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Novel Recruitment Techniques for a Study of Culture-Specific Diet, Metabolic Variability and Breast Cancer Risk in African-American Women

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**Introduction and Background.** Among African-American women younger than age 50, breast cancer incidence is almost twice that of Caucasian women. African-American women are more often diagnosed with aggressive tumors and have higher mortality rates than Caucasians. Differences in tumor biology and mortality do not appear to be due to factors related to socioeconomic status. Little is known regarding explanations for these racial disparities, perhaps because of the difficulty in enrolling African-Americans into research studies. The purpose of this pilot study was to develop a novel method of recruitment, focused primarily on minority women, and investigate previously unexplored risk factors in breast cancer epidemiology. Through rapid case ascertainment by tumor registries in Arkansas, we intended to enroll approximately 260 cases over two years, frequency-matched to controls randomly selected from Health Care Finance Administration (HCFA) and Arkansas Driver Services (ADS) lists. Cases and controls are matched to racially similar breast cancer survivor-recruiters. Potential participants are sent introductory postcards with the recruiters’ photographs on them. Several days later, the recruiters call the potential participants to describe the study and seek their participation. Culturally appropriate interviewers administer questionnaires, draw blood and collect urine specimens from the participants. Once processed, data from these sources will be used to explore study hypotheses related to gene/environment interactions. We intend to evaluate the role that diet particular to African-Americans in the rural South may play in breast cancer etiology, and to assess the possible modification of risk by genetic differences in steroid hormone and carcinogen metabolism. A specimen bank was established to enable exploration of future hypotheses.

**Breast Cancer Epidemiology.** African-American women are more frequently diagnosed with advanced, aggressive tumors (1) and those under age 50 are at almost twice the breast cancer risk of Caucasian women (2). Breast cancer mortality rates are higher in Arkansas African-American women than in the US overall. A study of ~7000 Caucasian, African-American and Hispanic women (3) found that within each stage, African-American women had more aggressive tumors, characterized by a higher proportion of ER-negative/PgR-negative, a higher proportion with high mitotic index, and significantly worse outcome than Caucasian or Hispanic women. There is compelling recent evidence demonstrating that genes such as CYP3A4, involved in steroid metabolism, have polymorphisms that are associated with early onset of puberty in
African Americans and may in turn contribute to more aggressive breast tumors at an earlier age among African Americans. A large proportion of breast cancer risk factors are hormonal (4), suggesting that prolonged exposure to circulating estrogens influences breast cancer risk. This may be through mitotic stimulation of mammary epithelial cells, or perhaps through mutagenesis by hormone metabolites. Endogenous hormones seem to vary among ethnic groups, as evidenced by racial differences in markers of endogenous hormones such as insulin levels, glucose tolerance, insulin resistance (5-14), and bone mass (15-17). Higher serum estrone concentrations and lower androstenedione have been noted in African-American women compared to Caucasians (18), even after controlling for obesity. Consumption of dietary fat has been suggested as one explanation for higher levels of estrogens in African-American women (19). In a diet intervention study (19), reduction of fat and increase in fiber reduced levels of estradiol and estrone in African-American women, but serum hormone levels remained significantly higher than in Caucasian women on the same controlled diet. This striking difference of higher serum levels of estrone (by 37%), estradiol (by 55%), and free estradiol (by 30%) for African-Americans could be explained by differences in factors such as BMI and waist-to-hip ratio or perhaps to genetic differences in steroidogenesis and hormone metabolism. The goals of this pilot study are to explore exposures common in the south and their association with breast cancer risk. And to characterize polymorphisms of hormone metabolizing genes as markers of cancer odds.

Recruitment of African-Americans to population studies. Recruitment of African-Americans into research studies is historically difficult (20). This is true also of African Americans in the rural south. Our group has developed methods and has the infrastructure in place to recruit African Americans to epidemiological studies. Recruiters are matched to potential participants by ethnicity and area of residence. Through focus groups, we have developed training procedures that have been standardized in a manual. Methodology to successfully achieve African-American participation in research studies is of high priority, and we have developed strategies to increase participation with the help of breast cancer survivors who serve as lay advocates, health educators, and recruiters for our epidemiological studies. These methods are currently in use for the recruitment of African-American prostate cancer patients and controls and were developed in the pilot breast cancer case-control study.
funded by the DOD.

The Technical Objectives and Progress.

The proposed work was a pilot case-control study of breast cancer in African-American women. We realized, however, that without a comparable Caucasian group from the same locales as the African-American women, interpretation of the data would be difficult. It would be impossible to determine if specific risk factors are more prevalent in African-American women and are, thus, related to the increased early age at onset and more aggressive disease, or if they are merely regional habits that are shared by women of both groups. Therefore, additional funding was sought from the Public Health Service Office of Women’s Health (DHHS PHS OWH)/National Center for Toxicological Research to support an identical study in Caucasian women, so that results could be compared. Although that study is conducted under a separate protocol, results will be discussed herein.

Research accomplishments associated with each Task outlined in the Statement of Work will be addressed within the context of each of the accomplishments.

Technical Objective 1 Develop and pilot a novel approach for enrolling minority women into research studies.

Task 1: Months 1-2: Organizational start up tasks--finalize questionnaire, continue training sessions and role-playing with Witness Project™ recruiters and interviewers.

These tasks were accomplished in year 1. The questionnaire was finalized, interviewers are trained and experienced, and the recruiters are successful. Meetings are held regularly with recruiters to maintain enthusiasm and commitment, and to troubleshoot areas of difficulty. Presentations of recruitment strategies were made at two meetings (as well as the DOD meeting) in 2000: Keystone Conference in Taos entitled “Molecular Epidemiology: A New Tool in Cancer Prevention”, and at the Annual Meeting of the American Association for Cancer Research.
Task 2: Months 3-24. Identify incident breast cancer cases by rapid ascertainment; identify controls from Department of Motor Vehicles and State Identity lists; recruitment of 230 cases and 230 controls by staff from Witness Project.™ Periodically assess effectiveness of individual recruiters by evaluation of response rates among women contacted by each individual.

Recruitment of both cases and controls is ongoing. As reported last year, the study has not moved as quickly as anticipated, primarily because of the inability to identify sufficient numbers of African-American women with breast cancer who are eligible for the study. As reported in the previous annual reports, we expanded our case-ascertainment efforts to several other sites to increase numbers of African-American women who were eligible for our study. Although we had obtained IRB permission before making any of these changes to the protocol, we overlooked getting prior permission from the Department of Defense. We stopped case ascertainment and recruitment at the request of the USAMRMC until the changes were approved by the DOD Human Subjects Protection Committee.

Another significant change is that the PI of the study, Dr. Christine Ambrosone, accepted a position at the Cancer Epidemiology Program at the Derald H. Ruttenberg Cancer Center, Mount Sinai School of Medicine, New York, New York, where she began in November, 2000. The funded study remains at NCTR and UAMS, and Dr. Fred F. Kadlubar, Chair, Division of Molecular Epidemiology, NCTR, became the PI of the study. We submitted all of these changes to the USAMRMC HSRRB and UAMS IRB, which also stopped case ascertainment and recruitment until all the changes were approved by all the IRBs. These problems have delayed achievement of some study goals.

Table 1 shows numbers of women enrolled into the study to date, and response rates for both African-American and Caucasian women. To date, interviews have been completed for 680 women, aged 29-75, 390 with breast cancer and 290 community controls. The participation rate (the proportion of women who complete the study) for cases is 73% for Caucasian women, and 64% for African-American women. These rates are much improved over those using the standard methodology employed in an earlier study in this difficult-to-reach community, in which, for Caucasians and African-Americans (men and women) combined, participation rates were 37% and 30% for
cases and controls, respectively.

Table 1. Participation in Case-Control Study

<table>
<thead>
<tr>
<th></th>
<th>African-American Women</th>
<th>Caucasian Women</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Total contacted</td>
<td>Number Enrolled</td>
</tr>
<tr>
<td>Cases</td>
<td>136</td>
<td>87</td>
</tr>
<tr>
<td>Controls</td>
<td>284</td>
<td>126</td>
</tr>
<tr>
<td>Cases</td>
<td>414</td>
<td>303</td>
</tr>
<tr>
<td>Controls</td>
<td>431</td>
<td>164</td>
</tr>
</tbody>
</table>


As indicated in Table 1, participation rates for African-American cases and controls are 64% and 44% respectively. In the earlier study of colon cancer at UAMS in this difficult-to-reach community, where potential participants were contacted by an interviewer in a standard method, participation rates were approximately 37% and 30% for cases and controls, for Caucasians and African-Americans (men and women) combined. Response rates for cancer cases is much improved with our new methods (please see figures below for flow charts of recruitment for breast cancer cases and controls). However, recruitment rates of African-American cases continues to be lower than that for Caucasian cases. Use of cancer survivors to recruit controls has only modestly increased the recruitment rates (30% vs 38%).
Tumor Registry: (Cancer Patients) Potential Cases (BR-PS)

All cases are entered into Tracking Database and assigned status 19 (Abstract Pending)

Abstract patient chart to determine Eligibility?

YES

Potential case is changed to Status 19 (MD Pending)
They have 2 weeks to respond

Respond?

No

Potential Case is changed to Status 17 (Out to Recruitment).
Letter sent to potential case, Stating MD approval for study participation.

END

3 day later recruiter post card mailed.

THEN 3 days after post card mailed, CONTACT SHEET are mailed to Recruiter.

"The recruiter has 14 days to contact priority cases (Approaching 6 mo from Dx) and 21 days for non-priority."

Potential Case

Case changed to Status 16 (Interviewer Potential case agrees to Scheduling)

Interview completed with specimens?

No

Potential case agrees to study participation?

Case changed to status 12 (Refused)

YES

Status 2 (Incomplete)
Collect data and/or specimens to complete.
Status changes to 1

NO

Status 1 (Complete)
FLOW CHART FOR POTENTIAL CONTROLS

Match cases to controls in Axiom (Each control is marked for each case) Marked names are considered “Used”

Letter, brochure and postcard are sent to potential controls (signed by Luke) 2 weeks allowed for return of postcard.

Did Postcard Return?

Yes

Status = (Refused by postcard)

NO

Status = (Passive agreement) “Axiom list marked” Passive Agreements are entered into the “Tracking DB” as Status 6 (Awaiting recruiter assignment)

A portion of the Status 6’s are assigned to a recruiter by workload and gender. Status 6 changed in Tracking DB to Status 17 (Out to recruiter.)

Recruiter Postcard mailed to potential control

3 days later (RCS) Recruiter Contact mailed Recruiter has 21 days to contact potential control

Did Potential control agree to Participate?

Yes

Agree: Change to Status 16 (Interviewer Scheduling) Interviewer attempts to contact / schedule appt with participant.

No

Refuse: Change to Status 12 (Document reason)

Did participant agree?

Yes

Change to Status 18 (Interview Pending)

No

Refuse: Status 12 (EVD) Note as Late Refusal (Document reason)
Technical Objective 2  With a Food Frequency Questionnaire (FFQ) supplemented with foods commonly eaten by African-American women in the rural south, investigate the role of dietary sources of fat and heterocyclic amines in BC risk.

Task 1: Months 1-3  Adapt FFQ to include foods found to be commonly eaten by African-American women in Eastern Arkansas previously surveyed.

As reported in prior annual Reports, to determine if additional foods should be added to the Gladys Block Health Habits and History Questionnaire (HHHQ) to improve its suitability for African-American women in the lower Mississippi Delta, we conducted a survey of foods and cooking methods that may be particular to these residents. In collaboration with the Department of Dietetics and Nutrition at UAMS, a list of 60 foods commonly eaten by this population, such as wild game, parts of animals not traditionally eaten, and foods cooked with fat, was compiled through in-depth interviews and focus groups. We developed a Food Frequency Questionnaire with those foods elicited and then surveyed approximately 400 African-American women, aged 40 to 70, who live in eastern Arkansas. The survey indicated that few of the foods queried were eaten frequently by a large proportion of the population, but that several food items not on the Block questionnaire were eaten 1 to 4 times or more per month by > 50% of women surveyed. These foods included okra, southern peas (crowder, purple hull, split), butter and northern beans. Furthermore, more than 50% of women added fat when they cooked beans or greens, such as collards, mustard greens or kale. These additional items were added to the questionnaire already validated in Atlanta for a southern African-American population.

Task 2: Months 3-26 Interviews with cases and controls; ongoing monitoring of interviewers.

Completed questionnaire booklets (please see appendix) were reviewed weekly by the study coordinator, for accuracy and coherence. Interviewer performance was also evaluated continually. One phenomenon that we have observed using this methodology is the case in which a potential participant will agree when speaking with the recruiter, but then refuse when contacted by the interviewer. Late refusals may occur at the time the interview is scheduled, or after the interview is scheduled, often after several requests from the participant to reschedule. Interestingly, the pattern of
late refusals varies by interviewer, and steps were taken to train all interviewers in how to approach the potential participants who have already agreed to participate.

**Task 3: Months 24-30 Double data entry, with ongoing quality control.**
All data collected has been double-entered and we are currently working on data checks and data cleaning.

**Task 4: Months 30-36 Perform statistical data analysis; initial descriptive analyses, study of main effects of data derived from questionnaire.**
Data entry is almost complete. The median age of the breast cancer cases is 54 years and median age for controls is 52 years (P<0.3). Twenty three percent of the controls were smokers and 30% of the cases were smokers (P<0.1). The median tumor size among the cases was 2cm. We are currently conducting analyses of outliers and the transformation of variables. The final endpoint analyses will be conducted shortly and manuscripts prepared for publication.

**Technical Objective 3** Evaluate genetic variability in metabolism of HAs by examining phenotypic variability in CYP1A2 and sulfotransferase activity, as well as genetic polymorphisms in NAT1, NAT2, STIA3 and CYP1A2.

**Task 1: Months 3-26 Perform phenotyping assays for CYP1A2, NAT2, and phenol sulfotransferase.**
The phenol sulfotransferase assays are complete, but the assays for CYP1A2, NAT2 still ongoing. As reported earlier, we used data for sulfotransferase, along with that from participants in a study of colorectal cancer, to evaluate correlations between data from the phenotyping and genotyping. The paper was published in Pharmacogenetics.

**Task 2: Months 26-30 Perform DNA analysis for genetic polymorphisms in CYP1A2, NAT1, NAT2, STIA3**
We established a biologic specimen bank in the context of this study, and protocols for processing and storage of blood were developed. Blood samples are processed so that there are aliquots of serum, plasma, platelets, red blood cells, and buffy coat. Using a
processing system currently used in the 350,000-person EPIC study in Europe, each blood component is mechanically aliquotted into several 0.5ml straws that are prestamped with an ID number and barcode. Straws are heat-sealed and stored in canisters in liquid nitrogen tanks, with a detailed computerized mapping scheme in place. Our laboratory routinely performs high throughput genotyping and has extensive experience in assaying all of the genes proposed for study. Due to the difficulties encountered during case ascertainment the most of the genotyping analyses are still pending. Genotyping for five-promoter region and 1 coding region sulfotransferase polymorphisms was completed. There appears to be no statistically significant associations between the sulfotransferase polymorphisms and breast cancer risk. However, there was a significant correlation between the 3 promoter region sulfotransferase polymorphisms and sulfotransferase activity. A manuscript describing these findings is currently being prepared.

Task 3: Months 31-36 Merge data from laboratory results with questionnaire database. Perform statistical analysis for main effects of polymorphisms evaluated by phenotyping and genotyping. Evaluate interactive effects of laboratory data and questionnaire data.

All the laboratory data has been merged with the pertinent anonymized epidemiological data and the analyses of interactions between genotype/phenotype data and odds of breast cancer are underway. This work will be competed in the next few months and manuscripts generated.

Key Research Accomplishments

- Establishment of infrastructure for molecular epidemiological study (questionnaire development, protocols and equipment for blood processing and specimen banking, recruiter and interviewer hiring and training, development of data bases for participant tracking and questionnaire data, etc.), data entry.

- Enrollment of cases and controls into study – response rates superior to those in earlier case-control study in the same locales.
Adaptation of FFQ to the African-American population in Arkansas.

Reportable Outcomes

Publications:

Moss RA, Erwin DO, Morris-Chatta R, Long S, Ambrosone CB. Challenges, limitations and strategies for increasing participation in epidemiologic studies: a novel approach to recruiting African-Americans. *Annals of Epidemiology* (submitted). A similar paper was submitted in 1999 to two journals, but was rejected due to ‘low priority’. The paper has been substantially rewritten, with more complete data available now, and was submitted to *Annals of Epidemiology*.

Biologic specimen bank established with DNA, serum, plasma and red blood cells from cases and controls.

Grant funded based upon recruitment methodology and pilot data:
“Genetic factors in breast cancer: Center for interdisciplinary biobehavioral research” (Center Grant 07/01/2001-06/30/2005, Bovbjerg, PI)
“Behavior, estrogen metabolism and breast cancer risk: a molecular epidemiologic study”, Ambrosone (PI)

Conclusions

In this pilot study, case ascertainment has been accomplished through collaborations with physicians at the Arkansas Cancer Research Center (ACRC) in Little Rock and the Jefferson Regional Medical Center (JRMC) in Pine Bluff, Arkansas. Interviews have been conducted and data double-entered into a database. Blood and urine samples for
genotyping and phenotyping have also been obtained. We have established a biologic specimen bank, with a detailed protocol for blood processing and storage. Many of the assays to be performed have been refined in our laboratories at the ACRC and National Center for Toxicological Research (NCTR).

Full-scale epidemiological studies require large budgets, which include personnel, supplies, equipment, etc. Furthermore, building of an infrastructure is essential, yet laborious and time-intensive. There were few epidemiological studies being conducted in Arkansas when this study was initiated, and funding received from the Department of Defense and the OWH/NCTR has been used to develop the infrastructure and get it the study into the field. We now have cooperation from several Arkansas physicians and expect to continue our work on breast cancer for years to come. Our methodology has been established and tested, staff training manuals have been developed and successfully piloted, and a specimen bank has been established and is in use. Data from this pilot study was used to support a successful grant application to conduct a similar study among African-American women in New York City.

Personnel Supported by Award.
1. Ms. Stephanie Long – Study Coordinator
2. Ms. Terri Ross – Interviewer
3. Ms. Lindsey Trimble – Interviewer
4. Mr. Christopher Wren – Data Manager

REFERENCES


Health Habits Questionnaire

The University of Arkansas for Medical Sciences
Arkansas Cancer Research Center
And
National Center for Toxicological Research

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<td>Data Entry 2</td>
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I'd like to begin by asking you some questions about your background. What is your date of birth?

_ _ / _ _ / _ _
M M D D Y Y

Interviewer, please enter the date of birth again for accuracy check.

_ _ / _ _ / _ _
M M D D Y Y
What is the highest grade or year of school or college that you have completed?

1 [ ] Eighth grade or less
2 [ ] Trade school or business school instead of high school
3 [ ] Some high school
4 [ ] High school graduate or G.E.D.
5 [ ] Trade school or business school after graduating from high school
6 [ ] Some college including 2 year degrees
7 [ ] Received bachelor’s degree
8 [ ] Graduate or professional education beyond the bachelor degree
9 [ ] Graduate or professional degree
98 [ ] N/A
99 [ ] DK/R

Please look at this card and tell me which choice best describes your race?

[Interviewer: show respondent card A]

1 [ ] African-American
2 [ ] White, not of Hispanic origin
3 [ ] Hispanic
4 [ ] Asian or Pacific Islander
5 [ ] Native American or Alaskan Native
6 [ ] Other
[specific]____________________
99 [ ] DK/R

Are you currently married, living as married, widowed, divorced, separated, or never married?

1 [ ] Married
2 [ ] Living as married
3 [ ] Widowed
4 [ ] Divorced
5 [ ] Separated
6 [ ] Never married
99 [ ] DK/R
END OF DEMOGRAPHICS SECTION
SMOKING HISTORY

Now, I would like to ask you some questions about cigarette smoking.

1. Have you ever smoked at least one cigarette per day for one year? (CHECK ANSWER)
   1 [ ] Yes
   2 [ ] No → (go to Occupational History section)
   99 [ ] DK/R

2. In what year did you first start smoking cigarettes?
   (write year)

3. How many cigarettes per day did you smoke? # cigarettes 98 [ ] NA
   99 [ ] DK/R

4. What kind of cigarettes did you smoke?
   1 [ ] Filtered
   2 [ ] Non-filtered
   3 [ ] Both

5. How did you inhale?
   1 [ ] Not at all
   2 [ ] Mouth or throat
   3 [ ] Chest

6. Did you ever stop smoking cigarettes for six consecutive months or longer?
   1 [ ] Yes
   2 [ ] No → (go to Occupational History section)
   98 [ ] NA
7. If yes, what year did you stop?  

