

This pafer presents the findings of a surve' conducted in claiborne county, in southwest uississippi. The survey focused on thiree different areas: (1) denographic data and food practices including food frequency for 1,000 houscholasen(2) dietary. zintake of individuals for 250 bouseholds, , and, (3) nutritional evaluation by health history, clifnical exanination biochenical determing 0 , and anthropometric neasurements for 400 persons in this counti.. This paper deals with the findinge of the health history, based on intervieus with a total of 304 persons aged 5 and over. Disease patterns showed sex and age differences. Most of the diseases uere nore prevalent in females than in iales, especially beyond the age of 34 . These diseases included anemiaf hypertensiong, heart disease, obesity, and arthritis. Hpuever, sone disabilities, vere found iore frequently in males. These included ffacturesj major operations, york disability, peptic ulcers; liver and prostrate diseases: Asthna, had the highest frequency of occurrence anong chilidren. A smali percentage of the chilidren had. been treated or itospitilized for otheef aiseases. (anthor/an)
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HEALTH HISTORICAL FINDING AMONG LOW INCOME BLACK FAMILIES I.

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Mississippi provided the crisis circumstance that has made hunger and malnutrition a current national concern (1-5). To clarify this situation among low income, black, families in Mississippi, a nutrition. survey was conducted in Claiborne County located in Southwest Mississippi. The study was conducted in three different areas: (1) demographic data and food practices including food frequency for 1,000 households; (2) dietary intake of individuals for 250 households; and (3) nutritional evaluation by health history, clinical examination, biochemical determi-. nation, and anthropometric measurements for 400 persons aged $0=80$ in this county. This paper deals with the findings of -health history.

METHODS
The total population of Claiborne County, according to 1970 Census, was 10,086. Seventy-five percent of this population was Black. Approximately 200 households were randomly selected in the black residential area for the study. A total of 400 persons aged 0-80 from 200 households there brought to the campus for an interview and examination. This paper deals only with the data of the 304 persons aged over 5.

The study was conducted May through August in 1976. Interviewers included junior and senior students majoring in Food/Nutrition and General Home Economics at Alcorn State University. All interviewers were given instruction by the school physician pertaining to the conditions and status of selected diseases and infections 4 Interviews mere conducted on the campus when interviewees were brought there for the clinical examination.. ' For young children, the informant was the person responsible for the child's caring, usually the mother, father, or grandparent. For subjects aged 6 through 12 usually both the parents and the child were interviewed.

The medical history form used was similar to the one used in the Ten-State Nutrition Survey (6) for children and adults. However, it was modified to adjust for local conditions. The questionnaire for children
over age 5 and adults considered in this report included disease patterns
 were performed or hospitallization was necessary.

A total of 304 persons aged 5 and over were interviewnd regarding their health history and given a physical examination. This" sample made it possible to present five age groups. These groups. included ages 6-11, 12-17, 18-34, 35-60, and over 60 years. All age groups except the children aged '6-11, were subdivided according to sex. The groups' of males aged 35=60 and over 60 had the smallest sample size of 8 , and that of males aged $.12 \div-17 \mathrm{had}$ the largest. sample size of 65 . The sample size of each group is. presented in Table I. Most of the data was indicated as a percent of the total sample in each age groun.

RESULTS: AND DISCUSSION
The percentages of historical-findings for anemia, abnormal bleeding,' asthma, hay fever, other allergy, tuberculosis, chronic respiratory disease; goiter, and rheumatic fever are presented in Tablé 1. by sex and age. Anemia is generally recognized as the greatest mutritional problem among the low income families over the world. This is trive for this-populatipn Anemia was prevalent in ail age categories. Eowever, prevalence of anemia was significantly correlated to age and sex. Anemia was prevalent more in females than in males, and more in the old than in the young. For females, 16.94 percent of the persons aged 18-34 had been, treated, or hospitalized for anemia; 24.31 percent for the age gropp $35-60$; and 24.07 percent for. the age group over 60. For males, a history of anemia was reported only in the two age groups 12-17 and over 60 years with 3.07 and 12.5 percent, respectively. "This correlation to sex is supported by the findings in dietary intake (7) and clinical and biochemical determination of this population $(\$)$. The highest rate of abnormal bleeding was reported for females aged over. 60. Post-menopausal bleeding may account for this." No history of abnornal bleeding was reported in males except in the age group 18-34 years. In children less than 2 percent reported bieeding.

