## HARVARD MEDICAL SCHOOL



## NURSES' HEALTH STUDY

The said of the sa

PLEASE REPLY TO:

Channing Laboratory 180 Longwood Ave. Boston, Mass. 02115 617-732-2279

APPENDIX 3c 1980 Questionnaire

It is now four years since you responded to the first Nurses' Health Study questionnaire, and I am most gratified at the exceptional continuing support given to this major research project. Over 108,000 (90%) of nurses who replied in 1976 did so again in 1978. Since a continued high level of response is necessary to assure the validity of the scientific findings from the study, we are maintaining our efforts to trace those nurses who did not respond or could not be contacted in 1978.

Since I wrote to you last year, a number of papers from the study have been published.\* The principal findings relate to the possible carcinogenic effects of hair dyes, the relationship of oral contraceptive use with myocardial infarction, and the role of family history in breast cancer. In summary, we found a slight overall excess of cancers associated with use of permanent hair dyes, but we must continue to gather more information, especially on long-term use, before we can reach any firm conclusions about cause and effect. Our findings of a positive association between current use of oral contraceptives and risk of myocardial infarction extend to a large U.S. population a relationship previously reported in England. We have also noted a tendency to an overall increased risk of breast cancer among women in families where a mother or sister has had breast cancer.

This year's questionnaire is a little longer than previous ones. Because of the need to evaluate the role of nutritional factors in the origins of cancer and heart disease (as some of you pointed out to us), and the desire of the National Institutes of Health to pursue research concerning these possible associations, we have expanded the dietary section of the form. We would greatly appreciate your taking the extra few minutes to complete these questions. In addition, one optional question has been added, where we ask you to provide your full first name. This will help enable us to maintain contact with you for the duration of the study.

As always, the information you provide will be held in strictest professional confidence, identified by study number only, and used solely for medical statistical purposes. We will continue to keep you informed of the progress of this study on an annual basis as we did last year, and will mail a further brief questionnaire to you in 1982.

Yours sincerely,

Frank E. Speize, M.D.

Frank E. Speizer, M.D. Principal Investigator

\*References: 1. Lancet, 1979, Vol. 1, p. 1390 (Use of Permanent Hair Dyes and Cancer Among Registered Nurses)

2. Am J Epidemiol, 1980, Vol. 111, p. 59 (Oral Contraceptive Use and Non-fatal Myocardial Infarction)

3. Am J Epidemiol, 1980, Vol. 111, p. 301 (Family History of Breast Cancer as a Risk Indicator for the Disease)

Advisory Committee

Myrtle K. Aydelotte, Ph.D., R.N., F.A.A.N.

Executive Director

American Nurses' Association

Mildred Schmidt, Ed.D., R.N.

President

National Council of State Boards of Nursing

Theima M. Schorr, R.N. Editor American Journal of Nursing Research Group

Christopher Bain, M.B., M.P.H.
Charlene F. Belanger, M.A.
Charles H. Hennekens, M.D., Dr. P.H.
Ingeborg Judge, B.S.
Bernard Rosner, Ph.D.
Frank E. Speizer, M.D.
Walter Willett, M.D., M.P.H.

	10
(1)	(7)



(9)	(14)

#### HARVARD MEDICAL SCHOOL

### NURSES' HEALTH QUESTIONNAIRE

Please answer all questions by filling in the appropriate box or writing in the information requested. Please note that some questions ask for information since June 1978, some ask for current status, and some ask about events over longer periods. All information will be regarded as strictly confidential and will be used only for medical research purposes.

