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Award Number: DAMD17-02-1-0068

TITLE: Dietary Fat and Vitamin E in Prostate Cancer Risk Among

African Americans and West Africans: A Case Control

Study

PRINCIPAL INVESTIGATOR: Flora A. M. Ukoli, M.D.

Aaron Jackson, M.D. Tanya Agurs-Collins

Kepher Makambi Chiledum Ahaghotu

Usifo Osime

CONTRACTING ORGANIZATION: Howard University

Washington, DC 20060

REPORT DATE: February 2003

TYPE OF REPORT: Annual

PREPARED FOR: U.S. Army Medical Research and Materiel Command

Fort Detrick, Maryland 21702-5012

DISTRIBUTION STATEMENT: Approved for Public Release;

Distribution Unlimited

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20030701 187

REPORT DOCUMENTATION PAGE

Form Approved OMB No. 074-0188

Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing this collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503

1. AGENCY USE ONLY (Leave blank)	2. REPORT DATE	3. REPORT TYPE AND	DATES COVERE	D
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4. TITLE AND SUBTITLE			5. FUNDING N	UMBERS
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Among African Americ	ans and West Afric	cans: A		
Case Control Study				
6. AUTHOR(S):				
Flora A. M. Ukoli, M	.D., Aaron Jackson	n, M.D.,		
Tanya Agurs-Collins,				
Ahaghotu, Usifo Osim				
7. PERFORMING ORGANIZATION NAM	ME(S) AND ADDRESS(ES)		8. PERFORMING	G ORGANIZATION
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Howard University				
Washington, DC 2006	0			
E-Mail: fukoli@howard.e	du			
9. SPONSORING / MONITORING AGE	NCY NAME(S) AND ADDRESS(ES)	10. SPONSORII	NG / MONITORING
U.S. Army Medical Research and M	Intarial Command		AGENCY R	EPORT NUMBER
Fort Detrick, Maryland 21702-5012				
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11. SUPPLEMENTARY NOTES				, , , , , , , , , , , , , , , , , , , ,
12a. DISTRIBUTION / AVAILABILITY				12b. DISTRIBUTION CODE
Approved for Public Rele	ease; Distribution Unl	imited		
13. ABSTRACT (Maximum 200 Words				
The role of dietary fat	and vitamin E in pros	tate cancer ris	k among Afi	rican-Americans,
African migrants and Afr	icans is being invest	igated using a	dietary ass	sessment tool and by
measuring plasma fatty a	cids and vitamin E in	cases and cont	rols. The I	FFQ appropriate for
all three populations ha potential cases have bee	s been developed and	is in the proce	ss of being	g computerized. 39
confirmed cases. Informa	tion about bionsy out	come will be co	em are mist	nergonal telephone
contact. So far plasma c	collected from the par	ticipants is st	ored at -70	O degrees and vet to
be analyzed. Samples wil	l be sent to the labo	ratory in batch	es of 30 (10 cases and 20
controls).				
957 Black men attended t	he prostate cancer so	reenings in the	year 2002	and they will be
selected as age-matched	controls of the confi	rmed cases, 862	(90.0%) are	e between 40 - 79

14. SUBJECT TERMS: 15. NUMBER OF PAGES prostate cancer 50 16. PRICE CODE 17. SECURITY CLASSIFICATION 18. SECURITY CLASSIFICATION 19. SECURITY CLASSIFICATION 20. LIMITATION OF ABSTRACT OF REPORT OF THIS PAGE OF ABSTRACT Unclassified Unclassified Unclassified Unlimited

years, 56(5.8%) are under 40 years, 7(0.7%) are above 80 and 32(3.3) did not report age. The study was advertised at prostate cancer screening events in the past year and this year advertisements will be in the local newspaper, radio and television to attract

participation of newly diagnosed cases in the community.

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INTRODUCTION:

This study has two major arms: The Washington DC protocol and the Nigerian protocol. The Washington DC arm of the study targeted African Americans and African migrants 40 years and older in the Washington metropolitan area. The main objective was to locate prostate cancer cases and select two community-based controls matched for age, zip code and country of origin such that both groups will be compared regarding their dietary risk factors for prostate cancer. The specific nutrients of interest are vitamin E and essential fatty acids. Food items of interest include diary product, dietary fat, dietary supplements, fruits, vegetables, meat, fish and carbohydrate foods. There are two major sources of prostate cancer cases; referrals from urologists and as identified from hospital and community based prostate cancer screening activities.

Statement of Work:

Task 1

Hire research assistant and dietician. (1 - 3 months)

A study dietician with expertise in developing dietary assessment protocols for use in diverse populations has been identified. Dr. Teresita Hernandez agreed to work with the PI to develop dietary data collection and analysis tools in March 2002 and the contract was signed in April 2002.

A part-time research assistant was identified and hired, Claire Tay, and her responsibility is presently limited to data entry. She works under close supervision of the PI and is thus training to administer the questionnaire.

Task 2

Start-Up Phase and Plan Development (1-3 months)

Development of FFQ:

Starting with the FHCRC FFQ and the BLOCK FFQ, African food items were added under the appropriate food groups. The new food list was pilot tested with a few modification with regards to American foods, however the Nigerian collaborators advised that a separate listing of 'African soups and stews' be appended at the end of the study FFQ. They felt that there was a need to capture variation in the use of tomato and greens in cooking giving the recipe variations for soups and stews in that culture.

This completed study FFQ that is appropriate for Americans, African migrants and Africans was then handed over to the study dietician who is to prepare a computer based data entry tool. One of the first activities she under took was to analyze one hundred 24-hour dietary recalls from an African population to inform on correct food grouping. (The 24-hour dietary recall was collected in a previous study from a Nigerian rural community by the PI in 2000)

Food Models:

Food models that were utilized in the previous study are being used in the old form as produced by PI. However the PI in collaboration with the dietician did prepare African recipes and record the equivalent weights of the different serving portions of 10 food items. Equivalent weights of food models used in the study can be determined by weighing appropriate serving portions of real food. Realistic colored pictures of serving portions of 10 major food items have been made. No attempt has been made to see if study participants prefer the pictures of serving models to the models and serving measures. In general participants relate better to picture serving portions of vegetables, rice and spaghetti rather than trying to relate to serving measures such as 'cup' or 'serving spoon'. The dietician will use the recorded weights of the equivalent serving portions of some of the foods in the pictures to develops the computer based nutrition program that will be used to calculate estimates of various nutrient intake.

Contacting Urologists/ Family Physician:

Nine urologists have been contacted and although they all appear to be willing to cooperate, referrals to the study have been low. I am yet to secure a list of black urologists in Washington metropolitan area as I do not want to send out mass invitations to all urologists at one time. This method was used two years ago and the response was very poor. My communication strategy is to meet selected urologists and secure their cooperation on an individual level. Presently 5 of the urologists have agreed to inform their patients about the study when they present with a diagnosis of prostate cancer.

All three family physicians already contacted in person are willing to inform men with abnormal PSA about the study, and one of them has sent me 2 participants already.

Community based recruiting:

A list of African American churches in DC and a list of African churches in DC metropolitan area is now available. Letters of introduction and study flyers were mailed out to churches on the lists. A listing of international food stores in the area was also compiled from the yellow pages and letters of invitation and flyers were mailed out advertising the study. Study flyers are regularly distributed at all prostate cancer screening activities totally 45 events in 2002.

Prostate cancer screening:

There are presently up to 3,400 names on the confidential register for the Howard University Hospital prostate cancer-screening program that includes place of birth, address, home or work telephone numbers and age. From this listing age matched controls of cases accrued will be contacted to see if they would like to participate in the study. We have not started recruiting controls for the study.

Task 3

Training: PI, Research Assistant and Dietician. (2 – 4 months)

The PI has completed the computer based research ethics, human subject protection, institutional review board requirements with regard informed consent and has been responsible for obtaining signed informed consent from participants.

Presently the PI makes the initial telephone contact with potential participants to secure their cooperation and to schedule study visits. The RA is yet to be trained to take over this function.

The PI is still administering the study instruments personally and the RA is yet to be trained on the study instruments. It is very important that the FFQ be administered as in the protocol and that the food models be utilized in a way that does not influence responses. Once the computer program is completed the RA will be trained to use it to interview and enter the dietary information.

Task 4.

Subject Recruitment and Data Collection in Washington DC. (4 - 30 months)

Washington DC:

Monthly prostate cancer screening at the Howard University Cancer Clinic was conducted throughout the year. Monthly outreach prostate cancer screening was also conducted throughout the year at health fairs, churches and shelters, making a total of 45 screening events in 2002, and a total of 1118 men were screened.

All 70 men with abnormal PSA in 2002 were invited to participate in the study by a letter and a personal telephone call by the PI and a visit was scheduled with those who were interested. Dietary and other epidemiological data has been collected from 39 men with abnormal PSA, some of whom are yet to have a prostate biopsy. There are 33 men from 2001 and 30 men from 2000 who have not been contacted. Anthropometric measurements, 30ml of blood and 5ml.of urine has been collected from each participant and stored in microvials at -70 degree awaiting nutrient analysis.

The personal information, 24-hour recall, and the FFQ of the 39 participants is in the process of being entered into a database.

Task 5. & Task 6.: Data analysis and manuscript preparation has not started.

TECHNICAL AND UNEXPECTED DIFFICULTIES

Accruing study cases: Urologist referral versus screening referral:

The challenge in this study is to get prostate cancer cases referred to the study by physicians/urologists. On the whole I have 7 referrals from physicians/urologists. It would appear as if the doctors are more concerned with the issue of treatment at the point of diagnosis and do not want to bother the patient about a study just then. There is an obvious window of opportunity between diagnosis and the commencement of treatment, but I guess the patients are preoccupied with the diagnosis at that point in time. Prostate cancer cases from the cancer registry would most likely already be on treatment. Thus the strategy is to invite all men with

abnormal PSA to participate in the study and to wait for the outcome of their biopsy. The PI has also initiated a prostate cancer support group at Howard University Cancer Center and uses that platform to encourage men with abnormal PSA to see their urologists for a biopsy. The PI will be contacting the men who have participated in the study regarding their biopsy result. So far 4 men have reported negative biopsy and 3 men have reported positive biopsy.

There is a need to find out the administrative cost of doctors referring participants to the study. The PI has planned to look into this as it has been suggested that doctors may not have the time to talk about the study and their office staff may need to be compensated to do that. In order to accrue men with health insurance attempt is being made to approach one of the HMO's and see how study flyers can be displayed in their facility.

Nutrient composition database:

Existing dietary assessment programs and database in the US do not include African foods. The dietician is under contract to develop such a tool for collecting the data and for estimating the fatty-acid and vitamin E intake of individual participants. The dietician is working on the first half of the task. Meanwhile FFQ is collected on hard copy, entered into a database and will be transferred into the study data analysis program when available. Already the PI has quotations from existing nutrient analysis programs (BLOCK FFQ) that can also analyze the data once it is transferred onto the questionnaires before scanning.

DOD HSRRB approval for the Nigerian protocol:

Getting the Nigerian protocol through the DOD HSRRB should be completed before the end of the month. Meanwhile ground work has been completed to commence data collection in Nigeria. The PI has already identified a packaging company that sells product for safe international shipping of diagnostic samples.