---

(write year)

8. Did you start smoking again?  

1 Yes
2 No → (Go to Occupational History section)

98 NA
99 DK/R

9. What year did you start smoking next?  

---

(write year)

10. How many cigarettes per day did you smoke?  

# cigarettes

98 NA
99 DK/R

11. What kind of cigarettes did you smoke?  

1 Filtered
2 Non-filtered
3 Both

98 NA
99 DK/R

12. How did you inhale?  

1 Not at all
2 Mouth or throat
3 Chest

98 NA
99 DK/R
13. Did you ever stop smoking cigarette for six consecutive months or longer?  
   1 Yes  
   2 No → (go to Occupational History section)  
   98 NA  
   99 DK/R

14. If yes, what year did you stop?  
   ____________________________  
   (write year)

15. Did you start smoking again?  
   1 Yes  
   2 No → (Go to Occupational History section)  
   98 NA  
   99 DK/R

16. What year did you start smoking next?  
   ____________________________  
   (write year)

17. How many cigarettes per day did you smoke?  
   # cigarettes  
   98 NA  
   99 DK/R

18. What kind of cigarettes did you smoke?  
   1 Filtered  
   2 Non-filtered  
   3 Both  
   98 NA  
   99 DK/R

19. How did you inhale?  
   1 Not at all  
   2 Mouth or throat  
   98 NA  
   99 DK/R
20. Did you ever stop smoking cigarette for six consecutive months or longer?

1 □ Yes
2 □ No →(go to Occupational History section)

98 □ NA
99 □ DK/R

21. If yes, what year did you stop?

______ ________

(write year)

22. Did you start smoking again?

1 □ Yes
2 □ No →(Go to Occupational History section)

98 □ NA
99 □ DK/R

23. What year did you start smoking next?

______ ________

(write year)

24. How many cigarettes per day did you smoke?

# cigarettes

98 □ NA
99 □ DK/R
25. What kind of cigarettes did you smoke?

1 □ Filtered
2 □ Non-filtered
3 □ Both

98 □ NA
99 □ DK/R

26. How did you inhale?

1 □ Not at all
2 □ Mouth or throat
3 □ Chest

98 □ NA
99 □ DK/R

27. Did you ever stop smoking cigarettes for six consecutive months or longer?

1 □ Yes
2 □ No → (go to Occupational History section)

98 □ NA
99 □ DK/R

28. What year did you stop smoking?

(Write year)

29. Did you start smoking again?

1 □ Yes
2 □ No → (Go to Occupational History section)

98 □ NA
99 □ DK/R

30. What year did you start smoking next?

(Write year)

31. How many cigarettes per day did you smoke?

# cigarettes

98 □ NA
32. What kind of cigarettes did you smoke?
   1 □ Filtered
   2 □ Non-Filtered
   3 □ Both
   98 □ NA
   99 □ DK/R

33. How did you inhale?
   1 □ Not at all
   2 □ Mouth or throat
   3 □ Chest
   98 □ NA
   99 □ DK/R

34. Did you ever stop smoking cigarettes for six consecutive months or longer?
   1 □ Yes
   2 □ No → (go to Occupational History section)
   98 □ NA
   99 □ DK/R

35. What year did you stop smoking?
   — — — — — — — — — — (write year)

36. Did you start smoking again?
   1 □ Yes
2 □ No  (go to Occupational History section)
98 □ NA
99 □ DK/R

37. What year did you start smoking next?
_____ (write year)  __________  SH37

38. How many cigarettes per day did you smoke?
# cigarettes
98 □ NA
99 □ DK/R

39. What kind of cigarettes did you smoke?
1 □ Filtered
2 □ Non-Filtered
3 □ Both
98 □ DK
99 □ R

40. How did you inhale?
_____  __________  SH40
1 □ Not at all
2 □ Mouth or throat
3 □ Chest
98 □ NA
99 □ DK/R

41. Did you ever stop smoking cigarettes for six consecutive months or longer?
1 □ Yes
2 □ No  (go to Occupational History section)
98 □ NA
99 □ DK/R
42. What year did you stop smoking?  
— — — — —  
(write year)  

SH42  — — — —

43. Did you start smoking again?  

1 □ Yes  
2 □ No  
(goto Occupational History section)  
98 □ NA  
99 □ DK /R

SH43  — — — —

44. What year did you start smoking next?  
— — — — — — — — —  
(write year)  

SH44  — — — —

45. How many cigarettes per day did you smoke?  

# cigarettes  
98 □ NA  
99 □ DK /R

SH45  — — — —

46. What kind of cigarettes did you smoke?  

1 □ Filtered  
2 □ Non-Filtered  
3 □ Both  
98 □ NA  
99 □ DK /R

SH46  — — — —

47. How did you inhale?  

1 □ Not at all  
2 □ Mouth or throat  
3 □ Chest  
98 □ NA  
99 □ DK /R

SH47  — — — —
48. Did you ever stop smoking cigarettes for six consecutive months or longer?  
1 □ Yes  
2 □ No → (go to Occupational History section)  
98 □ NA  
99 □ DK/R

49. What year did you stop smoking?  
______ ______
(Write year)

END OF SMOKING SECTION
INTRODUCTION: Now I'd like to ask you some questions about the kind of work you have done. We are interested in every job, at home, or outside the home, part-time or full-time, paid or unpaid, including any self-employment, or work for companies or family businesses, which you held for a total of six continuous months or longer, since you first began working. If you held more than one job at a company, or more than one job at the same time, we would like to talk about each job separately. Also, please include any time while in the military. If you get tired during this section, we can stop and resume at another time.

Are you currently employed, not employed, a home maker, or retired?

A. In what year did you start being a home maker?

B. Did you ever have any jobs outside the home?

What was the name, city, and state of the company where you first worked for six months or longer?
(Job 1)

NAME: ____________________________

_______________________________

City __________________ State ______

What was the job title of the first job
you held for six months or longer?

_____________________________

(JOB TITLE)

_____________________________

In what year did you start working in this job?

___________________________

(write year)

_____________________________

In what year did you stop working
In this job?

___________________________

(write year) *If still working, =97

_____________________________

KEY

01 = Manufacturer
02 = Retailer
03 = Wholesaler
04 = Service Provider
05 = Construction
06 = Mining
07 = Farming/Fishing/Forestry
08 = Government
09 = Other Specify (in table)
10 = Shipyard

What type of business was this?
Write answer here:

___________________________

Code ________________
(industry)

Text
Other ________________________________ (specify)

What did this company make, or what service did they provide?

Text

What were your main activities or duties as a (Job 1 title) ?

Text

What kinds of chemicals or materials did you handle in that job?

Enter Text

(Duties)

(Chemical/Materials)
What kinds of tools and equipment did you use?

Enter

How many months per year did you work on this job?

(months/year)

On average, about how many hours per week did you work on this job?

(hours/week)

While on this job, did you ever work near diesel or other types of engines or did you smell diesel or other types of exhaust?

1 Yes
2 No
98 NA
99 DK/R

How did you commute to this job?

If there was more than one commuting method, probe for primary, the method that was used for the longest time or for the longest portion of the commute.

1 Bus/Tramway
5 Motorcycle
How long did it take you to get to this job, one way, from your home? 
(hours) code in minutes

At this job, on average, about how many people around you smoked?

<table>
<thead>
<tr>
<th>Number</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>2-4</td>
<td>2-4</td>
</tr>
<tr>
<td>3</td>
<td>5-9</td>
<td>5-9</td>
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<tr>
<td>4</td>
<td>10-19</td>
<td>10-19</td>
</tr>
<tr>
<td>5</td>
<td>20 or more</td>
<td>20 or more</td>
</tr>
<tr>
<td>98</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>99</td>
<td>DK/R</td>
<td>DK/R</td>
</tr>
</tbody>
</table>

Was your work at this job mostly indoors, mostly outdoors, or about the same amount indoors and outdoors?

<table>
<thead>
<tr>
<th>Number</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Mostly Indoors</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Mostly Outdoors</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Both Indoors and Outdoors</td>
<td></td>
</tr>
<tr>
<td>98</td>
<td>NA</td>
<td></td>
</tr>
<tr>
<td>99</td>
<td>DK/R</td>
<td></td>
</tr>
</tbody>
</table>

What was the primary source of drinking water when you worked there?

<table>
<thead>
<tr>
<th>Number</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Municipal water supply</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Well</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Spring</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>bottled</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Other</td>
<td></td>
</tr>
<tr>
<td>98</td>
<td>NA</td>
<td></td>
</tr>
<tr>
<td>99</td>
<td>DK/R</td>
<td></td>
</tr>
</tbody>
</table>

What was the name, city and state...
of the company where you NEXT
worked for six months or longer? (Job 2)

NAME: ____________________________________________

____________________________________________________

City ______________________ State ________________

What was the job title of the second job
you held for six months or longer?

__________________________________________

(JOB TITLE)

In what year did you start working in this job? ________

(Write year)

In what year did you stop working
in this job?

(Write year) * If still working, =97

01 = Manufacturer
02 = Retailer
06 = Mining
07 = Farming/Fishing/Forestry

KEY
What type of business was this?
*Write answer here:*

Code ____________________
(industry)

Text
Other ____________________
(specify)

What did this company make, or what service did they provide?

What were your main activities or duties as a (Job 2 title)?

What kinds of chemicals or enter
What kinds of tools and equipment did you use?

How many months per year did you work on this job?

On average, about how many hours per week did you work on this job?

While on this job, did you ever work near diesel or other types of engines or did you smell diesel or other types of exhaust?

1 Yes
How did you commute to this job?
If there was more than one commuting method, probe for primary, the method that was used for the longest time or for the longest portion of the commute.

- 1 Bus/Tramway
- 2 Metro/Train
- 3 Car
- 4 Bicycle
- 5 Motorcycle
- 6 Animal
- 7 Foot
- 8 Other (specify)
- 98 NA
- 99 DK/R

How long did it take you to get to this job, one way, from your home?

(hours) code in minutes

At this job, on average, about how many people around you smoked?

- 0 0
- 1 1
- 2 2-4
- 3 5-9
- 4 10-19
- 5 20 or more
- 98 NA
- 99 DK/R

Was your work at this job mostly indoors, mostly outdoors, or about the same amount indoors and outdoors?

- 1 Mostly Indoors
- 2 Mostly Outdoors
- 3 Both Indoors and Outdoors
What was the primary source of drinking water when you worked there?

1. Municipal water supply 5. Other
2. Well 98. NA
3. Spring 99. DK/R
4. Bottled

What was the name, city and state of the company where you next worked for six months or longer?

(Job 3)
NAME: __________________________

______________________________
City __________________ State ______

What was the job title of the third job you held for six months or longer?

(Job TITLE)

In what year did you start working in this job?

(Write year)
In what year did you stop working in this job?  

(write year)  * If still working, =97  

KEY  
01 = Manufacturer  
02 = Retailer  
03 = Wholesaler  
04 = Service Provider  
05 = Construction  
06 = Mining  
07 = Farming/Fishing/Forestry  
08 = Government  
09 = Other Specify (in table)  
10 = Shipyard  

What type of business was this?  
Write answer here:  
Code (industry)  
Other Text (specify)  

What did this company make, or what service did they provide?  

What were your main activities or duties as a (Job 3 title)?  
Text  


(Duties)

What kinds of chemicals or materials did you handle in that job? Text

(Chemical/Materials)

What kinds of tools and equipment did you use? Text

(Tools/Equipment)

How many months per year did you work on this job? (months/year)

On average, about how many hours per week did you work on this job?
While on this job, did you ever work near diesel or other types of engines or did you smell diesel or other types of exhaust?

1 □ Yes
2 □ No
98 □ NA
99 □ DK/R

How did you commute to this job? If there was more than one commuting method, probe for primary, the method that was used for the longest time or for the longest portion of the commute.

□ 1 Bus/Tramway □ 5 Motorcycle
□ 2 Metro/Train □ 6 Animal
□ 3 Car □ 7 Foot
□ 4 Bicycle □ 8 Other

(specify) □ 98 NA
□ 99 DK/R

How long did it take you to get to this job, one way, from your home?

(hours) code in
(minutes)

At this job, on average, about how many people around you smoked?

0 □ 0
1 □ 1
2 □ 2-4
3 □ 5-9
4 □ 10-19
5 □ 20 or more
98 □ NA
99 □ DK/R

Was your work at this job mostly
indoors, mostly outdoors, or about the same amount indoors and outdoors?

1 □ Mostly Indoors
2 □ Mostly Outdoors
3 □ Both Indoors and Outdoor
98 □ NA
99 □ DK/R

What was the primary source of drinking water when you worked there?

1 □ Municipal water supply 5 □ Other
2 □ Well 98 □ NA
3 □ Spring 99 □ DK/R
4 □ Bottled

What was the name, city and state of the company where you next worked for six months or longer? Enter Text (Job 4)

NAME:________________________________________
________________________________________
City____________________State________________

What was the job title of the fourth job you held for six months or longer?

________________________________________
(JOB TITLE)

In what year did you start working in this job?

________________________________________
(write year)
In what year did you stop working in this job?  

* If still working, =97

What type of business was this?

Write answer here:

Code (industry)

Other (specify)

What did this company make, or what service did they provide?

Text
What were your main activities or duties as a (Job 4 title)?

What kinds of chemicals or materials did you handle in that job?

(Duties)

(Chemical/Materials)
What kinds of tools and equipment did you use? Enter Text

How many months per year did you work on this job? (months/year)

On average, about how many hours per week did you work on this job? (hours/week)

While on this job, did you ever work near diesel or other types of engines or did you smell diesel or other types of exhaust? Yes No NA DK/R

How did you commute to this job? If there was more than one commuting method, probe for primary, the method that was used for the longest time or for the longest portion of the commute.

1 Bus/Tramway 5 Motorcycle
2 Metro/Train 6 Animal
3 Car 7 Foot
4 Bicycle 8 Other (specify) Enter Text
How long did it take you to get to this job, one way, from your home?

(hours) code in minutes

At this job, on average, about how many people around you smoked?

0 0 4 10-19
1 1 5 20 or more
2 2-4 98 NA
3 5-9 99 DK/R

Was your work at this job mostly indoors, mostly outdoors, or about the same amount indoors and outdoors?

1 Mostly Indoors
2 Mostly Outdoors
3 Both Indoors and Outdoors
98 NA
99 DK/R

What was the primary source of drinking water when you worked there?

1 Municipal water supply 5 Other
2 Well 98 NA
3 Spring 99 DK/R
4 Bottled

What was the name, city and state of the company where you next worked for six months or longer?

Enter

NAME:
What was the job title of the fifth job
you held for six months or longer at (COMPANY)?

(JOB TITLE)

In what year did you start working in this job? 

(write year)

In what year did you stop working
In this job?

(write year)  * If still working, =97

KEY

01 = Manufacturer  
02 = Retailer  
03 = Wholesaler  
04 = Service Provider  
05 = Construction  
06 = Mining  
07 = Farming/Fishing/Forestry  
08 = Government  
09 = Other Specify (in table)  
10 = Shipyard

What type of business was this?
Write answer here:
Code
(industry)

Other
(specify)

Enter Text
What did this company make, or what service did they provide?

What were your main activities or duties as a (Job 5 title)?

What kinds of chemicals or materials did you handle in that job?

What kinds of tools and equipment did you use?
How many months per year did you work on this job?  (months/year)

On average, about how many hours per week did you work on this job?  (hours/week)
While on this job, did you ever work near diesel or other types of engines or did you smell diesel or other types of exhaust?

<table>
<thead>
<tr>
<th></th>
<th>Yes</th>
<th>No</th>
<th>NA</th>
<th>DK/R</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>2</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>98</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>99</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

How did you commute to this job? If there was more than one commuting method, probe for primary, the method that was used for the longest time or for the longest portion of the commute.

<table>
<thead>
<tr>
<th></th>
<th>Bus/Tramway</th>
<th>Motorcycle</th>
<th>Metro/Train</th>
<th>Animal</th>
<th>Car</th>
<th>Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td>5</td>
<td>2</td>
<td>6</td>
<td>3</td>
<td>7</td>
</tr>
</tbody>
</table>

How long did it take you to get to this job, one way, from your home?

(hours) code in minutes (minutes)

At this job, on average, about how many people around you smoked?

<table>
<thead>
<tr>
<th></th>
<th>0</th>
<th>1</th>
<th>2-4</th>
<th>5-9</th>
<th>10-19</th>
<th>20 or more</th>
<th>NA</th>
<th>DK/R</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
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<td>1</td>
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<td>2</td>
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<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Was your work at this job mostly indoors, mostly outdoors, or about the same amount indoors and outdoors?

<table>
<thead>
<tr>
<th></th>
<th>Mostly Indoors</th>
<th>Mostly Outdoors</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
What was the primary source of drinking water when you worked there?

1 ☐ Municipal water supply  5 ☐ Other
2 ☐ Well  98 ☐ NA
3 ☐ Spring  99 ☐ DK/R
4 ☐ Bottled

What was the name, city and state of the company where you next worked for six months or longer? (Job 6)

NAME: ________________________________

______________________________

City_________________________ State_________________

What was the job title of the sixth job you held for six months or longer at (COMPANY)?

Enter ____________________________

(JOB TITLE)

In what year did you start working in this job?

(Write year) ____________________________

______________________________
In what year did you stop working

In this job?

(write year)
KEY

01 = Manufacturer
02 = Retailer
03 = Wholesaler
04 = Service Provider
05 = Construction
06 = Mining
07 = Farming/Fishing/Forestry
08 = Government
09 = Other Specify (in table)
10 = Shipyard

What type of business was this?
Write answer here:
Code __________ (industry)

Other ________________ (specify)

What did this company make, Text
or what service did they provide?

What were your main activities or Text
duties as a (Job title)?

What kinds of chemicals or Text
materials did you handle in that job?
What kinds of tools and equipment did you use?

(Tools/Equipment)

How many months per year did you work on this job?

(months/year)

On average, about how many hours per week did you work on this job?

(hours/week)

While on this job, did you ever work near diesel or other types of engines or did you smell diesel or other types of exhaust?

1 ☐ Yes
2 ☐ No
98 ☐ NA
99 ☐ DK/R

How did you commute to this job?

If there was more than one commuting method, probe for primary, the method that was used for the longest time or for the longest portion of the commute.

1 ☐ Bus/Tramway
5 ☐ Motorcycle
98 ☐ NA
2 ☐ Metro/Train
6 ☐ Animal
99 ☐ DK/R
3 ☐ Car
7 ☐ Foot
98 ☐ NA
99 ☐ DK/R

4 ☐ Bicycle
8 ☐ Other (specify)

Text
How long did it take you to get to this job, one way, from your home? (hours) code in minutes (minutes)

At this job, on average, about how many people around you smoked?

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>2-4</td>
<td>98</td>
</tr>
<tr>
<td>3</td>
<td>5-9</td>
<td>99</td>
</tr>
</tbody>
</table>

Was your work at this job mostly indoors, mostly outdoors, or about the same amount indoors and outdoors?

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Mostly Indoors</td>
</tr>
<tr>
<td>2</td>
<td>Mostly Outdoors</td>
</tr>
<tr>
<td>3</td>
<td>Both Indoors and Outdoors</td>
</tr>
<tr>
<td>98</td>
<td>NA</td>
</tr>
<tr>
<td>99</td>
<td>DK/R</td>
</tr>
</tbody>
</table>

What was the primary source of drinking water when you worked there?

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Municipal water supply</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Well</td>
<td>98</td>
</tr>
<tr>
<td>3</td>
<td>Spring</td>
<td>99</td>
</tr>
<tr>
<td>4</td>
<td>Bottled</td>
<td></td>
</tr>
</tbody>
</table>

END OF OCCUPATIONAL HISTORY
OCCUPATIONAL EXPOSURE

Now, I would like to ask you some questions about things you may have come into contact with, either on or off the job.

Have you ever been exposed, either on the job or off, to any of the following substances or processes for a lifetime total of a year or more?

EXAMPLE: If you have been exposed to a substance for 2 months at a time for 6 years or more, that constitutes a lifetime total of a year or more.

Have you ever been exposed to ASBESTOS (for a year or more)?

1 □ Yes
2 □ No = Next Substance (OC4)
99 □ DK /R

How long were you exposed to asbestos?

0 □ Less than 1 year
1-70 □ Years
98 □ NA
99 □ DK /R

Were you exposed to asbestos at one of the jobs you mentioned earlier?

1 □ Yes, specify job title [specify]
2 □ No
98 □ NA
99 □ DK/R

Have you ever been exposed to DIESEL FUEL or EXHAUST (for a year or more)?

1 □ Yes
2 □ No = Next Substance (OC5)

99 □ DK/R

---

**How long were you exposed diesel fuel or exhaust?**

0 □ Less than 1 year

1-70 □ Years

98 □ NA

99 □ DK/R

**Were you exposed to this diesel fuel or exhaust at one of the jobs you mentioned earlier?**

1 □ Yes, specify job title [specify]

2 □ No

98 □ NA

99 □ DK/R

---

**Have you ever been exposed to GASOLINE or GASOLINE EXHAUST (for a year or more)?**

1 □ Yes

*2 □ No = Next Substance (OC6)

*99 □ DK/R

---

**How long were you exposed to gasoline or gasoline exhaust?**

0 □ Less than 1 year

1-70 □ Years

98 □ NA

99 □ DK/R

---

**Were you exposed to gasoline or gasoline exhaust at one of**
the jobs you mentioned earlier?

1 [ ] Yes, specify job title [specify]
2 [ ] No
98 [ ] NA
99 [ ] DK/R
Have you ever been exposed to DYESTUFFS (material or clothing dyes) (for a year or more)?

