9	68.0	74.6	79.8	47.
45-64	71.2	63.7	80.4	73.8	69.8	75.9	85.4	49.
65+	55.4	52.0	60.8	(*)	60.7	67.8	54.1	42.
Male								
All ages	49.7	46.6	55.0	72.3	49.4	48.2	54.8	
Under 15	18.2	15.0	18.7	(*)	19.2	18.4	20.8	()
15-29	58.4	41.8	67.1	93.7	45.8	61.1	69.5	43.
30-44	64.9	65.0	67.2	(*)	56.1	63.9	72.0	59. 47
45-64	71.2	64.2 69.9	98.1 111.8	(*)	70.9	73.6	84.1 90.0	47. 52.
65+	58.4	57.8	76.3	(*)	63.6	66.0	(*)	(†
Female								
All ages	46.2	42.0	52.7	81.3	48.4	43.5	47.8	38.
Under 15	14.6	9.1	13.5	(*)	17.2	14.6	17.7	(*
	55.9	50.1	75.8	142.3	40.9	46.6	56.3	47.
15-29		55.7	81.0	(*)	1 69.0	1 2/.1	01.0	49.
1 5- 29	61.2	55.7 53.6	81.0 57.2	(*) 67.1	69.0 64.9	57.1	61.6	
15-29 30-44 45+ 45-64 65+	61.2							49. 47. 47.

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Table 7. Number of medical X-ray visits and number of medical X-ray visits per 100 persons per year, by area of body x-rayed, sex, and age: United States, July 1960-June 1961

[Data are based on household interviews of the civilian, noninstitutional population. 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]

	A11	Area of body x-rayed							
Sex and age	All medical X-ray visits ¹	Chest	Lower abdomen	Upper abdomen	Extremities	Head and neck	Skin ²		
Both sexes		Numbe	r of medi	.cal X-ray	visits in the	ousands			
All ages	85,303	51,084	11,119	9,969	13,610	5,972	1,00		
Under 15	9,403	3,912	818	378	3,399'	1,298	(*		
15-29	19,418	12,576	1,752	1,637	3,225	1,117	(*		
30-44	22,044	14,013	2,584	2,828	2,674	1,384	(*		
45+	34,439	20,582	5,966	5,126	4,312	2,172	(*		
45-64	25,852	15,461	4,090	3,909	3,191	1,632	(*		
65+	8,587	5,121	1,876	1,217	1,121	540	(*		
Male									
All ages	43,063	25,868	4,897	4,494	7,581	2,879	49		
Under 15	5,308	2,115	(*)	(*)	2,072	805	(*		
15-29	9,463	5,802	766	585	2,285	424	(,		
30-44	10,891	6,963	1,153	1,293	1,519	555	(*		
45++	17,401	10,987	2,656	2,443	1,704	1,094	(*		
45-64	13,345	8,299	2,010	1,870	1,386	825	()		
65+	4,057	2,688	646	574	(*)	(*)	(*		
Female									
All ages	42,240	25,216	6,222	5,475	6,028	3,092	50		
Under 15	4,095	1,797	496	(*)	1,326	493	(*		
15-29	9,954	6,774	986	1,052	940	692	k)		
30-44	11,153	7,050	1,431	1,535	1,154	829	r)		
45+	17,037	9,595	3,310	2,683	2,607	1,078	r)		
45-64	12,507	7,161	2,080	2,040	1,806	807	(*		
65+	4,530	2,434		643	802	(*)	(*		
Both sexes	Numl	ber of me	dical X-ra	ay visits	per 100 perso	ons per ye	ar		
All ages	47.9	28.7	6.2	5.6	7.6	3.4	0.		
Under 15	16.4	6.8	1.4	0.7	5.9	2.3	. (*		
15-29	57.1	37.0	5.2	4.8	9.5	3.3	· (*		
30-44	63.0	40.0	7.4	8.1	7.6	4.0	(*		
·5+	66.5	39.7	11.5	9.9	8.3	4.2	(*		
45-64	71.2	42.6	11.3	10.8	8.8	4.5	. (+		
65+	55.4	33.0	12.1	7.8	7.2	3.5	()		
Male									
nule			. •						
All ages	49.7	29.9	5.7	5.2	8.8	3.3	0.		
All ages	49.7 18.2						•		
All ages Jnder 15	18.2	7.3	(*)	(*)	7.1	2.8	(*		
All ages Nnder 15	18.2 58.4	7.3 35.8	(*) 4.7	(*) 3.6	7.1 14.1	2.8 2.6	*) *)		
All ages Inder 15 5-29	18.2 58.4 64.9	7.3 35.8 41.5	(*) 4.7 6.9	(*) 3.6 7.7	7.1 14.1 9.1	2.8 2.6 3.3	k) k) k)		
All ages Inder 15 5-29	18.2 58.4 64.9 71.2	7.3 35.8 41.5 45.0	(*) 4.7 6.9 10.9	(*) 3.6 7.7 10.0	7.1 14.1 9.1 7.0	2.8 2.6 3.3 4.5	k) k) k) k)		
All ages Jnder 15	18.2 58.4 64.9	7.3 35.8 41.5	(*) 4.7 6.9	(*) 3.6 7.7	7.1 14.1 9.1	2.8 2.6 3.3	0. (* (* (* (* (*		
All ages Jnder 15 15-29 30-44 45+ 45-64 65+ <u>Male</u>	18.2 58.4 64.9 71.2 76.3 58.4	7.3 35.8 41.5 45.0 47.5	(*) 4.7 6.9 10.9 11.5	(*) 3.6 7.7 10.0 10.7	7.1 14.1 9.1 7.0 7.9	2.8 2.6 3.3 4.5 4.7	(* (* (* (*		
All ages Inder 15 15-29 30-44 45-64 65+	18.2 58.4 64.9 71.2 76.3 58.4	7.3 35.8 41.5 45.0 47.5	(*) 4.7 6.9 10.9 11.5	(*) 3.6 7.7 10.0 10.7	7.1 14.1 9.1 7.0 7.9	2.8 2.6 3.3 4.5 4.7	(* (* (* (*		
All ages	18.2 58.4 64.9 71.2 76.3 58.4 46.2	7.3 35.8 41.5 45.0 47.5 38.7 27.6	(*) 4.7 6.9 10.9 11.5 9.3 6.8	(*) 3.6 7.7 10.0 10.7 8.3 6.0	7.1 14.1 9.1 7.0 7.9 (*) 6.6	2.8 2.6 3.3 4.5 4.7 (*) 3.4	(* (* (* (* (* (*		
All ages	18.2 58.4 64.9 71.2 76.3 58.4 46.2 14.6	7.3 35.8 41.5 45.0 47.5 38.7 27.6	(*) 4.7 6.9 10.9 11.5 9.3 6.8	(*) 3.6 7.7 10.0 10.7 8.3 6.0 (*)	7.1 14.1 9.1 7.9 (*) 6.6 4.7	2.8 2.6 3.3 4.5 4.7 (*) 3.4 1.8	(* (* (* (* (* (* (*		
All ages	18.2 58.4 64.9 71.2 76.3 58.4 46.2 14.6 55.9	7.3 35.8 41.5 45.0 47.5 38.7 27.6 6.4 38.0	(*) 4.7 6.9 10.9 11.5 9.3 6.8 1.8 5.5	(*) 3.6 7.7 10.0 10.7 8.3 6.0 (*) 5.9	7.1 14.1 9.1 7.0 7.9 (*) 6.6 4.7 5.3	2.8 2.6 3.3 4.5 4.7 (*) 3.4 1.8 3.9	(* (* (* (* (* <u>0.</u> (*		
All ages Jinder 15 15-29 30-44 45-64 65+ 65+ Male All ages	18.2 58.4 64.9 71.2 76.3 58.4 46.2 14.6 55.9 61.2	7.3 35.8 41.5 45.0 - 47.5 38.7 27.6 6.4 38.0 38.7	(*) 4.7 6.9 10.9 11.5 9.3 6.8 1.8 5.5 7.9	(*) 3.6 7.7 10.0 10.7 8.3 6.0 (*) 5.9 8.4	7.1 14.1 9.1 7.0 7.9 (*) 6.6 4.7 5.3 6.3	2.8 2.6 3.3 4.5 4.7 (*) 3.4 1.8 3.9 4.5	(*) (*) (*) (*) (*) (*) (*) (*) (*)		
All ages Jinder 15 15-29 30-44 45+ 45-64 65+ <u>Male</u>	18.2 58.4 64.9 71.2 76.3 58.4 46.2 14.6 55.9	7.3 35.8 41.5 45.0 47.5 38.7 27.6 6.4 38.0	(*) 4.7 6.9 10.9 11.5 9.3 6.8 1.8 5.5	(*) 3.6 7.7 10.0 10.7 8.3 6.0 (*) 5.9	7.1 14.1 9.1 7.0 7.9 (*) 6.6 4.7 5.3	2.8 2.6 3.3 4.5 4.7 (*) 3.4 1.8 3.9	*) *) *) *) *) *)		

¹The sum of visits by area of body x-rayed may be greater than the total number of visits, since during one visit more than one area of body may be x-rayed.

²Skin includes an estimated 39,000 unknown areas x-rayed.

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Table 8. Number and percent distribution of areas of body x-rayed, by place of X-ray, according to age: United States, July 1960-June 1961

[Data are based on household interviews of the civilian, noninstitutional population. 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]

				Place of X-ray					
Area of body and age	Total areas of body x-rayed	Hospital	Doctor's office	Other and unknown	Total areas of body x-rayed	Hospital	Doctor's office	Other and unknown	
All_areas of body	Number of	areas of	body in th	ousands		Percent di	stribution		
All ages	92,752	46,383	24,856	21,513	100.0	50.0	26.8	23.2	
Under 15 15-29 30-44	9,876 20,654 23,729	5,640 10,092 10,483	3,121 4,436 6,754	1,115 6,126 6,493	100.0 100.0 100.0	57.1 48.9 44.2	31.6 21.5 28.5	11.3 29.7 27.4	
45+ 45-64 65+	38,493 28,539 9,954	20,169 14,511 5,658	10,545 7,896 2,649	7,779 6,132 1,647	100.0 100.0 100.0	52.4 50.8 56.8	27.4 27.7 26.6	20.2 21.5 16.5	
Chest									
All ages	51,084	20,955	10,499	19,631	100.0	41.0	20.6	38.4	
Under 15 15-29 30-44	3,912 12,576 14,013	2,134 5,080 4,828	962 1,746 3,014	816 5,750 6,170	100.0 100.0 100.0	54.6 40.4 34.5	24.6 13.9 21.5	`20.9 45.7 44.0	
45+ 45-64 65+	20,582 15,461 5,121	8,912 6,460 2,451	4,776 3,442 1,334	6,894 5,558 1,336	100.0 100.0 100.0	43.3 41.8 47.9	23.2 22.3 26.0	33.5 35.9 26.1	
Abdomen									
All ages	21,088	14,232	5,843	1,013	100.0	67.5	27.7	4.8	
Under 15 15-29 30-44	1,196 3,388 5,412	812 2,384 3,417	(*) 838 1,792	(*) (*) (*)	100.0 100.0 100.0	67.9 70.4 63.1	(*) 24.7 33.1	(*) (*) (*)	
45+ 45-64 65+	11,092 7,999 3,092	7,619 5,353 2,266	2,878 2,255 623	594 392 (*)	100.0 100.0 100.0	68.7 66.9 73.3	25.9 28.2 20.1	5.4 4.9 (*)	
Extremities									
All ages	13,610	7,366	5,596	648	100.0	54.1	41.1	4.8	
Under 15 15-29 30-44	3,399 3,225 2,674	1,849 1,695 1,406	1,340 1,372 1,153	(*) (*) (*)	100.0 100.0 100.0	54.4 52.6 52.6	39.4 42.5 43.1	(*) (*) (*)	
45+ 45-64 65+	4,312 3,191 1,121	2,415 1,731 683	1,731 1,370 (*)	(*) (*) (*)	100.0 100.0 100.0	56.0 54.2 60.9	40.1 42.9 (*)	(*) (*) (*)	
All other areas of body									
All ages	6,971	3,831	2,918	(*)	100.0	55.0	41.9	(*)	
Under 15 15-29 30-44	1,369 1,464 1,631	844 932 832	484 481 794	(*) (*) (*)	100.0 100.0 100.0	61.7 63.7 51.0	35.4 32.9 48.7	(*) (*) (*)	
45+ 45-64 65+	2,507 1,887 620	1,223 966 (*)	1,160 829 (*)	(*) (*) (*)	100.0 100.0 100.0	48.8 51.2 (*)	46.3 43.9 (*)	(*) (*) (*)	

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Table 9. Number and percent distribution of chest X-ray visits, by place of X-ray, according to selected characteristics: United States, July 1960-June 1961

[Data are based on household interviews of the civilian, noninstitutional population. 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]