Fot the study asthma included both bronchial and caxdiac conditions. Asthma was highly prevalent in the children aged under 12 years/and in females aged over 34 years: The prevalence of hay fever shomed a significant age difference. A small percent of hay fever was reported for the children aged 6-11. The' adolescents aged 12-17 of both sexes, and males aged 18-34 had ro history of hay fever. However, in older age groups 12-25 percent of the persons, reported to have a history of hay fever. Aithought maleṣaged 18-34 had no history of hay fever, they had the highest rate of other allergic conditions. with 16.6 percent. It was certain that hay* fever and/or other allergic conditions were less prevàlent in children aged ${ }^{6} 6-17$ years than in adults.

Table 1: Percentage of historical findings for selected disease by age and sex.


Tuberculosis in the United States has diminished greatly since the beginning of the century (9). Tremendous adyances in prevention, detection, and treatment through drugs, surgery, and other means have tended to give the public the impression that tuberculosis is no longer a cqmon health threat. Tortunateely this is the case in this community. No one reported a history of tuberculosis.

Goiter was found to be a problem with only females beyond 17 years of age. This finding strongly supports the importance of iodine for females, especially during their reproductive period. None of the' children and none of the males reported a history of goiter: The highest. rate of goiter was reported among. females aged 35-60, with over 27 percent. Rheumatic fever was not a common disease. "It was reported in three groups: $12-17$ years of the male; 18-34 years "of" the female; and 35-60 years' of the female; around 3 percent in three groups, respectively.

Percentage of historical findings for diabetes, inypertension, heart dişeasie, obesity, arthritis or rheumatism, fractures, malignancy, major operations and work disability are presented in. Table 2. None of the children or males had been treated or ${ }^{3}$ hospitalized for diabetes. Horever, diabetes was prevalent in the older female population: 53.84 percent reported for diabetic treatment or hospitalization in the ages over 60; 13.51. percent in the ages $35-60$; and 5.07 percent in the ages 18-34. Hyperglycemia based on fasting serum glucose level indicated, a similar trend of age and sex. The data also indicated that the effects of age on ihcireasing glucose level appeared to be greater in females than in males.

- Hypertension was the most serious health problem in persons over age ${ }_{3}$. 34, especially females. The percentage of hypertension was 10.16 percent in the ages $18-34 ; 56.74$ percent in the ages $35-60$; and $92 ; 3$ percent in the ages over 60. For males no one had been treated in the age group 18-34. year's. However, 37.50 percent for the ages $35-60$ and 12.50 percent fior . the ages over 60 had been treated or hospitalized for hypertension. The blood pressure data indicated that both systolic and diastolic pressifes significantly increased with age, and it was highest in, the age group of 35-60, for females and in the age of over, 60 for males. The mean blood pressure in these groups was, much higher than the normal level,' showing hypertension of 149.0/92.2 and 149.0/94.0 for females and males, respectively. In the Health and Nutrition Examination Survey, it was reported that pros portionately mare Blackis than Whites and more people in South than North had hypertension. (10).: The high prevalence of hypertension in this survey may be partially explained by the findings of the HANES.

The prevalence of obesity shoned age and sex differences; more obesity in the old than the young and more obesity in females than males. The highest rate of treatment or hospitalization for obesity was found to be in females aged over 60 , showing 15.38 percent. However, the rate of obesity determined by triceps skinfold thickness was 61.54 percent. According to triceps skinfold criteria, obesity was one of the major health problems in this population.

Table 2 ( Percentage of historical findings for selected disease by age and sex.

*The Children include the age group of $6-7,1$ years.

Coronary heart disease (CHD) is a major cause of death in the United States and it is affected by age and sex (11, 12). The present study storwed the age and sex difference in the history of CHD: CWD was found more. in females than in males and more in the old than in the young. The highest treatment or hospitalization for CHD was in females aged over 60 with 30.76 percent. Several investigators, showed that myocardial infarctin was more likely to ke fatal in males than in females among Whites, but sex difference. did not exist among' Blacks even before menopause. The higher prevalence of CHD in females than in males in the present study may be partially explained by racial difference and by the higher prevalence of other clinical conditions. such as diabetes, obesity, hypertension as well as hypercholesterolemia in females than in males.

Arthritis or rheumatism was one of the major health problems in both males and females beyond age 34. The highest rate of arthritiss or rheumatism was reported in females aged over'60. It was 84.60 percent. There was not much problem with'arthritis or xheumatism in persons under 35 years of age. Fractures rere likely to be more in males than in females and to be more in the old than in the young.