1 □ Yes
2 □ No = Next Substance (OC7)
99 □ DK/R

How long were you exposed to dyestuffs?

0 □ Less than 1 year
1-70 ______ Years
98 □ NA
99 □ DK/R

Were you exposed to dyestuffs at one of the jobs you mentioned earlier?

1 □ Yes, specify job title [specify]
2 □ No
98 □ NA
99 □ DK/R

Have you ever been exposed to ORGANIC SOLVENTS (for a year or more)? (Interviewer: show respondent card B)

1 □ Yes
2 □ No = Next Substance, OC8
99 □ DK/R

*Interviewer : [go to OC8]

How long were you exposed to this substance?

0 □ Less than 1 year
1-70 ______ Years
Were you exposed to organic solvents at one of the jobs you mentioned earlier?  

1  □ Yes, specify job title [specify]  
2  □ No  
98 □ NA  
99 □ DK/R

Have you ever been exposed to DDT (for a year or more)?  

1  □ Yes  
2 □ No = Next Substance, OC9  
99 □ DK/R

How long were you exposed to this substance?  

0 □ Less than 1 year  
1-70 □ Years  
98 □ NA  
99 □ DK/R

Were you exposed to DDT at one of the jobs you mentioned earlier?  

1 □ Yes, specify job title  
2 □ No  
98 □ NA  
99 □ DK/R

Have you ever been exposed to HERBICIDES (for a year or more)?  

1 □ Yes  
2 □ No = Next Substance, OC10
How long were you exposed to this substance? [OC9a]

0 □ Less than 1 year
1-70 □ Years
98 □ NA
99 □ DK/R

Were you exposed to herbicides at one of the jobs you mentioned earlier? [OC9b]

1 □ Yes, specify job title [specify]
2 □ No
98 □ NA
99 □ DK/R

Have you ever been exposed to INSECTICIDES (for a year or more)? [OC10]

1 □ Yes
2 □ No = Next Substance, OC11
99 □ DK/R

How long were you exposed to this substance? [OC10a]

0 □ Less than 1 year
1-70 □ Years
98 □ NA
99 □ DK/R

Were you exposed to insecticides at one of the jobs you mentioned earlier? [OC10b]

1 □ Yes, specify job title
2 □ No
Have you ever been exposed to PAINTS (for a year or more)?

1 Yes
2 No = Next Substance, OC12
99 DK/R

How long were you exposed to this substance?

0 Less than 1 year
1-70 Years
98 NA
99 DK/R

Were you exposed to paints at one of the jobs you mentioned earlier?

1 Yes, specify job title
2 No
98 NA
99 DK/R

Have you ever been exposed to PAINT THINNERS (for a year or more)?

1 Yes
2 No = Next Substance, OC13
How long were you exposed to this substance?

<p>| | |</p>
<table>
<thead>
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<tbody>
<tr>
<td>0</td>
<td>Less than 1 year</td>
</tr>
<tr>
<td>1-70</td>
<td></td>
</tr>
</tbody>
</table>

Were you exposed to paint thinners at one of the jobs previously listed?

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<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Yes, specify job title</td>
</tr>
<tr>
<td>2</td>
<td>No</td>
</tr>
<tr>
<td>98</td>
<td>NA</td>
</tr>
<tr>
<td>99</td>
<td>DK/R</td>
</tr>
</tbody>
</table>

Have you ever been exposed to MINERAL, CUTTING, or LUBRICATING OIL (for a year or more)?

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<td>1</td>
<td>Yes</td>
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<tr>
<td>2</td>
<td>No = Next Substance, OC14</td>
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<tr>
<td>99</td>
<td>DK/R</td>
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</table>

How long were you exposed to this substance?

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<tbody>
<tr>
<td>0</td>
<td>Less than 1 year</td>
</tr>
<tr>
<td>1-70</td>
<td></td>
</tr>
</tbody>
</table>

99 | DK/R
Were you exposed to mineral, cutting or lubricating oil at one of the jobs you mentioned earlier?

1 □ Yes, specify job title
2 □ No
98 □ NA
99 □ DK/R

Have you ever been exposed to COAL, TAR, SOOT, PITCH, CREOSOTE, or ASPHALT (for a year or more)?

1 □ Yes
2 □ No = Next Substance, OC15
99 □ DK/R

How long were you exposed to this substance?

0 □ Less than 1 year
1-70 □ Years
98 □ NA
99 □ DK/R

Were you exposed to coal, tar, soot, pitch, creosote or asphalt at one of the jobs you mentioned earlier?

1 □ Yes, specify job title [specify]
2 □ No
98 □ NA
99 □ DK/R

Have you ever been exposed to RUBBER or CABLE MAKING (for a year or more)?

1 □ Yes
2 □ No = Next Substance, OC16
How long were you exposed to this substance?

- weniger 1 year
- 1-70 Years
- NA
- DK/R

Were you exposed to rubber or cable making at one of the jobs you mentioned earlier?

- Yes, specify job title [specify]
- No
- NA
- DK/R

Have you ever been exposed to PRINTING INKS (for a year or more)?

- Yes
- No = Next Substance, OC17
- DK/R

How long were you exposed to this substance?

- less than 1 year
- 1-70 Years
- NA
- DK/R

Were you exposed to printing inks at one of
the jobs you mentioned earlier?

<table>
<thead>
<tr>
<th>Yes, specify job title</th>
<th>No</th>
<th>NA</th>
<th>DK/R</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>98</td>
<td>99</td>
</tr>
</tbody>
</table>

Have you ever been exposed to PLASTIC PRODUCTION (for a year or more)?

<table>
<thead>
<tr>
<th>Yes</th>
<th>No = Next Substance</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>2</td>
</tr>
</tbody>
</table>

How long were you exposed to this substance?

<table>
<thead>
<tr>
<th>Less than 1 year</th>
<th>1-70 Years</th>
<th>NA</th>
<th>DK/R</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>1-70</td>
<td>98</td>
<td>99</td>
</tr>
</tbody>
</table>

Were you exposed to plastic production at one of the jobs you mentioned earlier?

<table>
<thead>
<tr>
<th>Yes, specify job title</th>
<th>No</th>
<th>NA</th>
<th>DK/R</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>98</td>
<td>99</td>
</tr>
</tbody>
</table>

Have you ever been exposed to LEATHER PRODUCTION (for a year or more)?

<table>
<thead>
<tr>
<th>Yes</th>
<th>No = Next Substance</th>
<th>DK/R</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>99</td>
</tr>
</tbody>
</table>

How long were you exposed to this
substance? OC18a

0 □ Less than 1 year
1-70 □ Years
98 □ NA
99 □ DK/R

Were you exposed to leather production at one of the jobs you mentioned earlier? OC18b

1 □ Yes, specify job title
2 □ No
98 □ NA
99 □ DK/R

Have you ever been exposed to the LUMBER INDUSTRY or WOOD DUST (for a year or more)? OC19

1 □ Yes
2 □ No = Next Substance, OC20
99 □ DK/R

How long were you exposed to this substance? OC19a

0 □ Less than 1 year
1-70 □ Years
98 □ NA
99 □ DK/R

Were you exposed to the lumber industry or wood dust at one of the jobs you mentioned earlier? OC19b

1 □ Yes, specify job title [specify]
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</thead>
<tbody>
<tr>
<td>2</td>
<td>No</td>
<td>98</td>
<td>NA</td>
<td>99</td>
<td>DK/R</td>
<td></td>
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</table>

Have you ever been exposed to GLUE OR ADDITIVES (for a year or more)?

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<tr>
<td>1</td>
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<td>2</td>
<td>No</td>
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</table>

= Next Substance, OC21

How long were you exposed to this substance?

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<tr>
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<td>Less than 1 year</td>
<td></td>
</tr>
<tr>
<td>1-70</td>
<td>Years</td>
<td></td>
</tr>
<tr>
<td>98</td>
<td>NA</td>
<td></td>
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<tr>
<td>99</td>
<td>DK/R</td>
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Were you exposed to glue or additives at one of the jobs you mentioned earlier?

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<tbody>
<tr>
<td>1</td>
<td>Yes, specify job title</td>
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<tr>
<td>2</td>
<td>No</td>
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<tr>
<td>98</td>
<td>NA</td>
<td></td>
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<tr>
<td>99</td>
<td>DK/R</td>
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</table>

Have you ever been exposed to METALS or METAL DUST (for a year or more)?

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<td>1</td>
<td>Yes</td>
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<td>2</td>
<td>No</td>
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<tr>
<td>99</td>
<td>DK/R</td>
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</tbody>
</table>

= Go to Diet Section, DTX2

How long were you exposed to this substance?

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<tbody>
<tr>
<td>0</td>
<td>Less than 1 year</td>
<td></td>
</tr>
<tr>
<td>1-70</td>
<td>Years</td>
<td></td>
</tr>
<tr>
<td>98</td>
<td>NA</td>
<td></td>
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<tr>
<td>99</td>
<td>DK/R</td>
<td></td>
</tr>
</tbody>
</table>
substance? OC21a

0 [☐] Less than 1 year
1-70 [☐] Years
98 [☐] NA
99 [☐] DK/R

Were you exposed to metals or metal dust At one of the jobs you mentioned earlier? OC21b

1 [☐] Yes, specify job title

2 [☐] No
98 [☐] NA
99 [☐] DK/R

END OF EXPOSURE SECTION
DIET

The next series of questions will be about your diet. The year before [Year of Diet] did you change your diet?

1  Yes
2  No
98  NA
99  DK/R

[Interviewer if diet has changed in the year before the diagnosis, use the prior year for the questionnaire. For instance if the cancer was diagnosed in 2000, but diet changed, use 1998. If diet did not change, use 1999. For controls go back one year.]

The next questions ask about your use and preparation of meat and eggs during _______.

I will ask the number of times you ate the Foods, as well as how they were made. Some of the information may be hard to remember. Please try to give your best guess. Some different ways to cook foods are pan-frying, deep frying, oven broiling, baking/roasting, grilling/barbecuing, microwaving, and stewing. Interviewer: show card C, show and explain card D

During ________, how often did you eat eggs?

Interviewer: show card D

1  Never [go to DO3a]
3  Less than once per month
5  Once per month
7  2-3 times per month
9  Once per week
11  Twice per week
13  3-4 times per week
15  5-6 times per week
17  Once per day
19  Two or more times per day
98  NA
### How many eggs did you usually eat per serving?

1-80 enter number
98 ☐ NA
99 ☐ DK/R

### During ___, when you ate eggs, how often were they pan-fried, such as sunny side-up?

*Interviewer: show card D*

1 ☐ Never
3 ☐ Less than once per month
5 ☐ Once per month
7 ☐ 2-3 times per month
9 ☐ Once per week
11 ☐ Twice per week
13 ☐ 3-4 times per week
15 ☐ 5-6 times per week
17 ☐ Once per day
19 ☐ Two or more times per day
98 ☐ NA
99 ☐ DK/R

### During ___, when you ate eggs, how often were they prepared in any other way?

*Interviewer: other than pan-fried*

1 ☐ Never
3 ☐ Less than once per month
5 ☐ Once per month
7 ☐ 2-3 times per month
9 ☐ Once per week
11 ☐ Twice per week
13 ☐ 3-4 times per week
15 ☐ 5-6 times per week
17 ☐ Once per day
19 ☐ Two or more times per day
98 ☐ NA
99 ☐ DK/R
During ____, how often did you eat hamburgers and cheeseburgers including fast food?

Interviewer: show card D

1 □ Never [ go to DO5a]
3 □ Less than once per month
5 □ Once per month
7 □ 2-3 times per month
9 □ Once per week
11 □ Twice per week
13 □ 3-4 times per week
15 □ 5-6 times per week
17 □ Once per day
19 □ Two or more times per day
98 □ NA
99 □ DK/R

What was your usual serving size of hamburgers and cheeseburgers?

Interviewer: compared to this example

1-80 oz
98 □ DK
99 □ R

During ____, when you ate hamburgers and cheeseburgers, how often were they pan fried?

Interviewer: show card D

1 □ Never
3 □ Less than once per month
5 □ Once per month
7 □ 2-3 times per month
9 □ Once per week
11 □ Twice per week
13 □ 3-4 times per week
15 □ 5-6 times per week
17 □ Once per day
19 □ Two or more times per day
98 □ NA
99 □ DK/R
During _____, when you ate hamburgers and cheeseburgers, how often were they grilled or barbecued?

Interviewer: show card D

During _____, when you ate hamburgers and cheeseburgers, how often were they oven-broiled?

Interviewer: show card D
During [___], when you ate hamburgers and cheeseburgers, how often were they prepared in a way that I haven't mentioned?

Interviewer: show card D

1 [ ] Never
3 [ ] Less than once per month
5 [ ] Once per month
7 [ ] 2-3 times per month
9 [ ] Once per week
11 [ ] Twice per week
13 [ ] 3-4 times per week
15 [ ] 5-6 times per week
17 [ ] Once per day
19 [ ] Two or more times per day
98 [ ] NA
99 [ ] DK/R

During [___], how often did you eat beef steaks?

Interviewer: show card D

1 [ ] Never [go to D07a]
3 [ ] Less than once per month
5 [ ] Once per month
7 [ ] 2-3 times per month
9 [ ] Once per week
11 [ ] Twice per week
13 [ ] 3-4 times per week
15 [ ] 5-6 times per week
17 [ ] Once per day
19 [ ] Two or more times per day
98 [ ] NA
99 [ ] DK/R
What was your usual serving size of beef steaks?

*Interviewer: compared to this example*

1-80 oz
98 NA
99 DK/R

During ___, when you ate beef steaks, how often were they pan-fried?

*Interviewer: show card D*

1 Never
3 Less than once per month
5 Once per month
7 2-3 times per month
9 Once per week
11 Twice per week
13 3-4 times per week
15 5-6 times per week
17 Once per day
19 Two or more times per day
98 NA
99 DK/R

During ___, when you ate beef steaks, how often were they grilled or barbecued?

*Interviewer: show card D*
<table>
<thead>
<tr>
<th>Number</th>
<th>Frequency</th>
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</thead>
<tbody>
<tr>
<td>1</td>
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<tr>
<td>3</td>
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</tr>
<tr>
<td>5</td>
<td>Once per month</td>
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<tr>
<td>7</td>
<td>2-3 times per month</td>
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<td>Once per week</td>
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<td>3-4 times per week</td>
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<td>17</td>
<td>Once per day</td>
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<tr>
<td>19</td>
<td>Two or more times per day</td>
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<tr>
<td>98</td>
<td>NA</td>
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<tr>
<td>99</td>
<td>DK/R</td>
</tr>
</tbody>
</table>
During _____, when you ate beef steaks, how often were they oven-broiled?

Interviewer: show card D

1 □ Never
3 □ Less than once per month
5 □ Once per month
7 □ 2-3 times per month
9 □ Once per week
11 □ Twice per week
13 □ 3-4 times per week
15 □ 5-6 times per week
17 □ Once per day
19 □ Two or more times per day
98 □ NA
99 □ DK/R

During _____, when you ate beef steaks, how often were they prepared in a way that I haven’t mentioned?

Interviewer: show card D

1 □ Never
3 □ Less than once per month
5 □ Once per month
7 □ 2-3 times per month
9 □ Once per week
11 □ Twice per week
13 □ 3-4 times per week
15 □ 5-6 times per week
17 □ Once per day
19 □ Two or more times per day
98 □ NA
99 □ DK/R
During ___, how often did you eat pork chops or ham steaks?

*Interviewer: show card D*

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<tr>
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<td>7</td>
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<td>19</td>
<td>Two or more times per day</td>
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<td>98</td>
<td>NA</td>
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<tr>
<td>99</td>
<td>DK/R</td>
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</tbody>
</table>

What was your usual serving size of pork chops or ham steaks?

*Interviewer: compared to this example*

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<tbody>
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<td>1-80</td>
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<td>98</td>
<td>NA</td>
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<td>99</td>
<td>DK/R</td>
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</tbody>
</table>

During ___, when you ate pork chops or ham steaks, how often were they pan-fried?

*Interviewer: show card D*

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<tr>
<td>1</td>
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<td>3</td>
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<td>99</td>
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</tbody>
</table>
During ____, when you ate pork chops or ham steaks, how often were they oven-broiled?

*Interviewer: show card D*

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</thead>
<tbody>
<tr>
<td>1</td>
<td>Never</td>
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<tr>
<td>3</td>
<td>Less than once per month</td>
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<td>17</td>
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<td>19</td>
<td>Two or more times per day</td>
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<td>98</td>
<td>NA</td>
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<td>99</td>
<td>DK/R</td>
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During ____, when you ate pork chops or ham steaks, how often were they baked or roasted?

*Interviewer: show card D*

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<td>98</td>
<td>NA</td>
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<tr>
<td>99</td>
<td>DK/R</td>
</tr>
</tbody>
</table>
During __, when you ate pork chops or ham steaks, how often were they prepared in a way that I haven’t mentioned?

*Interviewer: show card D*

1  □ Never
3  □ Less than once per month
5  □ Once per month
7  □ 2-3 times per month
9  □ Once per week
11 □ Twice per week
13 □ 3-4 times per week
15 □ 5-6 times per week
17 □ Once per day
19 □ Two or more times per day
98 □ NA
99 □ DK/R

*During __, how often did you eat bacon?*

*Interviewer: show card D*

1  □ Never [go to D09a]
3  □ Less than once per month
5  □ Once per month
7  □ 2-3 times per month
9  □ Once per week
11 □ Twice per week
13 □ 3-4 times per week
15 □ 5-6 times per week
17 □ Once per day
19 □ Two or more times per day
98 □ NA
99 □ DK/R

*How many strips of bacon did you usually eat?*

*Interviewer: in number of strips*

1-80 strips
98 □ N/A
99 □ DK/R
During ___, when you ate bacon how often was it pan-fried?

Interviewer: show card D

1 □ Never
3 □ Less than once per month
5 □ Once per month
7 □ 2-3 times per month
9 □ Once per week
11 □ Twice per week
13 □ 3-4 times per week
15 □ 5-6 times per week
17 □ Once per day
19 □ Two or more times per day
98 □ NA
99 □ DK/R

During ___, when you ate bacon, how often was it grilled or barbecued?

Interviewer: show card D

1 □ Never
3 □ Less than once per month
5 □ Once per month
7 □ 2-3 times per month
9 □ Once per week
11 □ Twice per week
13 □ 3-4 times per week
15 □ 5-6 times per week
17 □ Once per day
19 □ Two or more times per day
98 □ NA
99 □ DK/R
During _____, when you ate bacon, how often was it oven-broiled?

_Interviewer: show card D_

1 □ Never
2 □ Less than once per month
3 □ Once per month
4 □ 2-3 times per month
5 □ Once per week
6 □ Twice per week
7 □ 3-4 times per week
8 □ 5-6 times per week
9 □ Once per day
10 □ Two or more times per day
11 □ NA
12 □ DK/R

During _____, when you ate bacon, how often was it microwaved?

_Interviewer: show card D_

1 □ Never
2 □ Less than once per month
3 □ Once per month
4 □ 2-3 times per month
5 □ Once per week
6 □ Twice per week
7 □ 3-4 times per week
8 □ 5-6 times per week
9 □ Once per day
10 □ Two or more times per day
11 □ NA
12 □ DK/R
During ____ when you ate bacon, how often was it prepared in a way that I haven't mentioned?

*Interviewer: show card D*

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>1</td>
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<td>3</td>
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<tr>
<td>5</td>
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<td>NA</td>
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<tr>
<td>99</td>
<td>DK/R</td>
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</table>

During ____ how often did you eat sausage

*Interviewer: show card D*

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<th></th>
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<tbody>
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<td>5</td>
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<td>7</td>
<td>2-3 times per month</td>
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<td>19</td>
<td>Two or more times per day</td>
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<td>NA</td>
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<td>99</td>
<td>DK/R</td>
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</table>

What was your usual serving size of sausage?

*Interviewer: 1 large(Polish, Bratwurst etc.) or 2 small(patties or links)= 1 serving*

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
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<tbody>
<tr>
<td>1-80</td>
<td>servings</td>
</tr>
<tr>
<td>98</td>
<td>NA</td>
</tr>
<tr>
<td>99</td>
<td>DK/R</td>
</tr>
</tbody>
</table>
During ____, when you ate sausage, how often was it pan-fried?  

*Interviewer: show card D*

1 □ Never  
3 □ Less than once per month  
5 □ Once per month  
7 □ 2-3 times per month  
9 □ Once per week  
11 □ Twice per week  
13 □ 3-4 times per week  
15 □ 5-6 times per week  
17 □ Once per day  
19 □ Two or more times per day  
98 □ NA  
99 □ DK/R

---

During ____, when you ate sausage, how often was it grilled or barbecued?  

*Interviewer: show card D*

1 □ Never  
3 □ Less than once per month  
5 □ Once per month  
7 □ 2-3 times per month  
9 □ Once per week  
11 □ Twice per week  
13 □ 3-4 times per week  
15 □ 5-6 times per week  
17 □ Once per day  
19 □ Two or more times per day  
98 □ NA  
99 □ DK/R
During _____, when you ate sausage, how often was it oven-broiled?