	L			Place o	f X-ray			
Characteristic	Total chest X-ray visits	Hospital	Doctor's office	Other and unknown	Total chest X-ray visits	Hospital	Doctor's office	Other and unknown
· · · · · · · · · · · · · · · · · · ·	Numb	er of ches in tho	t X-ray vi usands	sits	Ē	tribution		
Total chest X-ray visits	51,084	20,955	10,499	19,631	100.0	41.0	20.6	38.
Age								
Under 15	3,912	2,134	962	816	100.0	54.6	24.6	20
15-29	12,576	5,080	1,746	5,750	100.0	40.4	13.9	20.
30-44	14,013	4,828	3,014	6,170	100.0	34.5	21.5	44.
45+	20,582	8,912	4,776	6,894	100.0	43.3	23.2	33.
45-64	15,461	6,460	3,442	5,558	100.0	41.8	22.3	35.
65+	5,121	2,451	1,334	1,336	100.0	47.9	26.0	26.
Sex		•						
Male Female	25,868 25,216	10,081 10,873	5,485 5,014	10,302 9,328	100.0 100.0	39.0 43.1	21.2 19.9	39. 37.
Residence			-					
Total urban	34,802	14,621	7,495	12,686	100.0	42.0	21.5	36.
Inside urbanized areas	27,028	11,278	6,016	9,734	100.0	41.7	22.3	36
Other urban places	7,774	3,342	1,479	2,952	100.0	43.0	19.0	38.
Rural nonfarm	12,638	5,113	2,331	5,194	100.0	. 40.5	18.4	41.
Rural farm	3,644	1,220	673	1,750	100.0	33.5	18.5	48.
Region			-					
Northeast	11,836	5,298	2,679	3,860	100.0	44.8	22.6	32.
North Central	15,361	6,294	2,508	6,559	100.0	41.0	16.3	42.
SouthWest	15,101 8,785	5,985 3,378	2,959 2,354	6,158 3,054	100.0	39.6 38.5	19.6 26.8	40. 34.
Geographic division		· · ·						
New England States	2,333	1,385	(*)	640	100.0	59.4	(*)	27.
Middle Atlantic States	9,503	3,913	2,370	3,219	100.0	41.2	24.9	33
East North Central States	11,180	4,670	1,394	5,115	100.0	41.8	12.5	45.
West North Central States	4,182	1,624	1,114	1,444	100.0	38.8	26.6	34.
South Atlantic States	7,829	2,806	1,407	3,616	100.0	35.8	18.0	46.
East South Central States	2,752	913	469	1,371	100.0	33.2	17.0	49.
West South Central States Mountain States	4,520	2,266 952	1,083	1,171	100.0	50.1	24.0	25
Pacific States	6,947	2,425	1,903	2,620	100.0	51.8 34.9	24.5	37
Family income								
Under \$2,000	8,434	4,404	1,139	2,891	100.0	52.2	13.5	34.
\$2,000-3,999	9,966	4,346	1,649	3,971	100.0	43.6	16.5	39.
\$4,000-6,999	15,890	6,142	3,160	6,588	100.0	38.7	19.9	41
\$7,000+ Unknown	14,731 2,063	5,228 834	4,081 470	5,421	100.0	35.5	27.7	36.
Education of family head								· .
Under 9 years	16,872	6,969	3,028	6,875	100.0	41.3	17.9	40.
9-12 years	22,806	9,613	4,716	8,477	100.0	42.2	20.7	37.
CollegeUnknown	10,377	3,890	2,562	3,925	100.0	37.5	24.7	37
Unknown	1,029	483	(*)	(*)	100.0	46.9	(*)	(*

Table 10. Number and percent distribution of areas of body (except chest) x-rayed, by place of X-ray, according to selected characteristics: United States, July 1960-June 1961

[Data are based on household interviews of the civilian, noninstitutional population. 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]

				Place o	of X-ray					
Characteristic	Total areas of body (except chest) x-rayed	Hospital	Doctor's office	Other and unknown	Total areas of body (except chest) x-rayed	Hospital	Doctor's office	Other and unknown		
	Number o	of areas of	body in t	housands		Percent distribution				
Total areas of body										
(except chest)	41,669	25,428	14,357	1,883	100.0	61.0	34.5	4.9		
Age										
Under 15	5,964	3,505	2,159	(*)	100.0	58.8	36.2	(*)		
15-29 30-44	8,078	5,012	2,690	(*)	100.0	62.0	33.3 38.5	(*)		
45+	9,716	5,654 11,257	3,739	(*) 885	100.0 100.0	58.2 62.8	32.2	(*) 4.9		
45+64+	13,078	8,050	4,454	574	100.0	61.6	34.1	4.4		
65+	4,833	3,207	1,315	(*)	100.0	66.4	27.2	(*)		
Sex					4					
Male Female	20,349 21,320	12,352 13,077	7,088 7,269	909 974	100.0 100.0	60.7 61.3	34.8 34.1	4.5 4.6		
Residence					-					
Total urban	26,789	16,130	9,305	1,354	100.0	60.2	34.7	5.1		
Inside urbanized areas	20,029	12,104	6,941	983	100.0	60.4	34.7	4.9		
Other urban places	6,761	4,026	2,364	(*)	100.0	59.5	. 35.0	(*)		
Rural nonfarm Rural farm	11,524 3,355	7,190 2,108	3,903	431 (*)	100.0 100.0	62.4 62.8	33.9 34.2	3.7 (*)		
Region							.,			
Northeast	10,228	6,881	3,091	(*)	100.0	67.3	30.2	(*)		
North Central	10,161	6,317	3,400	444	100.0	62.2	33.5	4.4		
South	12,388	7,883	3,892	613	100.0	63.6	31.4	4.9		
West	8,892	4,347	3,974	570	100.0	48.9	44.7	6.4		
Geographic division										
New England States	2,342	1,645	615	(*)	100.0	70.2	26.3	(*)		
Middle Atlantic States	7,885	5,236	2,476	(*) (*)	100.0 100.0	66.4 66.7	31.4 30.2	(*) (*)		
East North Central States West North Central States	7,045	4,701	2,125	(*)	100.0	51.9	40.9	(*)		
South Atlantic States	5,686	3,664	1,788	(*)	100.0	64.4	31.4	(*)		
East South Central States	2,342	1,465	770	(*)	100.0	62.6	32.9	(*)		
West South Central States Mountain States	4,360	2,755 974	1,334 790	(*) (*)	100.0 100.0	63.2 51.8	30.6 42.0	(*) (*)		
Pacific States	7,013	3,373	3,184	455	100.0	48.1	45.4	6.5		
Family income										
Under \$2,000	5,868	4,168	1,454	(*)	100.0	71.0	24.8	(*)		
\$2,000-3,999	7,583	5,218	2,096	(*)	100.0	68.8	27.6	(*)		
\$4,000-6,999 \$7,000+	13,790 12,268	8,265 6,391	4,950 5,179	575 699	100.0 100.0	59.9 52.1	35.9 42.2	4.2		
Unknown	2,159	1,387	679	(*)	100.0	64.2	31.4	(*)		
Education of family head										
Under 9 years	13,826	9,509	3,820	497	100.0	68.8	27.6	3.6		
9-12 years	17,902	10,719	6,468	715	100.0	59.9	36.1	4.0		
College	8,811 1,130	4,361 840	3,819 (*)	631 (*)	100.0	49.5 74.3	43.3 (*)	7.2		
010410411	1,130	040		()	100.0	,4.3		(*)		

Table 11. Number of dental X-ray visits and number of dental X-ray visits per 100 persons per year, by race, sex, and age: United States, July 1960-June 1961

[Data are based on household interviews of the civilian, noninstitutional population. 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]

	Race									
Sex and age	All races	White	Nonwhite	All races	White	Nonwhite				
<u>Both</u> sexes		of dental ts in thou		Number of dental X-ray visits per 100 persons per year						
All ages	48,768	45,588	3,180	27.4	.29.0	15.5				
Under 15	12,230	11,178	1,052	21.4	22.8	13.0				
15-29	13,881	12,958	923	40.8	43.6	21.7				
30-44	12,351	11,622	729	35.3	37.1	19.8				
45+ 45-64 65+	10,305 8,686 1,619	9,829 8,249 1,580	477 437 (*)	19.9 23.9 10.4	20.8 25.1 11.0	10.6 12.9 (*)				
Male										
All ages	20,661	19,159	1,502	23.9	25.0	15.2				
Under 15	5,978	5,410	567	20.5	21.6	· 13.9				
15-29	5,086	4,762	(*)	31.4	33.6	(*)				
30-44	5,149	4,820	(*)	30.7	31.9	(*)				
45+ 45-64 65+	4,449 3,717 731	4,167 3,439 728	(*) (*) (*)	18.2 21.3 10.5	18.7 21.7 11.3	(*) (*) (*)				
Female	,									
All ages	28,106	26,428	1,678	30.7	32.7	15.8				
Under 15	6,253	5,768	485	22.3	24.1	12.0				
15-29	8,795	8,197	599	49.4	52.7	26.6				
30-44	7,202	6,802	400	39.5	41.9	19.9				
45+ 45-64 65+	5,857 4,969 888	5,662 4,809 852	(*) (*) (*)	21.4 26.4 10.4	22.6 28.2 10.7	(*) (*) (*)				

Table 12. Number of dental X-ray visits and number of dental X-ray visits per 100 persons per year, by residence, sex, and age: United States, July 1960-June 1961

[Data are based on household interviews of the civilian, noninstitutional population. 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]

			Residence	, 		
Sex and age			Urban			
	All areas	Total	Inside urbanized areas	Other urban places	Rural	
Both sexes	1	Number of denta	al X-ray visits	in thousands		
All ages	48,768	33,379	26,776	6,603	15,389	
Under 15	12,230	7,794	6,275	1,519	4,43	
15-29	13,881	10,028	7,808	2,220	3,85	
45+	12,351 10,305	7,961 7,597	6,532 6,161	1,429 1,435	4,39	
45-64	8,686	6,318	5,169	1,149	2,36	
65+	1,619	1,279	993	(*)	(*	
Male						
All ages	20,661	14,029	11,132	2,898	6,63	
Under 15	5,978	3,824	3,112	712	2,15	
15-29	5,086	3,725	2,720	1,006	1,36	
30-44	5,149	3,312	2,701	612	1,83	
45+	4,449	3,167	2,599	568	1,28	
45-64 65 +	3,717	2,666 501	2,190 409	476 (*)	· 1,05 (*	
Female						
All ages	28,106	19,350	15,645	3,705	8,75	
Under 15	6,253	3,970	3,163	807	2,28	
15-29	8,795	6,302	5,088	1,214	2,20	
30-44	7,202	4,649	3,831	818	2,55	
45+	5,857	4,429	3,562	867	1,42	
45-64 65 1	4,969 888	3,652 777	2,979 584	673 (*)	1,31 (*	
Both sexes				00 persons per ye		
All ages	27.4	31.2	34.6	22.4	21.0	
Under 15	21 /	24.5		16.6		
15-29	21.4	48.3	27.6 52.7	16.6 37.3	17.	
30-44	35.3	38.1	41.8	27.0	31.	
45+	19.9	22.8	25.5	15.7	14.	
45-64	23.9	27.2	30.0	19.1	18.	
65+	10.4	12.7	14.2	(*)	(*	
Male						
All ages	23.9	27.5	30.2	20.5	18.	
Under 15	20.5	23.7	27.1	15.2	16.	
15-29	31.4	38.0	38.9	35.7	21.	
30-44	30.7 18.2	33.5	36.6	24.5	26.	
45-64	21.3	21.0	27.4	17.1	13. 15.	
65+	10.5	11.7	13.8	(*)	(*	
Female						
All ages	30.7	34.6	38.6	24.1	24.	
Under 15	22.3	25.3	28.1	18.2	18.	
15-29	49.4	57.5	64.9	38.8	36.	
30-44	39.5	42.1	46.4	29.3	35.	
45+	21.4	24.3	26.9	17.3	15.	
45-64	26.4	29.4	32.4	20.8	20.	
65+	10.4	13.4	14.5	(*)	(*	

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Table 13. Number of dental X-ray visits and number of dental X-ray visits per 100 persons per year, by region, sex, and age: United States, July 1960-June 1961

[Data are based on household interviews of the civilian, noninstitutional population. 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]