KEY ACCOMPLISHMENTS:

- 1. This is one of the first studies to attempt a comparison between African Americans and Africans with regards their dietary prostate cancer risks.
- 2. The Howard University has already approved the study IRB for the second year.
- 3. A FFQ has been developed to capture up to 85% of food items consumed by both African-Americans and by Africans.
- 4. Simple food models have been developed and equivalent weights of serving portions recorded.
- 5. 24-hour recall database for a Nigerian rural community has been developed and the PI and Dietician are planning to publish the findings from that work.
- 6. The PI has maintained connection with the Kennedy Krieger research laboratories for nutrient analysis.
- 7. All men with abnormal prostate cancer screening are contacted and encouraged to visit their urologists and consider a prostate biopsy if indicated.
- 8. There was a media mention of this study and the PI in the Metro section of the Washington Post of Wednesday January 29th 2003 on the Millroy column, following

- which there have been several calls from men interested as potential controls. Advertising the study in the Washington will attract participants.
- 9. 1000 pens bearing the study title and contact telephone number has been distributed and over 2000 flyers have also been distributed at over 40 screening events in the communities.

The study has met most of the set objectives for the first year:

- 1. Established partnership ties with the black community in the Washington area and in Nigeria.
- 2. Identified a cohort of 1118 African American and African men who are potential study cases and study controls.
- 3. Identify urologists/family physicians who are referring new cases to the study and others who are willing to encourage their patients to consider participation.
- 4. Completed demographic and dietary assessment information for 39 men.
- 5. Collected and stored plasma, serum, cells, clot and urine samples for laboratory analysis for 39 men.
- 6. Established a working relationship with a dietician who is experienced with developing dietary assessment tools for diverse populations.
- 7. A detailed FFQ has been development for the study.

REPORTABLE OUTCOME:

- 1. Serum, plasma, clot and cell repository for 39 persons.
- 2. Database (demographic and epidemiologic information) for 39 persons and prostate cancer screening database for 1118 persons.
- 3. The PI has made person appearances at prostate cancer screenings in over 25 churches and community health fairs.
- 4. That there are still men with PSA >= 50ng/ml in the community means that there is a greet need to increase screening activities in the yet to be reached black communities. The PI intends to write a grant to accomplish this task.

CONCLUSION:

This is the first of a three year pilot project and the important strategies have been put in place to meet the study accrual numbers in the next 12-18 months for the Washington DC arm of the study. There is an urgent need to secure the DOD HSRRB approval for the Nigerian arm of the study so that data collection can start there as well. Collecting data from Nigeria would be faster once started.

- 1. The study participation incentive of about \$50 for each participant has been received well. Participants feel appreciated and willing to encourage others to participate.
- 2. There is need for more aggressive media exposure in the local newspapers and news letters, radio and television. Also the study flyer and a letter of introduction about the PI and the study will be mailed to 100 more churches within the next 3 months.
- 3. Family physicians are in a better position to refer cases to the study. By the time they get to the urologist the diagnosis has been concluded and the patients are more concerned with treatment plans rather than in research that does not bear direct benefits for their condition.
- 4. Establish a working relationship with an HMO so as to access their healthy population and their cases for the study.

Pilot Data: Tables and Results from Screening Program

<u>Table 1</u>
Distribution of all men screened in 2002 by RACE

Self-Identified RACE	Ν	%
BLACK	957	85.6
WHITE	90	8.1
SPANISH	22	2.0
ASIAN	18	1.6
OTHER	8	.7
NO ANSWER	22	2 .1
Total	1118	100.0

There were 1118 screenings in the year 2002, 957 were black men and 102(97.1%) were African migrants. 831 of the black men were screening for the first time and 89 of these were African migrants.

Table 2

Distribution of the men who attended the screening program in 2002 by state

STATE	All Men		Black Men		
DC	N 526	% 47.0	N 474	% 49.5	
	020	71.0	717	49.5	
MD	485	43.4	420	43.9	
VA	84	7.5	41	4.3	
OTHERS	22	2.0	22	2.3	
N/A	1	0.1	0	0	
Total	1118	100.0	957	100.0	

<u>Table 3</u>
Health Insurance status of men attending screening program

Insurance	All Me	en	Black I	Black Men	
Status YES	N 704	% 63.0	N 607	% 63.4	
NO	298	26.7	255	26.6	
NO STATED	115	10.4	95	10.0	
Total	1118	100.0	957	100.0	

We have not investigated why insured men want to use this free opportunity. Very few of them are doing so because they already have an abnormal result. It is possible that their insurance does not cover PSA testing.

<u>Table 4</u>

Men Already diagnosed with prostate cancer attending the screening program

Prostate cancer	All men	Black men			
diagnosis	N	%	N	%	
Yes	23	2.1	16	1.7	
No	894	80.0	769	80.4	
Don't Know	5	.4	2	.2	
Not Stated	196	17.6	170	17.8	
Total	1118	100.0	957	100.0	

The study is designed to accrue untreated newly diagnosed men and men diagnosed with prostate cancer within the past year. The PI will contact these 16 men to see if they are eligible as cases in this study.

<u>Table 5</u>
Family history of prostate cancer among first degree relatives of men screened.

Family History of	All men		Black r	nen	
Prostate Cancer	N	%	Ν	%	
Yes	207	18.5	173	18.1	
No	649	58.1	567	59.2	
Don't Know	2	.2	0	0.0	
Not Stated	260	23.3	217	22.7	
Total	1118	100.0	957	100.0	

The 173 men who have a family history of prostate cancer can be approached to encourage their family members in the DC area to come and screen for prostate cancer. They can also be asked to distribute study flyers to their male family members living in this area.

<u>Table 6</u>
The prostate status on DRE of men attending the screening program

DRE	All men		Black r	Black men	
Normal	N 448	% 40.1	N 392	% 41.0	
Abnormal / Suspicious	37	3.3	33	3.4	
Enlarged	173	15.5	144	15.1	
Known Prostate Cases (on treatment)	6	.6	5	.5	
Not Done	454	40.6	383	40.0	
Total	1118	100.0	957	100.0	

 $\underline{\text{Table 7}}$ Age group of the men who attend the screening

Age	All men		Black n	
18 - 29	N 2	% .2	N 2	% .2
30 - 39	59	5.3	54	5.6
40 - 49	357	31.9	319	33.3
50 - 59	374	33.5	321	33.5
60 - 69	199	17.8	163	17.0
70 - 79	78	7.0	59	6.2
80 - 89	8	.7	6	.6
90 - 100	3	.3	1	.1
Not Recorded	38	3.4	32	3.3
Total	1118	100.0	957	100.0

Table 8

PSA distribution of men attending the screening program

PSA (ng./ml.)	All men	All men		Black men	
0 – 2.4	N 918	% 82.1	N 794	% 83.0	
2.5 – 3.9	76	6.8	62	6.5	
4.0 – 9.9	66	5.9	54	5.6	
10.0 – 49.9	17	1.5	12	1.3	
>= 50	4	.4	4	.4	
Not Recorded	37	3.3	31	3.2	
Total	1118	100.0	957	100.0	

Table 9
PSA distribution of the population screened by race

PSA			RA				
ng/ml	BLACK	WHITE	N (1 SPANISH		OTHER	-	TOTAL
0 – 2.4	794 (85.7)	69 (82.1)	20 (90.9)	13 (72.2)	4 (50.0)	ANSWER 10 (83.3)	910 (85.0)
2.5 –3.9	62 (6.7)	7 (8.3)	0	2 (11.1)	1 (12.5)	2 (16.7)	74 (6.9)
4.0- 9.9	54 (5.8)	5 (6.0)	1 (4.5)	3 (16.7)	2 (25.0)	0	65 (6.1)
10.0-49.9	12 (1.3)	3 (3.6)	1 (4.5)	0	1 (12.5)	0	17 (1.6)
>= 50	4 (0.4)	0	0	0	0	0	4 (0.4)
TOTAL	926	84	22	18	8	12	1070

CONSENT FOR INVESTIGATIVE PROCEDURES HOWARD UNIVERSITY WASHINGTON, DC. 20059

CONSENT FORM FOR HUMAN PARTICIPANTS (CASES)

SUBJECT'S NA	ME:		·
(Please print)	(Last)	(First)	(Initial)
PROJECT TITLE	E: Dietary Fat and Vita Africans: A Case-Co		sk among African Americans and
PROJECT DIRE Makambi , Ph.D.		Ukoli, MBBS.,MPH, Tanya J., Usifo Osime, MBBS.,FRCS.	D. Agurs-Collins, Ph.D., Kepher Aaron Jackson, MD.
The follo Howard Universi	wing questionnaires, tests ty Cancer Center at no cost	and procedures for this researce to me and will take only one vis	th project will be completed at the sit that will last 1½ hours.
Tests and Proce	dures to be Performed.		
a. Co	ollection of personal inform	nation, family, diet and growth l	nistory, and measurement of height,
We	eight, waist, hip and skin-fo	ld thickness by a trained intervi-	ewer.
b. M	easurement of body fat	using a special scale and im	pedance technology by a trained
c. Co	ollection of 30ml (6 teaspo	t be used for men with internal (levices like pacemakers. y a certified nurse to measure PSA
(b)	lood test for prostate cancer	r), essential fatty acids, lipids, vi	y a ceruned nurse to measure PSA
d. Co	ollection of 5ml (1 teaspoon	ful) of urine.	tainins L and scientain.
to give informatic and present diet. (6 teaspoonful) of teaspoon of my approximately on I give pe cancer from my reconcer from my reconcer from the lood draw by Krimay be slight ble a few days. Body fat technology. As	ompare this effect among A on about the frequency with My height, weight, waist, left my blood will be drawn urine for analysis. The determination to obtain medical records. I permit the of urine for the said tests. Test: Participation in this sim Utley and Olabisi Adeoreding, bruising or swelling measurement will be take the scale records my weight	African Americans and Africans which I consume selected food hip and skin-fold thickness will a from my vein at the clinic vietailed dietary and other question of the diameter of the dietary and other question of the diameter of the dietary and pathology relevant of the diameter of the dietary and pathology relevant of the diameter of the diameter of the dietary and pathology relevant of the diameter of the dietary and pathology relevant of the diameter of the diameter of the dietary and pathology relevant of the diameter of the dietary and pathology relevant of the diameter of the diameter of the dietary and pathology relevant of the diameter of the dietary and pathology relevant of the diameter of the diameter of the dietary and other question of the diameter of the dietary and other question of the diameter of the dietary and other question of the diameter of the dietary and other question of the diameter of the dietary and other question of the diameter of the dietary and other question of the diameter of the dietary and other question of the dietary and dietary	of selected items in the diet on the now living in America. I will have I items and serving sizes of my past be measured. Approximately 30ml. isit, and I will also give 5ml. (one connaires I will complete will take exports that are relevant to prostate of blood and the collection of 5ml. by physical risk other than that of a enced technicians. Sometimes there was inserted. This will clear within special scale that uses impedance harmless and safe electric current the scale can calculate how much of
Initials:		1	The state of the s
	articipant)	(Witness)	(Principal Investigator)

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Ukoli, Flora A.M.

my body weight is fat. However, people who have pacemakers or automated defibrillators should not use this scale because it can temporarily throw off the pacemaker settings. I do / do not have any internal devices and so I can / cannot have my body fat measured with this scale. Not having my body fat measured will not exclude me from participating in this study.

I will receive souvenirs and \$30.00 for participating and completing the study.