Interviewer: show card D

1 □ Never
3 □ Less than once per month
5 □ Once per month
7 □ 2-3 times per month
9 □ Once per week
11 □ Twice per week
13 □ 3-4 times per week
15 □ 5-6 times per week
17 □ Once per day
19 □ Two or more times per day
98 □ NA
99 □ DK/R

During _____, when you ate sausage, how often was it microwaved?

Interviewer: show card D

1 □ Never
3 □ Less than once per month
5 □ Once per month
7 □ 2-3 times per month
9 □ Once per week
11 □ Twice per week
13 □ 3-4 times per week
15 □ 5-6 times per week
17 □ Once per day
19 □ Two or more times per day
98 □ NA
99 □ DK/R
During __, when you ate sausage, how often was it prepared in a way that I haven’t mentioned?

*Interviewer: show card D*

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Code</th>
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<tbody>
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<td>Once per day</td>
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<td>Two or more times per day</td>
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<tr>
<td>NA</td>
<td>98</td>
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<tr>
<td>DK/R</td>
<td>99</td>
</tr>
</tbody>
</table>

During __, how often did you eat hot dogs or franks?

*Interviewer: show card D (remind subject of corn dogs, etc.)*

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Never</td>
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<td>2-3 times per month</td>
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<tr>
<td>Two or more times per day</td>
<td>19</td>
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<tr>
<td>NA</td>
<td>98</td>
</tr>
<tr>
<td>DK/R</td>
<td>99</td>
</tr>
</tbody>
</table>

What was your usual serving size of hot dogs or franks?

*Interviewer: in number of hot dogs*

<table>
<thead>
<tr>
<th>Number of hot dogs</th>
<th>Code</th>
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<tbody>
<tr>
<td>1-80</td>
<td></td>
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<tr>
<td>NA</td>
<td>98</td>
</tr>
<tr>
<td>DK/R</td>
<td>99</td>
</tr>
</tbody>
</table>
During ___, when you ate hot dogs or franks, how often were they pan-fried?

*Interviewer: show card D*

1 □ Never [go to D26a]
3 □ Less than once per month
5 □ Once per month
7 □ 2-3 times per month
9 □ Once per week
11 □ Twice per week
13 □ 3-4 times per week
15 □ 5-6 times per week
17 □ Once per day
19 □ Two or more times per day
98 □ NA
99 □ DK/R

During ___, when you ate hot dogs or franks, how often were they oven-broiled?

*Interviewer: show card D*

1 □ Never
3 □ Less than once per month
5 □ Once per month
7 □ 2-3 times per month
9 □ Once per week
11 □ Twice per week
13 □ 3-4 times per week
15 □ 5-6 times per week
17 □ Once per day
19 □ Two or more times per day
98 □ NA
99 □ DK/R
During ____, when you ate hot dogs or franks, how often were they grilled or barbecued?

*Interviewer: show card D*

1 [ ] Never
3 [ ] Less than once per month
5 [ ] Once per month
7 [ ] 2-3 times per month
9 [ ] Once per week
11 [ ] Twice per week
13 [ ] 3-4 times per week
15 [ ] 5-6 times per week
17 [ ] Once per day
19 [ ] Two or more times per day
98 [ ] NA
99 [ ] DK/R

During ____, when you ate hot dogs or franks, how often were they prepared in a way that I have not mentioned?

*Interviewer: show card D*

1 [ ] Never
3 [ ] Less than once per month
5 [ ] Once per month
7 [ ] 2-3 times per month
9 [ ] Once per week
11 [ ] Twice per week
13 [ ] 3-4 times per week
15 [ ] 5-6 times per week
17 [ ] Once per day
19 [ ] Two or more times per day
98 [ ] NA
99 [ ] DK/R
During ___, how often did you eat fried chicken?

Interviewer: show card D

1 Never [go to D12a]
3 Less than once per month
5 Once per month
7 2-3 times per month
9 Once per week
11 Twice per week
13 3-4 times per week
15 5-6 times per week
17 Once per day
19 Two or more times per day
98 NA
99 DK/R

Remind subject of chicken strips & chicken nuggets.

What was your usual serving size of fried chicken?

Interviewer: compared to these examples

1-80 oz
98 NA
99 DK/R

During ___, when you ate fried chicken, how often was it deep fat fried/fast food?

Interviewer: show card D

1 Never
3 Less than once per month
5 Once per month
7 2-3 times per month
9 Once per week
11 Twice per week
13 3-4 times per week
15 5-6 times per week
17 Once per day
19 Two or more times per day
98 NA
99 DK/R
During ____ when you ate fried chicken, how often was it pan fried?

Interviewer: show card D

1 □ Never
3 □ Less than once per month
5 □ Once per month
7 □ 2-3 times per month
9 □ Once per week
11 □ Twice per week
13 □ 3-4 times per week
15 □ 5-6 times per week
17 □ Once per day
19 □ Two or more times per day
98 □ NA
99 □ DK/R

Other than fried chicken, during ____ how often did you eat chicken or turkey (including on sandwiches)?

Interviewer: show card D

1 □ Never [go to D13a]
3 □ Less than once per month
5 □ Once per month
7 □ 2-3 times per month
9 □ Once per week
11 □ Twice per week
13 □ 3-4 times per week
15 □ 5-6 times per week
17 □ Once per day
19 □ Two or more times per day
98 □ NA
99 □ DK/R

What was your usual serving size of the chicken or turkey?

Interviewer: compared to this example

2oz = 1 serving

1-80 ______ servings
98 □ NA
During ____ , when you ate chicken or turkey, how often was it baked or roasted?

*Interviewer: show card D*

1 □ Never
3 □ Less than once per month
5 □ Once per month
7 □ 2-3 times per month
9 □ Once per week
11 □ Twice per week
13 □ 3-4 times per week
15 □ 5-6 times per week
17 □ Once per day
19 □ Two or more times per day
98 □ NA
99 □ DK/R

---

During ____ , when you ate chicken or turkey, how often was it stewed?

*Interviewer: show card D*

1 □ Never
3 □ Less than once per month
5 □ Once per month
7 □ 2-3 times per month
9 □ Once per week
11 □ Twice per week
13 □ 3-4 times per week
15 □ 5-6 times per week
17 □ Once per day
19 □ Two or more times per day
98 □ NA
99 □ DK/R
During ___, when you ate chicken or turkey, how often was it oven-broiled?

[Interviewer: show card D]

1 □ Never
3 □ Less than once per month
5 □ Once per month
7 □ 2-3 times per month
9 □ Once per week
11 □ Twice per week
13 □ 3-4 times per week
15 □ 5-6 times per week
17 □ Once per day
19 □ Two or more times per day
98 □ NA
99 □ DK/R

During ___, when you ate chicken or turkey, how often was it grilled or barbecued?

[Interviewer: show card D]

1 □ Never
3 □ Less than once per month
5 □ Once per month
7 □ 2-3 times per month
9 □ Once per week
11 □ Twice per week
13 □ 3-4 times per week
15 □ 5-6 times per week
17 □ Once per day
19 □ Two or more times per day
98 □ NA
99 □ DK/R
During ____, when you ate chicken or turkey, how often was it prepared in a way that I have not mentioned?

Interviewer: show card D

1 □ Never
3 □ Less than once per month
5 □ Once per month
7 □ 2-3 times per month
9 □ Once per week
11 □ Twice per week
13 □ 3-4 times per week
15 □ 5-6 times per week
17 □ Once per day
19 □ Two or more times per day
98 □ NA
99 □ DK/R

During ____, how often did you eat fried fish or fish sandwiches (including other fried seafood)?

Interviewer: show card D

1 □ Never [go to D14a]
3 □ Less than once per month
5 □ Once per month
7 □ 2-3 times per month
9 □ Once per week
11 □ Twice per week
13 □ 3-4 times per week
15 □ 5-6 times per week
17 □ Once per day
19 □ Two or more times per day
98 □ NA
99 □ DK/R

What was your usual serving size of fried fish or fish sandwich?

Interviewer: compared to these examples

1-80 __ oz
98 □ NA
99 □ DK/R
**During**, when you ate fried fish or a fish sandwich, how often were they pan-fried?

*Interviewer: show card D*

<p>| | | | | | | |</p>
<table>
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<tbody>
<tr>
<td></td>
<td>1</td>
<td>Never</td>
<td></td>
<td>3</td>
<td>Less than once per month</td>
<td></td>
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<td></td>
<td>2</td>
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<td></td>
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<td>98</td>
<td>99</td>
<td>DK/R</td>
<td></td>
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</table>

**During**, when you ate fried fish or a fish sandwich, how often were they deep fat fried or fast food?

*Interviewer: show card D*

<p>| | | | | | | |</p>
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<thead>
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<tr>
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<td>3</td>
<td>Less than once per month</td>
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<td>98</td>
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<td>DK/R</td>
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</table>
During ____, how often did you eat other fish besides fried fish (including tuna and shrimp)?

*Interviewer: show card D*

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<th>Option</th>
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</tr>
<tr>
<td>98</td>
<td>NA</td>
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<tr>
<td>99</td>
<td>DK/R</td>
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</tbody>
</table>

What was your usual serving size of other fish besides fried fish?

*Interviewer: compared to these examples*

<table>
<thead>
<tr>
<th>Option</th>
<th>Serving Size</th>
</tr>
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<tbody>
<tr>
<td>1-80</td>
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<td>98</td>
<td>NA</td>
</tr>
<tr>
<td>99</td>
<td>DK/R</td>
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</tbody>
</table>

During ____, when you ate other fish besides fried fish, how often was it oven-broiled?

*Interviewer: show card D*
During ____ , when you ate other fish besides fried fish, how often was it baked?

*Interviewer: show card D*

1. Never
2. Less than once per month
3. Once per month
4. 2-3 times per month
5. Once per week
6. Twice per week
7. 3-4 times per week
8. 5-6 times per week
9. Once per day
10. Two or more times per day
11. NA
12. DK/R

During ____ , when you ate other fish besides fried fish, how often was it in a casserole?

*Interviewer: show card D*

1. Never
2. Less than once per month
3. Once per month
4. 2-3 times per month
5. Once per week
6. Twice per week
7. 3-4 times per week
8. 5-6 times per week
9. Once per day
10. Two or more times per day
11. NA
12. DK/R
During ____, when you ate other fish besides fried fish, how often was it in a salad?

Interviewer: show card D

ie. tuna salad, with mayo, cucumber, pickles, etc.

1 ☐ Never
2 ☐ Less than once per month
3 ☐ Once per month
4 ☐ 2-3 times per month
5 ☐ Once per week
6 ☐ Twice per week
7 ☐ 3-4 times per week
8 ☐ 5-6 times per week
9 ☐ Once per day
10 ☐ Two or more times per day
98 ☐ NA
99 ☐ DK/R

During ____, when you ate other fish besides fried fish, how often was it prepared in a way that I have not mentioned?

Interviewer: show card D

1 ☐ Never
2 ☐ Less than once per month
3 ☐ Once per month
4 ☐ 2-3 times per month
5 ☐ Once per week
6 ☐ Twice per week
7 ☐ 3-4 times per week
8 ☐ 5-6 times per week
9 ☐ Once per day
10 ☐ Two or more times per day
During ____, how often did you eat roast beef (including sandwiches)?

Interviewer: show card D

1 □ Never [go to D16a]
3 □ Less than once per month
5 □ Once per month
7 □ 2-3 times per month
9 □ Once per week
11 □ Twice per week
13 □ 3-4 times per week
15 □ 5-6 times per week
17 □ Once per day
19 □ Two or more times per day
98 □ NA
99 □ DK/R

What was your usual serving size of roast beef?

Interviewer: compared to these examples

1-80 □ oz
98 □ NA
99 □ DK/R

During ____, how often did you eat beef stew or potpie with carrots or other vegetables?

Interviewer: show card D
<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Never [go to D17a]</td>
</tr>
<tr>
<td>3</td>
<td>Less than once per month</td>
</tr>
<tr>
<td>5</td>
<td>Once per month</td>
</tr>
<tr>
<td>7</td>
<td>2-3 times per month</td>
</tr>
<tr>
<td>9</td>
<td>Once per week</td>
</tr>
<tr>
<td>11</td>
<td>Twice per week</td>
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<tr>
<td>13</td>
<td>3-4 times per week</td>
</tr>
<tr>
<td>15</td>
<td>5-6 times per week</td>
</tr>
<tr>
<td>17</td>
<td>Once per day</td>
</tr>
<tr>
<td>19</td>
<td>Two or more times per day</td>
</tr>
<tr>
<td>98</td>
<td>NA</td>
</tr>
<tr>
<td>99</td>
<td>DK/R</td>
</tr>
</tbody>
</table>

What was your usual serving size of beef stew or potpie with carrots or other vegetables?

**Interviewer: compared to this example**

1-80 oz

98 NA

99 DK/R

During ____ how often did you eat other ground beef (include meat loaf or taco)?

**Interviewer: show card D1**

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Never [go to D18a]</td>
</tr>
<tr>
<td>3</td>
<td>Less than once per month</td>
</tr>
<tr>
<td>5</td>
<td>Once per month</td>
</tr>
<tr>
<td>7</td>
<td>2-3 times per month</td>
</tr>
<tr>
<td>9</td>
<td>Once per week</td>
</tr>
<tr>
<td>11</td>
<td>Twice per week</td>
</tr>
<tr>
<td>13</td>
<td>3-4 times per week</td>
</tr>
<tr>
<td>15</td>
<td>5-6 times per week</td>
</tr>
<tr>
<td>17</td>
<td>Once per day</td>
</tr>
<tr>
<td>19</td>
<td>Two or more times per day</td>
</tr>
<tr>
<td>98</td>
<td>NA</td>
</tr>
<tr>
<td>99</td>
<td>DK/R</td>
</tr>
</tbody>
</table>

What was your usual serving size of ground beef?
Interviewer: 1 cup = 8 ounces

During ___, how often did you eat meat gravies made with meat drippings?

Interviewer: show card D

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20

What was your usual serving size of meat gravies? __________

Interviewer: compared to this example of 2 tablespoons

1 Tablespoon = 3 teaspoons

1-80 __________ teaspoons

During ___, how often did you eat ham, bologna, salami, and other lunch meats?

(Not including chicken, turkey or roast beef; asked before.)

Interviewer: show card D

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17

What was your usual serving size of ham, bologna, salami, and other luncheon meats?

Interviewer: compared to this example

1-80 ___ oz
98 NA
99 DK/R

During ____, how often did you eat spaghetti, lasagna, or pasta with tomato and meat sauce?

Interviewer: show card D

1 ☐ Never [go to D21a]
3 ☐ Less than once per month
5 ☐ Once per month
7 ☐ 2-3 times per month
9 ☐ Once per week
11 ☐ Twice per week
13 ☐ 3-4 times per week
15 ☐ 5-6 times per week
17 ☐ Once per day
19 ☐ Two or more times per day
98 NA
99 DK/R

What was your usual serving size of spaghetti,
lasagna, or pasta with tomato and meat sauce?  

Interviewer: 1 cup = 8 ounces

1-80 oz
98 [NA]
99 [DK/R]

During ____, how often did you eat soups containing meat such as vegetable beef, chicken, etc?  

Interviewer: show card D

1 [Never [go to D22a]]
3 [Less than once per month]
5 [Once per month]
7 [2-3 times per month]
9 [Once per week]
11 [Twice per week]
13 [3-4 times per week]
15 [5-6 times per week]
17 [Once per day]
19 [Two or more times per day]
98 [NA]
99 [DK/R]

What was your usual serving size of soups containing meat such as vegetable beef, chicken, etc?  

Interviewer: 1 cup = 8 ounces

1-80 oz
98 [NA]
99 [DK/R]

During ____, how often did you eat toast at any meal?  

Interviewer: show card D

1 [Never [go to D23a]]
3 [Less than once per month]
5 [Once per month]
What was your usual serving size of toast?
*Interviewer: in number of slices*

1-80 (slices)
98 NA
99 DK/R

During , when you ate the toast, how was it usually toasted?
*Interviewer: show card D2*

1 Did not eat
3 Light
5 Medium
7 Dark
9 Very dark
98 NA
99 DK/R
During ____, how often did you eat fried bread (2 hushpuppies = 1 slice)?

1  □ Never [go to D24a]
2  □ Less than once per month
3  □ Once per month
4  □ 2-3 times per month
5  □ Once per week
6  □ Twice per week
7  □ 3-4 times per week
8  □ Once per day
9  □ Twice per day
10 □ Two or more times per day
98 □ NA
99 □ DK/R

What was your usual serving size of fried bread (2 hushpuppies = 1 slice)?

Interviewer: in number of slices

1-80     slices
98 □ NA
99 □ DK/R

During ____, how often did you eat fats, saved after cooking, on bread, for example, bacon fat?

1  □ Never [go to D26a]
2  □ Less than once per month
3  □ Once per month
4  □ 2-3 times per month
5  □ Once per week
6  □ Twice per week
7  □ 3-4 times per week
8  □ Once per day
9  □ Two or more times per day
98 □ DK
99 □ R
What was your usual serving size of fats on bread that were saved after cooking?

*Interviewer: In number of slices*

<table>
<thead>
<tr>
<th>Slices</th>
<th>1-80</th>
<th>98</th>
<th>99</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>NA</td>
<td>DK/R</td>
</tr>
</tbody>
</table>

During ____, when you ate hamburgers or cheeseburgers, how were they usually cooked?

*Interviewer: show card D4*

<table>
<thead>
<tr>
<th></th>
<th>1</th>
<th>3</th>
<th>5</th>
<th>7</th>
<th>9</th>
<th>11</th>
<th>13</th>
</tr>
</thead>
<tbody>
<tr>
<td>Did not eat</td>
<td>☐</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rare</td>
<td></td>
<td>☐</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Medium rare</td>
<td></td>
<td></td>
<td>☐</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Medium</td>
<td></td>
<td></td>
<td></td>
<td>☐</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Medium well</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>☐</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Well-done</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>☐</td>
<td></td>
</tr>
<tr>
<td>Very well-done</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>☐</td>
</tr>
<tr>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>☐</td>
</tr>
<tr>
<td>DK/R</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>☐</td>
</tr>
</tbody>
</table>

During ____, when you ate steak, how was it usually cooked?

*Interviewer: show card D4*

<table>
<thead>
<tr>
<th></th>
<th>1</th>
<th>3</th>
<th>5</th>
<th>7</th>
<th>9</th>
<th>11</th>
<th>13</th>
</tr>
</thead>
<tbody>
<tr>
<td>Did not eat</td>
<td>☐</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rare</td>
<td></td>
<td>☐</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Medium rare</td>
<td></td>
<td></td>
<td>☐</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Medium</td>
<td></td>
<td></td>
<td></td>
<td>☐</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Medium well</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>☐</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Well-done</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>☐</td>
<td></td>
</tr>
<tr>
<td>Very well-done</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>☐</td>
</tr>
<tr>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>☐</td>
</tr>
<tr>
<td>DK/R</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>☐</td>
</tr>
</tbody>
</table>
During ____, when you ate chicken, how was it usually cooked?

*Interviewer: show card D5*

1. Did not eat
2. Just until done
3. Well-done
4. Very well-done
5. NA
6. DK/R

During ____, when you ate pork chops or ham steaks, how were they usually cooked?

*Interviewer: show card D5*

1. Did not eat
2. Just until done
3. Well-done
4. Very well-done
5. NA
6. DK/R

During ____, when you ate hot dogs or franks, how were they usually cooked?

*Interviewer: show card D6*

1. Did not eat
2. Just until done
3. Well-done/crisp
4. Charred
5. NA
6. DK/R

During ____, when you ate bacon, how was it usually cooked?

*Interviewer: show card D6*

1. Did not eat
2. Just until done
3. Well-done/crisp
4. Charred
5. NA
6. DK/R
During ____, when you ate sausage, how was it usually cooked?

*Interviewer: show card D6*

- 1 [ ] Did not eat
- 3 [ ] Just until done
- 5 [ ] Well-done/crisp
- 7 [ ] Charred
- 98 [ ] NA
- 99 [ ] DK/R

During ____, when you ate gravies how were they usually cooked?

- 1 [ ] Did not eat
- 3 [ ] Made from meat drippings
- 5 [ ] Store bought cans
- 7 [ ] Store bought packets
- 98 [ ] NA
- 99 [ ] DK/R

During ____, how often did you use the fat from fried bacon in your cooking?

*Interviewer: show card D*

- 1 [ ] Never
- 3 [ ] Less than once per month
- 5 [ ] Once per month
- 7 [ ] 2-3 times per month
- 9 [ ] Once per week
- 11 [ ] Twice per week
- 13 [ ] 3-4 times per week
- 15 [ ] 5-6 times per week
- 17 [ ] Once per day
- 19 [ ] Two or more times per day
- 98 [ ] NA
- 99 [ ] DK/R
In the summer months, how often did you eat grilled or barbecued meats (including beef, pork, chicken, or fish)?