Sex and age	A11	·····	· · · · · · · · · · · · · · · · · · ·	r	Region								
	regions	Northeast	North Central	South	West								
<u>Both</u> sexes	Num	per of dental X-	ray visits in t	thousands									
All ages	48,768	15,141	. 11,915	10,241	11,47								
Inder 15	12,230	3,493	2,875	2,399	3.46								
5-29	13,881	4,453	3,603	2,727	3,09								
0-44	12,351	3,919	2,989	2,611	2,83								
5+	10,305	3,276	2,448	2,503	2,07								
45-64	8,686	2,766	2,103	2,044	1,77								
65+	1,619	511	(*)	`459	(*								
Male													
All ages	20,661	6,481	5,000	4,172	5,00								
Inder 15	5,978	1,810	1,433	1,053	1,68								
5-29	5,086	1,557	1,269	1,046	1,21								
0-44	5,149	1,605	1,375	1,004	1,16								
5+	4,449	1,508	923	1,069	94								
45-64	3,717	1,279	752	851	83								
65+	731	(*)	, (*)	(*)	*) (*								
Female	1												
All ages	28,106	8,661	6,915	6,069	6,46								
Inder 15	6,253	1,682	1,442	1,346	1,78								
.5-29	8,795	2,896	2,334	1,681	1,88								
0-44	7,202	2,314	1,614	1,607	1,66								
.5+	5,857	1,768	1,525	1,434	1,12								
45-64	4,969	1,486	1,351	1,193	93								
65+	888	(*)	(*)	· (*)	(*								
Both sexes	Number of o	iental X-ray vis	its per 100 per	rsons per y	year .								
All ages	27.4	32.7	24.0	18.9	41.								
nder 15	21.4	25.4	17.9	13.2	37.								
5-29	40.8	52.9	38.7	24.9	57.								
0-44	35.3	40.0	31.2	26.0	50.								
5+	19.9	22.9	16.5	16.6	27.								
45-64	23.9	27.8	20.9	19.0	32.								
65+	10.4	11.7	(*)	10.7	(*								
Male													
All ages	23.9	29.1	20.3	15.9	37.								
nder 15	20.5	25.6	17.4	11 /	36								
5-29	31.4	39.2	27.7	11.4 20.1	36. 49.								
0-44	30.7	34.5	29.0	20.1	49.								
5+	18.2	22.9	13.0	15.1	43. 25.								
45-64	21.3	27.3	15.3	16.5	30.								
65+	10.5	(*)	(*)	(*)	(*								
Female													
All ages	30.7	36.1	27.5	21.7	<u> </u>								
nder 15	22.3	25.1	18.5	15.1	38.								
5-29	49.4	65.2	49.3	29.2									
0-44	39.5	44.9	33.3	30.2	57.								
5+	21.4	23.0	19.7	17.9	28.								
45-64	26.4	28.3	26.1	21.2	33.								
65+	10.4	(*)	(*)	(*)	(*								

Table 14. Number of dental X-ray visits and number of dental X-ray visits per 100 persons per year, by family income, sex, and age: United States, July 1960-June 1961

[Data are based on household interviews of the civilian, noninstitutional population. 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]

			Family	income		
Sex and age	All incomes	Under \$2,000	\$2,000- 3,999	\$4,000- 6,999	\$7,000+	Unknown
Both sexes	÷ .	Number of	dental X-ra	y visits in	thousands	
All ages	48,768	3,067	5,984	15,919	21,744	2,054
Under 15	12,230	· 438	1,346	4,298	5,678	470
15-29	13,881	1,340	2,182	4,760	5,021	579
30-44	12,351	(*)	1,238	4,314	6,080	402
45+	10,305	972	1,218	2,546	4,966	604
43-64 65 1	8,686 1,619	561 411	931 (*)	2,209 (*)	4,493 473	493 (*)
Male						
All ages	20,661	1,240	2,267	6,794	9,578	782
Under 15	5,978	(*)	691	2,074	2,741	(*)
L5-29	5,086	535	688	1,639	2,077	(*)
0-44	5,149	(*)	472	1,924	2,460	(*)
5+	4,449	(*)	416	1,157	2,300	(*)
45-64 65 1	3,717 731	(*) (*)	(*)	· 982 (*)	2,090 (*)	(*) (*)
Female						
All ages	28,106	1,827	3,717	9,125	12,166	- 1,272
Jnder 15	6,253	(*)	655	2,224	2,937	(*)
15-29	8,795	805	1,494	3,121	2,944	432
0-44	7,202	(*)	766	2,390	3,620	(*)
5+	5,857	583	802	1,389	2,666	41
45-64 65+	4,969 888	(*) (*)	603 (*)	1,227 (*)	2,403 (*)	(*) (*)
<u>Both sexes</u>	Num				ersons per ye	
All ages	27.4	12.9	17.4	25.7	45.3	20.7
· · · · · · · · · · · · · · · · · · ·						
Inder 15	21.4	7.4	12.2	19.1	37.6	18.0
0-44	40.8 35.3	30.5 (*)	30.4 22.9	39.2 31.7	59.1 52.7	32.0
54	19.9	9.0	11.3	18.7	38.7	16.0
45-64	23.9	10.9	13.3	20.2	41.7	19.8
65+	10.4	7.2	(*)	(*)	22.8	(*)
Male						
All ages	23.9	11.5	13.8	22.1	40.1	16.5
Jnder 15	20.5	(*)	12.4	18.0	35.9	· (*)
5-29	31.4	25.1	20.4	28.9	50.1	(*)
0-44	30.7	(*)	18.8	28.7	44.3	(*)
5+	18.2	(*)	8.4	16.9	35.2	(*)
45-64 65 1	21.3 10.5	(*) (*)	(*) (*)	17.6 (*)	37.2 (*)	(*) (*)
Female						
All ages	30.7	14.1	20.7	29.3	50.5	24.5
Under 15	22.3	(*)	12.0	20.1	39.4	(*)
15-29	49.4	35.7	39.4	48.3	67.7	45.
30-44	39.5	(*)	26.4	34.6	60.5	(*)
5+	21.4	9.1	13.7	20.6	42.3	19.
45-64	26.4	(*)	15.4	23.0	46.6	(*)
65+	10.4	(*)	(*)	(*)	(*)	(*)

Table 15. Number of dental X-ray visits and number of dental X-ray visits per 100 persons per year, by education of family head, sex, and age: United States, July 1960-June 1961

[Data are based on household interviews of the civilian, noninstitutional population. 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]

	Education of family head All educational groups years years College Unknown						
Sex and age	educational			College	Unknown		
<u>Both sexes</u>	Number of dental X-ray visits in thousands						
All ages	48,768	8,823	23,433	15,676	836		
Under 15	12,230	1,932	6,414	3,721	(*)		
15-29	13,881	2,430	6,809	4,411	(*)		
30-44	12,351	1,618	6,023	4,511	(*		
45+	10,305	2,845	4,186	3,033	(*)		
45-64 65 1	8,686 1,619	2,227	3,696 491	2,575 458	(* (*		
Male	1,015			450			
 All ages	20,661	3,938	9,485	6,928	(*)		
Under 15	5,978	992	3,118	1,791	(*)		
15-29	5,086	895	2,415	1,698	(*)		
45+	5,149	751	2,325	2,006	(*)		
45-64	4,449	1,300	1,627 1,440	1,433	(*		
65+	3,717	980 (*)	1,440 (*)	1,239 (*)	(* (*		
<u>Female</u>							
A11 ages	28,106	4,886	13,948	8,748	52		
Under 15	6,253	940	3,297	1,930	(*)		
15-29	8,795	1,534	4,394	2,713	(*)		
30-44	7,202	867	3,698	2,505	(*)		
45+	5,857	1,545	2,560	1,600	(*)		
45-64	4,969	1,247	2,256	1,336	(*		
65+	888	(*)	(*)	(*)	(*)		
Both sexes	Number of	dental X-ray vi	sits per 100 p	ersons per	year		
All ages	27.4	14.5	29.5	47.8	17.3		
Under 15	21.4	11.7	22.8	32.9	(*)		
15-29	40.8	24.3	41.1	66.9	· (*)		
30-44	35.3	17.3	34.5	60.5	(*)		
45+	19.9	11.4	24.1	40.7	(*)		
45-64	23.9	13.8	28.0	45.2	(*)		
65+	10.4	7.0	11.9	26.3	(*)		
Male							
All ages	23.9	13.2	24.7	43.3	. (*)		
Under 15	20.5	11.8	21.6	31.5	(*)		
15-29	31.4	17.7	32.0	53.5	(*		
30-44	30.7	17.3	27.8	54.0	(*)		
45+	18.2	10.8	20.3	41.8	(*)		
45-64	21.3	12.7	22.4	45.3	(*)		
65+	10.5	(*)	(*)	(*)	(*)		
Female							
Áll ages	30.7	15.8	33.9	52.1	20.9		
Under 15	22.3	11.6	24.1	34.4	(*)		
15-29	49.4	31.1	48.8	79.4	(*)		
	39.5	17.4	, 40.6	67.0	(*)		
45+	21.4	11.9	27.5	39.9			
30-44 45+ 45-64 65+				39.9 45.0 (*)	(*) (*) (*)		

Table 16. Population used in obtaining rates shown in this publication, by race, residence, sex, and age: United States, July 1960-June 1961

[Data are based on household interviews of the civilian, noninstitutional population. 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]

		Re	Race		Residence				
Sex and age	Total population	White	Nonwhite.	Urban			Rural		
				Total	Inside urbanized areas	Other urban places	Total	Nonfarm	Farm
Both sexes	Population in thousands								
A11 ages	177,984	157,446	20,538	106,839	77,368	29,471	71,145	50,155	20,98
Under 15	57,186	49,069	8,117	31,836	22,708	9 ,128 .	25,350	18,153	7,19
15-29	33,993	29,742	4,252	20,771	14,825	5,946	13,222	9,333	3,88
30-44	34,999	31,314	3,685	20,922	15,637	5,285	14,076	10,604	3,47
45+ 45-64 65+	51,805 36,298 15,507	47,322 32,905 14,417	4,484 3,393 1,090	33,309 23,220 10,089	24,197 17,205 6,992	9,112 6,016 3,096	18,496 13,077 5,419	12,064 8,568 3,496	6,432 4,509 1,923
Male									
All ages	86,572	76,677	9,895	50,928	36,817	14,111	35,644	24,732	10,91
Under 15	29,166	25,086	4,080	16,158	11,469	4,689	13,008	9,222	3,78
15-29	16,191	14,186	2,004	9,805	6,988	2,816	6,386	4,352	2,03
30-44	16,775	15,096	1,679	9,883	7,386	2,496	6,893	5,193	1,69
45+ 45-64 65+	24,441 17,489 6,952	22,309 15,868 6,441	2,132 1,621 511	15,083 10,789 4,294	10,974 8,007 2,967	4,109 2,782 1,327	9,358 6,700 2,658	5,965 4,341 1,624	3,39 <u>;</u> 2,359 1,034
Female									
All ages	91,412	80,768	10,643	55,911	40,551	15,360	35,501	25,423	10,07
Under 15	28,020	23,983	4,037	15,678	11,240	4,439	12,342	8,932	3,41
15-29	17,803	15,555	2,248	10,966	7,837	3,129	6,836	4,982	1,85
30-44	18,224	16,217	2,007	11,040	8,251	2,789	7,184	5,411	1,77
45+ 45-64 65+	27,365 18,809 8,555	25,013 17,037 7,976	2,352 1,773 579	18,226 12,431 5,795	13,223 9,198 4,026	5,003 3,234 1,769	9,138 6,378 2,761	6,099 4,227 1,872	3,03 2,15 88

NOTE: For official population estimates for more general use, see Bureau of the Census reports on the civilian population of the United States, in <u>Current Population</u> Reports: Series P-20, P-25, and P-60.

Table 17. Population used in obtaining rates shown in this publication, by region, sex, and age: United States, July 1960-June 1961

[Data are based on household interviews of the civilian, noninstitutional population. 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]

			Region						
Sex and age	A11 regions	Northeast	North Central	South	West				
Both sexes	Population in thousands								
All ages	177,984	46,269	49,743	54,208	27,763				
Under 15	57,186	13,757	16,034	18,157	9,238				
15-29	33,993	8,416	9,309	10,955	5,314				
30-44	34,999	9,800	9,588	10,048	5,563				
45+ 45-64 65+	51,805 36,298 15,507	14,296 9,934 4,362	14,813 10,084 4,729	15,048 10,761 4,286	7,649 5,518 2,131				
Male			· .						
All ages	86,572	22,277	24,641	26,206	13,448				
Under 15	29,166	7,058	8,242	9,229	4,637				
15-29	16,191	3,972	4,573	5,196	2,450				
30-44	16,775	4,651	4,740	4,724	2,661				
45+ 45-64 65+	24,441 17,489 6,952	6,597 4,683 1,915	7,086 4,917 2,168	7,058 5,146 1,911	3,701 2,742 958				
Female									
All ages	91,412	23,991	25,102	28,002	14,316				
Under 15	28,020	6,700	7,792	8,928	4,601				
15-29	17,803	4,444	4,735	5,760	2,864				
30-44	18,224	5,149	4,848	5,324	2,903				
45+ 45-64 65+	27,365 18,809 8,555	7,699 5,252 2,447	7,728 5,167 2,561	7,990 5,615 2,375	3,948 2,776 1,173				

NOTE: For official population estimates for more general use, see Bureau of the Census reports on the civilian population of the United States, in Current Population Reports: Series P-20, P-25, and P-60.

Table 18. Population used in obtaining rates shown in this publication, by family income, sex, and age: United States, July 1960-June 1961

[Data are based on household interviews of the civilian, noninstitutional population. 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]

	Family income						
Sex and age	A11 incomes	Under \$2,000	\$2,000- 3,999	\$4,000- 6,999	\$7,000+	Unknown	
Both sexes	Population in thousands						
All ages	177,984	23,814	34,390	61,864	47,973	9,943	
Under 15	57,186	5,915	11,007	22,560	15,098	2,606	
15-29	33,993	4,389	7,168	12,131	8,496	1,810	
30-44	34,999	2,699	5,413	13,595	11,534	1,758	
45+ 45-64 65+	51,805 36,298 15,507	10,811 5,130 5,681	10,803 6,987 3,815	13,579 10,925 2,654	12,844 10,769 2,075	3,768 2,486 1,282	
Male							
All ages	86,572	10,816	16,404	30,717	23,884	4,751	
Under 15	29,166	3,072	5,568	11,501	7,643	1,382	
15-29	16,191	2,135	3,380	5,668	4,148	860	
30-44	16,775	1,185	2,506	6,697	5,554	833	
45+ 45-64 65+	24,441 17,489 6,952	4,424 2,063 2,361	4,951 3,065 1,885	6,851 5,585 1,266	6,540 5,617 922	1,675 1,158 517	
Female							
All ages	91,412	12,998	17,986	31,147	24,088	5,192	
Under 15	28,020	2,843	5,439	11,060	7,455	1,224	
15-29	17,803	2,254	3,788	6,462	4,348	950	
30-44	18,224	1,514	2,907	6,898	5,981	925	
45+ 45-64 65+	27,365 18,809 8,555	6,387 3,067 3,320	5,852 3,922 1,930	6,728 5,340 1,388	6,305 5,152 1,153	2,093 1,328 765	

NOTE: For official population estimates for more general use, see Bureau of the Census reports on the civilian population of the United States, in Current Population Reports: Series P-20, P-25, and P-60.