Benefits: The main benefit to me is that I can discus some questions about my prostate cancer and about my diet with the team of doctors. While there might be no direct benefit to me for participating is this prostate cancer dietary risk study I realize that the results of the study will provide some information about the dietary risks or protection of American or African diets and this will be useful in developing nutrition education for the prevention of prostate cancer in my community in particular and the world in general.

Alternative Participation: I could visit my doctor, clinic, nutritionist, or call the American Cancer Society for information on prostate cancer.

Conditions of Participation: Participation in this study is voluntary. If my questions now or at any time are not answered to my satisfaction, I can speak with the Principal Investigator Flora A.Ukoli, MB.BS, MPH, at 202-806-9259, or Chiledum Ahaghotu, MD, at 202-865-1314. I may withdraw from the project at any time, and refusal to participate or withdrawal from the study will not influence my present or future medical care by the staff of Howard University Hospital, my physician or my urologist.

Confidentiality: You have promised to safeguard every information I provide, and a number will be used instead of my name on any computer files. The records from this study will be kept confidential and will not be given to anyone who is not helping on the study or used for any other purpose unless I agree to release the records. All completed interviews and surveys will be under lock in a separate set of files when not in use by project staff. The Institutional Review Board of Howard University and representatives of the U.S. Army Medical and Material Command are eligible to review research records as a part of their responsibility to protect human subjects in research. My personal identity will be treated as confidential and will not appear in any computer database or on any published results.

Injury: In the event of physical or other injury resulting from the research tests or procedures, medical treatment will be provided at no cost to me, but that there will be no financial compensation.

I am free to call the Office of the Executive Secretary of Howard University Institutional Review Board at 202-806-7818 if I have questions I will like to discuss with someone other than the investigators on this project, and I will be financially responsible for such a call.

I have read the above description of the research project. Things I did not understand were explained to me by Dr. Flora Ukoli and her research assistant, and my questions were answered to my satisfaction. I agree to participate in this project. I acknowledge that I have received a personal copy of this consent form.

Participant's Name / Signature				Date
Street Address I, the undersigned, have dethe above named participant.	City efined and fully exp	State blained the proc	Zip cedures and tests	s involved in this study to
Investigator's Signature				 Date

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CONSENT FOR INVESTIGATIVE PROCEDURES HOWARD UNIVERSITY WASHINGTON, DC. 20059

CONSENT FORM FOR HUMAN PARTICIPANTS (CONTROLS)

SUBJECT'S NAME:			
(Please print)	(Last)	(First)	(Initial)
PROJECT TITLE:	Dietary Fat and Vitar Africans: A Case-Con	nin E in Prostate Cancer Risk a trol Study.	mong African Americans and
This study pla men who have prostat prostate cancer screet second visit that will University Cancer Ce Tests and Procedure a. Undergo p urologist v which lies b. Collection Rabah Be essential fi c. Collection weight, wa d. Measurem This scale e. Collection Purpose of the Stud prostate and to compainformation about the My height, weight, w my blood will be draw analysis. The detailed prostate cancer screet examination (DRE) b information and path of 6 teaspoonfuls of b Risks/Discomforts: certified nurse or tec swelling under the ske	edum Ahaghotu, MD., ins to compare men who te cancer (study 'case') ning and will last about last 1½ hours to compare men. These tests and prosenter. These tests and prosenter. These tests and prosenter of the Performed. The proposed of 30ml (6 teaspoonful kere) to measure prosently acids, lipids, vitamin of personal information of personal information of the personal information of 5ml (one teaspoonful teaspoo	l) of blood from my vein by a certate specific antigen, PSA, (the base E and selenium. on, family, diet and growth historness and body fat by a trained interspecial scale and impedance techniques with internal devices like pacemak	ate cancer (study 'control') with ontrol this visit will be for only a control I will be invited for a sand procedures at the Howard cost to me. Trectal examination (DRE). The nus and feel my prostate gland, tified technician (Kim Utley or blood test for prostate cancer), ry, and measurement of height, viewer. Tology by a trained investigator. Ters. The selected items in the diet on the w living in America. I will give zes of my past and present diet. I will give zes of my past and present diet. I (one teaspoon) of my urine for approximately one hour. At the lude a one-finger digital rectal ve permission to obtain medical tal rectal examination, the draw said tests. That that of a blood draw by a result be slight bleeding, bruising or a this bruise will clear in a few
Initials:(Partic	ipant)	(Witness)	(Principal Investigator)

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Ukoli, Flora A. M.

impedance technology. As the scale records my weight it will pass an unfelt small, harmless and safe electric current through my body, and by measuring how the current flows the computer in the scale can calculate how much of my body weight is fat. However, people who have pacemakers or automated defibrillators should not use this scale because it can temporarily throw off the pacemaker settings. I do / do not have any internal devices and so I can / cannot have my body fat measured with this scale. Not having my body fat measured will not exclude me from participating in this study.

The minimal discomfort of a DRE is only at the time of the examination and will last no more than a few minutes. A positive PSA or DRE test could cause anxiety because of the fear of cancer diagnosis. If this should be the case I shall be referred to either of the study urologists or my primary care physician for follow-up, treatment and appropriate referral.

I will receive souvenirs and \$30.00 for participating and completing this study.

Benefits: One benefit to me for participating is the chance of early detection of prostate enlargement or prostate cancer followed by appropriate referral. I also realize that the results of this study will provide some information about dietary risks or protection of African or American diets, and this will be useful in developing nutrition health education for the prevention of prostate cancer among black men in particular.

<u>Alternative Participation:</u> I could visit my doctor, clinic, nutritionist, or call the American Cancer Society for information on prostate cancer.

Conditions of Participation: Participation in this study is voluntary. If my questions now or at any time are not answered to my satisfaction, I can speak with the Principal Investigator Flora A.Ukoli, MB.BS, MPH, at 202-806-9259, or Chiledum Ahaghotu, MD, at 202-865-1314. I may withdraw from the project at any time. Refusal to participate or withdrawal from the study will not influence my present or future medical care by the staff of Howard University Hospital.

Confidentiality: You have promised to safeguard every information I provide, and a number will be used instead of my name on any computer files. The records from this study will be kept confidential and will not be given to anyone who is not helping on the study or used for any other purpose unless I agree to release the records. All completed interviews and surveys will be under lock in a separate set of files when not in use by project staff. The Institutional Review Board and representatives of the U.S. Army Medical Research and Material Command are eligible to review research records as a part of their responsibility to protect human subjects in research. My personal identity will be treated as confidential and will not appear in any computer database or on any published results.

<u>Injury:</u> In the event of physical or other injury resulting from the research tests or procedures, medical treatment will be provided at no cost, but that there will be no financial compensation.

I am free to call the Office of the Executive Secretary of Howard University Institutional Review Board at 202-806-7818 if I have questions I will like to discuss with someone other than the investigators on this project, and that I will be financially responsible for such a call.

I have read the above description of the research project. Things I did not understand were explained to me by Dr. Flora Ukoli and her research assistant, and my questions were answered to my satisfaction. I agree to participate in this project. I acknowledge that I have received a personal copy of this consent form.

Participant's Name / Signatur	e			Date
Street Address	City	State	Zip	
I, the undersigned, have the above named participant.	defined and fully exp	lained the proc	edures and tests	s involved in this study to
Investigator's Signature				Date

CONSENT FOR INVESTIGATIVE PROCEDURES HOWARD UNIVERSITY WASHINGTON, DC. 20059

CONSENT FORM FOR BLOOD, URINE and SPECIMEN DONATION (CONTROLS)

SUBJECT'S NAME	•			
(Please print)	(Last)		(First)	(Initial)
PROJECT TITLE:	Dietary Fat and Vitam Africans: A Case-Cont		te Cancer Risk am	ong African Americans and
PROJECT DIRECTO Makambi, Ph.D., Ch	ORS: Flora A.M. Uk iledum Ahaghotu, MD., U	oli, MBBS.,M sifo Osime, ME	PH, Tanya D. A BBS.,FRCS. Aaron I	gurs-Collins, Ph.D., Kepher fackson, MD.
in other future reseasample I donate will My refusal to allow voluntarily and free	not be used in this study a my samples to be stored f by donate my urine and be linquish all right, title, and	and could pote and is being stor for future resear lood samples of	ntially have commered for use in future ch will not affect make the rawn this day to the	e stored and may also be used ercial applicability. The urine research and genetic studies. The participation in this study. In the Howard University Cancer tored samples will not contain
I agree to have	ve my blood / urine / prosta	ate samples stor	ed for future researc	ch.
I do not want	my blood / urine / prostate	e samples store	for future research	
PARTICIPANT"S	SIGNATURE			DATE
Street Address	City	State	Zip	
INVESTIGATOR'S	S SIGNATURE			DATE

CONSENT FOR INVESTIGATIVE PROCEDURES HOWARD UNIVERSITY WASHINGTON, DC. 20059

CONSENT FORM FOR BLOOD, URINE and SPECIMEN DONATION (CASES)

SUBJECT'S NAME:			
(Please print)	(Last)	(First)	(Initial)
PROJECT TITLE:	Dietary Fat and Vitamin Africans: A Case-Contro	E in Prostate Cancer Risk am l Study.	nong African Americans and
PROJECT DIRECTO Makambi, Ph.D., Chi		i, MBBS.,MPH, Tanya D. A fo Osime, MBBS.,FRCS. Aaron	gurs-Collins, Ph.D., Kepher Jackson, MD.
and may also be used The urine sample I of studies. My refusal to study. I voluntarily a Cancer Center and he contain any personal	in other research and general donate will not be used in a allow my samples to be so and freely donate my urine areby relinquish all right, title	tic studies and could potentially leads this study and is being stored at tored for future research will not and blood samples drawn this ele, and interest to the said items.	have commercial applicability. for use in future and genetic affect my participation in this day to the Howard University
I agree to have	e my blood / urine / prostate	samples stored for future research	ch.
I do not want	my blood / urine / prostate s	samples stored for future research	1.
PARTICIPANT"S S	SIGNATURE		DATE
Street Address	City	State Zip	
INVESTIGATOR'S	SIGNATURE		DATE

Institutional Review Board:

APPLICATION FOR PROJECTS INVOLVING HUMAN PARTICIPANTS

Name and Faculty Rank:	Flora A.M.Ukoli, MB.BS,DPH,MPH. Associate Professor
Student Investigator:	
Department:	Howard University Cancer Center
College:	Medicine Campus Telephone. 202-806-9259 Email: fukoli@Howard.edu
	ary Fat and Vitamin E in Prostate Cancer Risk among African Americans and cans: A Case-Control Study.
Project Period:	January 2002 – December 2005.
Source of Funds, (if applica	able): Department of Defense, DOD
	Type of Application: () New (X) Renewal of Application # IRB-01-CC-09 () Revision
	Signature of Principal Investigator Date
	Signature of Departmental Chairman Date
	Signature of Dean/Director
	Date

IRB -01-CC-09 Page 1 of 3 Ukoli, Flora A.M.

CONSENT FOR INVESTIGATIVE PROCEDURES UNIVERSITY OF BENIN TEACHING HOSPITAL, BENIN-CITY, NIGERIA HOWARD UNIVERSITY, WASHINGTON DC 20059.