*Interviewer: show card D*

<p>| | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Never</td>
<td>3</td>
<td>Less than once per month</td>
<td>5</td>
<td>Once per month</td>
</tr>
<tr>
<td>7</td>
<td>2-3 times per month</td>
<td>9</td>
<td>Once per week</td>
<td>11</td>
<td>Twice per week</td>
</tr>
<tr>
<td>13</td>
<td>3-4 times per week</td>
<td>15</td>
<td>5-6 times per week</td>
<td>17</td>
<td>Once per day</td>
</tr>
<tr>
<td>19</td>
<td>Two or more times per day</td>
<td>98</td>
<td>NA</td>
<td>99</td>
<td>DK/R</td>
</tr>
</tbody>
</table>

During the remainder of the year, how often did you eat grilled or barbecued meats (including beef, pork, chicken, or fish)?

*Interviewer: show card D*

<p>| | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Never</td>
<td>3</td>
<td>Less than once per month</td>
<td>5</td>
<td>Once per month</td>
</tr>
<tr>
<td>7</td>
<td>2-3 times per month</td>
<td>9</td>
<td>Once per week</td>
<td>11</td>
<td>Twice per week</td>
</tr>
<tr>
<td>13</td>
<td>3-4 times per week</td>
<td>15</td>
<td>5-6 times per week</td>
<td>17</td>
<td>Once per day</td>
</tr>
<tr>
<td>19</td>
<td>Two or more times per day</td>
<td>98</td>
<td>NA</td>
<td>99</td>
<td>DK/R</td>
</tr>
</tbody>
</table>

During ____, when you had grilled or barbecued meats, how often were they charred?

*Interviewer: show card D7*

<p>| | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Never</td>
<td>3</td>
<td>About ¼ of the time</td>
<td>5</td>
<td>About ½ of the time</td>
</tr>
<tr>
<td>7</td>
<td>About ¾ of the time</td>
<td>9</td>
<td>About 100% of the time</td>
<td>11</td>
<td>Did not eat</td>
</tr>
<tr>
<td>98</td>
<td>NA</td>
<td>99</td>
<td>DK/R</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
During ____, when you had pan-fried or oven-broiled meats, how often were they well-browned?  

*Interviewer: show card D7*

1 □ Never  
3 □ About ¼ of the time  
5 □ About ½ of the time  
7 □ About ¾ of the time  
9 □ About 100% of the time  
11 □ Did not eat pan-fried or oven-broiled meats  
98 □ NA  
99 □ DK/R

Now I would like you to look at some photographs of meats which have been cooked to different degrees. (Open book to first set of photos) Please decide which photograph most closely resembles the way meat you eat is cooked. If you eat meat that looks to be between categories, you may indicate that. For example, you would select 2.5 to indicate that the meat you eat looks between pictures 2 and 3.

Let’s start with beef. Please pay special attention to the way hamburger and steaks look inside as well as outside. For example, there is little difference in the internal appearances of the meat between numbers 3 and 4 for both hamburgers and steaks, but there is more browning and charring on the external surface of number 4 as compared to number 3.

During ____, when you ate hamburgers, which picture most closely resembles the way they were usually cooked?  

*Interviewer: show photograph of hamburgers and cheeseburger*

0 □ Did not eat  
0.5 □  
1.0 □  
1.5 □  
2.0 □  
2.5 □  
3.0 □  
3.5 □  
4.0 □  
4.5 □  
98 □ NA
During _____, when you ate steaks, which picture most closely resembles the way they were usually cooked?

(Interviewer: show photograph of steaks)

0 ☐ Did not eat
0.5 ☐
1.0 ☐
1.5 ☐
2.0 ☐
2.5 ☐
3.0 ☐
3.5 ☐
4.0 ☐
4.5 ☐
98 ☐ NA
99 ☐ DK/R

During _____, when you ate ham steaks, which picture most closely resembles the way they were usually cooked?

(Interviewer: show photograph of ham steaks)
During ____, when you pork chops, which picture most closely resembles the way they were usually cooked?

(Interviewer: show photograph of pork chops)

- Did not eat
- 0.5
- 1.0
- 1.5
- 2.0
- 2.5
- 3.0
- 3.5
- 4.0
- 4.5
- 98
- 99

During ____, when you ate hot dogs, which picture most closely resembles the way they were usually cooked?

(Interviewer: show photograph of hot dogs)

- Did not eat
- 0.5
- 1.0
- 1.5
- 2.0
- 2.5
- 3.0
- 3.5
- 4.0
- 4.5
- 98
- 99
During ____, when you ate bacon, which picture most closely resembles the way it was usually cooked?

*(Interviewer: show photograph of bacon)*

0 □ Did not eat
0.5 □
1.0 □
1.5 □
2.0 □
2.5 □
3.0 □
3.5 □
4.0 □
4.5 □
98 □ NA
99 □ DK/R

---

**END OF DIET SECTION**
MEDICAL and FAMILY HISTORY

MEDICAL HISTORY:

Now I am going to ask you about your medical and family history.

Since birth, have you ever had diabetes?  

1 □ Yes  
2 □ No (go to next section)  
98 □ NA  
99 □ DK/R

What was your age when you first learned that you had diabetes?  

1 (enter age)  
97 □ 97 or older  
98 □ NA  
99 □ DK/R

Did you take insulin?  

1 □ Yes  
2 □ No  
98 □ NA  
99 □ DK/R

END OF MEDICAL and FAMILY HISTORY
FAMILY HISTORY:

In this section of the questionnaire I would like to ask you about the health history of your immediate blood relatives. This would include your mother, father, sisters, brothers and children. I am interested in living and deceased members of your family, but I am interested only in your full blood relatives not half or adopted relatives.

I am going to start with your parents. Interviewer: Please read across. ie: complete questions about mother first then move to father.

<table>
<thead>
<tr>
<th>Is your (Relative) still living?</th>
<th>How old is (HE/SHE)?</th>
<th>How old was (HE/SHE) when (HE/SHE) died?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>F002</td>
<td>F003</td>
</tr>
<tr>
<td>F001 Mother</td>
<td>ENTER AGE</td>
<td>ENTER AGE</td>
</tr>
<tr>
<td>1 Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 No (go to F003)</td>
<td>99 DK (go to F004)</td>
<td></td>
</tr>
<tr>
<td>99 DK (go to F004)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>F002 Mother</td>
<td>ENTER AGE</td>
<td>ENTER AGE</td>
</tr>
<tr>
<td>99 DK (go to F004)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>F003 Mother</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Cancer Types (Interviewer: show card E)

1. Skin (not melanoma)  
2. Lung  
3. Breast  
4. Colon  
5. Prostate  
6. Bladder  
7. Brain  
8. Cervix  
9. Kidney  
10. Leukemia  
11. Lymphoma  
12. Melanoma  
13. Oral Cavity  
14. Ovary  
15. Pancreas  
16. Rectum  
17. Stomach  
18. Uterus (corpus uteri)  
19. Other Cancer (specify)  
20. Cancer of female reproductive organs: site unknown  
21. Cancer of the large bowel (colon/rectum) site unknown  
22. Relative had cancer; site unknown  

<table>
<thead>
<tr>
<th>Was your (Relative) ever diagnosed as having any type of cancer?</th>
<th>What was the first type of cancer your (Relative) had?</th>
<th>How old was (HE/SHE) when this cancer was diagnosed?</th>
</tr>
</thead>
<tbody>
<tr>
<td>F004 Mother</td>
<td>F005</td>
<td>F006</td>
</tr>
<tr>
<td>1 Yes</td>
<td>write cancer name and # (see list above)</td>
<td>enter age</td>
</tr>
<tr>
<td>2 No (go to F025a)</td>
<td></td>
<td>000 &lt;1 year old</td>
</tr>
<tr>
<td>99 DK (go to F025a)</td>
<td></td>
<td>99 DK</td>
</tr>
<tr>
<td>F016 Father</td>
<td>F017</td>
<td>F018</td>
</tr>
<tr>
<td>1 Yes</td>
<td></td>
<td>enter age</td>
</tr>
<tr>
<td>2 No (go to F025a)</td>
<td></td>
<td>000 &lt;1 year old</td>
</tr>
<tr>
<td>99 DK (go to F025a)</td>
<td></td>
<td>99 DK</td>
</tr>
</tbody>
</table>
### Cancer Types

<table>
<thead>
<tr>
<th>Number</th>
<th>Type of Cancer</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Skin (not melanoma)</td>
</tr>
<tr>
<td>2</td>
<td>Lung</td>
</tr>
<tr>
<td>3</td>
<td>Breast</td>
</tr>
<tr>
<td>4</td>
<td>Colon</td>
</tr>
<tr>
<td>5</td>
<td>Prostate</td>
</tr>
<tr>
<td>6</td>
<td>Bladder</td>
</tr>
<tr>
<td>7</td>
<td>Brain</td>
</tr>
<tr>
<td>8</td>
<td>Cervix</td>
</tr>
<tr>
<td>9</td>
<td>Kidney</td>
</tr>
<tr>
<td>10</td>
<td>Leukemia</td>
</tr>
<tr>
<td>11</td>
<td>Lymphoma</td>
</tr>
<tr>
<td>12</td>
<td>Melanoma</td>
</tr>
<tr>
<td>13</td>
<td>Oral cavity</td>
</tr>
<tr>
<td>14</td>
<td>Ovary</td>
</tr>
<tr>
<td>15</td>
<td>Pancreas</td>
</tr>
<tr>
<td>16</td>
<td>Rectum</td>
</tr>
<tr>
<td>17</td>
<td>Stomach</td>
</tr>
<tr>
<td>18</td>
<td>Uterine (corpus uteri)</td>
</tr>
<tr>
<td>19</td>
<td>Other cancer (specify)</td>
</tr>
<tr>
<td>20</td>
<td>Cancer of female reproductive organs, site unknown</td>
</tr>
<tr>
<td>21</td>
<td>Cancer of the large bowel (colon/rectum), site unknown</td>
</tr>
<tr>
<td>22</td>
<td>Relative had cancer, site unknown</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Did your (RELATIVE) have any other cancer?</th>
<th>What was the next type of cancer your (RELATIVE) had?</th>
<th>How old was (HE/SHE) when this cancer was diagnosed?</th>
</tr>
</thead>
<tbody>
<tr>
<td>F007 Mother 1 Yes</td>
<td>F008 Mother write cancer name and # (see list above)</td>
<td>F009 Mother enter age 000 &lt;1 year old 99 DK</td>
</tr>
<tr>
<td>2 No (go to F020)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>99 DK (go to F020)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>F019 Father 1 Yes</td>
<td>F020 Father write cancer name and # (see list above)</td>
<td>F021 Father enter age 000 &lt;1 year old 99 DK</td>
</tr>
<tr>
<td>2 No (go to FTX1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>99 DK (go to FTX1)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Did your (RELATIVE) have any other cancer?</th>
<th>What was the next type of cancer your (RELATIVE) had?</th>
<th>How old was (HE/SHE) when this cancer was diagnosed?</th>
</tr>
</thead>
<tbody>
<tr>
<td>F010 Mother 1 Yes</td>
<td>F011 Mother write cancer name and # (see list above)</td>
<td>F012 Mother enter age 000 &lt;1 year old 99 DK</td>
</tr>
<tr>
<td>2 No (go to F020)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>99 DK (go to F020)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>F022 Father 1 Yes</td>
<td>F023 Father write cancer name and # (see list above)</td>
<td>F024 Father enter age 000 &lt;1 year old 99 DK</td>
</tr>
<tr>
<td>2 No (go to FTX1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>99 DK (go to FTX1)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Now I would like to ask you the same questions about your full brothers and sisters. Please include those who are living or deceased, but do not include adopted, foster, half or step brothers and sisters.

How many full brothers and sisters do you have? Again, please include any who may have died.

F025a brothers ______ enter number

0  □  None
98 □  NA
99 □  DK/R

F025b sisters ______ enter number

0  □  None
98 □  NA
99 □  DK/R

Interviewer: Enter total number of siblings ______
Note: a response followed by an alphanumeric in brackets: (FXXX) indicates that if this response is given, the interviewer should proceed to the question described by the alphanumeric. Interviewers should complete each page from top to bottom before asking the next set of questions in the numeric sequence. For example, complete name column first then go back to first sibling and ask questions across a row. In order to be consistent, it is important that each question be asked and each response be recorded in a similar manner. Therefore, all interviewers must follow the same technique.

<table>
<thead>
<tr>
<th>What are the first names of your brothers or sisters?</th>
<th>What is (names) sex?</th>
<th>Is (name) still living?</th>
<th>How old is (name)?</th>
<th>How old was (name) when (he/she) died?</th>
</tr>
</thead>
<tbody>
<tr>
<td>F026 oldest</td>
<td>F027 Male</td>
<td>F028 Yes</td>
<td>F029 enter age</td>
<td>F030 enter age</td>
</tr>
<tr>
<td>98 NA (F027)</td>
<td>2 Female</td>
<td>99 DK</td>
<td>99 DK (F031)</td>
<td>00&lt;1 year old</td>
</tr>
<tr>
<td>99 DK/R</td>
<td></td>
<td></td>
<td></td>
<td>99 DK (F031)</td>
</tr>
<tr>
<td>F040 next</td>
<td>F041 Male</td>
<td>F042 Yes</td>
<td>F043 enter age</td>
<td>F044 enter age</td>
</tr>
<tr>
<td>00 None [nxt sec]</td>
<td>2 Female</td>
<td>2 No (F044)</td>
<td></td>
<td>00&lt;1 year old</td>
</tr>
<tr>
<td>99 DK</td>
<td>99 DK (F045)</td>
<td></td>
<td></td>
<td>99 DK (F045)</td>
</tr>
<tr>
<td>F054 next</td>
<td>F055 Male</td>
<td>F056 Yes</td>
<td>F057 enter age</td>
<td>F058 enter age</td>
</tr>
<tr>
<td>00 None [nxt sec]</td>
<td>2 Female</td>
<td>2 No (F058)</td>
<td></td>
<td>00&lt;1 year old</td>
</tr>
<tr>
<td>99 DK</td>
<td>99 DK (F059)</td>
<td></td>
<td></td>
<td>99 DK (F059)</td>
</tr>
<tr>
<td>F068 next</td>
<td>F069 Male</td>
<td>F070 Yes</td>
<td>F071 enter age</td>
<td>F072 enter age</td>
</tr>
<tr>
<td>00 None [nxt sec]</td>
<td>2 Female</td>
<td>2 No (F072)</td>
<td></td>
<td>00&lt;1 year old</td>
</tr>
<tr>
<td>99 DK</td>
<td>99 DK (F073)</td>
<td></td>
<td></td>
<td>99 DK (F073)</td>
</tr>
<tr>
<td>F082 next</td>
<td>F083 Male</td>
<td>F084 Yes</td>
<td>F085 enter age</td>
<td>F086 enter age</td>
</tr>
<tr>
<td>00 None [nxt sec]</td>
<td>2 Female</td>
<td>2 No (F086)</td>
<td></td>
<td>00&lt;1 year old</td>
</tr>
<tr>
<td>99 DK</td>
<td>99 DK (F087)</td>
<td></td>
<td></td>
<td>99 DK (F087)</td>
</tr>
<tr>
<td>F096 next</td>
<td>F097 Male</td>
<td>F098 Yes</td>
<td>F099 enter age</td>
<td>F100 enter age</td>
</tr>
<tr>
<td>00 None [nxt sec]</td>
<td>2 Female</td>
<td>2 No (F100)</td>
<td></td>
<td>00&lt;1 year old</td>
</tr>
<tr>
<td>99 DK</td>
<td>99 DK (F101)</td>
<td></td>
<td></td>
<td>99 DK (F101)</td>
</tr>
<tr>
<td>F110 next</td>
<td>F111 Male</td>
<td>F112 Yes</td>
<td>F113 enter age</td>
<td>F114 enter age</td>
</tr>
<tr>
<td>00 None [nxt sec]</td>
<td>2 Female</td>
<td>2 No (F114)</td>
<td></td>
<td>00&lt;1 year old</td>
</tr>
<tr>
<td>99 DK</td>
<td>99 DK (F115)</td>
<td></td>
<td></td>
<td>99 DK (F115)</td>
</tr>
</tbody>
</table>

Interviewer: write the total number of siblings here:___________.
Write in brothers’ and sisters’ first names on following pages now.
[nxt sec] = questions of medical history of children
## Cancer Types

1. Skin (not melanoma)
2. Lung
3. Breast
4. Colon
5. Prostate
6. Bladder
7. Brain
8. Cervix
9. Kidney
10. Leukemia
11. Lymphoma
12. Melanoma
13. Oral cavity
14. Ovary
15. Pancreas
16. Rectum
17. Stomach
18. Uterine (corpus uteri)
19. Other cancer (specify)
20. Cancer of female reproductive organs: site unknown
21. Cancer of the large bowel (colon/rectum), site unknown
22. Relative had cancer: site unknown

### Questionnaire:

<table>
<thead>
<tr>
<th>Was (first name) ever diagnosed as having any type of cancer?</th>
<th>What was the first type of cancer (NAME) had?</th>
<th>How old was (HE/SHE) when this cancer was diagnosed?</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Yes F031 F032/No (F045) sibling name</td>
<td>F033 enter age</td>
<td>00&lt;1 year old</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DK (F034)</td>
</tr>
<tr>
<td>2. Yes F045 F046/No [nxt sec] sibling name</td>
<td>F047 enter age</td>
<td>00&lt;1 year old</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DK (F048)</td>
</tr>
<tr>
<td>3. Yes F059 F060/No [nxt sec] sibling name</td>
<td>F061 enter age</td>
<td>00&lt;1 year old</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DK (F062)</td>
</tr>
<tr>
<td>4. Yes F073 F074/No [nxt sec] sibling name</td>
<td>F075 enter age</td>
<td>00&lt;1 year old</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DK (F076)</td>
</tr>
<tr>
<td>5. Yes F087 F088/No [nxt sec] sibling name</td>
<td>F089 enter age</td>
<td>00&lt;1 year old</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DK (F090)</td>
</tr>
<tr>
<td>6. Yes F101 F102/No [nxt sec] sibling name</td>
<td>F103 enter age</td>
<td>00&lt;1 year old</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DK (F104)</td>
</tr>
<tr>
<td>7. Yes F115 F116/No [nxt sec] sibling name</td>
<td>F117 enter age</td>
<td>00&lt;1 year old</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DK (F118)</td>
</tr>
</tbody>
</table>

**Interviewer:** write the total number of siblings here: ____________________.
**Cancer Types**

1. Skin (not melanoma)
2. Lung
3. Breast
4. Colon
5. Prostate
6. Bladder
7. Brain
8. Cervix
9. Kidney
10. Leukemia
11. Lymphoma
12. Melanoma
13. Oral Cavity
14. Ovary
15. Pancreas
16. Rectum
17. Stomach
18. Uterine (corpus uteri)
19. Other cancer (specify)
20. Cancer of female reproductive organs; site unknown
21. Cancer of the large bowel (colon/rectum), site unknown
22. Relative had cancer; site unknown

<table>
<thead>
<tr>
<th>Did (first name) have any other cancer?</th>
<th>What was the second type of cancer (NAME) had?</th>
<th>How old was (HE/SHE) when this cancer was diagnosed?</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 F034</td>
<td>F035</td>
<td>F036 enter age</td>
</tr>
<tr>
<td>1 Yes</td>
<td>write in cancer name and #</td>
<td>00 &lt;1 year old</td>
</tr>
<tr>
<td>2 No [nxt sec] sibling name</td>
<td>(see list above)</td>
<td>99 DK (F037)</td>
</tr>
<tr>
<td>99 DK</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 F048</td>
<td>F049</td>
<td>F050 enter age</td>
</tr>
<tr>
<td>1 Yes</td>
<td>write in cancer name and #</td>
<td>00 &lt;1 year old</td>
</tr>
<tr>
<td>2 No [nxt sec] sibling name</td>
<td>(see list above)</td>
<td>99 DK (F051)</td>
</tr>
<tr>
<td>99 DK</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 F062</td>
<td>F063</td>
<td>F064 enter age</td>
</tr>
<tr>
<td>1 Yes</td>
<td>write in cancer name and #</td>
<td>00 &lt;1 year old</td>
</tr>
<tr>
<td>2 No [nxt sec] sibling name</td>
<td>(see list above)</td>
<td>99 DK (F065)</td>
</tr>
<tr>
<td>99 DK</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 F076</td>
<td>F077</td>
<td>F078 enter age</td>
</tr>
<tr>
<td>1 Yes</td>
<td>write in cancer name and #</td>
<td>00 &lt;1 year old</td>
</tr>
<tr>
<td>2 No [nxt sec] sibling name</td>
<td>(see list above)</td>
<td>99 DK (F079)</td>
</tr>
<tr>
<td>99 DK</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 F090</td>
<td>F091</td>
<td>F092 enter age</td>
</tr>
<tr>
<td>1 Yes</td>
<td>write in cancer name and #</td>
<td>00 &lt;1 year old</td>
</tr>
<tr>
<td>2 No [nxt sec] sibling name</td>
<td>(see list above)</td>
<td>99 DK (F093)</td>
</tr>
<tr>
<td>99 DK</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6 F104</td>
<td>F105</td>
<td>F106 enter age</td>
</tr>
<tr>
<td>1 Yes</td>
<td>write in cancer name and #</td>
<td>00 &lt;1 year old</td>
</tr>
<tr>
<td>2 No [nxt sec] sibling name</td>
<td>(see list above)</td>
<td>99 DK (F107)</td>
</tr>
<tr>
<td>99 DK</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7 F118</td>
<td>F119</td>
<td>F120 enter age</td>
</tr>
<tr>
<td>1 Yes</td>
<td>write in cancer name and #</td>
<td>00 &lt;1 year old</td>
</tr>
<tr>
<td>2 No [nxt sec] sibling name</td>
<td>(see list above)</td>
<td>99 DK (F121)</td>
</tr>
<tr>
<td>99 DK</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Interviewer: write the total number of siblings here:** __________________________.
## Cancer Types