Table 19. Population used in obtaining rates shown in this publication, by education of family head, sex, and age: United States, July 1960-June 1961

[Data are based on household interviews of the civilian, noninstitutional population. 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]

	E	ducation	of famil	y head	
Sex and age	All educational groups	Under 9 years	9-12 years	Còllege	Unknown
Both sexes	· F	opulation	in thou	isands	
All ages	177,984	60 <u>,</u> 849	79,507	32,785	4,843
Under 15	57,186	16,503	28,140	11,297	1,246
15-29	33,993	9,987	16,548	6,589	869
30-44	34,999	9,330	17,478	7,455	736
45+ 45-64 65+	51,805 36,298 15,507	25,029 16,159 8,869	17,341 13,210 4,131	7,444 5,702 1,741	1,992 1,226 765
Male					
All ages	86,572	29,843	38,393	16,010	2,326
Under 15	29,166	8,427	14,445	5,691	602
15-29	16,191	5,054	7,552	3,173	411
30-44	16,775	4,344	8,372	3,715	(*)
45+ 45-64 65+	24,441 17,489 6,952	12,018 7,742 4,276	8,023 6,427 1,596	3,430 2,735 695	970 584 (*)
Female					
All ages	91,412	31,006	41,115	16,775	2,516
Under 15	28,020	8,076	13,694	5,605	645
15-29	17,803	4,933	8,996	3,416	458
30-44	18,224	4,985	9,106	3,740	. 392
45+ 45-64 65+	27,365 18,809 8,555	13,011 8,417 4,594	9,317 6,783 2,535	4,014 2,967 1,047	1,022 642 (*)

NOTE: For official population estimates for more general use, see Bureau of the Census reports on the civilian population of the United States, in <u>Current Population Reports</u>: Series P-20, P-25, and P-60.

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Table 20. Population used in obtaining rates shown in this publication, by family income, education of family head, sex, and age: United States, July 1960-June 1961

[Data are based on household interviews of the civilian, noninstitutional population. 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]

		Fan	ily inco	me and ed	ucation o	of family	head	
Sex and age		Ųn	der \$4,0	· 00		\$4,000+		Income or
	Total	Under 9 years	9-12 years	College	Under 9 years	9-12 years	College	education unknown
Both sexes			Po	pulation	in thousa	inds		
All ages	177,984	31,628	20,611	4,099	25,602	54,992	27,560	13,49
Under 15	57,186	8,593	6,972	870	7,022	20,052	10,132	3,540
15-29	33,993	4,640	5,096	1,453	4,718	10,698	. 4,935	2,45
30-44	34,999	4,046	3,271	566	4,735	13,410	6,671	2,300
45+ 45-64 65+	51,805 36,298 15,507	14,350 7,855 6,495	5,272 3,219 2,054	1,209 646 563	9,127 7,303 1,824	10,833 9,110 1,722	5,823 4,786 1,037	5,192 3,379 1,813
Male			`					
All ages	86,572	15,095	9,313	1,924	13,002	27,210	13,559	6,46
Under 15	29,166	4,385	3,611	417	3,583	10,225	5,118	1,82
15-29	16,191	2,272	2,244	819	2,453	4,959	2,272	1,17
30-44	16,775	1,858	1,447	(*)	2,231	6,548	3,324	1,08
45+ 45-64 65+	24,441 17,489 6,952	6,580 3,496 3,084	2,011 1,233 778	409 (*) (*)	4,735 3,766 970	5,479 4,789 691	2,846 2,400 446	2,380 1,59 789
Female								
All ages	91,412	16,533	11,298	2,174	12,600	27,782	14,001	7,024
Under 15	28,020	4,208	3,360	453	3,439	9,828	5,014	1,71
15-29	17,803	2,368	2,852	634	2,265	5,739	2,663	1,28
30-44	18,224	2,187	1,824	(*)	2,504	6,862	3,348	1,21
45+ 45-64 65+	27,365 18,809 8,555	7,770 4,358 3,411	3,261 1,986 1,276	800 432 (*)	4,392 3,538 854	5,353 4,321 1,032	2,977 2,386 591	2,81 1,788 1,024

NOTE: For official population estimates for more general use, see Bureau of the Census reports on the civilian population of the United States, in <u>Current Population</u> Reports: Series P-20, P-25, and P-60.

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Table 21. Population of racial groups with known family income and number and percent of total with family income under \$4,000, by age: United States, July 1960-June 1961

[Data are based on household interviews of the civilian, noninstitutional population. 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]

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	· .	White		Nonwhite				
Age	Population with known		income \$4,000	Population with known	Family under \$			
	family income	Number	Percent	family income	Number	Percent		
		Pa	pulation i	n thousands				
All ages	148,652	44,269	29.8	19,389	13,935	71.9		
Under 15	46,863	11,206	23.9	7,716	5,716	74.1		
15-29	28,207	8,737	31.0	3,976	2,820	70.9		
30-44	29,754	, 5,91 3	19.9	3,486	2,198	63.1		
45+ 45-64 65+	43,827 30,629 13,197	18,414 9,795 8,618	42.0 32.0 65.3	4,210 3,182 1,028	3,200 2,323 878	76.0 73.0 85.4		

NOTE: For official population estimates for more general use, see Bureau of the Census reports on the civilian population of the United States, in <u>Current Population Reports</u>: Series P-20, P-25, and P-60.

TECHNICAL NOTES ON METHODS

Background of This Report

This report on <u>Volume of X-ray Visits</u> is one of a series of statistical reports prepared by the National Health Survey. It is based on information collected in a continuing nationwide sample of households in the Health Interview Survey, a major aspect of the program.

The Health Interview Survey utilizes a questionnaire which, in addition to personal and demographic characteristics, obtains information on illnesses, injuries, chronic conditions and impairments, and other health topics. As data relating to each of these various broad topics are tabulated and analyzed, separate reports are issued which cover one or more of the specific topics. The present report is based on the consolidated sample for 52 weeks of interviewing during the period July 1960-June 1961.

The population covered by the sample for the Health Interview Survey is the civilian, noninstitutional population of the United States living at the time of the interview. The sample does not include members of the Armed Forces, U. S. nationals living in foreign countries, or crews of vessels.

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, noninstitutional population of the United States. The first stage of this design consists of drawing a sample of 500 from the 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 Statistical 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, household members are interviewed concerning factors related to health.

Since the household members interviewed each week are a representative sample of the population, samples for successive weeks can be combined into larger samples. 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.

Sample size and geographic detail.—Over the 12month period ending June 1961, the sample included approximately 125,000 persons from 38,000 households in 6,400 segments. The over-all sample was designed in such a fashion that tabulations can be provided for each of the major geographic regions and for urban and rural sectors of the United States.

<u>Collection of data</u>.—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 the 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 number of dental X-ray visits—is the result of two stages of ratio estimation. In the first of these, the factor is the ratio of the 1950 decennial population count to the 1950 estimated population in the U. S. National Health Survey's first-stage sample of PSU's. These factors are applied for some 50 color-residence classes.

Later, ratios of sample-produced estimates of the population to official Bureau of the Census figures for current population in about 60 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 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 as well as characteristics of the 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.

For population statistics, such as the population used in obtaining rates of medical X-ray visits, figures for a specific calendar quarter are averages of estimates for all weeks of interviewing in that quarter. Similarly, population data for a year are averages of the four quarterly figures.

For statistics measuring the number of occurrences during a specified time period, such as the number of dental X-ray visits, a similar computational procedure is used, but the statistics have a different interpretation. For the X-ray visit items, the questionnaire asks for the respondent's experience over the three months prior to the week of interview. In such instances the es-

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timated quarterly total for the statistic is obtained by averaging estimates for all weeks of interviewing in the quarter. The annual total is the sum of the four quarterly estimates. Thus, the experience of persons interviewed during a year—experience which actually occurred for each person in a 13-calendar-week period prior to the week of interview—is treated in analysis as though it measured the total of such experience occurring in the year. Such interpretation leads to no significant bias.

General Qualifications

<u>Nonresponse</u>.—Data were adjusted for nonresponse by a procedure which imputes to persons in a household which was not interviewed the characteristics of persons in households in the same segment which were interviewed. The total noninterview rate was 5 percent; 1 percent was refusal, and the remainder was primarily due to the failure to find any eligible household respondent after repeated trials.

The interview process.—The statistics presented in this report are based on replies secured in interviews of persons in the sampled households. Each person 17 years and over, available at the time of interview, was interviewed individually. Proxy respondents within the household were employed for children and 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.

There are limitations to the accuracy of diagnostic and other information collected in household interviews. For diagnostic information, the household respondent can, at best, pass on to the interviewer only the information the physician has given to the family. For conditions not medically attended, diagnostic information is often no more than a description of symptoms. However, other types of facts such as those concerning the circumstances and consequences of illness or injury and the resulting action taken or sought by the individual can be obtained more accurately from household members than from any other source, since only the persons concerned are in a position to report all of this type of information.

<u>Rounding of numbers.</u>—The original tabulations on which the 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 rounded to the nearest thousand, although they are not necessarily accurate to that detail. Derived statistics such as rates and percent distributions are computed after the estimates on which they are based have been rounded to the nearest thousand.

Population figures.—Some of the published tables include population figures for specified categories. Except for certain over-all totals by age, sex, and color, which are adjusted to independent estimates, these figures are based on the sample of households in the U. S. National Health Survey. They are given primarily for the purpose of providing denominators for rate computation, and for this purpose are more appropriate for use with the accompanying measures of health characteristics than other population data that may be available. In some instances they will permit users to recombine published data into classes more suitable to their specific needs. With the exception of the overall totals by age, sex, and color, mentioned above, the population figures may in some cases differ from corresponding figures (which are derived from different sources) published in reports of the Bureau of the Census. For population data for general use, see the official estimates presented in Bureau of the Census reports in the P-20, P-25, and P-60 series.

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 relative standard error of an estimate is obtained by dividing the standard error of the estimate by the estimate itself, and is expressed as a percentage of the estimate. Included in this Appendix are charts from which the relative standard errors can be determined for estimates shown in the report. In order to derive relative 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, the charts provide an estimate of the approximate relative standard error rather than the precise error for any specific aggregate or percentage.

Three classes of statistics for the health survey are identified for purposes of estimating variances.

<u>Narrow range</u>.—This class consists of (1) statistics which estimate a population attribute, e.g., the number of persons in a particular income group, and (2) statistics for which the measure for a single individual for the period of reference is usually either 0 or 1, on occasion may take on the value 2, and very rarely, 3.

<u>Medium range</u>.—This class consists of other statistics for which the measure for a single individual for the period of reference will rarely lie outside the range 0 to 5.

<u>Wide range</u>.—This class consists of statistics for which the measure for a single individual for the period of reference frequently will range from 0 to a number in excess of 5, e.g., the number of days of restricted activity experienced during the year.

In addition to classifying variables according to whether they are narrow-, medium-, or wide-range, statistics in the survey are further defined as:

<u>Type A.</u>—Statistics on prevalence, and incidence data for which the period of reference in the questionnaire is 12 months. Type B.-Incidence-type statistics for which the

- period of reference in the questionnaire is two weeks.
- <u>Type C.</u>—Statistics on data, such as hospitalizations, for which the period of reference is six months.

<u>Type D.</u>—Statistics on data, such as X-ray visits, for which the period of reference in the questionnaire is three months.

Only the charts on sampling error applicable to data contained in this report are presented. Those shown are charts for aggregates based on four calendar quarters of data collection.

<u>General rules for determining relative sampling</u> <u>errors</u>.—The "guide" on page 40, together with the following rules, will enable the reader to determine approximate relative standard errors from the charts for estimates presented in this report.