CONSENT FORM FOR HUMAN PARTICIPANTS (CASES)

SUBJECT'S NAME:			
(Please print)	(Last)	(First)	(Initial)
	Dietary Fat and Vitami Africans: A Case-Contr		Risk among African Americans an
PROJECT DIRECTOR		•	D. Agurs-Collins, Ph.D., Kephe
Makambi, Ph.D., Chile	dum Ahaghotu, MD., Us	ifo Osime, MBBS.,FRCS.	Aaron Jackson, MD.
			n project will be completed at the Ek
Baptist Hospital, Warr	i Specialist Hospital, Ber	nin Central Hospital, Udo	Health Centre or at the University
		to me and will take only or	ne visit that will last 2½ hours.
Tests and Procedures			
a. Collection	of personal information,	family, diet and growth h	istory, and measurement of heigh
		ss and body fat by a trained	
b. Measureme	nt of body fat using a sp	ecial scale and impedance	technology by a trained investigate
		ith internal devices like pac	
			a doctor or certified nurse to measu
d Callaction	test for prostate cancer),	essential fatty acids, lipids	s, vitamins E and selenium.
	of 5ml (one teaspoonful)		
prostate and to compar	the purpose of this re	esearch is to study the effe	ect of selected items in the diet on the next of selected items in the diet on the selected items in the diet on the
to give information abo	out the frequency with w	bich I consume selected fo	od items and serving sizes of my pa
and present diet My h	eight weight waist hin	and skin-fold thickness wi	ill be measured. Approximately 30m
(6 teaspoonful) of my	blood will be drawn fr	om my vein at the clinic	visit, and I will also give 5ml. (or
teaspoon) of my urine	for analysis. The detail	led dietary and other que	stionnaires I will complete will tal
approximately two ho	ours. I give permission	to obtain medical inform	ation and pathology reports that a
relevant to prostate car	ncer from my medical re-	cords. I permit the draw of	30ml. (6 teaspoonful) of blood and
teaspoonful of urine fo		1	o the contract of the contract
Risks/Discomforts: 1	Participation in this stud	y will not subject me to a	any physical risk other than that of
blood draw by the stu	dy doctor or nurse, both	are certified and experien	nced to draw blood. Sometimes the
may be slight bleeding	, bruising or swelling und	der the skin where the need	lle was inserted. This will clear with
a few days.			
Body fat meas	urement will be taken	by standing bare feet on	a special scale that uses impedance
technology. As the so	cale records my weight	it will pass an unfelt sma	ll, harmless and safe electric curre
through my body, and	by measuring how the cu	irrent flows the computer i	n the scale can calculate how much
my body weight is fat	. However, people who l	nave pacemakers or autom	ated defibrillators should not use th
scale because it can ter	nporarily throw off the p	acemaker settings. I do / d	o not have any internal devices and
I can / cannot have my	body fat measured with	this scale. Not having my t	oody fat measured will not exclude n
from participating in the	ns study.		
Initials:			
(Partici)	pant)	(Witness/Translator	(Principal Investigator

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Ukoli, Flora A. M.

Date

I will receive souvenirs and a months supply of multivitamin and money to cover the cost for transportation and the inconvenience of participating in the study up to \$15 per visit.

Benefits: The main benefit to me is that I can discus some questions about my prostate cancer and about my diet with the team of doctors. While there might be no direct benefit to me for participating is this prostate cancer dietary risk study I realize that the results of the study will provide some information about the dietary risks or protection of American or African diets. This will be useful in developing nutrition education for the prevention of prostate cancer in my community and the world in general.

Alternative Participation: I could visit my doctor, clinic, nutritionist, or call the American Cancer Society or any local organization for information on prostate cancer.

Conditions of Participation: Participation in this study is voluntary. If my questions now or at any time are not answered to my satisfaction, I can speak with the study consultant, Prof. Usifo Osime at 052-600026 or the Principal Investigator Flora A.Ukoli, MB.BS, MPH, at 202-806-9259. I may withdraw from the project at any time. Refusal to participate or withdrawal from the study will not influence my present or future medical care by the staff of University of Benin Teaching Hospital, Benin Central Hospital, Warri Specialist Hospital, Baptist Hospital, Eku, or Udo Health Centre.

<u>Confidentiality:</u> You have promised to safeguard every information I provide, and a number will be used instead of my name on any computer files. The records from this study will be kept confidential and will not be given to anyone who is not helping on the study or used for any other purpose unless I agree to release the records. All completed interviews and surveys will be under lock in a separate set of files when not in use by project staff. The Institutional Review Board of Howard University, the University of Benin Teaching Hospital Ethical Committee, and representatives of the U.S. Army Medical and Material Command are eligible to review research records as a part of their responsibility to protect human subjects in research. My personal identity will be treated as confidential and will not appear in any computer database or on any published results.

Injury: In the event of physical or other injury resulting from the research procedures, medical treatment will be provided by **Dr. E. Egbgabe** at no cost to me, but that there will be no financial compensation.

I am free to call the Office of the Executive Secretary of Howard University Institutional Review Board at 202-806-7818, or the office of the Chief Medical Director, UBTH, Benin-City at 052-600418, if I have questions I will like to discuss with someone other than the investigators on this project. The cost of such a call will be mine.

I have read the description of the research project / it has been read to me and explained in 'Pidgin' English / translated to my understanding in my language. Things I did not understand were explained to me by Prof. Osime, the study urologist or the research assistant, and my questions were answered to my satisfaction. I agree to participate in this project. I acknowledge that I have received a personal copy of this consent form.

Participant's Name	Signature	Date	Witness/Translator's name	e Si	ignature
Street Address	City	State	Street Address	City	State
I, the undersigned, have tests involved in this str	ve defined and fund fund yet to the above it	ally explained /	have the translator fully explant.	lain the p	rocedures and

Investigator's Signature

IRB -01-CC-09 Page 1 of 3 Ukoli, Flora A.M.

CONSENT FOR INVESTIGATIVE PROCEDURES UNIVERSITY OF BENIN TEACHING HOSPITAL, BENIN-CITY, NIGERIA HOWARD UNIVERSITY, WASHINGTON DC 20059. CONSENT FORM FOR HUMAN PARTICIPANTS (CONTROLS)

SUBJECT'S NAME: _______.
(Please print) (Last) (First) (Initial)

PROJECT TITLE: Dietary Fat and Vitamin E in Prostate Cancer Risk among African Americans and Africans: A Case-Control Study.

PROJECT DIRECTORS: Flora A.M. Ukoli, MBBS.,MPH, Tanya D. Agurs-Collins, Ph.D., Kepher Makambi, Ph.D., Chiledum Ahaghotu, MD., Usifo Osime, MBBS.,FRCS. Aaron Jackson, MD.

This study plans to compare men who do not have any evidence of prostate cancer Study 'control') with men who have prostate cancer (study 'case'). If I am not selected as a study control this visit will be for only prostate cancer screening and will last about one hour at the local Health Center or Hospital. If I am eligible as a control I will be invited for a second visit that will last $2\frac{1}{2}$ hours to complete detailed dietary questionnaires and procedures. The following tests and procedures for the project will be at no cost to me.

Tests and Procedures to be Performed.

- a. Undergo physical examination by a surgeon or urologist that includes a digital rectal examination (DRE). The surgeon will gently insert one gloved lubricated finger into my anus and feel my prostate gland, that lies below my bladder, for any hardness or lumps.
- b. Collection of 30ml (6 teaspoonful) of blood from my vein by a certified nurse to measure PSA (blood test for prostate cancer), essential fatty acids, lipids, vitamins E and selenium.
- c. Collection of personal information, family, diet and growth history, and measurement of height, weight, waist, hip, skin-fold thickness and body fat by a trained interviewer.
- d. Measurement of body fat using a special scale and impedance technology by a trained investigator. This scale cannot be used for men with internal devices like pacemakers.
- e. Collection of 5ml (one teaspoonful) of urine.

Purpose of the Study: The purpose of this research is to study the effect of selected items in the diet on the prostate and to compare this effect among African Americans and Africans now living in America. I will give information about the frequency with which I consume selected food items and the serving sizes of my past and present diet. My height, weight, waist, hip and skin-fold thickness will be measured. Approximately 6 teaspoonful of my blood will be drawn from my vein at the clinic, and I will also give 5ml. (one teaspoon) of my urine for testing. At the prostate cancer screening I will have a physical examination that will include a one-finger digital rectal examination (DRE) by a surgeon or urologist. The detailed dietary and other questionnaires 1 will complete will take two hours. I give permission to obtain medical information and pathology reports from my medical records. I also permit the draw of 30ml. (6 teaspoonful) of blood, digital rectal examination and collection of 5ml. (one teaspoonful) of urine.

<u>Risks/Discomforts:</u> Participation will not subject me to any physical risk other than that of a blood draw by a doctor or certified nurse and a DRE by a surgeon or urologist. Sometimes there may be slight bleeding, bruising or swelling under the skin where the needle was inserted for the blood draw and this bruise will clear in a few days.

Body fat measurement will be taken by standing bare feet on a special scale that uses impedance technology. As the scale records my weight it will pass an unfelt small, harmless and safe electric current through my body, and by measuring how the current flows the computer in the scale can calculate how much of

Initials:			
	(Participant)	(Witness / Translator)	(Principal Investigator)

Page 2 of 3

Ukoli, Flora A. M.

my body weight is fat. However, people who have pacemakers or automated defibrillators should not use this scale because it can temporarily throw off the pacemaker settings. I do/do not have any internal devices and so I can/cannot have my body fat measured with this scale. Not having my body fat measured will not exclude me from participating in this study.

The minimal discomfort of a DRE is only at the time of the examination and will last no more than a few minutes. A positive PSA or DRE test could cause anxiety because of the fear of cancer diagnosis. If this should be the case I shall be referred to an urologist for follow-up, and treatment.

I will receive souvenirs and a months supply of multivitamins and money for the cost of transportation, blood draw and the inconvenience of participating in the study up to \$15 per visit.

Benefits: One benefit to me for participating is the chance of early detection of prostate enlargement or prostate cancer followed by appropriate referral. I also realize that the results of this study will provide some information about dietary risks or protection of African or American diets that may be useful in developing nutrition health education for the prevention of prostate cancer among black men in particular.

<u>Alternative Participation:</u> I could visit my doctor, clinic, nutritionist, or call the American Cancer Society or any local health association for information on prostate cancer.

Conditions of Participation: Participation in this study is voluntary. If my questions now or at any time are not answered to my satisfaction, I can speak with the study consultant Prof. Usifo Osime at 052-600026 or the Principal Investigator Flora A.Ukoli, MB.BS, MPH, at 202-806-9259. I may withdraw from the project at any time. Refusal to participate or withdrawal from the study will not influence my present or future medical care by the staff of University of Benin Teaching Hospital, Benin Central Hospital, Warri Specialist Hospital, Eku Baptist Hospital, or Udo Health Centre.

Confidentiality: You have promised to safeguard every information I provide, and a number will be used instead of my name on any computer files. The records from this study will be kept confidential and will not be given to anyone who is not helping on the study or used for any other purpose unless I agree to release the records. All completed interviews and surveys will be under lock in a separate set of files when not in use by project staff. The Institutional Review Board of Howard University, the University of Benin Teaching Hospital Ethical Committee, and representatives of the U.S. Army Medical Research and Material Command are eligible to review research records as a part of their responsibility to protect human subjects in research. My personal identity will be treated as confidential and will not appear in any computer database or on any published results.

Injury: In the event of physical or other injury resulting from the research procedures, medical treatment will be provided at no cost by Dr. E. Iyamu or Dr. E. Egbagbe, but that there will be no financial compensation.