1. Skin (not melanoma)  
2. Lung  
3. Breast  
4. Colon  
5. Prostate  
6. Bladder  
7. Brain  
8. Cervix  
9. Kidney  
10. Leukemia  
11. Lymphoma  
12. Melanoma  
13. Oral Cavity  
14. Ovary  
15. Pancreas  
16. Rectum  
17. Stomach  
18. Uterine (corpus uteri)  
19. Other cancer (specify)  
20. Cancer of female reproductive organs; site unknown  
21. Cancer of the large bowel (colon/rectum); site unknown  
22. Relative had cancer; site unknown

<table>
<thead>
<tr>
<th>Did (first name) have any other cancer?</th>
<th>What was the third type of cancer (NAME) had?</th>
<th>How old was (HE/SHE) when this cancer was diagnosed?</th>
</tr>
</thead>
</table>
| 1. F037                                 | F038 write in cancer name and # (see list above) | F039 enter age  
00 | < 1 year old  
99 | DK (F124) |
| 2. F051                                 | F052 write in cancer name and # (see list above) | F053 enter age  
00 | < 1 year old  
99 | DK (F138) |
| 3. F065                                 | F066 write in cancer name and # (see list above) | F067 enter age  
00 | < 1 year old  
99 | DK (F152) |
| 4. F079                                 | F080 write in cancer name and # (see list above) | F081 enter age  
00 | < 1 year old  
99 | DK (F166) |
| 5. F093                                 | F094 write in cancer name and # (see list above) | F095 enter age  
00 | < 1 year old  
99 | DK (F180) |
| 6. F107                                 | F108 write in cancer name and # (see list above) | F109 enter age  
00 | < 1 year old  
99 | DK (F194) |
| 7. F121                                 | F122 write in cancer name and # (see list above) | F123 enter age  
00 | < 1 year old  
99 | DK (F208) |

**Interviewers: write the total number of siblings here: ___________________________.**
<table>
<thead>
<tr>
<th>What is the first name of your (next) brother or sister?</th>
<th>What is (name) sex?</th>
<th>Is (name) still living?</th>
<th>How old is (name)?</th>
<th>How old was (name) when he/she died?</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 F124</td>
<td>F125 1 Male</td>
<td>F126 1 Yes</td>
<td>F127 _____ enter age</td>
<td>F128 _____ enter age</td>
</tr>
<tr>
<td>______ name</td>
<td>2 Female</td>
<td>2 No (F128)</td>
<td>99 □ DK (F129)</td>
<td>00 □ &lt;1 year old</td>
</tr>
<tr>
<td>00 □ None</td>
<td>99 □ DK</td>
<td></td>
<td></td>
<td>99 □ DK (F129)</td>
</tr>
<tr>
<td>9 F138</td>
<td>F139 1 Male</td>
<td>F140 1 Yes</td>
<td>F141 _____ enter age</td>
<td>F142 _____ enter age</td>
</tr>
<tr>
<td>______ name</td>
<td>2 Female</td>
<td>2 No (F142)</td>
<td>99 □ DK (F143)</td>
<td>00 □ &lt;1 year old</td>
</tr>
<tr>
<td>00 □ None</td>
<td>99 □ DK</td>
<td></td>
<td></td>
<td>99 □ DK (F143)</td>
</tr>
<tr>
<td>10 F152</td>
<td>F153 1 Male</td>
<td>F154 1 Yes</td>
<td>F155 _____ enter age</td>
<td>F156 _____ enter age</td>
</tr>
<tr>
<td>______ name</td>
<td>2 Female</td>
<td>2 No (F156)</td>
<td>99 □ DK (F143)</td>
<td>00 □ &lt;1 year old</td>
</tr>
<tr>
<td>00 □ None</td>
<td>99 □ DK</td>
<td></td>
<td></td>
<td>99 □ DK (F157)</td>
</tr>
<tr>
<td>11 F166</td>
<td>F167 1 Male</td>
<td>F168 1 Yes</td>
<td>F169 _____ enter age</td>
<td>F170 _____ enter age</td>
</tr>
<tr>
<td>______ name</td>
<td>2 Female</td>
<td>2 No (F170)</td>
<td>99 □ DK (F143)</td>
<td>00 □ &lt;1 year old</td>
</tr>
<tr>
<td>00 □ None</td>
<td>99 □ DK</td>
<td></td>
<td></td>
<td>99 □ DK (F171)</td>
</tr>
<tr>
<td>12 F180</td>
<td>F181 1 Male</td>
<td>F182 1 Yes</td>
<td>F183 _____ enter age</td>
<td>F184 _____ enter age</td>
</tr>
<tr>
<td>______ name</td>
<td>2 Female</td>
<td>2 No (F184)</td>
<td>99 □ DK (F143)</td>
<td>00 □ &lt;1 year old</td>
</tr>
<tr>
<td>00 □ None</td>
<td>99 □ DK</td>
<td></td>
<td></td>
<td>99 □ DK (F185)</td>
</tr>
<tr>
<td>13 F194</td>
<td>F195 1 Male</td>
<td>F196 1 Yes</td>
<td>F197 _____ enter age</td>
<td>F198 _____ enter age</td>
</tr>
<tr>
<td>______ name</td>
<td>2 Female</td>
<td>2 No (F198)</td>
<td>99 □ DK (F143)</td>
<td>00 □ &lt;1 year old</td>
</tr>
<tr>
<td>00 □ None</td>
<td>99 □ DK</td>
<td></td>
<td></td>
<td>99 □ DK (F199)</td>
</tr>
<tr>
<td>14 F208</td>
<td>F209 1 Male</td>
<td>F210 1 Yes</td>
<td>F211 _____ enter age</td>
<td>F212 _____ enter age</td>
</tr>
<tr>
<td>______ name</td>
<td>2 Female</td>
<td>2 No (F212)</td>
<td>99 □ DK (F143)</td>
<td>00 □ &lt;1 year old</td>
</tr>
<tr>
<td>00 □ None</td>
<td>99 □ DK</td>
<td></td>
<td></td>
<td>99 □ DK (F213)</td>
</tr>
</tbody>
</table>

Interviewer: write the total number of siblings here: ________________.
**Cancer Types**

1. Skin (not melanoma)
2. Lung
3. Breast
4. Colon
5. Prostate
6. Bladder
7. Brain
8. Cervix
9. Kidney
10. Leukemia
11. Lymphoma
12. Melanoma
13. Oral cavity
14. Ovary
15. Pancreas
16. Rectum
17. Stomach
18. Uterine (corpus uteri)
19. Other cancer (specify)
20. Cancer of female reproductive organs; site unknown
21. Cancer of the large bowel (colon/rectum); site unknown
22. Relative had cancer, site unknown

<table>
<thead>
<tr>
<th>#</th>
<th>Was (first name) ever diagnosed as having any type of cancer?</th>
<th>What was the first type of cancer (NAME) had?</th>
<th>How old was (HE/SHE) when this cancer was diagnosed?</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>F129</td>
<td>F130</td>
<td>F131 enter age 00 &lt;1 year old 99 DK (F132)</td>
</tr>
<tr>
<td>2</td>
<td>No (F143) name</td>
<td>write in cancer name and # (see list above) 99 DK</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>F143</td>
<td>F144</td>
<td>F145 enter age 00 &lt;1 year old 99 DK (F146)</td>
</tr>
<tr>
<td>2</td>
<td>No [nxt sec] name</td>
<td>write in cancer name and # (see list above)</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>F157</td>
<td>F158</td>
<td>F159 enter age 00 &lt;1 year old 99 DK (F160)</td>
</tr>
<tr>
<td>2</td>
<td>Yes</td>
<td>write in cancer name and # (see list above) 99 DK</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>F171</td>
<td>F172</td>
<td>F173 enter age 00 &lt;1 year old 99 DK (F174)</td>
</tr>
<tr>
<td>2</td>
<td>No [nxt sec] sibling name</td>
<td>write in cancer name and # (see list above)</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>F185</td>
<td>F186</td>
<td>F187 enter age 00 &lt;1 year old 99 DK (F188)</td>
</tr>
<tr>
<td>2</td>
<td>Yes</td>
<td>write in cancer name and # (see list above) 99 DK</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>F199</td>
<td>F200</td>
<td>F201 enter age 00 &lt;1 year old 99 DK (F202)</td>
</tr>
<tr>
<td>2</td>
<td>No [nxt sec] sibling name</td>
<td>write in cancer name and # (see list above)</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>F213</td>
<td>F214</td>
<td>F215 enter age 00 &lt;1 year old 99 DK (F216)</td>
</tr>
<tr>
<td>2</td>
<td>Yes</td>
<td>write in cancer name and # (see list above) 99 DK</td>
<td></td>
</tr>
</tbody>
</table>

Interviewer: write the total number of siblings here: ____________.
Cancer Types

1. Skin (not melanoma) 12. Melanoma
2. Lung 13. Oral cavity
4. Colon 15. Pancreas
5. Prostate 16. Rectum
6. Bladder 17. Stomach
7. Brain 18. Uterine (corpus uteri)
8. Cervix 19. Other cancer (specify)
10. Leukemia 21. Cancer of the large bowel (colon/rectum) site unknown
11. Lymphoma

Did (first name) have any other cancer? What was the second type of cancer (NAME) had? How old was (HE/SHE) when this cancer was diagnosed?

<table>
<thead>
<tr>
<th>Did (first name) have any other cancer?</th>
<th>What was the second type of cancer (NAME) had?</th>
<th>How old was (HE/SHE) when this cancer was diagnosed?</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 F132</td>
<td>F133</td>
<td>F134 enter age (see list above)</td>
</tr>
<tr>
<td>1 Yes</td>
<td>Write in cancer name and #</td>
<td>00 &lt;1 year old</td>
</tr>
<tr>
<td>2 No (F146) sibling name</td>
<td></td>
<td>99 DK</td>
</tr>
<tr>
<td>99 DK</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9 F146</td>
<td>F147</td>
<td>F148 enter age (see list above)</td>
</tr>
<tr>
<td>1 Yes</td>
<td>Write in cancer name and #</td>
<td>00 &lt;1 year old</td>
</tr>
<tr>
<td>2 No [nxt sec] sibling name</td>
<td></td>
<td>99 DK</td>
</tr>
<tr>
<td>99 DK</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10 F160</td>
<td>F161</td>
<td>F162 enter age (see list above)</td>
</tr>
<tr>
<td>1 Yes</td>
<td>Write in cancer name and #</td>
<td>00 &lt;1 year old</td>
</tr>
<tr>
<td>2 No [nxt sec] sibling name</td>
<td></td>
<td>99 DK</td>
</tr>
<tr>
<td>99 DK</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11 F174</td>
<td>F175</td>
<td>F176 enter age (see list above)</td>
</tr>
<tr>
<td>1 Yes</td>
<td>Write in cancer name and #</td>
<td>00 &lt;1 year old</td>
</tr>
<tr>
<td>2 No [nxt sec] sibling name</td>
<td></td>
<td>99 DK</td>
</tr>
<tr>
<td>99 DK</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12 F188</td>
<td>F189</td>
<td>F190 enter age (see list above)</td>
</tr>
<tr>
<td>1 Yes</td>
<td>Write in cancer name and #</td>
<td>00 &lt;1 year old</td>
</tr>
<tr>
<td>2 No [nxt sec] sibling name</td>
<td></td>
<td>99 DK</td>
</tr>
<tr>
<td>99 DK</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13 F202</td>
<td>F203</td>
<td>F204 enter age (see list above)</td>
</tr>
<tr>
<td>1 Yes</td>
<td>Write in cancer name and #</td>
<td>00 &lt;1 year old</td>
</tr>
<tr>
<td>2 No [nxt sec] sibling name</td>
<td></td>
<td>99 DK</td>
</tr>
<tr>
<td>99 DK</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14 F216</td>
<td>F217</td>
<td>F218 enter age (see list above)</td>
</tr>
<tr>
<td>1 Yes</td>
<td>Write in cancer name and #</td>
<td>00 &lt;1 year old</td>
</tr>
<tr>
<td>2 No [nxt sec] sibling name</td>
<td></td>
<td>99 DK</td>
</tr>
<tr>
<td>99 DK</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Interviewer: write the total number of siblings here: ________________.
Cancer Types

1. Skin (not melanoma)  
2. Lung  
3. Breast  
4. Colon  
5. Prostate  
6. Bladder  
7. Brain  
8. Cervix  
9. Kidney  
10. Leukemia  
11. Lymphoma  
12. Melanoma  
13. Oral cavity  
14. Ovary  
15. Pancreas  
16. Rectum  
17. Stomach  
18. Uterine (corpus uteri)  
19. Other cancer (specify)  
20. Cancer of female reproductive organs; site unknown  
21. Cancer of the large bowel (colon/rectum) site unknown  
22. Relative had cancer; site unknown

<table>
<thead>
<tr>
<th>Did (first name) have any other cancer?</th>
<th>What was the third type of cancer (NAME) had?</th>
<th>How old was (HE/SHE) when this cancer was diagnosed?</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 F135</td>
<td>F136</td>
<td>F137 enter age</td>
</tr>
<tr>
<td>1 Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 No (F149) sibling name</td>
<td></td>
<td></td>
</tr>
<tr>
<td>99 DK</td>
<td></td>
<td>00 &lt;1 year old</td>
</tr>
<tr>
<td>9 F149</td>
<td>F150</td>
<td>F151 enter age</td>
</tr>
<tr>
<td>1 Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 No [nxt sec] sibling name</td>
<td></td>
<td></td>
</tr>
<tr>
<td>99 DK</td>
<td></td>
<td>00 &lt;1 year old</td>
</tr>
<tr>
<td>10 F163</td>
<td>F164</td>
<td>F165 enter age</td>
</tr>
<tr>
<td>1 Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 No [nxt sec] sibling name</td>
<td></td>
<td></td>
</tr>
<tr>
<td>99 DK</td>
<td></td>
<td>00 &lt;1 year old</td>
</tr>
<tr>
<td>11 F177</td>
<td>F178</td>
<td>F179 enter age</td>
</tr>
<tr>
<td>1 Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 No [nxt sec] sibling name</td>
<td></td>
<td></td>
</tr>
<tr>
<td>99 DK</td>
<td></td>
<td>00 &lt;1 year old</td>
</tr>
<tr>
<td>12 F191</td>
<td>F192</td>
<td>F193 enter age</td>
</tr>
<tr>
<td>1 Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 No [nxt sec] sibling name</td>
<td></td>
<td></td>
</tr>
<tr>
<td>99 DK</td>
<td></td>
<td>00 &lt;1 year old</td>
</tr>
<tr>
<td>13 F205</td>
<td>F206</td>
<td>F207 enter age</td>
</tr>
<tr>
<td>1 Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 No [nxt sec] sibling name</td>
<td></td>
<td></td>
</tr>
<tr>
<td>99 DK</td>
<td></td>
<td>00 &lt;1 year old</td>
</tr>
<tr>
<td>14 F219</td>
<td>F220</td>
<td>F221 enter age</td>
</tr>
<tr>
<td>1 Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 No [nxt sec] sibling name</td>
<td></td>
<td></td>
</tr>
<tr>
<td>99 DK</td>
<td></td>
<td>00 &lt;1 year old</td>
</tr>
</tbody>
</table>

Interviewer: write the total number of siblings here: __________________.
I would like to ask you the same questions about your children. Again, include those who are living or deceased, but do not include adopted, foster, or step children.

How many children do you have? Again, please include any who may have died.

<table>
<thead>
<tr>
<th># Natural Children</th>
</tr>
</thead>
<tbody>
<tr>
<td>00 □ None</td>
</tr>
<tr>
<td>98 □ NA</td>
</tr>
<tr>
<td>99 □ DK/R</td>
</tr>
</tbody>
</table>

Interviewers please list all children's names in first column then go back to first child and complete information across a row. Enter first name only for each child.

<table>
<thead>
<tr>
<th>What is the first name of your (oldest/next) Child?</th>
<th>What is (name's) sex?</th>
<th>Is (name) still living?</th>
<th>How old is (name)?</th>
<th>How old was (name) when (he/she) died?</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 F223 oldest name</td>
<td>F224 Male 1 Yes</td>
<td>99 DK</td>
<td>F225 enter age</td>
<td>F226 99 DK (F228)</td>
</tr>
<tr>
<td>2 F234 name</td>
<td>F235 Male 1 Yes</td>
<td>99 DK</td>
<td>F236 enter age</td>
<td>F237 99 DK (F239)</td>
</tr>
<tr>
<td>3 F245 name</td>
<td>F246 Male 1 Yes</td>
<td>99 DK</td>
<td>F247 enter age</td>
<td>F248 99 DK (F250)</td>
</tr>
<tr>
<td>4 F256 name</td>
<td>F257 Male 1 Yes</td>
<td>99 DK</td>
<td>F258 enter age</td>
<td>F259 99 DK (F261)</td>
</tr>
<tr>
<td>5 F267 name</td>
<td>F268 Male 1 Yes</td>
<td>99 DK</td>
<td>F269 enter age</td>
<td>F270 99 DK (F272)</td>
</tr>
<tr>
<td>6 F278 name</td>
<td>F279 Male 1 Yes</td>
<td>99 DK</td>
<td>F280 enter age</td>
<td>F281 99 DK (F283)</td>
</tr>
<tr>
<td>7 F289 name</td>
<td>F290 Male 1 Yes</td>
<td>99 DK</td>
<td>F291 enter age</td>
<td>F292 99 DK (F294)</td>
</tr>
</tbody>
</table>
Interviewer: enter total number of children

**Cancer Types**

1. Skin (not melanoma)  
2. Lung  
3. Breast  
4. Colon  
5. Prostate  
6. Bladder  
7. Brain  
8. Cervix  
9. Kidney  
10. Leukemia  
11. Lymphoma  
12. Melanoma  
13. Oral cavity  
14. Ovary  
15. Pancreas  
16. Rectum  
17. Stomach  
18. Uterine (corpus uteri)  
19. Other cancer (specify) site unknown  
20. Cancer of female reproductive organs site unknown  
21. Cancer of the large bowel (colon/rectum) site unknown  
22. Relative had cancer site unknown

<table>
<thead>
<tr>
<th>Was (first name) ever diagnosed as having any type of cancer?</th>
<th>What was the first type of cancer (NAME) had?</th>
<th>How old was (HE/SHE) when this cancer was diagnosed?</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 F228</td>
<td>F229 write in cancer name and # (see list above)</td>
<td>F230 enter age</td>
</tr>
<tr>
<td>1 Yes</td>
<td></td>
<td>00 □ &lt;1 year old</td>
</tr>
<tr>
<td>1 No</td>
<td></td>
<td>99 □ DK (F231)</td>
</tr>
<tr>
<td>2 No</td>
<td></td>
<td>99 □ DK (F231)</td>
</tr>
<tr>
<td>99 DK</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 F239</td>
<td>F240 write in cancer name and # (see list above)</td>
<td>F241 enter age</td>
</tr>
<tr>
<td>1 Yes</td>
<td></td>
<td>00 □ &lt;1 year old</td>
</tr>
<tr>
<td>2 No</td>
<td></td>
<td>99 □ DK (F242)</td>
</tr>
<tr>
<td>99 DK</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 F250</td>
<td>F251 write in cancer name and # (see list above)</td>
<td>F252 enter age</td>
</tr>
<tr>
<td>1 Yes</td>
<td></td>
<td>00 □ &lt;1 year old</td>
</tr>
<tr>
<td>2 No</td>
<td></td>
<td>99 □ DK (F253)</td>
</tr>
<tr>
<td>99 DK</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 F261</td>
<td>F262 write in cancer name and # (see list above)</td>
<td>F263 enter age</td>
</tr>
<tr>
<td>1 Yes</td>
<td></td>
<td>00 □ &lt;1 year old</td>
</tr>
<tr>
<td>2 No</td>
<td></td>
<td>99 □ DK (F264)</td>
</tr>
<tr>
<td>99 DK</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 F272</td>
<td>F273 write in cancer name and # (see list above)</td>
<td>F274 enter age</td>
</tr>
<tr>
<td>1 Yes</td>
<td></td>
<td>00 □ &lt;1 year old</td>
</tr>
<tr>
<td>2 No</td>
<td></td>
<td>99 □ DK (F275)</td>
</tr>
<tr>
<td>99 DK</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6 F283</td>
<td>F284 write in cancer name and # (see list above)</td>
<td>F285 enter age</td>
</tr>
<tr>
<td>1 Yes</td>
<td></td>
<td>00 □ &lt;1 year old</td>
</tr>
<tr>
<td>2 No</td>
<td></td>
<td>99 □ DK (F286)</td>
</tr>
<tr>
<td>99 DK</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7 F294</td>
<td>F295 write in cancer name and #</td>
<td>F296 enter age</td>
</tr>
<tr>
<td>1 Yes</td>
<td></td>
<td>00 □ &lt;1 year old</td>
</tr>
<tr>
<td>2 No</td>
<td></td>
<td>99 □ DK (F297)</td>
</tr>
<tr>
<td>99 DK</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**Interviewer:** write the total number of children here: ____________