1.	What is your date of birth? / / 2. V	Vhat is yo	our c	urrent weigh	t? (21)		(pounds)
3.	Since June 1978, have you had a pregnancy lasting six month	hs or mo	re?	(	24)	☐ no	
	If yes, delivery date was: (25) month (27) year						
4.	Have you ever tried to become pregnant for more than two you	ears with	out	success? (	29) 🗆 yes	☐ no	
	If yes, was a cause found in: (30)  yourself s	pouse		not found	not in	vestiga	ted
5.	Have your menstrual periods ceased permanently?	(31)		yes	no or o	don't k	now
	If yes, at what age?	(32)		(years of ag	6)		
	If yes, for what reason?	(34)		naturally	☐ radiation	on	surgery
	If due to surgery, were your ovaries removed?	(35)		yes, both	one on	ily	
				no	☐ don't k	now	
	If you had a natural (non-surgical) menopause, have you sub-	sequently	y had	d surgery to r	emove:		
	(a) (36) Doth ovaries OR Done ovary	(37)		yea	ar removed		
	(b) (39) uterus	(40) _		yea	ar removed		
6.	(a) Do you currently use female hormones other than oral co	ontracep	tives	? (4	42)  yes	□ no	
	(b) Since June 1978 have you used female hormones at any	time?		(4	43)  yes	□ no	
	If yes, please state brand name (eg Premarin, DES)	(44) _			Dose (46	3)	mg
	Number of months used since June 1978?	(48) _			(months)		
7.	(a) Do you use any method of contraception currently?			(!	50)  yes	□ no	
	If yes, which method:				e edina y de como		
	(51)  oral contraceptives (54)  condom (birth control pills) (55)  intrauterine dev (52)  rhythm (loop or coil) (53)  diaphragm (56)  foam or jelly	ices	(57) (58) (59)	tubal ligated husband vasectors other (sp	l's ny		
	(b) Have you used oral contraceptives at any time since June	e, 1978?	(60)	□ yes [	□no		
8.	If you are currently using or since June 1978 have used oral contraceptive use starting from June 1978 and continuing unt stopping.  Interval of use month  (10) From to  (20) From to		1100	time. If applie		indicat	
9.	Do you smoke cigarettes currently?		(30)	☐ yes [	no	Wers .	Bart of Bally
	If yes, how many cigarettes do you usually smoke per day (1 pack = 20 cigarettes)  If yes, what brand do you smoke currently? (Please be as specific as you can: e.g. "Marlboro Lights"	?	(31)			(ci	garettes per day)(brand)
	Is it a filter cigarette? (36)  yes no			The Party of the P	and April of the		
		to the ba			ne top.  ur lungs	deep i	into your

# QUESTIONNAIRE (continued)

12	10.	whether you were hospitalized.	100			wing co		STORE SERVE THE	, piease			
(7)		Condition	YES	~	sed		YES	italized NO			Date o	f Diagnosis YEAR
	(0)			20.0								Friday Til
	(9)	High blood pressure (except while pregnant) .  Diabetes mellitus	H		H		H	H				AND DESCRIPTION OF THE PERSON
	(21)	Elevated cholesterol	Ħ		Ħ	*********	H	Ħ	*********			
	(27)	Myocardial infarction (heart attack)	n		ñ	********	П	Ħ			CHI.	The salabases
	(33)	Angina pectoris	ō		Ī						- 1	
	(39)	Fibrocystic breast disease										
	(45)	Other benign breast disease										18/5 71 C
	(51)	Breast cancer							********			
	(57)	Cancer of the cervix - in situ only								13.		-0.750
	(63)	Cancer of the cervix - all other										
	(69)	Cancer of the uterus (endometrium)			Ц	********			*******	_		The state of the s
13	(9)	Cancer of the ovary				*******			********			
(7)	(15)	Cancer of the colon (large bowel)	H			*******			********			-1 - 310 1717
	(21)	Cancer of the rectum	H		H	********		H		-		
	(27)	Cancer of the lung			Ш				*******	-		Tomale .
	(33)	Other cancer (please specify site)			П							
	(42)	Other major illness (please specify)	ш			********	اسا		********			
	(42)	——————————————————————————————————————									practice	- Industria
	_											PER SWIRE
	11.	Do you currently use permanent hair dyes?	(9)		yes	☐ no	If ye	s, how d	often?	(10)	Every	weeks
14		(Please do not include temporary rinses)										
(7)	12.	Do you currently take any of the following vitami	ins or	me	dicatio	ons in <b>n</b>	nost w	eeks?	Num	ber of		
							Hee	d for		ls or		
								many		sules		
		(a) Vitamins			YES	NO		ars?		week		Size
				earns.								The supplication of the
		Multiple vitamins Brand (17)			-							
		Vitamin A					_		-		_ (25) _	units
		Vitamin C			님	H			_		_ (32) _	mgm
		Vitamin E		(36)	Ш						_ (41) _	units
		(b) Medications			YES	NO	Years	of use	Numb	er/wee	k	
		Tagamet (cimetidine)		(45)	П							AS APPEARED
		Thyroid hormone (extract, Synthroid)			n	- Fi						
		Aldomet (methyldopa)			ā	Ō				1112.11		
		Aspirin (includes Bufferin, Anacin, etc.)									1.014	
		Other non-steroidal analgesics (Circle:		Cara ya								
		Motrin/Indocin/Tolectin/Clinoril)		(65)								
		Valium								10 12 11		
15		Thiazide diuretics (Diuril, Hydrodiuril)									_	
(7)		Phenothiazines (eg. Thorazine, Stelazine,										
		Compazine, Mellaril)		(14)			_		-		-	
	13.	Physical Activity Assessment: On an average we	ekda	y an	d wee	kend da	ay duri	ng the p	ast mo	nth, ho	w muc	h time did you
		spend on each of the following activities?						We	ekday		We	ekend day
									s per da	ay)		urs per day)
		<ul> <li>(a) Vigorous activity (digging in garden, vigo walking or striding, bicycling on hills, hea</li> </ul>		140			orisk	(19)				
		(b) Moderate activity (light housework, light					ork					
		ward nursing, painting, bicycling on level	3.54			, jaia vi	01111	(23)				
		At least once a week, do you engage in any regula work up a sweat?	ar acti	vity		r to bris	k walk	ing, jog	ging, bi	cycling	, etc. I	ong enough to
		If yes, how many times per week? (28)				y is this	? (30)			2 1 10		Patiento.
	14	Do you regularly spend time outdoors in the sum									Jeja Tu	ile Si ipasi
	177.						to die	1	41-1-			
	2/200	(33) L yes,						yes, lit	The same		on L	J no
	15.	What is your current marital status? (34) _ mar	rried		widov	ved	Ļ	separa	ated/div	orced		III TOP THE
	16.	What is your first name? (35)										The other call