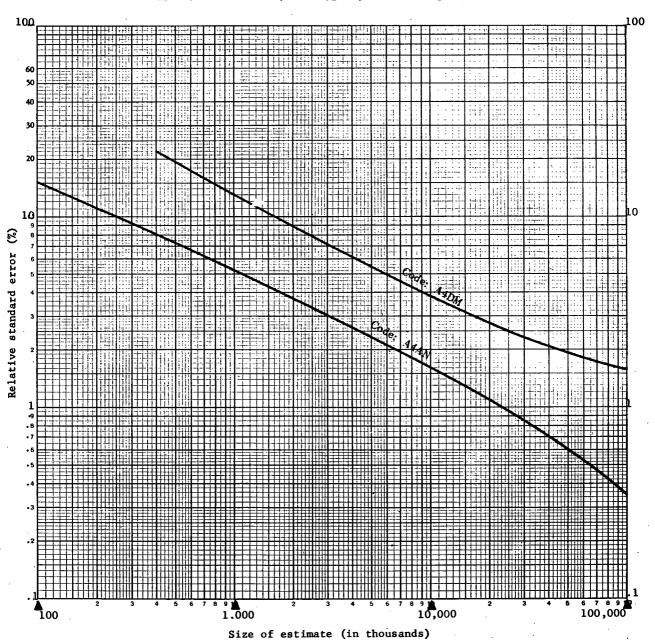
Rule 1. Estimates of aggregates: Approximate relative standard errors of estimates of aggregates, such as the number of persons with a given characteristic, or the number of X-ray visits are obtained from appropriate curves on page 41. The number of persons in the total U. S. population or in an age-sex-color class of the total population is adjusted to official Bureau of the Census figures and is not subject to sampling error.

Rule 2. <u>Estimates of percentages in a percent dis-</u> <u>tribution:</u> Relative standard errors of percentages in a percent distribution of a total are obtained from appropriate curves on page 42. For values which do not fall on one of the curves presented in the chart. visual interpolation will provide a satisfactory approximation.

- Rule 3. Estimates of rates where the numerator is a subclass of the denominator: (Not required for statistics presented in this report.)
- Rule 4. Estimates of rates where the numerator is not a subclass of the denominator: This rule applies where a unit of the numerator often occurs more than once for any one unit in the denominator. For example, in the computation of the number of dental X-ray visits per 100 persons per year, several of the X-ray visits included in the numerator could be assigned to each 100 persons (one unit) in the denominator. Approximate relative standard errors for rates of this kind may be computed as follows:
 - (a) Where the denominator is the total U. S. population, or includes all persons in one or more of the age-sexcolor groups of the total population, the relative error of the rate is equivalent to the relative error of the numerator which can be obtained directly from the appropriate chart.
 - (b) In other cases, obtain the relative standard error of the numerator and of the denominator from the appropriate curve. Square each of these relative errors, add the resulting values, and extract the square root of the sum. This procedure will result in an upper bound, and often will overstate the error.

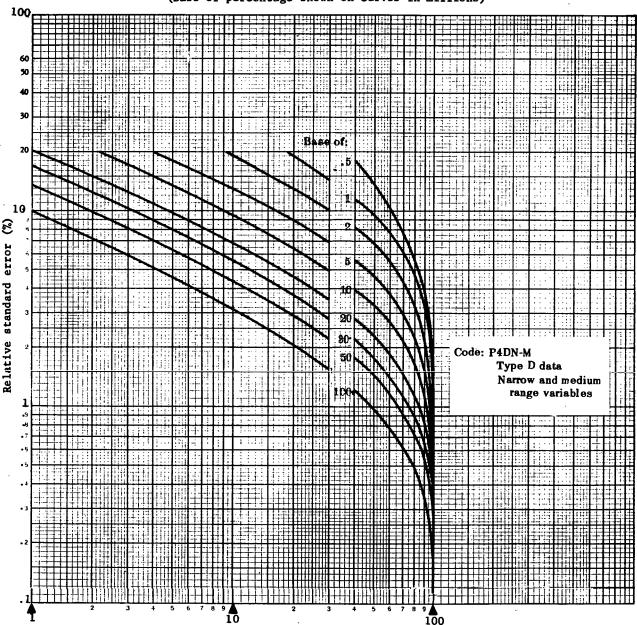
The code shown below identifies the appropriate curve to be used in estimating the relative standard error of the statistic described. The four components of each code describe the statistic as follows: (1) A = aggregate, P = percentage; (2) the number of calendar quarters of data collection; (3) the type of the statistic as described on page 38; and (4) the range of the statistic as described on page 38.

Statistic	Use:								
	Rule	Code on	page						
Number of: Persons, by residence, region, income or education	<u>,</u> 1	A4AN	41						
Persons in the U. S. population, or total number of persons in any age-sex-color category	Not subje								
X-ray visits	1	A4DM	41						
Percentage distribution of: X-ray visits	2	P4DN-M	42						
X-ray visits per 100 persons: In the total U. S. population or in any age-sex-color group of the total U. S.									
population	4(a)	A4DM	41						
In any other population group	4(b)	Numer.: A4DM Denom.: A4AN	41						



Relative standard errors for aggregates based on four quarters of data collection for type A, Narrow range, and type D, Medium range data

Example of use of chart: An aggregate of 1,000,000 (on scale at bottom of chart) for a Medium range type D statistic (code: A4DM) has a relative standard error of 13.2 percent, read from scale at left side of chart, or a standard error of 132,000 (13.2 percent of 1,000,000).



Relative standard errors for percentages based on four quarters of data collection for type D data, Narrow and Medium range

(Base of percentage shown on curves in millions)

Estimated percentage

Example of use of chart: An estimate of 20 percent (on scale at bottom of chart) based on an estimate of 10,000,000 has a relative standard error of 6.4 percent (read from the scale at the left side of the chart), the point at which the curve for a base of 10,000,000 intersects the vertical line for 20 percent. The standard error in percentage points is equal to 20 percent X 6.4 percent or 1.3 percentage points.

APPENDIX II

DEFINITIONS OF CERTAIN TERMS USED IN THIS REPORT

Terms Relating to X-rays

<u>X-ray visit</u>.—An X-ray visit is defined as a visit by a person to a physician's office, dentist's office, hospital, mobile X-ray unit, Public Health Department, etc., during the course of which X-ray equipment is used for diagnosis or treatment. X-ray includes X-ray film photography and X-ray emission for treatment and fluoroscopy, but excludes the use of radioisotopes. Only one visit is counted each time the person is x-rayed, regardless of the number of X-ray films exposed or the number of ports used. However, statistics are collected for each of the separate areas of the body toward which X-rays have been emitted (see below).

An X-ray visit is counted each time the person is x-rayed during the reference period. Hence, one person may be included in the statistics more than once. However, if several areas of the body are x-rayed during a single visit, only one X-ray visit is recorded. The term X-ray visit is used synonymously with "person-" event in other National Health Survey statistics, e.g., person-day.

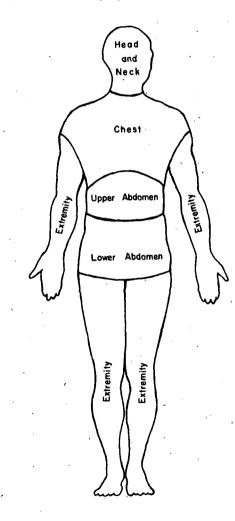
Statistics are prepared separately for dental X-ray visits and medical X-ray visits, i.e., other than dental. A dental X-ray visit is defined as an X-ray usually taken in a dentist's office for the primary purpose of studying the condition or formation of the teeth. If an X-ray of the teeth or jaw is taken in a hospital or clinic primarily for dental purposes, it is counted as a dental X-ray.

<u>Place of X-ray.</u>—The place of X-ray is a classification of the types of places at which an X-ray visit (other than dental) took place. Place of X-ray is not recorded for dental X-ray visits. The definitions of the three categories are as follows:

- 1. <u>Hospital</u> is defined as the place at which X-rays were received while an inpatient in the hospital and also X-rays received as an outpatient at a hospital clinic.
- Doctor's office is defined as the office of any doctor who has his own X-ray equipment, or the office of a radiologist. "Doctor's office" also includes clinics run by a group of doctors if the clinic provides X-ray services.
- 3. <u>Other</u> is defined as places other than hospitals or doctors' offices at which X-ray services are provided. For example, such places include schools, mobile units, Public Health Departments, etc.

Type of service.—X-ray service is classified as diagnosis or treatment. Diagnosis is defined as X-rays for checkup or examination using X-ray or fluoroscopic procedures to determine the presence, absence, or state of a disease or condition. X-rays for treatment are X-rays used in treating a condition which has already been diagnosed.

Body areas.—For each X-ray other than dental, the area of the body to which the X-rays are directed is classified in one of six categories in addition to an "unknown" group shown in the accompanying chart.



The six categories are defined as follows:

- 1. <u>Head and neck</u> is defined as that portion of the body, exclusive of skin covering, above the trunk.
- 2. <u>Chest</u> is defined as that portion of the trunk above the diaphragm including the shoulder.
- 3. <u>Upper abdomen is defined as that portion of the</u> body between the diaphragm and the transverse colon.
- 4. <u>Lower abdomen</u> is defined as the remainder of the trunk including the hip.
- 5. <u>Extremities</u> are defined as the arms exclusive of the shoulders and the legs exclusive of the hip.
- 6. <u>Skin</u> is defined as the outer covering of the body made up of an epithelial layer, the scarf skin, and the true skin.

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.

<u>Race</u>.—In this report, the population has been subdivided into two groups according to race, "White" and "Nonwhite." "Nonwhite" includes Negro, American Indian, Chinese, Japanese, and so forth. Mexican persons are included with "White" unless definitely known to be Indian or other nonwhite race.

Family income.—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.

Education of family head.—Each member of a family is classified according to the education of the head 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 education.

The categories of educational status show the highest grade of school completed. Only grades completed in regular schools, where persons are given a formal education, are included. A "regular" school is one which advances a person toward an elementary or high school diploma, or a college, university, or professional school degree. Thus, education in vocational, trade, or business schools outside the regular school system is not counted in determining the highest grade of school completed.

Location of Residence Terms

<u>Urban residence</u>.—The definition of urban 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.

In this report, the urban population has been subdivided into those living "Inside urbanized areas" and those living in "Other urban places."

Inside urbanized areas.—Following the definition used in the 1950 Census, the population in urbanized areas comprises all persons living in (a) cities of 50,000 inhabitants or more in 1940 or according to a special census taken between 1940 and 1950; and (b) the densely settled urban fringe, including both incorporated and unincorporated areas, surrounding these cities.

Other urban places.—The remaining urban population not classified as living "Inside urbanized areas" is classified as living in "Other urban places."

<u>Rural residence</u>.—The remaining population not classified as "Urban" is classified as "Rural." In this report the rural population has been subdivided into "Rural farm" and "Rural nonfarm."

Rural farm,-All rural residents living on farms are classified as "Rural farm." In deciding whether members of a household reside on a farm or ranch, the statement of the household respondent that the house is on a farm or ranch is accepted, with the following exception. A house occupied by persons who pay cash rent for the house and yard only is not counted as a farm or ranch even though the surrounding area is farm land. This special case does not cover: (1) the living quarters of a tenant farmer who rents farm land as well as house and yard; (2) the quarters of a hired hand who receives living quarters on a farm as part of his compensation; or (3) separate living quarters inside a structure which is classified as on a farm. In all these cases the living quarters are counted as on a farm.

<u>Rural nonfarm</u>.—The remaining rural population not classified as "Rural farm" is classified as "Rural nonfarm."

Region and geographic division. — For the purposes of classifying the population by geographic area of residence, the U. S. National Health Survey uses the same grouping of states used by the Bureau of the Census and many other agencies. The major regions and geographic divisions are:

Region and Division

States Included

Northeast New England

Middle Atlantic

Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut New York, New Jersey, Pennsylvania North Central

East North Central

West North Central

South South Atlantic Michigan, Ohio, Illinois, Indiana, Wisconsin Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, Kansas

Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida

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East South Central

West South Central

0

West Mountain

Pacific

Kentucky, Tennessee, Alabama, Mississippi Arkansas, Louisiana, Oklahoma, Texas

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

APPENDIX

QUESTIONNAIRE

	The items below tional Health Surv n one person, cond	ey. Tb	e actual qu	estionnaire is	designed for a h	blodseum	as a unit an	id include	s addition					,
CON FIDE	NTIAL - The Nati would per poses of	mit ide	ntification o	f the individu	by Public Law 6 al will be held st used or released	rictly con	fidential, wi	ll be used	l only by p	ersons en	i). A gageo	ll information in and for th	whic te pur	h -
FORM NHS-4 (4-4-80)				U.S. DEPARTI BUREAU TING AS COLLI U.S. PUBLIC	MENT OF COMMERC OF THE CENSUS ECTING AGENT FOR HEALTH SERVICE	: е 1 тне					1.	Questionnaire of		_
2 (0) Addres	s or description of l				IEALTH SUI		Ja. Reg.	4. Sub-	IE 61-	Id neu		Questionnaires	-	
						3. Iden. Code	office Code	sample veight		Number	1	Segment No.	8. Ser	18119
(b) Mailia	g address if not show	rn in (a')											
(c) Type of living quarters	Housing unit	(d) Na	me of Special	Dwelling Place	9. to shi	is house on a	form or ro	nch?			[_] Yes		No	
۲ ۲	Ask items 10 and 11		"rural" box i All	s checked:	e der	10. Do ;		nt this pla						
- 11. If "Own"	or "reat free" in q						Owa		C Reat	<u>.</u>		Rent free		
If "rent"	this place have 10 o in question 10, ask: the place you cant h			,		of c prov	ing the post rops, livesta fucts from th or more?	ck, and at	her form	of c prod	rops, I	past 12 month livestock, and rom the place of	other f	farm
							🗌 Yes		No No	i				No
vacant, in 13. Daes any	any other living que n this building (apart rane else liviag la th CE to get to his livi	ment)?	ling use YOUI			whethe		ons 12, 13 re additio		definition	of a l	14 housing unit to be filled and w		
14. Is there o	its except apartment my other building on - either occupied or	this pr	operty for peo	ple 	15. Wh	at is the tele	•	ber here?			s overlooked a beat time to c].	
				17.	RECORD OF CAL		USEHOLDS			L.				
	Item	Date	<u> </u>	Com.	2	Com.	3	Com.			Com.		-	Com.
Entir-	e bausebold	Time					· · · · · · · · · · · · · · · · · · ·							
individual espondents	Col. No	Date Time							 					
				18.	REASON FOR	NON-INT	ERVIEW		·	Å				
Resson:	A] Refusal (Fill Hom] No one at home- repeated calls] Temporarily absem] Other (Specify)		Fill item 20	Vacant - Vacant - Usual res Armed Fo	sensonal idence elsewhere rces	📥 Elim	C alished mple by mist insted in sub t (Specily)		Interview Cols because:	not obtain	Z ed for			
19. Reason fo	or refusal					1		·	1	· -				
1. Contact 2. Find on	results in a Type A r t neighbors (caretake at the number of peop regular spaces inside	no, etc. de in th) until yon fin e bousehold,	Refusals) take ad someone who	knows the family.	3:	·	a not know	n, ascertniz	a relations	bips.	Record this is	aforma	rion
3. Find on	ut if anyone in the bo one in the household	now in ·			patient; if so, whit	ch person i	tis. This is	-	usking the fo			0: .d.a		
(o) If '	'Yes,''Who? (Enter		-						(C	No cost:				
(b) What a and sll	s the name of the her re the names of all a l persons staying her s in the prescribed a	ther per e who h	sons who live	here? (List a	ll persons who usu		re, Last	ame	- <u> </u>	(1) L	st us	ne		(2)
(c) Do any (other) lodgers ar roomers live here? No Yes (L (d) is there anyone else who lives here who is now No Yes (L temporally in a hespital? No Yes (L (e) Away an business? No Yes (L (f) On a visit? Na Yes (L (g) is there anyone else stoying here now? Na Yes (L						.ist) .ist) .ist)	→ → First	neme and i	nitia]	Fi	rst na	ase and initial		
(h) De any	r of the people in thi	s house	hold have a h	ome el sewheral		•••••								
	(leave on question)				ld membership rule	s; if oot a					·			
	ou related to the hea			Enter relations	hip to head, for ex	ample:	Relat	ionship		Re	lation	aship		
Dead, wite	, danghter, grandson	, mother	-is-isw, parts	er, loaget, lodg	er s wile, etc.)			٢	lead					

! .

3. How old were you on your last birthday?	Age	_ Under l year	Age	Under I year	7
		Negro	White	Negro	-
4. Rece (Check one box for each person)		Other		Cther	-
5. Sex (Check are bax for esch person)	Male	. Female		Femal	·
If 17 years old or over, ask:		Under 17 years		Under 17 years	
6. Are you now aaried, widowed, divarced, separated or never maried? (Check one box for each person)	Married	Divorced Divorced Separated Never married			
If 17 years old or over, sak:		Under 17 years		Under 17 yests	-
7. (a) What is the highest grade you attended in school? (Circle bighest grade streaded or check "Nome")	Elem: 1 High: 1	2345678 234		12345678	
	College: 1			1 2 3 4 5+	
(b) Did you finish thegrade (year)?	Ves	<u>с 1.01</u> №0	· · Yes	N•	
If Male and 17 years old or over, ask:		Fem.or und. 17 yrs		Fem. or und. 17 yrs.	1
8. (a) Did you ever serve in the Armed Forces of the United States? If ''Yes,'' ask:	□ Ye≉	No No	□ Yes	<u>⊡</u> №₀	
(b) Are you now in the Armed Forces, not counting the reserves? (If 'Yes,'' delete this person from questionnaire)	🗆 Yee	<u>□</u> №	🗆 Yes	No No	
(c) Was any of your service during a war or was it peace-time only?	Var .	Pesce-	□ Var	Pence	
lf "War," ask: (d) During which war did you serve?		Koresn	□ ₩ 1 1	Kareşi	
If "Peace-time" only, ask:		🔲 Other		🔲 Other	
(e) Was any of your service between June 27, 1950 and January 31, 1955? If 17 years old or over, ask:	Yes	No	Yes	No Under 17 years	-
9. (a) What were you doing most of the past 12 months	□ Vorking	,	🔲 Vorkin,	8	
(For males): working, or doing something else? (For females): working, keeping house, or doing something else?	🔲 Keeping		C Keepin	·	· ·
If "Something else" checked, and person is 45 years old or over, ask:	Tes	□ No	Yes -	No No	4
(b) Are you retired? If "Working," in q. 9(s), ask:		Under 17 years \-		Under 17 years	
0. (a) Were you working last work or the week before? If "Keeping bouse" or "Something else" in q. 9(a), ask:	U Yes	N₀	· □ Yes	N₀	
. (b) Did you work at a job or business at any time last week or the week before? If "No," in q. 10(s) or 10(b), ssk:	·				
(c) Even though you did not work last week or the week before, do you have a job ar business?	T Yes	No .	🗆 Yes	[]] No	
OTE: Determine which adults are at home and record this information. Beginning with question 11 you see to interview for bimself or berself, each adult person who is at home.	At bome	Under 17 years Not at	At box	Under 17 years Mot st home	
 Were you sick at any time LAST WEEK OR THE WEEK BEFORE? (That is, the 2-week period which ended last Sunday)? (a) What was the ancher? 	Yes Yes	No	TYes	No] · ·
(b) Anything else? 12. Last week or the week before did you take any medicine or treatment for any	<u> </u>		ļ		-
candition (besideswhich you told me about)? (a) For what canditions?	Yes	No	Yes .	[] No	
(b) Anything else? 13. Last week or the week before did you have any accidents or lajurise? (a) What were they?	☐ Yes	⊡ No	□ Yes	N₀	- ·
(b) Anything else? 14. Did you ever have on (any other) occident or injury that was still bothering you last week or the		N₀			-
week before? (a) in what way did it bother you?	Yes		Yes	<u> </u>	
(b) Asything else? 15. AT THE PRESENT TIME do you have any aliments or conditions that have lasted for a long time? (if "No") Even though they don't bother you all the time?	Tes 1	No	Yes 1	No	-
(a) What are they?					
(b) Anything else? 16. Has anyone is the family - you, your, etc hed any of these conditions DURING	Yes	□ No	□ Yee	N₀	┩ [┆]
THE PAST 12 MONTHS? γου, γου - , erc neo ony ar mass constributions DURING THE PAST 12 MONTHS? (Read Card A, coodition by condition; record any conditions mentioned in the column for the person)					
17. Does anyone in the family have any of these conditions? (Read Card B, conditions by condition; record any conditions)	T Yes	⊡ No	Yes .	No No	
mentioned in the column for the person) For persons 17 years old or over, show who responded for(or was present during the saking of)		ded for self-entirely		nded for self-entirely	-
R questions 11-17. If person responded for self, show whether entirely or partly. For persons under 17 show who responded for them.		ded for self-partly was respondent		nded for self-partly was respondent	
18. (a) Has anyone in the family been in a hospital DURING THE PAST 12 MONTHS? If "Yes."	□ Yes	□ No	□ Yes		
(b) How many different times were you in the hespital overnight or longer?		No. of times		No. of times	
19 (a) During the post 12 months has anyone in the family been a patient in a nursing home or sonitarium?	Yes	<u>No</u>	☐ Yes		,
lí "Yes," (b) How many times were you in a nursing home or scaltorium?	·	No. of times		No. of times	
10. If baby under one year listed as a bousehold member, ask: (a) Wasbaby born in a hospital or at home?	🔲 Hospita	l 🗌 Hom	Hosp	ital 📑 Ho	me
(a) was - book of a manager of a mathematical and the set of the s	🗆 Yes	. 🛄 No	Yes	М	· .
			-		_
					•
					. 47
, •					

Ē	Toble I - ILLNESSES, IMPAIRMENTS AND INJURIES													· · · · ·
Line pumber	Col. 1	Question n	EVER et any time telk te a doctor about ?	and present effects of old injuries: (a) If doctor talked to: What did the dactor	What was the cause of? (This column is to be asked if entry in Col. (d-1) is an Impairment of	If eye trouble of any kind and of years old or over, ask: Can you see well enough to read ordinary naws- paper print with	Whet kind of is it? Ask only for: Any entry in Col. (d-1) or (d-2) that includes the words: Aschma "condition" Cysts "disease" Growtha "isease" Growtha "trouble" For an ellergy or stroke nak: How does the offect you?	What part of the body is affsctod? Ask only for: Impsimears; Injuries; and for: Abacesser, boils, infections, inflam- mation, sores, ulcers Acbes, paiss, soreness, Bleeding or blood close Cancer, tumor, cysts or Arowtha Neuralgia or neuritis Virus Show detail for: Ear args - (Shoulder, upper, elbow, (uber, mide, lower) Arm - (Shoulder, upper, elbow, lower, mits.	OR TI WE EK FORE co to cut on octivit as mu day? Chec No	HE BE- did use you down ar usual ties for ch as o	line	How many of these - days were you in bed oil or most of the day?	If 6-16 years old ask: How many days did keep you from school last week or the week before?	
F	(a)	(ь)	(c)	(d-1)	(d-2)	(d-3)	(d-4)	(d-5)	(e)	(f)	(g)	(h)	(i)	
1			☐ Yes ☐ No		, ж		I	· •			Days	Days or None	D=ys or None	

						To Inte	aviewer		What did they say at the hespital the condition was	Were any operations perform	ne d or
Line number	Col. No. of per- son	Ques- tion No.	When did you enter the hos- pital? (Month, year)	How many nights were you in the hospitol?	hts many of ack color of these persons as color of these persons as color of these persons as color of these set il in a sill in a set of the here were the pital on the hore the the form of the months? The were the set or the set o		person atill in the hos- pital on last Sunday	did they give it o medical name? (If 'they' dida't say, sak): What did the last dactor you talked to say it was? (Show same detail as in cols. (d-1)-(d-3) of T.1) (If condition from accident or iojury, slso fill Table A)	you during this stay at the i pital? If "Ycs," (a) What was the name of th operation? (b) Any other operations?	ho 5-	
	(.)	(ь)	(c)	(d)	(e)	(x)	(f)	(8)	(b)	(i)	
1			Mo: Yr:	Nights	All or Nights	Ves	Nights	□ Yes □ No		Yes [No
2			Mo: Yr:	Nights	All or Nights	🗋 Yes 🕞 No	Nights	□ Yes □ No		Yes .] No
3			Mo: Yr:	Nights	All or Nights	🗋 Yes 🗋 No	Nights None	☐ Yès ☐ No		Yes [No

X-RAY QUESTIONS				
21. (c) We are interested in all kinds of X-rays - Did you have your testh X-rayed during the past 3 matrixs - (that is, from through last Sunday)? If "Yes,"	Yes	No.	U Yes	· 🗌 No
(b) How many times?	No. of times		No. of times	
22. During the past 3 months did you have a CHEST X-ray?	Yes-Chest	[_] No	Yes-Chest	C No
23. (o) Did you have any (other) kind of X-ray at all during the past 3 months? If "Yes," (b) What part of the hedy was X-rayed?	Yes Part(s) of body:	□ No	Yes Part(s) of body:	⊡ No

			Te	ble X - FILL O	NE LINE FOR EA	CH PART OF BODY ENTRY F	ROM QUESTIONS	22-25	1
Line number	Col. No. of persoo	Questioo No.	Part of body	How many different times did you heve your X-royod dur- ing the past 3 months?	Where did you have the X-ray(s)? How many X-rays were at the (hos- pital, doctor's affics, etc.)?	Whot was this X-ray(s) for a check-up or an exomination or for treatment?	If "both" in col. (f) ask: How many of theseX-ray(s) were for treat- ment?	If "both" or "treatment" in col. (f) ssk: For whot condition were you being treated	7
	(a)	(Ъ)	(c)	(d)	(e)	(f)	(8)	(b)	
1					Hospital Dr. office Other	Cbeck-np/examination			
2					Hospits1 Dt. office Other	Check-up/examination Treatment Both			
3					Hospital Dr. office Other	Check-up/examination			
26.	your -	- 8, 6	past 12 months in which g stc.7 (Show Card H) Inclus rty, pensions, help from rel	le income from a	l income of your fam Il sources, such os	lly foll, that is, your's, Group wages, salaries, rents	No.	Group No.	