None of the children aged 12-17 reported having had a major operation. However, 5.36 percent of the childrèn agedi6-11; and 8.69 percent of the ferale adolescents aged 12-17 had had at least one major operation. From 18 through 60 years of age males were substantiaily more likely than females to have undergone surgical procedures. Beyond age 60, this sex difference. disappeared. However, the proportion of the old who had had a major operation was relatively high in both sexes. Mork disabililty was reported only in orie age group of $35-60$ years, with 5.4 percent in females and 25.0 percent in males. None of other groups reported for pork-disability.

Percentages of historical findings for epilepsy, mental iliness, herorrhoids, hernia, peptic ulcer, 'gall bladder disease, liver disease, prostate disease, kidney stone, kidhey or bladder infection are presented in Table 3. A history of epilepsy was reported only in females ages 18-34 and 35-60, with 3.38 percent and 5.40 percent, respectively. None of the children or males had a history of epilepsy. A history of mental illness was-zeported only in one age group 35-60 years of. females.
$\because$ Bemorrhoids are probably the most cormon condition faffecting the gastrointestinal tract. There was no consistent trend with respect to age and sex for having a history of hemorrhoids. In general., a higher prevalence of hemorrhoids existed among aduilts than among children. However, aging had no, consistent effectsyrequiring treatment, or hospitalization for hemorrhoids in this study. The hilehest rate of hemorrhoids was found in mailes aged 18-60. A history of hernia: was reported only in males aged 35*60. Peptic ulcer here included both gastric. and duodenal uicer. No history of peptic ulcer was reported up to the age of 34 . However; beyond age 34, peptic ulcer appeared in both sexes. Peptic ulcer was more prevalent in males in than in females. The"patterin of peptic ulcer in the present study. well agree with the general patterns, in that it is more prevalent in males than in females, and more prevalent in the old than in the young. Gall bladder disease was reported in tho age groups of females: 5,07 percent for the age group $18-34$ and 7.69 percent in females and 12.50 perçent in males:

Table 3: Percentage of historical findings for selectéd disease by age and sex.
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The children include the age group of:6-11 years.

The prostate gland is an accessory of the mele sex'glands and of structures intimately associated with the urinary tract. Prostatitis, an infection of the prostate gland is quite cormon. Prostatitis in younger men is more likely. to be specific. Prostate diseases which needed treatment or hospitalization were highest in young, adults aged 18-34 with 17.66 percent. In the age group of $35-60 ; 5.40$ percent reported this disease. A history of kidney stone was reported in 5.07 percent of the young female adults. Kidney and bladder infections were significantly higher among the old. It was the highest in the age.group over 60 in both males and femailes.

Most of the diseases were prevalent in females than in males, especially beyond age. 34. Those diseases are anemia, abnormal bleeding, chronic respiratqry disease, goiter, diabetes, hypertension, heart dicease, obésity, and arthrtis or theumatism. The high prevalence of disease in females aged over 34 correlated well with the clinical conditions found by biochemical and anthropometric measurements. A small percentage or none of the children had been treated or hospitalized for any disease except- asthma. Asthma was most prevalent in chilidren. Fractures, major operations; noik disability, peptic ulcer, liver, and prostate diseases were found more in males than in females.

The major health problens are anemia, abinormal bleeding; allergy, diabetes, hypertension, obesity, and arthritis. Among these, hypertension was the most serious problemxbeyond age 34 years in both sexes. A relatively high percent of the population has had a major gperation: All diseases were highly prevalent in the old and werd found more in females than in mlies.

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The tótal population of Claiborne County, according to 1970 census, 'was 10,086. Seventy-five percent of this population was Black. Approximately 200 households were randomily selected in the black residential area. A total of 304 persons aged over 5 were interviened with respect to their health. history and given a medical examination." Disease patterns showed a sex and.age difference. Nost of the diseases mere more prevalent in females than ${ }^{2}$ in mailes, especially beyond the age 34 years. Such diseasés are anemia, abnormal bleeding, hypertension, heart disease, obesity, and arthritis. However, some diseases were more likely in males. Those inciuded fractures, major operation, work disability, peptic ulcer, liver and prostate diseases. Asthma was the disease highest among children. A smail pereentage or none of the children had been treated or hospitalized for other diseases.

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