I am free to call the Office of the Executive Secretary of Howard University Institutional Review Board at 202-806-7818, or the office of the Chief Medical Director, University of Benin Teaching Hospital (UBTH), Benin-City at 052-600418, if I have questions I will like to discuss with someone other than the investigators on this project. The cost of such a call will be mine.

I have read the description of the research project / it has been read to me and explained in 'Pidgin' English / and translated to my understanding in my language. Things I did not understand were explained to me by Dr. Ukoli, Dr. Egbagbe or the research assistant, and my questions were answered to my satisfaction. I agree to participate in this project. I acknowledge that I have received a personal copy of this consent form.

Participant's Name	/ Signature	/ Date	Witness / Translator's	Name /	Signature
Street Address I, the undersigned, hat tests involved in this s	City ave defined and study to the abo	State I fully explained ye named particular.	Street Address 1 / have the translator fully ipant.	City explain the pr	State rocedures and
Investigator's Signat	ture		44.	Da	te

CONSENT FOR INVESTIGATIVE PROCEDURES HOWARD UNIVERSITY, WASHINGTON, DC. 20059 UNIVERSITY OF BENIN TEACHING HOSPITAL, BENIN-CITY, NIGERIA.

CONSENT FORM FOR BLOOD, URINE and SPECIMEN DONATION (CONTROLS)

INVI	ESTIGATOR	S SIGNATURE		DATE
Stree	et Address	City	State	
PAR	TICIPANT"S	SIGNATURE		DATE
	I do not wan	t my blood / urine / prostate san	nples stored for future research.	
	I agree to ha	ve my blood / urine / prostate sa	amples stored for future research	n.
in oth samp My re volur Cente	her future rese le I donate wil efusal to allow atarily and free	arch and genetic studies and I not be used in this study and i my samples to be stored for fully donate my urine and blood elinquish all right, title, and inte	oviding under this study will be could potentially have comments being stored for use in future atture research will not affect my samples drawn this day to the erest to the said items. All the starts	rcial applicability. The urine research and genetic studies. y participation in this study. I be Howard University Cancer
	JECT DIRECT umbi, Ph.D., Cl		MBBS.,MPH, Tanya D. Ag Osime,MBBS.,FRCS. Aaron Ja	gurs-Collins, Ph.D., Kepher ckson, MD.
PROJ	ECT TITLE:	Dietary Fat and Vitamin E Africans: A Case-Control S	in Prostate Cancer Risk amo tudy.	ong African Americans and
	IECT'S NAMI se print)	(Last)	(First)	(Initial)
ST IP	IECT'S NAME	}•		

CONSENT FOR INVESTIGATIVE PROCEDURES HOWARD UNIVERSITY, WASHINGTON, DC. 20059 UNIVERSITY OF BENIN TEACHING HOSPITAL, BENIN-CITY, NIGERIA.

CONSENT FORM FOR BLOOD, URINE and SPECIMEN DONATION (CASES)

	se print)	(Last)	(First)	(Initial)
PROJ	ECT TITLE:	Dietary Fat and Vitamin Africans: A Case-Contro		among African Americans and
	JECT DIRECTO ambi, Ph.D., Ch		i, MBBS.,MPH, Tanya D. fo Osime, MBBS.,FRCS. Aar	. Agurs-Collins, Ph.D., Kepher on Jackson, MD.
and rapplicates applicates applicate applicates applicates applicate applicates applicate applicate applicates applicate applicate applicates applicate applicate applicates applicate applicate applicates applicate applica	may also be us cability. The ur rch and genetic cipation in this ard University (ed in other future research ine sample I donate will no studies. My refusal to allow study. I voluntarily and free	and genetic studies and co ot be used in this study and or my samples to be stored for ely donate my urine and bloc elinquish all right, title, and	ing under this study will be stored buld potentially have commercial is being stored for use in future future research will not affect my od samples drawn this day to the interest to the said items. All the
	I agree to have	re my blood / urine / prostate	samples stored for future res	search.
	I do not want	my blood / urine / prostate s	samples stored for future research	arch.
PAR	TICIPANT"S	SIGNATURE		DATE
Stree	et Address	City	State	
INV	ESTIGATOR'	S SIGNATURE		DATE

FOOD FREQUENCY QUESTIONNARE

Throughout this interview I will ask you how often you ate certain foods in the past year. Please tell me the number of times you ate the mentioned item in a day, a week, a month, a year or not all. You also need to tell me the usual quantity or serving size you ate.

FOOD	NEVER	FEW TIMES A YEAR	1-2 TIMES A MONTH	1-2 TIMES A WEEK	3-4 TIMES A WEEK	5-7 TIMES A WEEK	2 OR MORE TIMES A DAY	QUANTITY OR PORTION SIZE EACH TIME
	NIL NO	RARE	OCCAS SIONS	SOME TIMES	OTHER DAY	DAILY	MANY TIMES	·
Chicken, Hen Turkey / Roast Turkey Smoked Poultry Duck	and the second s					10000		1/16 1/8 1/4 1/2 # pc
Beef/Steak, Roast beef Lamb, Goat Pork, Pork chop, Ham Smoked pork Bush meat *								# M1/M3/Pc, # Kp
Pig feet, Cow leg, Skin, Kidney, Liver, Gizzard Tripe Chitlins Oxtail (with Skin?)								# pcs
Ground beef stew Meat balls / Meatloaf Ground turkey, Picadillo								# pt # K3 # balls / # Slice # slices
Sausage, Hotdog, Bacon Eggs Lunch meat ham	4 (1) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4							# slices # Boiled / Fried # slices
Turkey lunch meat Bologna, Salami Pepperoni Canned meats /Tin meats				N				
Luncheon meat, others Corned beef Can Fish: Tuna, Sardine								1/8 ½ ½ 1 # K3
Can Salmon Dark fish, White fish, Fresh Ice-Fish, Frozen fish (fresh) Smoked ice-fish *				,				# pieces # fillet # Kp
Dry fish * Smoked fish (American) Stock fish * Fresh Salmon								# fillet # Kp/ piece # Piece
Shrimp, Lobster Crayfish dried * Crab / Crab Cake Large Snail * Scallop, Oysters Periwinkle, little snails *								# K3
Frozen (TV) Lunch/Dinner Soups								Specify
Gravies (meat drippings) White sauce					2 in 1997		•	# K3 serving spoon

FOOD	NEVER	FEW TIMES A YEAR	1-2 TIMES A MONT H	1-2 TIMES A WEEK	3-4 TIMES A WEEK	5-7 TIMES A WEEK	2 OR MORE TIMES A DAY	QUANTITY OR PORTION SIZE EACH TIME
	NIL NO	RARE	OCCAS SIONS	SOME TIMES	OTHER DAY	DAILY	MANY TIMES	
Rice						V 45.1.5	ANNED	# K1 # Cups
Rice Flour *								E1 E2
Spagetti, Noddles								# Picture # Cups
Macaroni, Pasta Cus-Cus / Hominy								# K1
Corn Bread								# K1
Ekusu (corn cake) *								# piece (muffin) Model
Agidi, Kenki *							2	Model
Corn-on-cob/Can corn Boiled								# whole cob # K1
Corn Roasted *								# Whole coo # K1
Oats Meal / Quaker oats							je.	# K1
Grits								
Corn flour (Pap) *								
Millet flour pudding *							1	
Yam *								# Y
Pounded Yam * Yam Elubo/Amala *								# E1 E2
Plantain boil (G/R) *			·					
Plantain roast (G/R) *								# whole plantain
Plantain Elubo/Amala *				,				# E1 E2
Gari *								# E1 E2 # E1 E2
Kpokpo gari *								# EI E2 # pkt
Cassava/Yuka boiled *								# Y
Fufu ('Santana') *								# E1 E2
Starch Casava/Potato *			3.0					
Cassava Elubo/Amala *								
Banku (corn & cassava fufu) *								
Ghana fufu (plantain/cassava								
Semolina, Farina * Irish Potato Baked, Boiled								
Mashed Potato								# S/ M/ Large Potato
French Fries								# K1
Sweet Potato (yams)								S M L (fast food) # K1
Cocoyam/Taro/Malanga *								# Y
White Bread, Rolls						·		# slices # Rolls
Wheat/Rye bread								" SHOOD " TROMS
Bagel								#
Dumpling (Flour/Chinese)								#
Pancakes								#
Pizza								# slices
Ham / Cheeseburger								#
(Home / Fast food) Pita, Soft taco								
Enchilada								#
Ethiopian bread								
Hard Taco, Corn Chips								# small pkt.
Potato Chips								# small pkt.
Plantain Chips								
-								
Plantain ripe fried (dodo							į.	# pieces /whole
CEREAL specify								# K1 # cups
-								S / Large Bowl
	M. The second second	<u> </u>						

FOOD	NEVER	FEW TIMES A YEAR	1-2 TIMES A MONT H	1-2 TIMES A WEEK	3-4 TIMES A WEEK	5-7 TIMES A WEEK	2 OR MORE TIMES A DAY	QUANTITY OR PORTION SIZE EACH TIME
	NIL NO	RARE	OCCAS SIONS	SOME TIMES	OTHER DAY	DAILY	MANY TIMES	
Green/String beans							110,1100	# K1/K3 # Cup
Green peas Split peas								
Baked beans								# K1/K3 # Cup
Chili beans								π K1/K5 π Cup
Lima beans								
Black-eye beans * Other beans								# K1 # K1
Moimoi (steamed bean cake)*								# Model
Akara (fried bean cake) *			100					# Model
Brussels sprouts/Bean Sprouts								# /# K1
Lentil Turnips					Sec.			# K1/K3
Mushrooms								# small mushroom
Carrots (cooked / raw)						7M-2940-2-1		# baby/whole # K1
Cucumber								# slices whole
Pickles			*					# slices
Cooked greens (leaves) Collard, Spinach Mustard								# K1/K3 # Cup
Okra (American style)								
Soups-							i.	
-								
-								
African soups/stews: Page 6.							E	
Squash Summer /Winter								# slices Whole
Zucchini, Nopales								555
Egg Plant Garden egg *								# K1
Garden egg * Acorn, Butternut								#
Pumpkin								
Mixed Vegetable Salad								# K1 # S/L Bowl
Lettuce salad Coleslaw								
Onion (raw)								# K1 # rings/slice # S
Onion (cooked)								# Imgs/snee # 3
Garlic								# cloves
Spring onion Leek, Celery								#
Broccoli								# fl
Cabbage / Sauerkraut								# K1 whole
Cauliflower								# K1 # fl
Tofu Veggie burger								# pieces
Vegetarian Special					i e			
Bell Peppers (Raw/Cooked)	i.							1/16 1/8 1/4 1/2 1
Chili / Hot								#
(thin/round pepper Jalopeno pepper								<u> </u>
Vitamin and Supplements							7) 4	# Tableta e dev/vvlr
- approximation			10.00					# Tablets a day/wk
-			,					
-								
	I.		*					