					Table	- ILLNESS	ES, IMPAI	RMENTS	AND INJU	RIES						
If 17 years old or over and if 'Yes'', in q. 10(s), 10(b) or	(did THE	PAST	ret notice pen) DURING F 3 MONTHS or r time?	To Inter- viewer:	Did you first notice DURING THE PAST 12 MONTHS or before that	How tong since you last tolked to a dactor about?	Do you still take any medicine or treatment	mony daya during the past	If 1 or more days in col. (q-1) and col. (e) is check-	Please look at	fo f "1," "2" or	f each per If "Yes" in col.	lf "1"	or "2" in	If "1," or "2" or "3" in col. (r) ask:	
keep you from werk last week or the week before?	Check Before 3 mos. (Ga to Cal. (n))	1	2 weeks, ask): Which week, last week ar	COM- TINUE if col. (k) is check- ed, or the coodi- tion is on Card A or is an im- pais- ment; other- wise, STOP	time?	(If less than one month. enter ^t 'Und. 1" for ''Mo.")	that the doctor prescrib- ed for ? Dr, follow advice he gave?	12 manths, hos kept you in bed for oll ar most of the day?	ed, ask: How many of these days were during last week or the week before?		"3" in cal. (r): ls this because of any of the condi- tions	(s): Which?	col. (r How lang have you bown) msk: If 17 yenrs old ac over; ask: Ware you working or business up to that time?	Please look of this card and read each state- ment. Then state- ment fits you best. (Show Card G)	Line aumb
<u>.</u> (i)	(k)	10	(m)	(aa)	(n)	(0)	(e) :	(q-1)	(q-2)	(t)	(8)	(1)	(u)	(v)	(m)	
Days or D None			Last week		During past 12 months Before Birth	Mos. Yrs. No Dr.	☐ Yes ☐ No ☐ No Dr.	Days or None	Days or None		□ Yes □ No		Mos. Yrs.	☐ Yes ☐ No ☐ Und.17		1

		Table II - HOSPITALI	ZATION DURING PAST 12 MONTHS
	ations ("No" in Col. (g)) of m, a setting of a fracture, or		What is the name and address of the hospital you were in? J
 How many nights were you in the haspital, be- fore you had your apera- tion (delivery, etc.)?	After you left the hes- pital, how mony days was it before you returned to your usual activities full-time?	If "still anable" in (k), ask: How long hos it been since you left the hospitol?	(Eater name, city and State; if city not known, enter county)
(j)	(k)	(1)	(m)
No. of nights	No. of days Still unable	Deer 6 months If under 6 months: Days Months:	
No. of nights	No. of days Still mable	Over 6 months If under 6 months: DaysMonths:	
No. of nights	No. of days Still unable	Over 6 months If under 6 months: DaysMonths:	

X-RAY QUESTIONS				
 24. (a) During the past 3 months, did onyone in the family have any X-rays for the treatment of a condition? If "Yea," (b) What part of the bady was treated? 	Yes Part(s) of body:	No No	Yes Part(s) of body:	No.
(c) Was this included in the X-ray(s) you told me about balance?	Yes .	□ No	Yes	
25. (a) Dld anyone to the family have a fluorescope during the past 3 months? If ''Yee,''	Part(s) of body:	[] No	Yes Part(s) of body:	И
(b) What part of the body was this for? (c) Was this included in the X-ray(s) you told me about before?	Yes	[] No	T Yes	M D

-

			Table X - 1	TILL ONE LINE F	OR EACH PAR	T OF BODY EN	TRY FROM QUEST	ONS 22-25		
(Ask i	fter all	Ask for each person X-rsys have been record			X for eperson)	FOOTNOTES			,	
I IF '''Y	es.	thoseX-rays you tol : ware these?	d me obout ta (i)	ken at the same time	1			:	•	
No (Stop)	Yes	Enter information belo	w for X-rays	taken at same time:						
		Part(s) of body:	No.	Part(s) of body:	No.					
•		Part(s) of body:	No.	Part(s) of body:	No.			$c_{\rm c} \sim 1$		
				· ·	- ·					
		Part(s) of body:	No.	Part(s) of body:	No.	· .				
Grou	p No.	·	Group No.		Group No.		Group No.		Group No.	
			ľ							

	· · · · · · · · · · · · · · · · · · ·	Table A - (Accidents and Injuries)	· ··
Line No.	3. When did the accident happen?	2. At the time of the accident, what part of the	body was hurt? What kind of injury was it?
from Table I		Anything else?	
	Year:	Part(s) of body	Kind of injury(s)
Accident	(If 1960 or 1961 also enter the month)		·
happened last week or	Month:		· · · · · · · · · · · · · · · · · · ·
(Go to q. 3)			
	uck, bus or other motor vehicle involved in the a	ccident in any way? 🔲 Yes	No (Go to Section B)
	m ane motor vehicle involved?	Yes (more than	
(c) Was it (eithe	r one) moving at the time?	Yes	No (Go to Section B)
4. Ware you outside	the vehicle, getting in ar out of it, a passonger	or wore you the driver? 1. Outside (Co to Section A q.5)	2.
Sectio	n A - (Motor Vehicle Accidents)	Section B - (Non-	Motor Vehicle Accidents)
5 (-) 1	If "Outside" in q. 4, ask:	7. How did the accident happen?	
5. (a) How did the		A.1. Any injury involving an uncontrolle	-
1. Accide on bic	ent between motor vehicle and person riding ycle, in streetcar, on railroad train, on borse-	2. Any injury involving the discharge	
drawn	vehicle	 Any injury from an accident involving train, airplane, boat, bicycle, horse 	ng a non-motor vehicle in motion (streetcar, railroad -drawn vehicle)
	ent between motor vehicle and person who alking, running, or standing	B.4. Any injury caused by machinety (be	
3. 🗌 Other	(Specify hew the accident happened)	(Specity kind of mechinery)	
·			of knife, scissors, nail or other cutting or
	·	piercing implement	
(b) What kind(s)	of motor vehicle was involved?	6. 🔲 Any injury caused by foreign body in	a eye, windpipe, ar other arifices
1. Cer	2. 🗌 Taxi 3. 🛄 Bus	7. Any injury canned by animal or inse	
4. 🔲 Truck	5. Mototcycle 6. Other (Specify)	8. Any injury caused by poisonous sub	· · · · · · · · · · · · · · · · · · ·
·	······································	C.9. E Fell on stairs or steps or from a bei	ight
		10. All other falls	
If "Getting in or	out" "Passenger" or "Driver," in q. 4, ask:	 Bumped into object or person (cover punching, kicking, etc.) 	rs all collisions between persons including atriking,
6. (a) How did the	accident happen?		jects beld in own hand or hand of other person, also
	ant between two of more motor vehicles on	falling, flying, or thrown objects)	agb objects such as stones, splinters, broken
2. 🗂 Accide	y nt between motor vehicle and some other	15. If inding or stepping on sharp of root glass, rope,etc.	ago poperis suco se scores, opiniters, broken
	on rondway	14. Caught in, pinched or crushed between atationary object	een two moving objects or between a moving and a
{Speci	17 objeci)	15. Came in contact with hot object or	substance or open flame
I - · ·	which came to sudden stap on readway	16. One-time lifting of other one-time en	-
	vebicle man off roadway	17. Twisting, stambling, etc.	
>. Otber	(Specily how the accident happened)	D.18. 🔲 Other (Specify how eccident hoppen	ed)
	Acc. op roadway	· · · · · · · · · · · · · · · · · · ·	
	Acc. not on roadway		
	motor vehicle were you in (getting in) (getting		
	the occident happened?		
4. 🗖 Truck	2. Taxi 3. Bun 5. Motorcycle 6. Other (Specify)		
		ASK FOR ALL ACCIDENTS	-
1. 🔄 At hom If ''Some other p	lace," ask:]Some other place
(b) Whot kind of 3. 🛄 Street	-	hool (includes school premises)	
4. 🗖 Farm	7. 🗌 Pla	ace of recreation and sports, except at school	•
		het (Specify the place where eccident happened) _	······································
9. Were you at wor l. 🗌 Yes	k at your job or business when the accident happ		Under 17 at time of accident
·· [] 161	2. 🗋 No 3. 🗍 Wh	FOOTNOTES AND COMMENTS	Outer 1/ At time of metident
		LAND COMPENIS	•
1			
1.	-	,	
	-		
			ł
[¹			
L	· · · · · · · · · · · · · · · · · · ·		

Card A	Card C	Card E	Card G
			`
NATIONAL HEALTH SURVEY		1	
	NATIONAL HEALTH SURVEY	NATIONAL HEALTH SURVEY	NATIONAL HEALTH SURVEY
Check List of Chronic Conditions	For:	For:	
		•	
	Workers and other persons except Housewives and Children	Children from 6 through 16 years old	
1. Asthma 16. Any other chronic stomach	1. Not able to work at all.	1. Not able to go to school at all.	1. Confined to the house all the time,
2. Tuberculosis trouble	2. Able to work but limited in amount	2. Able to go to school but limited to certain	except in emergencies.
3. Chronic bronchitis 17. Kidney stones or chronic	of work or kind of work.	types of schools or in school attendance.	2. Able to go outside but need the help of another person in getting around outside.
4. Repeated attacks of sinus trouble kidney trouble 5. Bhouracia favor 18. Arthritis or rheumatism		3. Able to go to school but limited in other	another person in getting around outside.
). Kiedinalie level	 Able to work but limited in kind or amount of other activities. 	activities.	3. Able to go outside alone but have trouble
b. Hardening of the arteries		·	in getting around freely.
7. High blood pressure 20. Diabetes 8. Heart trouble 21. Thyroid trouble or goiter	4. Not limited in any of these ways.	4 Not limited in any of these ways.	4. Not limited in any of these ways.
9. Stroke 22. Any allergy		· · ·	
10. Trouble with varicose veins 23. Epilepsy			· ·
11. Hemorthoids or piles 24. Chronic nervous trouble			
12. Hay fever 25. Cancer		•	
13. Tumor, cyst or growth 26. Chronic skin trouble			
14. Chronic gallbladder or liver trouble 27. Hernia or rupture			
15. Stomach ulcer 28. Prostate trouble			. ,
Card B	Card D	Card F	Cord H
			Ň
NATIONAL HEALTH SURVEY	NATIONAL HEALTH SURVEY	NATIONAL HEALTH SURVEY	NATIONAL HEALTH SURVEY
Check List of Selected Impaiments	For: Hausewife	For: Children under 6 years old	Family income during past 12 months
	/	i or: Cintalen onder o years ord	runny meane daring past 12 months
1. Deafness or serious trouble with hearing	1. Not able to keep house at all.	1. Not able to take part at all in ordinary	Group 1. Under \$500 (Including loss)
2. Serious trouble with seeing, even when wearing glasses		play with other children.	
3. Cleft palate	2. Able to keep house but limited in amount		Group 2. \$500 - \$999
4. Any speech defect	or kind of housework.	 Able to play with other children but limited in amount or kind of play. 	Genue 3 #1 000 #1 000
	3. Able to keep house but limited in kind or	maried in amount of kind of play.	Group 3. \$1,000 - \$1,999
5. Missing fingers, hand, or arm toes, foot, or leg	amount of other activities.	4. Not limited in any of these ways.	Group 4. \$2,000 - \$2,999
6. Palsy	4. Not limited in any of these ways.	. /	Gmun 5 #3.000 #3.000
7. Paralysis of any kind	, st webe ways.		Group 5. \$3,000 - \$3,999
8. Repeated trouble with back or spine			Group 6. \$4,000 - \$4,999
9. Club foot			Group 7. \$5,000 - \$6,999
10. Permanent stiffness or any deformity of the foot, leg, fingers, arm or back	[• • • • • • • • • • • • • • • • • • • •
		1	Group 8. \$7,000 - \$9,999
11. Any condition present since birth			
11. Any condition present since birth			Group 9. \$10,000 and over
11. Any condition present since birth			Group 9. \$10,000 and over
11. Any condition present since birth			Group 9. \$10,000 and over

APPENDIX IV

PRETESTING THE X-RAY QUESTIONS

Introduction

During the 12-month period from July 1960-June 1961 five new questions and a new table were added to the Health Interview Survey questionnaire to obtain information about the volume of medical and dental X-ray visits made by the civilian, noninstitutional population of the United States. A pilot study was conducted in Hagerstown, Maryland, in October 1959 to test the design of the questions. A second pretest with revised probe questions was conducted in Washington, D. C., and vicinity in January 1960.

Preliminary study by the National Health Survey and the Bureau of the Census indicated the desirability of using a "record-check" type of pretest. A "recordcheck" pretest, as the name implies, is one in which the actual experience of members of the sample for the reference period has been obtained from records of the specific events. The responses obtained during the household interview are then compared with the data from records and degree of match noted. In the case of the Hagerstown and Washington pilot studies, the objectives were to test the effectiveness of the design of the probe questions, and especially, to determine the optimum period of memory recall of X-ray experience.

HAGERSTOWN, MARYLAND SAMPLE SURVEY, OCTOBER 1959

Planning and Conducting the Survey

Because of the nature of the X-ray questions proposed for addition to the regular NHS questionnaire during July 1960-June 1961, it was decided to pretest the questions among a sample of households in which at least one member had had X-ray experience during the previous 12 months. A sample of names and addresses was obtained from the records of certain X-ray facilities in Hagerstown. These facilities included dentists, physicians, the X-ray department of the hospital, the X-ray unit of a private clinic, and the chest X-ray center of the city health department. At the time the names and addresses were recorded, the date, place of visit, type of X-ray, and part of body x-rayed were also recorded.