**Cancer Types**

1. Skin (not melanoma)  
2. Lung  
3. Breast  
4. Colon  
5. Prostate  
6. Bladder  
7. Brain  
8. Cervix  
9. Kidney  
10. Leukemia  
11. Lymphoma  
12. Melanoma  
13. Oral cavity  
14. Ovary  
15. Pancreas  
16. Rectum  
17. Stomach  
18. Uterine (corpus uteri)  
19. Other cancer (specify)  
20. Cancer of female reproductive organs; site unknown  
21. Cancer of the large bowel (colon/rectum); site unknown  
22. Relative had cancer; site unknown

<table>
<thead>
<tr>
<th>Did (first name) have a second cancer?</th>
<th>What was the second type of cancer (NAME) had?</th>
<th>How old was (HE/SHE) when this cancer was diagnosed?</th>
</tr>
</thead>
</table>
| 1 F231                                 | F232                                          | F233
| 1 Yes 12 <1 year old                  | write in cancer name and # (see list above)  | enter age                                        |
| 2 No child's name                     |                                               | 99 DK (F242)                                     |
| 99 DK (see list above)                |                                               |                                                  |
| 2 F242                                 | F243                                          | F244
| 1 Yes 12 <1 year old                  | write in cancer name and # (see list above)  | enter age                                        |
| 2 No child's name                     |                                               | 99 DK (F253)                                     |
| 99 DK (see list above)                |                                               |                                                  |
| 3 F253                                 | F254                                          | F255
| 1 Yes 12 <1 year old                  | write in cancer name and # (see list above)  | enter age                                        |
| 2 No child's name                     |                                               | 99 DK (F264)                                     |
| 99 DK (see list above)                |                                               |                                                  |
| 4 F264                                 | F265                                          | F266
| 1 Yes 12 <1 year old                  | write in cancer name and # (see list above)  | enter age                                        |
| 2 No child's name                     |                                               | 99 DK (F275)                                     |
| 99 DK (see list above)                |                                               |                                                  |
| 5 F275                                 | F276                                          | F277
| 1 Yes 12 <1 year old                  | write in cancer name and # (see list above)  | enter age                                        |
| 2 No child's name                     |                                               | 99 DK (F286)                                     |
| 99 DK (see list above)                |                                               |                                                  |
| 6 F286                                 | F287                                          | F288
| 1 Yes 12 <1 year old                  | write in cancer name and # (see list above)  | enter age                                        |
| 2 No child's name                     |                                               | 99 DK (F297)                                     |
| 99 DK (see list above)                |                                               |                                                  |
| 7 F297                                 | F298                                          | F299
<p>| 1 Yes 12 &lt;1 year old                  | write in cancer name and # (see list above)  | enter age                                        |
| 2 No child's name                     |                                               | 99 DK (see list above)                           |
| 99 DK (see list above)                |                                               |                                                  |</p>
<table>
<thead>
<tr>
<th>2</th>
<th>No</th>
<th>child's name</th>
<th>write in cancer name and # (see list above)</th>
<th>00</th>
<th>&lt;1 year old</th>
</tr>
</thead>
<tbody>
<tr>
<td>99</td>
<td>DK</td>
<td></td>
<td></td>
<td>99</td>
<td>DK (F300)</td>
</tr>
</tbody>
</table>

*Interviewer: enter the total number of children __________________.*
<table>
<thead>
<tr>
<th></th>
<th>What is the first name of your (oldest/next) Child?</th>
<th>What is (names) sex?</th>
<th>Is (name) still living?</th>
<th>How old is (name)?</th>
<th>How old was (name) when (he/she) died?</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>F300 name</td>
<td>F301 1 Male</td>
<td>F302 1 Yes</td>
<td>F303 enter age</td>
<td>F304 enter age 00 &lt;1 year old 99 DK (F305)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 Female</td>
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<td>99 DK</td>
<td>99 DK</td>
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<tr>
<td>9</td>
<td>F311 name</td>
<td>F312 1 Male</td>
<td>F313 1 Yes</td>
<td>F314 enter age</td>
<td>F315 enter age 00 &lt;1 year old 99 DK (F316)</td>
</tr>
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<td></td>
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<td>2 No (F339)</td>
<td></td>
<td></td>
</tr>
<tr>
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<td>00 None [nxt sec]</td>
<td>99 DK</td>
<td>99 DK</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>F322 name</td>
<td>F323 1 Male</td>
<td>F324 1 Yes</td>
<td>F325 enter age</td>
<td>F326 enter age 00 &lt;1 year old 99 DK (F327)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 Female</td>
<td>2 No (F353)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>00 None [nxt sec]</td>
<td>99 DK</td>
<td>99 DK</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>F333 name</td>
<td>F334 1 Male</td>
<td>F335 1 Yes</td>
<td>F336 enter age</td>
<td>F337 enter age 00 &lt;1 year old 99 DK (F338)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 Female</td>
<td>2 No (F367)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>00 None [nxt sec]</td>
<td>99 DK</td>
<td>99 DK</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>F344 name</td>
<td>F345 1 Male</td>
<td>F346 1 Yes</td>
<td>F347 enter age</td>
<td>F348 enter age 00 &lt;1 year old 99 DK (F349)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 Female</td>
<td>2 No (F381)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>00 None [nxt sec]</td>
<td>99 DK</td>
<td>99 DK</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>F355 name</td>
<td>F356 1 Male</td>
<td>F357 1 Yes</td>
<td>F358 enter age</td>
<td>F359 enter age 00 &lt;1 year old 99 DK (F360)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 Female</td>
<td>2 No (F395)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>00 None [nxt sec]</td>
<td>99 DK</td>
<td>99 DK</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>F366 name</td>
<td>F367 1 Male</td>
<td>F368 1 Yes</td>
<td>F369 enter age</td>
<td>F370 enter age 00 &lt;1 year old 99 DK (F371)</td>
</tr>
<tr>
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<td></td>
<td>2 Female</td>
<td>2 No (F409)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>00 None [nxt sec]</td>
<td>99 DK</td>
<td>99 DK</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Interviewer: enter the total number of children here: ____________.
### Cancer Types

1. Skin (not melanoma)  
2. Lung  
3. Breast  
4. Colon  
5. Prostate  
6. Bladder  
7. Brain  
8. Cervix  
9. Kidney  
10. Leukemia  
11. Lymphoma  
12. Melanoma  
13. Oral cavity  
14. Ovary  
15. Pancreas  
16. Rectum  
17. Stomach  
18. Uterine (corpus uteri)  
19. Other cancer (specify)  
20. Cancer of female reproductive organs; site unknown  
21. Cancer of the large bowel (colon/rectum); site unknown  
22. Relative had cancer; site unknown

### Data Entry Form

<table>
<thead>
<tr>
<th>Was (first name) ever diagnosed as having any type of cancer?</th>
<th>What was the first type of cancer (NAME) had?</th>
<th>How old was (HE/SHE) when this cancer was diagnosed?</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 F305</td>
<td>1 Yes</td>
<td>child’s name</td>
</tr>
<tr>
<td>2 No</td>
<td>write in cancer name and # (see list above)</td>
<td>99 DK (F308)</td>
</tr>
<tr>
<td>9 F316</td>
<td>1 Yes</td>
<td>child’s name</td>
</tr>
<tr>
<td>2 No</td>
<td>write in cancer name and # (see list above)</td>
<td>99 DK (F319)</td>
</tr>
<tr>
<td>10 F327</td>
<td>1 Yes</td>
<td>child’s name</td>
</tr>
<tr>
<td>2 No</td>
<td>write in cancer name and # (see list above)</td>
<td>99 DK (F330)</td>
</tr>
<tr>
<td>11 F338</td>
<td>1 Yes</td>
<td>child’s name</td>
</tr>
<tr>
<td>2 No</td>
<td>write in cancer name and # (see list above)</td>
<td>99 DK (F341)</td>
</tr>
<tr>
<td>12 F349</td>
<td>1 Yes</td>
<td>child’s name</td>
</tr>
<tr>
<td>2 No</td>
<td>write in cancer name and # (see list above)</td>
<td>99 DK (F352)</td>
</tr>
<tr>
<td>13 F360</td>
<td>1 Yes</td>
<td>child’s name</td>
</tr>
<tr>
<td>2 No</td>
<td>write in cancer name and # (see list above)</td>
<td>99 DK (F363)</td>
</tr>
<tr>
<td>14 F371</td>
<td>1 Yes</td>
<td>child’s name</td>
</tr>
<tr>
<td>2 No</td>
<td>write in cancer name and # (see list above)</td>
<td>99 DK (F374)</td>
</tr>
</tbody>
</table>

*Interviewer: enter the total number of children ____________.*
Cancer Types

<table>
<thead>
<tr>
<th>Cancer Type</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Skin (not melanoma)</td>
<td>12. Melanoma</td>
</tr>
<tr>
<td>2. Lung</td>
<td>13. Oral cavity</td>
</tr>
<tr>
<td>4. Colon</td>
<td>15. Pancreas</td>
</tr>
<tr>
<td>5. Prostate</td>
<td>16. Rectum</td>
</tr>
<tr>
<td>6. Bladder</td>
<td>17. Stomach</td>
</tr>
<tr>
<td>7. Brain</td>
<td>18. Uterine (corpus uteri)</td>
</tr>
<tr>
<td>8. Cervix</td>
<td>19. Other cancer (specify)</td>
</tr>
<tr>
<td>10. Leukemia</td>
<td>21. Cancer of the large bowel (colon/rectum) site unknown</td>
</tr>
<tr>
<td>11. Lymphoma</td>
<td>22. Relative had cancer; site unknown</td>
</tr>
</tbody>
</table>

Did (first name) have a second cancer?  What was the second type of cancer (NAME) had?  How old was (HE/SHE) when this cancer was diagnosed?

<table>
<thead>
<tr>
<th></th>
<th>Did (first name) have a second cancer?</th>
<th>What was the second type of cancer (NAME) had?</th>
<th>How old was (HE/SHE) when this cancer was diagnosed?</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>F308</td>
<td>F309</td>
<td>F310 enter age</td>
</tr>
<tr>
<td></td>
<td>1 [ ] Yes ___________________________</td>
<td>: _____________________________________________</td>
<td>00 [ ] &lt;1 year old</td>
</tr>
<tr>
<td></td>
<td>2 [ ] No _____________________________</td>
<td>: _____________________________________________</td>
<td>99 [ ] DK (F319)</td>
</tr>
<tr>
<td>9</td>
<td>F319</td>
<td>F320</td>
<td>F321 enter age</td>
</tr>
<tr>
<td></td>
<td>1 [ ] Yes ___________________________</td>
<td>: _____________________________________________</td>
<td>00 [ ] &lt;1 year old</td>
</tr>
<tr>
<td></td>
<td>2 [ ] No _____________________________</td>
<td>: _____________________________________________</td>
<td>99 [ ] DK (F319)</td>
</tr>
<tr>
<td>10</td>
<td>F330</td>
<td>F331</td>
<td>F332 enter age</td>
</tr>
<tr>
<td></td>
<td>1 [ ] Yes ___________________________</td>
<td>: _____________________________________________</td>
<td>00 [ ] &lt;1 year old</td>
</tr>
<tr>
<td></td>
<td>2 [ ] No _____________________________</td>
<td>: _____________________________________________</td>
<td>99 [ ] DK (F330)</td>
</tr>
<tr>
<td>11</td>
<td>F341</td>
<td>F342</td>
<td>F343 enter age</td>
</tr>
<tr>
<td></td>
<td>1 [ ] Yes ___________________________</td>
<td>: _____________________________________________</td>
<td>00 [ ] &lt;1 year old</td>
</tr>
<tr>
<td></td>
<td>2 [ ] No _____________________________</td>
<td>: _____________________________________________</td>
<td>99 [ ] DK (F341)</td>
</tr>
<tr>
<td>12</td>
<td>F352</td>
<td>F353</td>
<td>F354 enter age</td>
</tr>
<tr>
<td></td>
<td>1 [ ] Yes ___________________________</td>
<td>: _____________________________________________</td>
<td>00 [ ] &lt;1 year old</td>
</tr>
<tr>
<td></td>
<td>2 [ ] No _____________________________</td>
<td>: _____________________________________________</td>
<td>99 [ ] DK (F352)</td>
</tr>
<tr>
<td>13</td>
<td>F363</td>
<td>F364</td>
<td>F365 enter age</td>
</tr>
<tr>
<td></td>
<td>1 [ ] Yes ___________________________</td>
<td>: _____________________________________________</td>
<td>00 [ ] &lt;1 year old</td>
</tr>
<tr>
<td></td>
<td>2 [ ] No _____________________________</td>
<td>: _____________________________________________</td>
<td>99 [ ] DK (F363)</td>
</tr>
<tr>
<td>14</td>
<td>F374</td>
<td>F375</td>
<td>F376 enter age</td>
</tr>
<tr>
<td></td>
<td>1 [ ] Yes ___________________________</td>
<td>: _____________________________________________</td>
<td>00 [ ] &lt;1 year old</td>
</tr>
<tr>
<td></td>
<td>2 [ ] No _____________________________</td>
<td>: _____________________________________________</td>
<td>99 [ ] DK [nxt sec]</td>
</tr>
</tbody>
</table>

Interviewer: enter the total number of children ____________________________.

END OF FAMILY HISTORY SECTION
Women's Questionnaire

Let us begin this section of questions by relating them to specific times in your life. To help you become oriented to that period of time in your life think about where you were living, what your job was at the time, if you were married.

1. What was your weight two years ago? 1-500 _____ lbs. (code directly to nearest pound) 99 □ DK/R

2. What was your weight ten years ago? 1-500 _____ lbs. (code directly to nearest pound) 99 □ DK/R

3. What was your weight twenty years ago? 1-500 _____ lbs. (code directly to nearest pound) 99 □ DK/R

4. What was your weight at age 16? 1-500 _____ lbs. (code directly to nearest pound) 99 □ DK/R

5. What was your height two years ago? _____ ft. _____ in. 99 □ DK/R

6. Approximately how old were you when you had your first menstrual period? 1-96 _____ y.o. 99 □ DK/R

7. At what age did you have your last period? 1-96 _____ y.o. 2 □ still has 98 □ NA 99 □ DK/R

→ If "still has periods", go to Q9

8. Why did your periods stop? 1 □ Menopause

2 □ Hysterectomy

3 □ Chemotherapy, X-Ray, Radiation

4 □ Pills

5 □ Other

98 □ NA 99 □ DK/R

→ If "Other", specify:
17. Do you examine your breasts for lumps?
   Yes ☐ 1
   No ☐ 2
   NA ☐ 98
   DK/R ☐ 99

18. Does your healthcare provider examine your breasts for lumps?
   Yes ☐ 1
   No ☐ 2
   NA ☐ 98
   DK/R ☐ 99

19. Have you ever had a mammogram?
   Yes ☐ 1
   No ☐ 2
   NA ☐ 98
   DK/R ☐ 99

→ If “No”, go to next section

20. When was the last time you had a mammogram?

   _______________/________________________/
   MMYYYY

   NA ☐ 98
   DK/R ☐ 99

21. Where was this mammogram done?

   _____________________________
   Hospital/Clinic name/Radiology group

   _______________________________
   Text
   City

   _______________________________
   Text
   State

22. Enter

23. Enter
This section of the interview concerns your pregnancy history.

24. Have you ever been pregnant?

- Yes [square] 1
- No [square] 2
- DK/R [square] 99

If "No", go to Q 26

25. Please answer the following questions about each of your pregnancies including those that did not result in a live birth.

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
</tr>
</thead>
<tbody>
<tr>
<td>What age did you become pregnant?</td>
<td>What was the outcome?</td>
<td>How many wks did you carry this baby?</td>
<td>What was the baby's sex?</td>
<td>Did you breastfeed this baby?</td>
<td>For how many months?</td>
<td>Why did you stop nursing?</td>
<td>Did you take a shot or pill to dry up your milk?</td>
</tr>
<tr>
<td>98=NA 99=DK/R</td>
<td>1=live birth 2=stillbirth 3=miscarriage 4=abortion 5=tubal pregnancy 8=NA 9=DK/R</td>
<td>98=NA 99=DK/R</td>
<td>1=male 2=female 98=NA 99=DK/R</td>
<td>1=Yes 2=No 98=NA 99=DK/R (if No go to H)</td>
<td>98=NA 99=DK/R</td>
<td>1=normal weaning 2=cracked nipples 3=painful 4=little milk 5=other med 6=other nonmedical 98=NA 99=DK/R</td>
<td>1=Yes shot 2=No 3=Yes pills 4=Yes, DK shot or pill 98=NA 99=DK/R</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>AGE</th>
<th>OUTCOME</th>
<th>WEEKS</th>
<th>SEX</th>
<th>NURSED</th>
<th>Months</th>
<th>STOPPED</th>
<th>DRIED UP?</th>
</tr>
</thead>
<tbody>
<tr>
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<td></td>
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<td></td>
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<td></td>
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<td></td>
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<tr>
<td>9</td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>10</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
“Now I have some questions about the use of hormone medications. The first questions are about hormone replacement therapy, hormones that are taken around the time of menopause. This does not include hormones used for birth control.”

Hormone Replacement Therapy (HRT)

Interviewer: show card F

26. Did you ever take any type of estrogen, such as Premarin, progesterone, such a Provera, testosterone, and other hormone medication (Show Card):
   1) menopause-related symptoms (hot flashes, sweating, vaginal dryness, bladder problems)
   2) depression, anxiety, emotional distress
   3) replacement therapy after hysterectomy or ophorectomy (ovaries removed)
   4) osteoporosis (bone loss), to prevent osteoporosis or bone loss (or thinning)
   5) cardiovascular disease, to prevent cardiovascular disease
   6) irregular menstrual periods, to regulate periods
   7) treatment of disease (specify ____________________________ )
   8) prevention of disease (specify ____________________________ )
   9) anti-estrogen effect in a woman using menopausal estrogens
   10) other ( specify ____________________________ )

These hormones could include pills, vaginal creams or suppositories, injections, or skin patches.

   Yes [1]  
   No [2]  
   DK/R [99]  

If “No”, go to Q33

27. Were these hormones (estrogen, progesterone, or testosterone) in the form of a:
   B. Vaginal Cream or Suppository Yes [1] No [2] DK/R [99]  

28. When you were taking these (hormones), did you take them for 3 straight cycles or more?


If “No”, go to Q33
“Now I would like to ask you some details about your use of these hormones. First, see if you can recognize the specific type(s) you used from this chart.” [show examples]

**29. If Estrogen, Progesterone, or Testosterone Pills Reported**

Complete 29.1-29.12 for each episode of use.