	NEVE R	FEW TIMES	1-2 TIMES	1-2 TIMES	3-4 TIMES	5-7 TIMES	2 OR MORE	QUANTITY OR
FOOD		A YEAR	A MONTH	A WEEK	A WEEK	A WEEK	TIMES A DAY	PORTION SIZE EACH TIME
(Specify if in Season)	NIL	RARE	OCCAS	SOME	OTHER	DAILY	MANY	EACH TIME
	МО		SIONS	TIMES	DAY		TIMES	
Apples, Pears								#
Apricots, Peaches								
Nectarines, Plums							O. C.	
Bananas								#
Kiwi								
Guava								
Avocado pear								
Little pear *								
Garden egg (White raw)* Cantaloupe								1/1/ 1/0 1/ 1/ // 1
Honeydew/Orange melon								1/16 1/8 ½ ½ # sl
Papaya								
Mango								
'Ogbolo' fruit *								
Cashew Fruit *								#
Strawberry					No.			#
Grapes, Berries								₹
Cherry								1
Oranges, Tangerines								#
Grapefruits								# #
Lemon								1
Watermelon								# # slice 1/16 1/8 1/4 1/2 # sl
Red melon								1/10 1/6 74 72 # \$1
Pineapple fresh								# slices
Canned fruits (all)								# Small Can
Fruit cocktail/salad								# K1 # Cup
Applesauce								# K3 # Tbs
Tomato (raw)								# sl # Sm/Cherry
Tomato Juice								# Oz# glass
Tomato Ketchup								# Tbs # Sht
Tomato Stew/Sauce								# K3
Salsa, Salsa picante								# Tbs
Groundnuts Cashew nuts								# K1
Sunflower seeds								
Pumpkin seeds								
Walnut Pecans	E.							
Almonds								#
Other nuts								#
African Walnut * Kolanut *								
Bitter – kola *								
Cooking Spices								Sprinkle / # tsp
-Garlic Powder								,
-Black pepper								
-Curry								
-Maggi								
						I		

	NEVE R	FEW TIMES A	1-2 TIMES A	1-2 TIMES A	3-4 TIMES A	5-7 TIMES A	2 OR MORE TIMES	QUANTITY OR
FOOD		YEAR	MONTH	WEEK	WEEK	WEEK	A DAY	PORTION SIZE EACH TIME
	NIL NO	RARE	OCCAS SIONS	SOME TIMES	OTHER DAY	DAILY	MANY TIMES	
Tea Regular/Decaf								# tea cup/mug
Coffee Regular/ Decaf								
Iced Tea (+ Sugar)								# oz/glass
Chocolate Drink/Shake								
Milo/Bournvita etc.								
Milk								# oz /glass
Ice cream								# Scoop
Yogurt								# Small cup
Cheese								# Slices/Cubes
Sodas								Oz/can/bottle
-								
Fruit Juice								Oz/can/bottle
-								
-								
-								
Fruit flavored drink								Oz/Can bottle
-								
-								
Candy (Sweets)								#
Chocolate								# S/M/LBar
Chewing gum							4	#
White Sugar							Č.	# tsp sht cubes
Brown Sugar								
Sweetners								
Honey								
Syrup								
Wines								# Wine glass
Palm wine *								
Beer Seer								
Beei								# can/bottle
Stout								
Spirits/Liquor								# C1 -4
'Ogogoro/Burukutu' *								# Shots
Cakes					6			# 1 # 0 1
Cookies								# sl # Cup ck
Crackers, Cabin biscuit								# S/L
Biscuits/ English Muffin								#
Croissants								# #
Desserts								# sl
-								π δ1
-Chin-Chin *								
Egg-roll/Meat-pie/Puff-puff*								

the transfer of the second



ID _	

Date:	

PROSTATE CANCER DIETARY FAT & VITAMIN E STUDY Personal Information

N	lame:			
	(Last)	(First)	(Initials)	
Ad	ddress:			
	(No)	(Street)	(Apt. #)	
	(City)	(State)	(Zip Code)	
Home Ph	none: ()	Work Phone: (
Date of I	Birth: / / / (month / day / year)	Age Last Birthday:		years
Country of Or	rigin:	Place of Birth:		
Grandparents	Father's Father:	(To	wn)	(State)
Ancestry:	Father's Mother:			
	Mothania Eathan			
	Mother's Mother:			
*If African state e	ethnicity of grandparents.	[Summary:		
contact you if we	s of two relatives or friends, not livi cannot contact you directly. (OPTI	ing in your household, who are ONAL) Name:		
Street Address	Apt.	Street Address		Apt.
City	State Zip Code	City	State	Zip Code
Work Phone: (Work Phone: (
Home Phone: (Home Phone: (_)	-
Relationship:		Relationship:		

1.	Ном	many vears ha	we you lived in the United States of America? years	
1.	HOW	many years na	years years	
2.	How	many years ha	we you lived in the DC metropolitan area/present address?	/ yrs
*3.	. How	old were you v	when you left your home country? years	
4.			untries did you live in for at least one year.	
5.	What	is the highest g	rade/level of school you completed?	7000
*6.	. What	is the highest g	rade/level of school you completed in your home country?	
7.	Wha	at is your curren	t job status?	_ ·
	O	Not working		
	O	Retired.		
	O	Employed (p	part-time)	
	O	Employed (f		
	O	Disabled, un	nable to work.	
	•			
	O	Other (Speci	ify)	
8.			n? 8.1 Rank if Applicable:	
	What is	your occupation of the statements	n? 8.1 Rank if Applicable: s below best describes your job? If you are not currently work	
	What is	your occupation of the statements nt best describes	s below best describes your job? If you are not currently works your past job, that is, the job you held the longest.	
	What is	your occupation of the statements in the best describes O	s below best describes your job? If you are not currently works your past job, that is, the job you held the longest. Managerial, Professional, Administrative.	
	What is	your occupation of the statements nt best describes O O	s below best describes your job? If you are not currently works your past job, that is, the job you held the longest. Managerial, Professional, Administrative. Technical, Sales, Administrative support.	
	What is	your occupation of the statements at best describes O O O	s below best describes your job? If you are not currently works your past job, that is, the job you held the longest. Managerial, Professional, Administrative. Technical, Sales, Administrative support. Service.	
	What is	your occupation of the statements nt best describes O O O	s below best describes your job? If you are not currently works your past job, that is, the job you held the longest. Managerial, Professional, Administrative. Technical, Sales, Administrative support. Service. Operators, Fabricators, Labourers	
	What is	your occupation of the statements at best describes O O O	s below best describes your job? If you are not currently works your past job, that is, the job you held the longest. Managerial, Professional, Administrative. Technical, Sales, Administrative support. Service.	
	What is Which o	your occupation of the statements nt best describes O O O	s below best describes your job? If you are not currently works your past job, that is, the job you held the longest. Managerial, Professional, Administrative. Technical, Sales, Administrative support. Service. Operators, Fabricators, Labourers Other (Specify)	
9.	What is Which o	your occupation of the statements of the stateme	s below best describes your job? If you are not currently works your past job, that is, the job you held the longest. Managerial, Professional, Administrative. Technical, Sales, Administrative support. Service. Operators, Fabricators, Labourers Other (Specify)	
9.	What is Which o	your occupation of the statements at best describes O O O O O O o is your current	s below best describes your job? If you are not currently works your past job, that is, the job you held the longest. Managerial, Professional, Administrative. Technical, Sales, Administrative support. Service. Operators, Fabricators, Labourers Other (Specify) marital status?	
9.	What is Which o	your occupation of the statements of the stateme	n? 8.1 Rank if Applicable: s below best describes your job? If you are not currently works your past job, that is, the job you held the longest. Managerial, Professional, Administrative. Technical, Sales, Administrative support. Service. Operators, Fabricators, Labourers Other (Specify) marital status? Single, Never married.	
9.	What is Which o	your occupation of the statements at best describes O O O O O O o is your current O O	s below best describes your job? If you are not currently works your past job, that is, the job you held the longest. Managerial, Professional, Administrative. Technical, Sales, Administrative support. Service. Operators, Fabricators, Labourers Other (Specify) marital status? Single, Never married. Married.	
9.	What is Which o	your occupation of the statements of the stateme	s below best describes your job? If you are not currently works your past job, that is, the job you held the longest. Managerial, Professional, Administrative. Technical, Sales, Administrative support. Service. Operators, Fabricators, Labourers Other (Specify) marital status? Single, Never married. Married. Divorced or Separated	
9.	What is Which o	your occupation of the statements at best describes O O O O o o is your current O O O	s below best describes your job? If you are not currently works your past job, that is, the job you held the longest. Managerial, Professional, Administrative. Technical, Sales, Administrative support. Service. Operators, Fabricators, Labourers Other (Specify) marital status? Single, Never married. Married. Divorced or Separated Widowed.	

13.	household in the las	ximate total family income (before taxes) from all sources within your at year? This information will be used for describing all the men in the study ote that all information in this study will be kept in strict confidence.
	O Less	than \$ 10,000 O \$50,000 - <\$74,999
		,000 - <\$24,999 O \$75,000 - <\$99,999
	O \$25,	000 - <\$34,999 O More than \$100,000
	O \$35,	000 – <\$49,999 O Personal / No Response
		O Don't know
14.	Do you have a clini care?	c, doctor, nurse or physician assistant who gives you your usual medical
	O No (Go to No. 15.)	O Yes ↓
	(30 10 110. 13.)	14.1 What is the name and phone number of your clinic, doctor, Nurse practitioner or physician assistant? (OPTIONAL) Name:
		Phone: ()
		When did you last visit this clinic or person? (Give your best guess) (mm/yy)/
15.	With regards the bl	ood test for prostate cancer, called the 'prostate specific antigen (PSA)' test's
		15.1 How many times in your life-time have you had this test?
		15.2 What was the PSA at your last test? or <u>Don't Know</u>
		(Within 12 months) 15.3 Where did you have your previous PSA test? (last year or over 12 months ago) Name:
		Address:
		City State Zip Code
		15.4 What was that previous PSA result? or <u>Don't Know</u>
16.	Has your doctor ev O No (Go to No. 17)	er performed 'Digital Rectal Examination' (DRE) on you? O Yes
	(30 10.17)	16.1 When did you last have a DRE? (mm/yy)/_ (Performed at the same time with the PSA test: Yes / No)
		16.2 What was the result of the test?