Interviewers were not informed that X-ray records were available, nor were they given the names of persons at the addresses where interviews were to be conducted. This was done partly to safeguard the confidentiality of the information, but primarily to avoid biasing the interviewers through a foreknowledge of X-ray experience of persons in the household. In order to simulate the length and complexity of the customary interviewing situation, the NHS questionnaire in use between July 1959 and June 1960 was used in the pretest. The X-ray questions and table (shown in table I) replaced the health insurance probe questions, hospital insurance coverage questions in table II, hospitalization, and table A, accidents. Questionnaires and interviewer instructions were prepared, and selection and training of six regularly employed NHS interviewers was undertaken.

The survey was conducted during the week of October 26, 1959. Observers from the National Health Survey and the Bureau of the Census accompanied each of the interviewers to find out the reactions of both interviewer and respondent to the new questions and answers to these questions.

A total of 92 completed household interviews were obtained from among the X-ray record cases: 26 dental X-ray cases and 66 medical X-ray cases. Table A summarizes the findings of the study with respect to degree of "match" with the record source data.

The definition of match used in this pretest was more rigorous than the categories of classification used later for the processing of the regular NHS questionnaire for the period July 1960-June 1961. The part of the body x-rayed was considered a match only if the same specific part mentioned in the interview was noted in the record. For example, an interview report of an X-ray of the back was not considered a match if the record source specified a chest X-ray. During the regular survey, six body areas were used to classify part of the body and a glossary of terms was prepared of acceptable terms for each of the six areas. Therefore, it is reasonable to expect that the percentage of "matched" cases, shown above, would have been higher using less rigid rules.

WASHINGTON, D.C. SAMPLE SURVEY, JANUARY 1960

Planning and Conducting the Survey

On the basis of the results of the Hagerstown study, the format of the X-ray probe questions was redesigned, and planning began for a further pretest in a sample population in Washington, D. C., and immediate vicinity, in January 1960. Changes in the probe questions were in the direction of improving match percentages for medical X-ray visits which were quite low in the Hagerstown study. For example, treatment X-rays were relatively poorly reported; to improve this percentage a probe was specifically directed toward treat-

	Med	dical	Dental		
Item	Number of persons	Percent of visits matched ¹	Number of persons	Percent of visits matched ¹	
12-month recall 6-month recall 3-month recall	66 33 15	67 70 73	26 	87 	
Self-respondent	42 24	76 50	14 12	100	
X-ray film procedures Fluoroscopy Treatment X-rays	50 10 6	56 40 33	···· ···	•••	

Table A. Summary of results of Hagerstown pretest

1"Match" was defined as a report in the interview of the same part of the body and type of procedure as that shown in the record. The date reported by the respondent must have been within the limits of the recall period to be accepted as a "Match."

ment in a question on a single part of the body (see tables I and II). Three columns were added to the hospitalization table to inquire about X-rays during each period of hospitalization recorded.

The memory recall period was reduced from 12 to 3 months. In addition, a number of cases were included in the sample who had X-rays within two weeks of the interview week, in order to test whether a two-week-recall period would produce better results than a threemonth period.

Cases were selected to include a group of hospital inpatients and outpatients, radiologist's patients, and mobile X-ray unit cases. Interviewing was conducted from January 18-23, and 169 completed interviews were obtained (see below).

Results of the Survey

The percentages of matched cases were higher in this study, both for the two-week-recall and threemonth-recall periods. The criteria for á match were essentially the same as for the Hagerstown pretest; that is, a report of an X-ray of the same part of the body but with the added feature of a report for the same month of visit as that shown on the record. Table B shows results of this study.

For some types of X-ray visits it appears that a two-week-reference period would be better than a longer period, as judged from the match rates. However, match rates alone fail to reveal two other factors that must be considered in conducting a population survey for the purpose of producing estimates of the aggregate number of visits. First, some persons who have had X-rays in the past two weeks may be in a hospital at the time an interviewer calls at thehousehold. This results in a higher than normal noninterview rate, with consequent loss of data. Second, the use of a two-week recall period appreciably increases the relative sampling error as compared with a three-month-recall period when producing annual estimates of the aggregate number of visits. The problems of noninterview, together with the decreased volume of data ruled against the use of a two-week reference period for this topic.

It will be noted that although the over-all level of reporting of medical X-ray visits for three-month recall was at about the same level in Hagerstown and in Washington (73 percent), the Washington study was heavily weighted with proxy respondents. For self responses and also for proxy responses the Washington test produced better match rates. If one applies the Washington pretest match rates to the self-proxy respondent ratio in the National Health Interview Survey, this yields about a 77 percent expected rate of match on the basis of the matching criteria used in the pretest.

There is evidence that a match rate of 73 percent on the pretest (or 77 percent adjusted for respondent differences) is not an indication of the extent of reporting of the gross volume of X-ray visits, but rather indicates the precision with which respondents can reproduce the circumstances of visits to a degree that they can be unmistakably identified with visits in a record source. There were, for the 169 persons in the pretest, 406 visits in the medical record. For these same persons 438 visits were reported by interview but only 73 percent "matched" the record. In terms of gross volume of visits the record and the interview are not highly discrepant. It is quite possible that some persons in the pretest had X-ray visits at locations outside of the sources of the records, and reported such visits on interview. It is also possible that some respondents may have reported on interview X-ray visits which were prior to the three-month-reference period. Whatever the reason, the number of visits reported equaled or exceeded the number in the record for all classes of patients except the "treatment" group. For this group there were 169 X-ray visits in the records, 139 reported on interview, and 81 (48 percent) matched by the criteria employed.

	Number of	Percent of visits matched			
Type of case	persons in 3-month period	2-week recall	3-month recall		
Total	169	69	73		
Hospital	115	70	70		
Outpatient	23	75	69		
Treatment	10	100	48		
Inpatient	82	67	72		
Radiologist	40	67	80		
Mobile X-ray unit	14	60	79		
Self respondent	79	84	80		
Hospital	49	90	78		
Outpatient	14	100	8		
Treatment	6	100	. 60		
Inpatient	29	× 86	7		
Radiologist	22	50	84		
Mobile X-ray unit	8	100	8		
Proxy respondent	90	66	7(
Hospital	66	65	70		
Outpatient	.9	33	5		
Treatment	4	100	3		
Inpatient	53	65	7		
Radiologist	18	100	7		
Mobile X-ray unit	6	. 33	67		

Although all of the factors involved in underreporting, overreporting, and mismatching could not be identified from the pretests, it was concluded that the precision of reporting was not less than shown by the percentages in table B and that the gross volume of reporting was reasonably complete for all classes of patients except those receiving treatment, for whom the volume of visits might be underreported by about 20 percent. On the basis of these results, the X-ray probe questions and table X, shown in this Appendix \underline{IV} , were included in the questionnaire used nationally during July 1960-June 1961. Minor changes were made in the form of the questions and table. The three-month-recall period was used, but the additional columns in the hospitalization table were omitted. Table I. X-ray Questions: Hagerstown Pretest

		Col. (1)	Col. (2)
23(a)	During the past 12 months did anyone in the family, you, your, etc., have his teeth X-rayed?	Yes No	Yes No
	If yes:		
(b)	How many times?	No. of times	No. of times
24(a)	We are also interested in other X-ray and fluoroscope examinations or treatment.	Yes 🗋 No	🗋 Yes 🗌 No
	During the past 12 months did anyone in the family have an X-ray or fluoroscope of the chest or back?		
	If yes:		
(Ъ)	What was X-rayed?		
25(a)	any part of the arms, legs, hands or feet? If yes:	🗋 Yes 🔲 No	∏Y⊛s ∏ No
(b)	What was X-rayed?		
26(a)	During that time did anyone in the family have an X-ray or fluoroscope of the head, hip, an internal organ or any (other) part of the body? <u>If yes</u> :	Yes No	🏳 Yes 🚺 No
(b)	What was X-rayed? Anything else?		
27(a)	People sometimes forget X-rays taken at certain places. (Not counting those you've already told me about) did anyone in the family have an X-ray at a school, a place of employment, or at a mobile X-ray unit during the past 12 months?	🔲 Yes 🛄 No	Yes 🗌 No
(b)	<u>If yes:</u> What was X-rayed?		
(0)	man was A-tajet.	· · ·	

		Table	X: Fill one l	ine for each par	t of body e	ntry from Questio	ns 24-27	
Line No.	Col. No. of Person	Part of body	About your X-rays of the, How many times were you X-rayed for this during the past 12 months?	How many of these X-rays were at the X-ray department of a hospital?	In what month(s) were the X-rays taken?	X-rays are sometimes for check-up or examination and sometimes for cure or treatment of a condition. What were these X-rays for?	If more than "1" in col. (c) and "both" in col. (f) ask: How many of these were for treatment?	If "both" or "treatment" in col. (f) ask: For what con- dition were you being treated?
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1		<u>(</u>			Month(s)	Check-up/ examination Treatment Both		

	-			
	Col. (1)		Col. (2)	
23(a) We are interested in all kinds of X-rays- Did you have your teeth X-rayed during the past 3 months(that is, from through last Sunday)? If "Yes"	[]Yes	☐ No	TYes .	N
(b) How many times?	No. of times		No. of times	
24. During the past 3 months did you have a CHEST X-ray?	Yes-Chest	<u> </u>	Yes-Chest	<u> </u>
25(o) Did you have any (other) kind of X-ray at all during the past 3 months? If "Yes" (b) What part of the body was X-royed?	Tes Part(s) of body:	No No	Yes Part(s) of body:	
(c) Any other part of the body?				
 26(o) During the past 3 months, did anyone in the family have any X-rays for the treatment of a condition? If "Yes" (b) What part of the body was treated? 	Yes Part(s) of body:	<u>N</u> ₀	Yes Part(s) of body:	□ No
 (c) what part of the body was rearranged (c) Was this included in the X-ray(s) you told me about before? 	Yes	No	Yes	
 27(a) Did anyone in the family have a fluoroscope during the past 3 months? If "Yes" (b) What part of the body was this for? 	Yes Part(s) of body:	No No	Tes Part(s) of body:	
(e) Was this included in the X-ray(s) you told me about before?	[]Yes	<u>No</u>	Yes	

	Table X - FILL ONE LINE FOR EACH PART OF BODY ENTRY FROM QUESTIONS 24-27										
	Col. No. of per- son	Part of body	How many times did you have your X-rayed during the past 3 months?	Did you have the X-ray(s) at a hospital or at o doctor's office?	In what month(s) was the X-ray(s) taken?	What was this X-ray(s) fora check-up or an examination or for treatment?	If more than "1" in col. (c) and "both" in col(f) ask: How many of these X-ray(s) were for treatment?	[f "both" or "treatment" in col. (f) ask: For what condition were you being treated?			
Lia	(a)	(Ь)	(c)	(d)	. (e)	(f) ·	(g)	(h)			
1				Hospital Dr. office	Month(s)	Check-up/examination Treatment Both					
2				Hospital	Month(s)	Check-up/examination Treatment Both					
3				Hospital Dr. office	Montb(s)	Check-up/examination Treatment Both					
4				Hospital	Month(s)	Check-up/examination Treatment Both					
5				Hospital Dr. office	Month(s)	Check-up/examination Treatment Both					
6				Hospital	Month(s)	Check-up/examination Treatment Both					
7				Hospital	Month(s)	Check-up/examination Treatment Both					
8			,	Hospital Dr. office	Month(s)	Check-up/examination Treatment Both					

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						Table	II - HOSPI	TALIZAT	ION DURING PAST 12 MONTHS		
-			When did 1	How many	То Ілт	rviewer			What did they say at the hospital the condition was.;-		
Line aumber	Col. No. of per- son	Ques- tion No.	the hos- pital? I (Month, I year)	days were you in the hospitel, not count- ing the day you left?	How many of these - days were in the past 12 months?	Will you need to mak cols. (f) and (g) ?	How many of these daya were jast week or the week before?	Was this person still in the bos- pital on last Sunday night?	did they give it a medical name? (If "they" dida't say, ssk): What did the last doctor you tolked to say it was? (Show same detail as in cols. (d-1)-(d-5) of T.I) (If condition from accident or injury, slso fill Table A)	on you during this stay at the hospital? If "Yes," (a) What was the name of the operation? (b) Any other operations?	
	(a)	(b)	(c)) (a)	(e)	(1)	(f)	(g)	(b)	(i)	
1	-		Mo:	Days	All or Days	⊡ Yes	Days	□ Yes		ŢYe∎ No ↓	
2			Mo:	Days	All or Days	Yes	Days	Yes	<u> </u>	Yes No	
				Days	A11	⊡ No	None	<u>□</u> №		Yes No	
3			Mo: Yr:	Days	or Days	Yes	Days	Yes	• • • • • • • • • • • • • • • • • • •	Ŧ	

	Table II - HOS	PITALIZATION DURING PAST 12 MC	INTHS					
What is the name and address of the hospital you were in?	For hospital a Did you get	For hospital admissions in January, December or November, ask: Did you get If "Yes" in col. (k) ask:						
(Enter name, city and State; if city not known, enter County)	an X-ray or a fluoroscope while you were in the hospital?	What part of the body was X-rayed?	Was this included in the X-ray(s) you told me about before?	· · ·				
()	(k)	(1)	(m)	•				
			Yes	·				
	☐ Yes →		Yes No (Table X)	• •				
	☐ Yes →		Yes No (Table X)	· · · ·				

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