<table>
<thead>
<tr>
<th>Column 1</th>
<th>Column 2</th>
<th>Column 3</th>
<th>Column 4</th>
<th>Column 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>What is the name of the (first/next) pill you took? Enter complete name and code. Probe for frequency and unit of measure. [show examples]</td>
<td>Please tell me the reason you used this pill? [show card]</td>
<td>At what age did you (first/next) start taking this pill?</td>
<td>How many total years and months between (ages in 29.4 and 29.5) did you usually take this pill?</td>
<td>When you were taking this hormone between (ages in 29.4 and 29.5) did you usually take it every day, or in cycles?</td>
</tr>
<tr>
<td>1\textsuperscript{st} Pill</td>
<td>Name:</td>
<td>(specify reason)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Code:</td>
<td>Age start</td>
<td>Age stop</td>
<td></td>
<td></td>
</tr>
<tr>
<td>___ per 1...day #pills 2...week</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>code:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2\textsuperscript{nd} Pill</td>
<td>Name:</td>
<td>(specify reason)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Code:</td>
<td>Age start</td>
<td>Age stop</td>
<td></td>
<td></td>
</tr>
<tr>
<td>___ per 1...day #pills 2...week</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>code:</td>
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<td>(specify reason)</td>
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<td></td>
</tr>
<tr>
<td>Code:</td>
<td>Age start</td>
<td>Age stop</td>
<td></td>
<td></td>
</tr>
<tr>
<td>___ per 1...day #pills 2...week</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>code:</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>4\textsuperscript{th} Pill</td>
<td>Name:</td>
<td>(specify reason)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Code:</td>
<td>Age start</td>
<td>Age stop</td>
<td></td>
<td></td>
</tr>
<tr>
<td>___ per 1...day #pills 2...week</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>code:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

If hormone was estrogen, go to Q29.8. If not, go to 30.
29.8 While you were taking estrogen pills, did you also take progesterone?  
Yes [ ] 1  No [x] 2  → Go to next hormone

---

### 29.9-29.10

**What is the name of the progesterone that you took with this estrogen?**
Enter complete name and code. Probe for frequency and unit of measure. [show examples]

<table>
<thead>
<tr>
<th>Name:</th>
<th>Code:</th>
<th>Start Day</th>
<th>Stop Day</th>
<th>Total Days</th>
<th>When you were taking this progesterone between (ages in 29.4 and 29.5), how often did you take it?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>E</td>
<td>P</td>
<td></td>
<td>9...Every month 11...Every 3rd month 10...Every other month 12...Every 4th month 8...Other (Specify)</td>
</tr>
<tr>
<td>per 1...Day</td>
<td>#Pills 2...Week</td>
<td>E</td>
<td>P</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 29.11-29.12

**During the (first/next) time when you were taking (estrogen) and (progesterone) in the same month, on which days did you usually take the estrogen and on which days did you usually take the progesterone?**
Circle first and last dates of each. Then connect first to last with a line. Enter the Start Day and End Day for Estrogen (E) and Progesterone (P) and record total number days on Estrogen (E), Progesterone (P), and Estrogen plus Progesterone (E+P).
### 30. If Vaginal Cream or Suppository Reported:

Complete 30.1-30.12

<table>
<thead>
<tr>
<th>30.1-30.2</th>
<th>30.3</th>
<th>30.4-30.5</th>
<th>30.6</th>
<th>30.6a</th>
<th>30.7</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>What is the name of the (first/next) vaginal cream or suppository you used?</strong></td>
<td><strong>Please tell me the reason you used this vaginal cream or suppository?</strong></td>
<td><strong>At what age did you (first/next) start taking this vaginal cream or suppository?</strong></td>
<td><strong>How many total years and months between (ages in 30.4 &amp; 30.5) did you use this cream or suppository?</strong></td>
<td><strong>If using hormone, how many applicator-fulls did you use each time?</strong></td>
<td><strong>When were you taking this hormone between (ages in 30.4 and 30.5) did you usually take it every week, or in cycles?</strong></td>
</tr>
<tr>
<td><strong>Enter complete name and code. Probe for frequency and unit of measure.</strong></td>
<td><strong>[show examples]</strong></td>
<td><strong>[show card]</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>1st Crm/Supp</strong></th>
<th>Name:</th>
<th>(specify reason)</th>
<th><strong>Age start</strong></th>
<th><strong>Years</strong></th>
<th><strong>Age stop</strong></th>
<th><strong>Months</strong></th>
<th><strong>#of</strong></th>
<th><strong>Motives</strong></th>
<th><strong>Code:</strong></th>
<th><strong>Age start</strong></th>
<th><strong>Years</strong></th>
<th><strong>Age stop</strong></th>
<th><strong>Months</strong></th>
<th><strong>#of</strong></th>
<th><strong>Motives</strong></th>
<th><strong>Code:</strong></th>
<th><strong>Age start</strong></th>
<th><strong>Years</strong></th>
<th><strong>Age stop</strong></th>
<th><strong>Months</strong></th>
<th><strong>#of</strong></th>
<th><strong>Motives</strong></th>
<th><strong>Code:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>1st Crm/Supp</td>
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<tr>
<td>2nd Crm/Supp</td>
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<td>3rd Crm/Supp</td>
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<td>4th Crm/Supp</td>
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<tr>
<td>5th Crm/Supp</td>
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</tr>
</tbody>
</table>

If hormone was estrogen, go to Q30. If not, go to 33.
30.8 While you were using estrogen (cream/suppository), did you also take progesterone?

Yes [ ] No [ ]

Go to next hormone

30.9-30.10 During the (first/next) time when you were taking estrogen and progesterone in the same month, on which days did you usually take the estrogen and on which days did you usually take the progesterone?

Circle first and last dates of each. Then connect first to last with a line. Enter the Start Day and End Day for Estrogen (E) and Progesterone (P) and record total number days on Estrogen (E), Progesterone (P), and Estrogen plus Progesterone (E+P).

[show examples]

<table>
<thead>
<tr>
<th>Name:</th>
<th>Code:</th>
<th>Start Day</th>
<th>Stop Day</th>
<th>Total Days</th>
</tr>
</thead>
<tbody>
<tr>
<td>_______</td>
<td>_______</td>
<td>_______</td>
<td>_______</td>
<td>_______</td>
</tr>
</tbody>
</table>

When you were taking this progesterone between (ages in 30.4 and 30.5), how often did you take it?

9...Every month 11...Every 3rd month 10...Every other month 12...Every 4th month 8...Other (Specify)

30.11-30.12 When you were taking this progesterone between (ages in 30.4 and 30.5), how often did you take it?

9...Every month 11...Every 3rd month 10...Every other month 12...Every 4th month 8...Other (Specify)
31. If Hormone Skin Patches Reported:

Complete 31.1-31.12 for each episode of use.

<table>
<thead>
<tr>
<th>31.1-31.2</th>
<th>31.3</th>
<th>31.4-31.5</th>
<th>31.6</th>
<th>31.7</th>
</tr>
</thead>
<tbody>
<tr>
<td>What is the name of the hormone skin patch you used? Enter complete name and code. Probe for frequency and unit of measure. [show examples]</td>
<td>Please tell me the reason you used this skin patch? [show card]</td>
<td>At what age did you (first/next) start using these patches?</td>
<td>How many total years and months between (ages in 31.4 and 31.5) did you usually take it every week or in cycles?</td>
<td>When you were using these skin patches between (ages in 31.4 and 31.5) did you usually take it every week or in cycles?</td>
</tr>
<tr>
<td>1st Patch Used Name: ________</td>
<td>(specify reason)</td>
<td>________ Age start</td>
<td>________ Age stop</td>
<td>________ Years and ________ Months</td>
</tr>
<tr>
<td>Code: ________</td>
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<td>code: ________</td>
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<tr>
<td>1...day</td>
<td>1...day</td>
<td>1...day</td>
<td>1...day</td>
<td>1...day</td>
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<td>#times 2...week</td>
<td>#times 2...week</td>
<td>#times 2...week</td>
<td>#times 2...week</td>
<td>#times 2...week</td>
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<td>3...month</td>
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<td>3...month</td>
<td>3...month</td>
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<td>4...year</td>
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<td>4...year</td>
<td>4...year</td>
<td>4...year</td>
</tr>
<tr>
<td>2nd Patch Used Name: ________</td>
<td>(specify reason)</td>
<td>________ Age start</td>
<td>________ Age stop</td>
<td>________ Years and ________ Months</td>
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<tr>
<td>Code: ________</td>
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<td>code: ________</td>
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<td>1...day</td>
<td>1...day</td>
<td>1...day</td>
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<td>1...day</td>
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<tr>
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<td>#times 2...week</td>
<td>#times 2...week</td>
<td>#times 2...week</td>
<td>#times 2...week</td>
</tr>
<tr>
<td>3...month</td>
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<td>3...month</td>
<td>3...month</td>
<td>3...month</td>
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<tr>
<td>4...year</td>
<td>4...year</td>
<td>4...year</td>
<td>4...year</td>
<td>4...year</td>
</tr>
<tr>
<td>3rd Patch Used Name: ________</td>
<td>(specify reason)</td>
<td>________ Age start</td>
<td>________ Age stop</td>
<td>________ Years and ________ Months</td>
</tr>
<tr>
<td>Code: ________</td>
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<td>code: ________</td>
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<td>1...day</td>
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<td>1...day</td>
<td>1...day</td>
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<tr>
<td>#times 2...week</td>
<td>#times 2...week</td>
<td>#times 2...week</td>
<td>#times 2...week</td>
<td>#times 2...week</td>
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<tr>
<td>3...month</td>
<td>3...month</td>
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<td>4...year</td>
<td>4...year</td>
<td>4...year</td>
<td>4...year</td>
<td>4...year</td>
</tr>
<tr>
<td>4th Patch Used Name: ________</td>
<td>(specify reason)</td>
<td>________ Age start</td>
<td>________ Age stop</td>
<td>________ Years and ________ Months</td>
</tr>
<tr>
<td>Code: ________</td>
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<td>code: ________</td>
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<td>1...day</td>
<td>1...day</td>
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<td>1...day</td>
</tr>
<tr>
<td>#times 2...week</td>
<td>#times 2...week</td>
<td>#times 2...week</td>
<td>#times 2...week</td>
<td>#times 2...week</td>
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<td>3...month</td>
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<td>4...year</td>
<td>4...year</td>
<td>4...year</td>
<td>4...year</td>
<td>4...year</td>
</tr>
<tr>
<td>5th Patch Used Name: ________</td>
<td>(specify reason)</td>
<td>________ Age start</td>
<td>________ Age stop</td>
<td>________ Years and ________ Months</td>
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<tr>
<td>Code: ________</td>
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<td>code: ________</td>
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<tr>
<td>#times 2...week</td>
<td>#times 2...week</td>
<td>#times 2...week</td>
<td>#times 2...week</td>
<td>#times 2...week</td>
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<td>3...month</td>
<td>3...month</td>
<td>3...month</td>
</tr>
<tr>
<td>4...year</td>
<td>4...year</td>
<td>4...year</td>
<td>4...year</td>
<td>4...year</td>
</tr>
</tbody>
</table>

If hormone was estrogen, go to Q31.8. If not, go to 32.
### 31.8 While you were using estrogen skin patches, did you also take progesterone?

- Yes [ ]
- No [ ]

---

#### 31.9-31.10

<table>
<thead>
<tr>
<th>Name:</th>
<th>Code:</th>
<th>Start Day</th>
<th>Stop Day</th>
<th>Total Days</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEEE</td>
<td>PPPP</td>
<td>EEEE</td>
<td>PPPP</td>
<td>EEEE</td>
</tr>
</tbody>
</table>

During the (first/next) time when you were taking (estrogen) and (progesterone) in the same month, on which days did you usually take the estrogen and on which days did you usually take the progesterone?

Circle first and last dates of each. Then connect first to last with a line. Enter the Start Day and End Day for Estrogen (E) and Progesterone (P) and record total number days on Estrogen (E), Progesterone (P), and Estrogen plus Progesterone (E+P).

#### 31.11-31.12

**When you were taking this progesterone between (ages in 31.4 and 31.5), how often did you take it?**

- 9...Every month
- 10...Every other month
- 11...Every 3rd month
- 12...Every 4th month
- 8...Other (Specify)

**Example:**

- **Name:**
- **Code:**
- **Start Day:**
  - **Stop Day:**
  - **Total Days:**

---
### 32. If Estrogen, Progesterone, or Testosterone Shots Reported:

Complete 31.1-31.12

<table>
<thead>
<tr>
<th>32.1-32.2</th>
<th>32.3</th>
<th>32.4-32.5</th>
<th>32.6</th>
<th>32.7</th>
</tr>
</thead>
<tbody>
<tr>
<td>What is the name of the (first/next) hormone shot you received? Enter complete name and code. Probe for frequency and unit of measure. [show examples]</td>
<td>Please tell me the reason you received this shot? (specify reason)</td>
<td>At what age did you (first/next) start receiving this hormone shot?</td>
<td>How many total years and months between (ages in 32.4 and 32.5) did you receive these hormone shots?</td>
<td>When you were receiving these hormone shots between (ages in 32.4 and 32.5) did you receive them every month or in cycles?</td>
</tr>
</tbody>
</table>

#### 1st Shot
- Name: __________
- Code: __________
- __per Week...2
- #Times Month...3
- Year...4
- Age start __________
- Age stop __________
- # of Years __________
- # of Months __________
- Every week...6
- Every month...7
- In Cycles (specify)...9

#### 2nd Shot
- Name: __________
- Code: __________
- __per Week...2
- #Times Month...3
- Year...4
- Age start __________
- Age stop __________
- # of Years __________
- # of Months __________
- Every week...6
- Every month...7
- In Cycles (specify)...9

#### 3rd Shot
- Name: __________
- Code: __________
- __per Week...2
- #Times Month...3
- Year...4
- Age start __________
- Age stop __________
- # of Years __________
- # of Months __________
- Every week...6
- Every month...7
- In Cycles (specify)...9

#### 4th Shot
- Name: __________
- Code: __________
- __per Week...2
- #Times Month...3
- Year...4
- Age start __________
- Age stop __________
- # of Years __________
- # of Months __________
- Every week...6
- Every month...7
- In Cycles (specify)...9

#### 5th Shot
- Name: __________
- Code: __________
- __per Week...2
- #Times Month...3
- Year...4
- Age start __________
- Age stop __________
- # of Years __________
- # of Months __________
- Every week...6
- Every month...7
- In Cycles (specify)...9

If hormone was estrogen, go to Q32.8. If not, go to next hormone, Q33.
32.8 While you were taking estrogen shots, did you also take progesterone?

Yes ☐ 1  No ☐ 2  ——Go to next hormone

32.9-32.10  
What is the name of the progesterone that you took with this estrogen shot? Enter complete name and code. Probe for frequency and unit of measure. [show examples]

<table>
<thead>
<tr>
<th>Name:</th>
<th>Code:</th>
<th>Start Day</th>
<th>Stop Day</th>
<th>Total Days</th>
</tr>
</thead>
<tbody>
<tr>
<td>Per 1... Day</td>
<td>#Pills 2... Week</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

32.11-32.12

During the (first/next) time when you were taking (estrogen) and (progesterone) in the same month, on which days did you usually take the estrogen and on which days did you usually take the progesterone?

Circle first and last dates of each. Then connect first to last with a line. Enter the Start Day and End Day for Estrogen (E) and Progesterone (P) and record total number days on Estrogen (E), Progesterone (P), and Estrogen plus Progesterone (E+P).

<table>
<thead>
<tr>
<th>Name:</th>
<th>Code:</th>
<th>Start Day</th>
<th>Stop Day</th>
<th>Total Days</th>
</tr>
</thead>
<tbody>
<tr>
<td>Per 1... Day</td>
<td>#Pills 2... Week</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

When you were taking this progesterone between (ages in 32.4 and 32.5), how often did you take it?

9...Every month 11...Every 3rd month
10...Every other month 12...Every 4th month
8...Other (Specify)
Now I have some questions about the use of other types of female hormones.

33. Did you ever take birth control pills (oral contraceptives) for any reason?
   YES □ 1   NO □ 2 (Go to Q34)   DK/R □ 99

   33.1 At what age did you start taking birth control pills?
       ________y.o. 98 □ NA 99 □ DK/R

   33.2 At what age did you stop taking birth control pills?
       ________y.o. 98 □ NA 99 □ DK/R

   33.3 How many total years and months between
       (ages in 33.1 and 33.2) did you take birth control pills?
       ________yrs & ________months
       (enter in months)

   33.4 Did you use birth control pills before your first
       full-term pregnancy?
       Yes □ 1
       No □ 2
       Never pregnant □ 3
       (Go to Q34)

   33.5 How many total years and months did you use
       birth control pills before your first full-term pregnancy?
       ________yrs & ________months
       (enter in months)

34. Did you ever take DES (diethylstilbestrol)
   Yes □ 1
   No □ 2 (Go to Q35)
   DK/R □ 99

   34.1 At what age did you start taking DES?
       1-96 ________yrs.
       NA □ 98
       DK/R □ 99

   34.2 At what age did you stop taking DES?
       1-96 ________y.o.
       NA □ 98
       DK/R □ 99

   34.3 How many total years and months between (ages in 34.1 and 34.2) did you take DES?
       ________yrs & ________months
       (enter in months)
35. Did you ever take shots called depo-provera (DMPA) for birth control or for any other reason?
   Yes □ 1
   No □ 2 (Go to Q 36)
   DK/R □ 99

35.1-35.2 When you were taking depo-provera shots, how often did you get a shot?
   ____every month □ 1
   ____times 3 months □ 3
   ____year □ 5

35.3 At what age did you start taking depo-provera shots?
   1-96 y.o. □
   NA □ 98
   DK/R □ 99

35.4 At what age did you stop taking depo-provera shots?
   1-96 y.o. □
   NA □ 98
   DK/R □ 99

35.5 How many total years and months between (ages in 35.3 and 35.4) did you take depo-provera shots?
   ____yrs & ____months

36. Have you taken any other female hormone medications that we have not discussed?
   Yes □ 1
   No □ 2 (Go to next section)

36.1 What was the name of the hormone?
   ____________________________________________________________

36.2 What was the reason you took the hormone?
   ____________________________________________________________

36.3 Was this hormone in the form of a:
   A. Pill □
   B. Vaginal Cream or Suppository □
   C. Skin Patch □
   D. Shot □
   E. Not applicable □
That completes this interview on the use of female hormone medications. Thank you very much for your cooperation.

**BODY MEASUREMENTS**

1. **WEIGHT** _______ lbs.  

2. **HEIGHT** _______ ft _______ in=

3. **WAIST** (measured at narrowest point) _______ in

4. **HIP** (measured at widest point) _______ in
These final questions are for statistical purposes only.

What was the total number of persons in your household last year, including yourself?

1-25 enter number of persons
98 NA
99 DK/R

If we need to contact you in the future, it is helpful to know the name of an individual outside your household who will always know your whereabouts. Are you willing to provide us the name, address, and phone number of a close friend or relative who does not live with you?

1 Yes
98 NA
99 DK/R

THIS SECTION ENTER FULL TEXT

Name: __________________________

Interviewer: enter first name first

Street: __________________________

Apt. #__________________________

City________________________________

State________________________________

Zipcode____________________________

Telephone: (___ ___) - ___ ___ - ___ ___

area code
What is [NAME’S] relationship to you?

1. mother
2. father
3. son
4. daughter
5. brother
6. sister
7. step daughter
8. step son
9. daughter-in-law
10. son-in-law
11. friend
0. other (specify)
98. NA
99. DK/R

Do you currently have a valid driver’s license or I.D. card?

1. Yes
2. No
98. NA
99. DK/R

Are you enrolled in Medicare?

1. Yes
2. No
98. NA
99. DK/R

This question asks about your household income last year. Please mark the appropriate box for the income category that best describes your total family income last year.

1. less than 5,000
2. between 5,000 and 10,000
3. between 10,000 and 20,000
4. between 20,000 and 30,000
5. between 30,000 and 40,000
6. between 40,000 and 50,000
7. between 50,000 and 60,000
To help identify participants in our study, we are asking for your social security number. Your providing this information to us is voluntary.

Your answer or refusal to answer will have no effect in any way on your social security benefits. What is your social security number?

Social Security Number ___ ___ ___ - ___ ___ - ___ ___ ___

That completes the interview.

You have been very helpful and I appreciate your time and cooperation.

TIME INTERVIEW COMPLETE ______:_______ am/pm

__________ minutes
(length of interview)
INTERVIEW QUALITY

Where was the interview conducted?

1 □ Respondent’s Home
3 □ Hospital or MD Office
5 □ Nursing Home
6 □ Somewhere else, specify

Excluding yourself and the respondent, how many other people were present during the interview?

0-10 ___ Enter number

If 1003 equals 0, go to 1012.

Were third parties present in all or part of the interview?

1 □ all (go to 1005)
3 □ part
98 □ NA

Which section: demographics

1 □ Spouse
3 □ Other (s)
5 □ Spouse and other (s)
7 □ No one present
98 □ NA

Section: smoking

1 □ Spouse
Section: occupational history

<table>
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Section: diet history

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Section: medical history

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Section: family history

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Section: reproductive history

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Section: lifestyle

1 □ Spouse

3 □ Other (s)
5 □ Spouse and other (s)
7 □ No one present
98 □ NA

QUALITY OF INFORMATION IN SECTION: demographics

1 □ High quality
3 □ Generally reliable
5 □ Questionable
7 □ Unsatisfactory
98 □ NA

QUALITY OF INFORMATION IN SECTION: smoking

1 □ High quality
3 □ Generally reliable
5 □ Questionable
7 □ Unsatisfactory
98 □ NA

QUALITY OF INFORMATION IN SECTION: occupational history

1 □ High quality
3 □ Generally reliable
5 □ Questionable
7 □ Unsatisfactory
98 □ NA
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- **Diet history**: High quality
- **Medical history**: High quality
- **Family history**: High quality
- **Reproductive history**: High Quality
- **Lifestyle**: High Quality
The overall quality of this interview is:

*1 □ High Quality
*3 □ Generally reliable
5 □ Questionable [go to 1024]
7 □ Unsatisfactory [go to 1024]

Interviewer: * go to 1023.

The main reason for the unsatisfactory or questionable quality of information is because:

1 □ Did not know enough information regarding the topic
2 □ Did not want to be more specific
3 □ Did not understand or speak english well
4 □ Was bored or uninterested
5 □ Was upset or depressed
7 □ Had poor hearing or speech
8 □ Was confused by frequent interruptions
9 □ Was emotionally unstable (drunk etc)
10 □ Was physically ill
6 □ Other [specify]
98 □ NA

Was the respondent’s overall cooperation:

1 □ Very good
3 □ Good
5 □ Fair
7 □ Poor

END QUALITY SECTION