/.	How o	do you	usually j	pay for your medical c	eare?							
	O	Pre-P	aid priva	ate Insurance (Like HI	MO)							
	0	Other	private	insurance (Like Blue	Cross)							
	0	Medi	care									
	0	Medi	caid									
	0	Milit	ary or V	eterans								
	O	Empl	Employer Pay/ Reimburse									
	0	Self/	Self / No Insurance									
	0	Other	r (Explai	n)								
8.	Have	you ev	er had aı	ny problems passing u	rine?							
		es →	18.1	When was this? Ple	ase give y	our best g	guess.					
	O No	o ↓	10.2	Dogoviho the muchler	1			(mm	n / yy)			
		V	18.2	Describe the probler	n you nad	passing t	ırıne.					
			□ Urin □ Wea □ Burr □ Drib □ Bloc □ No /	emptying bladder after urinating again within 2 hours k urinary stream uing pain while urinating bling of Urine ud/pus in the urine Weak/ Poor Erection ers		Stop and Difficult Pushing Urinary I Urinary I Blood in Number night to u	to postpor or straining Retention incontinen- the ejacul	te urination g to start ce ate/semen pically get				
			18.4	How would you feel 0= Good 6= Bad	l living wi	th your c	urrent ur	inary con	dition			
				02	3	4	5	6				
9. H	lave you	a ever h	nad any o	of the following condi								
					Yes Have Had	No Not Had	Don't Know	If Yes When	Action Specify			
			19.1 Pr	ostate infection (prostatitis)								
			19.2 Et	nlarged prostate								
			19.3 Pr	ostate cancer								
				y other cancer								
			19.5 Va	sectomy								
			19.6 Pr	ostate or Testis biopsy								

19.7 Prostate or Testis surgery

19.8 Others (e.g. Hernia surgery)

O Yes → O No 21.1 Who was diagnosed with cancer of the prostate? What year was this diagnosis? 21.3 How old was he at diagnosis? 21.4 State the age at diagnosis for any other family member diagnosed with cancer of the prostate.	20.	Has anyone in your	family ev	vei ocen uiaș					
20.3 How old was he at diagnosis?		O Yes →	20.1	Who was d	iagnosed	with B	PH?		
20.3 How old was he at diagnosis?years. 20.4 State the age at which any other family member was diagnosed with Benign Prostate Enlargement			20.2	What year	was this	diagnos	ed?		_
O Yes → 21.1 Who was diagnosed with cancer of the prostate? O No 21.2 What year was this diagnosis? 21.3 How old was he at diagnosis?		•		State the ag	ge at which	ch any o	ther family		as diagnosed
21.2 What year was this diagnosis?	21	Has anyone in your	family be	en diagnosed	l with car	ncer of t	he prostate?	?	
## Paternal ## P			21.1	Who was d	iagnosed	with ca	ancer of the	prostate?	
21.4 State the age at diagnosis for any other family member diagnosed with cancer of the prostate. 22 Please try and count, and give a number for all your first degree male relatives, and state their age if alive and the age at death if applicable. Relationship: Age Group Alive : Died			21.2	What year v	vas this c	liagnosi	s? _		
Age Group Alive Died Section Section				State the ag	ge at diag	nosis fo	or any other		nber diagnosed
Sons	22	Please try and count if alive and the age	t, and give	e a number f	or all you	ır first d	legree male	relatives, a	nd state their age
40: 40-60: >60 <40: 40-60: >60 Father's father : : : : : : : : : : : : : : : : : : :	22	if alive and the age	t, and give at death it	e a number f f applicable.				relatives, a	nd state their age
Mother's father : : : : : : : : : : : : : : : : : : :	22	if alive and the age	t, and give at death it	f applicable.					nd state their age
Father : : : : : : : : : : : : : : : : : : :	22	if alive and the age	at death if	f applicable. Alive	Ą		<u>p</u>	<u>Died</u>	
Brothers :<	22	if alive and the age	at death if	f applicable. Alive	Ą		<u>p</u>	<u>Died</u>	
Sons : : : : : : : : : : : : : : : : : : :	22	if alive and the age are age and the age are age and the age and the age are age are age and the age are age and the age are age are age and the age are age are age are age and the age are a	at death if	f applicable. Alive	Ą		<u>p</u>	<u>Died</u>	
Sons : : : : : : : : : : : : : : : : : : :	22	if alive and the age Relationship: Father's father Mother's father	at death if	f applicable. Alive	Ą		<u>p</u>	<u>Died</u>	
Uncles Maternal : : : : : : : :	22	if alive and the age Relationship: Father's father Mother's father Father	at death if	f applicable. Alive	Ą		<u>p</u>	<u>Died</u>	
Paternal : : : : : :	22	if alive and the age Relationship: Father's father Mother's father Father	at death if	f applicable. Alive	Ą		<u>p</u>	<u>Died</u>	
: · · · · · · · · · · · · · · · · · · ·	22	if alive and the age Relationship: Father's father Mother's father Father Brothers	at death if	f applicable. Alive	Ą		<u>p</u>	<u>Died</u>	
Nephews : </td <td>22</td> <td>if alive and the age Relationship: Father's father Mother's father Father Brothers Sons</td> <td>at death if</td> <td>f applicable. Alive</td> <td>Ą</td> <td></td> <td><u>p</u></td> <td><u>Died</u></td> <td></td>	22	if alive and the age Relationship: Father's father Mother's father Father Brothers Sons	at death if	f applicable. Alive	Ą		<u>p</u>	<u>Died</u>	
	22	Relationship: Relationship: Father's father Mother's father Father Brothers Sons Uncles Maternal	at death if	f applicable. Alive	Ą		<u>p</u>	<u>Died</u>	
All others : : : ·	22	if alive and the age Relationship: Father's father Mother's father Father Brothers Sons Uncles Maternal Paternal	at death if	f applicable. Alive	Ą		<u>p</u>	<u>Died</u>	

TOBACCO USE HISTORY

23.	Have	•	er used tobacco		П п4	S		
	L N	0	□ Ye ↓	S	□ Rei	fuse to answer		
			23.1			did you use?	23.2	Age you started. (yrs.)
					ing tobacco			
					ng tobacco			
					ng tobacco			<u> </u>
				O Pipe				
				O Cigars				
				O Cigare	ettes			
24.	Please	indicate	e the past /curre	nt frequency	y of use for	each form of	tobacco	as applicable.
	 1		Use	Times		rage		
	Tobac		Everyday	Per week	_	Quantity	Do No	ot Use At All .
	Cigar		П			sticks		
	Cigar	'S				sticks		
	Pipe	. .				packet		
	Chew	_				pkt/handful		
	Sniffi Licki	_				teaspoon		
	LICKI	ng				teaspoon		Ц
25.	If you quit.	ı have s	topped using to	bacco/cigar	ette/cigar, p	lease indicate	how lor	ng ago (or the year) you
	25.1	How 1	ong ago since y	ou last used	d smokeless	tobacco?	years.	or Year:
	25.2	How 1	ong ago since y	ou last smo	ked a pipe	or cigars?	years	s. or Year:
	25.3	How l	long ago since y	ou last smo	ked cigaret	ttes?	years	s. or Year:
				AL COULC	NI HOE HE	STODY.		
				ALCOHO	OL USE HI	SIUKY:		
26.	Do yo	u drink	any alcoholic b	everage suc	ch as beer, v	vine, wine coo	olers, or	liquor?
		No , neve Yes, only	er. y at special occa	asions \Box	l No, qu l Yes, D	uit. aily or		efuse to answer t/month.
	26.1		old were you w				1/4	years.
	26.2	If you	u stopped drink	ing alcohol	state age or	year when yo		ed drinking alcohol?

	One d	lrink of a					e of beer, 1 gine cooler, 1		wine, l, 1 shot of l	iquor.
27.	27.1	On the oc	casions wh		drank, abo		w many drink Don't know		have on the av No answer	erage?
	27.2	On the da		ou dran No. of			ny drinks did Don't know		on the averag No answer	e?
28.	28.1	Considering have 5 or	ng all types more drink	s of alco	oholic bev	erages n?	s, how many t	imes in the	e past month d	lid you
				No of t	imes		Don't know		No answer	
	28.2		ng all type: more drink			erages	s, how many t	imes in the	e past month o	lid you
					imes		Don't know		No answer	
29.				lothing	size aroun		ENT HISTOR		ate in size nun	nber or
		Age	20	30	40	50_	60	70+		
	29.129.229.3	Weight (lbs./kg.) Shirt (size/inches Trouser (size/inches					 			
30.	Have y	ou noticed	l any recen	t weigh	t changes	in the	past n	nonths/yea	ars?	
O N	ot at all	O Lo	ot of wt los	s C	Some w	vt loss	OSom	e wt gain	OLot of	wt gain
			3	PHYSI	CAL MEA	ASUR	EMENTS.			
31.	Body	Fat Perce	entage:		_			01-ic.1	141:1	,
32.	Weig	ht (lbs.)		35.	Chest (cr	ns.) _	- Andrews		d thickness (n Biceps:	ıms.):
33.	Heigh	nt (cms.)		36.	Waist (cn	1s.) _		39.	Triceps:	
34.		rm (cms.) _ mference		37.	Hip (cm	ıs.) _		40.	Subscapular	
			41.	Fa	sting Bloc	od Suc	oar•			

DIET CHANGE QUESTIONNAIRE

1.	Is you	r pre	sent diet	differe	ent fron	n what it	was in	•		-			
o	No	o	Yes					(wes	st Africar	is) /	(Africa	n Amer	icans)
	2.	Spe	cify hov	your	diet has	s change	d eithe	in the	items yo	ou eat o	r in the	quanti	ties.
2.1 <u>Car</u> l	List Fo		tems you Meat/fish		r ate in Fruits/	y our ho Drinks		untry / egetable		s ago t <u>Diary</u>	-		ow. thers
2.2 <u>Car</u> i	List Fo		(tems yo (feat/fish			home c o <u>Drinks</u>		/ 10 yea <u>'egetabl</u>		that you <u>Dia</u>		_	at. thers
2.3 Car	List F bohydrate		Items yo Meat/fis			home co <u>Drinks</u>	_	/ 10 yea egetabl	_	and you <u>Di</u> a			ot more. thers
2.4 <u>Car</u>	List Fo bohydrate	od It	ems you <u>Me</u> at/fis			our hom Drinks		i try / 1(egetabl		ago and <u>Di</u> a			very little. thers
3.0	Rate y 100%	our j Ame	past and erican di	presen et. (5 re	it diet o	n a scale its a diet	of 10 that is	to 0, wh 50% At	nere 10 i frican ar	s 100% nd 50%	Africa Americ	n diet, can).	and 0 is
		10	9	8	7	DIET (West A	IN AF Africans 5		3	2	1	0	
	100%	ر بر مراحد الأ											100%
Af	rican	10	9	8	7	6	5	4	3			0	American

DIET IN AMERICA (African Americans and West Africans)



ID	
Date:/	

DIETARY ASSESSMENT

DETAILED FOOD QUESTIONNAIRE

NAME:(Last)	(First)	(Initials)
These questions ask about the foods you ate of	during the LAST THRE	E (3) MONTHS.
Did you eat chicken or turkey during the last three months?	2.0 Did you eat b the last three	eef, pork, lamb or goat during months?
O No (Go to Question 2.) 1.1 When you ate chicken or turkey, how often did you eat the skin? O Almost always O Often O Sometimes O Rarely O Never	O No (Go to Question 3)	O Yes ↓ 2.1 When you ate beef, pork, lamb or goat, how often did you eat the fat? O Almost always O Often O Sometimes O Rarely O Never
 1.2 Did you usually choose O Light meat (wings and breast) O Dark meat (drum-stick / thigh) O Both 1.3 When you ate chicken how was it usually prepared? O Fried in batter (crust) O Fried plain O Baked, Broiled O Grilled (± Barbeque sauce) 	or hamburge O No (Go to	any ground meat, meat balls, r during the last three months? O Yes 3.1 When you ate hamburger or other ground meat, was it usually O Regular O Lean O Extra Lean O Ground turkey O Don't Know

4.0 Did you eat canned fish, tuna, sardines, salmon,	
during the last three months?	5.3 What type of milk or cream(er)
O No (Go to O Yes	did you use in your tea/coffee?
Question 5.) Ψ	O Whole milk
4.1 When you ate canned tuna	O 2% milk
was it usually	O 1% milk
O Water-packed O Oil-packed	O Non-fat or skim milk
O Either one	O Evaporated / Condensed
O Don't know	O Regular/Skim powdered
4.2 When you ate canned tuna	O Non-diary creamer
how was it usually prepared? (Mark one or two.)	O Soy milk
O Tuna, plain	O Half & Half / Cream
O Tuna salad with myonnaise	O None O Don't know
O Tuna noodle casserole	
2 55555 525 545 5455 5455	6 Did you eat cold or hot cereals during the last
<u>5</u> Did you use/drink milk in the last three months?	three months?
O No (Go to O Yes	O No (Go to O Yes (Question 7) ↓
Question 6) Ψ	6.1 When you ate cold cereals,
5.1 What type of milk or milk	what type did you usually eat?
beverage did you drink?	(Mark one or two).
	O Granola cereals
O Whole milk	O High –fiber or bran cereals, FiberOne, Raisin Bran.
O 2% milk	O Whole grain cereals such as
O 1% milk	Cheerios, Shredded Wheat.
O Non-fat or skim milk	O Fortified cereals such as
O Evaporated / Condensed	Total, Product 19.
O Regular powdered milk	O Cereals such as Corn Flakes
O Skim powdered milk	Frosted Flakes, Fruit loops.
O Soy milk O None O Don't know	O Oat meal O 'Corn Pap'
O None O Don't know	7 Did you eat squash, yam or plantain in the last
5.2 What type of milk or	three months?
cream(er)	O No (Go to O Yes
did you usually use on cereal?	Question 8) Ψ
O Whole milk	7.1 When you ate squash, yam,
O 2% milk	plantain how often were they
O 1% milk	fried?
O Non-fat or skim milk	O Almost always
O Evaporated / Condensed	O Often
O Regular/Skim powdered	O Sometimes
O Non-diary creamer	O Rarely
O Soy milk	O Never
O None O Don't know	

<u>8.0</u>	What kinds of fat did you usually use to deep/pan fry or saute foods? (Mark one or two for # 8, 9 and 10)	<u>11.0</u>	What kind of fat do y bread, muffins, tortill	•		
	O Stick margarine		Specify:			
	O Tub margarine					
	O Butter	<u>12.0</u>	What types of ice cre			
	O Shortening (Crisco, lard,		eat in the last three m	onths?		
	bacon fat, salt pork, ham hock)		O Regular			
	O Olive oil or Canola oil		O Low fat	C .		
	O Specify other vegetable oils (corn, peanut, sunflower oil)		O Fat-free / NoO None	tat		
	O Non-stick spray (Pam)	12.0	777			
	O Palm oil	<u>13.0</u>	What type of salad dre usually use?	ssing did you		
	O Do not fry		usually use?			
<u>9.0</u>	Do you usually add fat, stew or sauce		O Regular			
	when cooking beans and vegetables?		O Low-fat (c	liet)		
	O No (Go to O Yes Ouestion 10		O Fat free /	,		
	(Question 10		O Did not us	se dressing		
	O Stick margarine			S		
	O Tub margarine	<u>14.0</u>	Do you use mayonnaise on sandwiches			
	O Butter		and salads?	Ο ν		
	O Shortening (Crisco, lard, bacon fat, salt pork, ham hock)		•	O Yes ↓		
	O Olive oil or Canola oil		14.1 What type	of mayonnaise did		
	O Specify other vegetable oils		you usual	-		
***************************************	(corn, peanut, sunflower oil)		O Re	gular		
	O Non-stick spray (Pam)		O Lo	ow-fat (diet)		
	O Palm oil		O Fa	t free / No fat		
10.0	Do you usually add fat, stew, or sauce to beans and vegetables after cooking?	<u>15.0</u>	Did you eat cookies ((hisauita) during the		
	O No (Go to O Yes	15.0	last three months?	oiscuits) during the		
	(Question 11) ↓		_	O Yes		
	10.1 Specify the type of fat you add.		(Question 16)			
	O Stick margarine					
	O Tub margarine			re they graham		
	O Butter		crackers, vanilla waft biscuit, or special lov			
	O Shortening (Crisco, lard, bacon fat, salt pork, ham hock)		cookies?			
	O Olive oil or Canola oil			most always		
	O Specify other vegetable oils		_	ften		
	(corn, peanut, sunflower oil)		~	ometimes		
	O Non-stick spray (Pam)		_	arely ever		
	O Palm oil		O No	2 A CT		

the last th	6.0 Did you eat cakes or other pastries during the last three months? (African: Buns, egg roll, etc.)						orn flour in any of its forms in months?		
O No	(Go to \mathbf{O} tion 17) \mathbf{V} $\frac{16.1}{\text{ange}}$ spec	Yes How	often were they sponge cakes, or at or no-fat ries? Almost always Often Sometimes Rarely Never		Qu 18.1	In wha flour O (O FO) Specif	t form did you eat corn or or corn meal? Corn Pap / Pudding (Akamu) Kenki or Agidi Corn bread Specify Ty the type of fat, stew or soup tte with it.		
mont O N	Did you eat popcorn in the past three months?					Did you eat corn in the last three months? O No (Go to O Yes Question 20) 19.1 In what form was the corn you a (Excluding popcorn) O Boiled corn-on-the-cub O Roasted corn-on-the-cub O Canned sweet corn O Ekusu (corn pudding)			
	ofte	n did you garine or Almo Ofter	etimes y		<u>19.2</u>		te how you ate boiled or d corn. Plain Peanut/Coconut Margarine / Butter		

O No (Go to O Yes Question 21.)	When you ate fish, shrimps and other sea-foods, were they usually fried
 20.1 In what form did you eat the rice? (Steam / Boiled) O With margarine/butter O Plain + stew/gravy O Fried rice O Jollof rice O Chinese fried rice 	O Fried in batter (crust) O Fried plain O Not fried (Broiled, Baked)
21.0 Did you eat spaghetti, macaroni (pasta) in the last three months?	
O No (Go to O Yes Question 22.) ↓	
21.1 In what form did you eat the pasta? (Steamed/boiled) O With margarine/butter O Plain + tomato stew/sauce O With cheese O Lasagna O Pasta salad	
<u>22.0</u> Did you eat a hamburger or sandwich in the last three months?	е
O No (Go to O Yes Question 23.) ↓	
Which of the following did you usually have on and with your hamburger or sandwich?	
 O Cheese O Mayonnaise O Mustard O French fries O Tomato O Lettuce O Pickle O Specify all others 	



ID _	
Date:	 -

24-HOUR DIETARY RECALL

Last)	(First)	(Initials)
r tell me everything you	ate or drank, all day yester	day. Preparation methods include BOILED,
DEEP OK PAN FRIED	, KOASTED, STEAMED,	GRILLED, POUNDED, STEWED, MIXE
BREAKFAST	AMOUNT	PREPARATION
FOODS EATEN		
		100000000000000000000000000000000000000
LUNCH	AMOUNT	PREPARATION
FOODS EATEN		
	1	
DINNER	AMOUNT	PREPARATION
FOODS EATEN		

STATE AMOUNT EATEN AS: NUMBER OF ITEMS, CUP MEASURE, TEACUP, KITCHEN SPOON, SERVING SPOON, TABLESPOON, TEASPOON, MUG, BOTTLE (specify volume) etc.

ID _	
Date:	

4.	Did you eat or drink anything else between these meals? Remember to record fruits, carrots, chips,
	corn, pop-corn, nuts, biscuits, cookies, chocolate, cakes, drinks, any other snacks.

O NO O YES

Record or tell me everything you ate or drank between meals yesterday.

5. Between BREAKFAST and LUNCH

FOOD EATEN	AMOUNT	PREPARATION				

6. Between LUNCH and DINNER

FOOD EATEN	AMOUNT	PREPARATION

7. Between DINNER and BEDTIME

FOOD EATEN	AMOUNT	PREPARATION

INTERVIEWER:		

FOOD FREQUENCY QUESTIONNAIRE (SOUP & STEWS ONLY)

FOOD	NEVE R	FEW TIMES A YEAR	1-2 TIMES A MONT H	1-2 TIMES A WEEK	3-4 TIMES A WEEK	5-7 TIMES A WEEK	2 OR MORE TIMES A DAY	QUANTITY OR PORTION SIZE EACH TIME
	NIL NO	RARE	OCCAS SIONS	SOME TIMES	OTHE R DAY	DAILY	MANY TIMES	Spoon K1/K2/K3
Plain Vegetable								
Vegetable Tomato								
Plain Groundnut								1,44.
Groundnut Tomato								
Groundnut Vegetable								
Gnut Tomato Vegetable								
Plain Egusi								
Egusi Tomato								
Egusi Vegetable								
Egusi Tomato Vegetable								
Egusi Okra								
Plain Okra								
Okra Tomato								,
Okra Vegetable			51.0					
Okra Tomato Vegetable								
Okra Vegetable Egusi					1000			
Plain Ogbolo								
Ogbolo Tomato								
Ogbolo Okra								
Ogbolo Vegetable								
Ewedu Tomato								
Banga (Palm Sauce)					e.			
Banga Tomato								
Banga Egusi								
Owo					ř.			
Pepper Soup Tomato								
Pepper Soup Native								
<u>List of Vegetables in Soup</u>								Do not state quantity
Green leaf								as this is already
Pumpkin Leaf Bitter Leaf								expressed above
Water Leaf					50.10			with the soup. Just
'Red' Leaf					10.00			record how
Coco yam Leaf								frequently they eat
Sweet Potato Leaf					100			each type of
Collard								vegetable (leaf) in
Spinach								the soup. List
Mustard								additional leaves
Baobab								used.

LIST ANY OTHER ADDITION AFRICAN FOODS.

(Describe the recipe in the lower part of this page)

FOOD	NEVER	FEW TIMES A YEAR	1-2 TIMES A MONTH	1-2 TIMES A WEEK	3-4 TIMES A WEEK	5-7 TIMES A WEEK	2 OR MORE TIMES A DAY	QUANTITY OR PORTION SIZE EACH TIME
	NIL NO	RARE	OCCAS SIONS	SOME TIMES	OTHER DAY	DAILY	MANY TIMES	
A								E1 E2
$\begin{bmatrix} 1 \\ 2 \end{bmatrix}$								
3								
4								,
В								
1								
2								
3			A second					
4								
С								
1								
$\frac{1}{2}$								
3								,
4								
D								
1								
2								
3								
4								

RECIPES:

OTHER AFRICAN FOODS CONTINUE

FOOD	NEVER	FEW TIMES A	1-2 TIMES A	1-2 TIMES A	3-4 TIMES A	5-7 TIMES A	2 OR MORE TIMES	QUANTITY OR PORTION SIZE EACH TIME
	NIL NO	YEAR RARE	MONTH OCCAS SIONS	WEEK SOME TIMES	WEEK OTHER DAY	WEEK DAILY	A DAY MANY TIMES	
Palm wine	1,0			TIMES	D21.1		ILMES	Servicinia
Ogogoro/Burukutu								
Imported Alcohol	G ₁							
Beer/Stout								
Goat meat								A B C
Smoked pork/turkey					di di			
Bush meat								
Can corned beef								
Skin, Feet, Ears								#
Tripe, Chitterlings							1	
Sardines, Canned fish								# pieces/fillet
Smoked ice-fish								
Fresh ice-fish								
Fresh Fish								
Dry fish								
Stock fish								
Large Snail								#
Periwinkles/little snails								
Quaker Oats								Cups
Corn Pap								
Millet flour pap								
Ekusu (corn cake)								Model
Agidi, Kenki	de la companya de la							Wrap
Moimoi (bean cake Akara (bean cake)							4	Wrap/cup
Corn Boil /Roasted								# S/L # G-1
Yam					55	1		# Cob
Pounded Yam								# Y E1
Cocoyam /Cassava boil								# Y
Plantain boil/roast (G/R								# 1 # Whole
Fried Plantain (Dodo)							į.	# Whole/Sl
Plantain/fried chips								# / Pkt
	È							
	191							