## **DIET ASSESSMENT**

For each food listed, check the box indicating how often, on average, you have used the amount specified during the past year. If your intake of a food item has greatly increased or decreased during the past 10 years, indicate this in the last 2 columns.

				100		during the years has:						
FOOD AND AMOUNTS	6+ per day	4-6 per day	2-3 per day	1 per day	5-6 per week	2-4 per week	1 per week	1-3 per month	Almost		Greatly	Greatly
Dairy Foods Skim or low fat milk (9 or glasses)										(0)		
Skim or low fat milk (8 oz. glasses)	-1	2	3	4	5.	6	.7	8	9	(9)	W-14	
Whole milk (8 oz. glasses)	1	2	3	4	5	6	7	8	9	(10)		
Yoghurt, (1 c.)	1	2	3	4	5	6	7	.8	9	(11)		
ce cream (½-c.)	1	2	3	4	5	6	7	8	9	(12)	THE RESERVE THE PERSON NAMED IN	
Cottage cheese (1/2-c.)	11	2	3	4	.5	- 6	7	. 8	9	(13)		
lard cheese, plain or as part of dish (slice or servings)	,	2	3		-5	6	7	B.	0	(14)		
Margarine (pats added to food or bread)	1	2	3	4	5	6	7	B	9	(15)	7-14	
Butter (pats added to food or bread)	,	2	3	1	5	6	7	a	0	(16)		
ruits resh apples or pears (1)	-	2	3	4	5	6	7	8	9	(17)		
Dranges (1)	1	2	3	4	5	6	7	8	9	(18)		
Drange or grapefruit juice (small glass)	1	2	3	1	5	6	7	В	9	(19)		
Peaches, apricots or plums fresh, ½-c. canned, or dried)	,	2	3	4	5	6	7	В	9	(20)		
Bananas (1)	1	2	3	4	5	6	7	8	9	(21)		
ther fruits (fresh, or 1/2-c. canned)	1	2	3	4	5	6	7	8	9	(22)		
ring beans (1/2-c.)	1	2	3	4	5	6	7	В	9	(23)		
Broccoli (½-c.)	1	2	3	4	5	6	7	8	g	(24)		
abbage, cauliflower, brussels prouts (½-c.)	,	2	3		5	6	7	В	9	(25)		
Carrots (whole or 1/2-c. cooked)	1	2	3	4	5	6	7	8	9	(26)		
orn (ear or ½-c.)	1	2	3	4	5	6	7	8	Q	(27)		
spinach or other greens (1/2-c.)		2	3	4	5	6	7	8	q	(28)		
Peas or lima beans (1/2-c. fresh, frozen or canned)	1	2	3	4	5	6	7	8	9	(29)		
ellow (winter) squash (1/2-c.)	1	2	3	4	5	6	7	8	g	(30)		
weet potatoes (½-c.)	-1	2	3	4	5	6	7	9	q	(31)	THE STATE OF	
seans or lentils, dried (1/2-c.)	1	2	3	4		6	7	8	9	(32)	70 - 2 1	
omatoes (1) or tomato juice (4 oz.)	1	2	3	4	5	6	7	8	9	(33)	1 1 3.00	The Ball No.
Meats Chicken, without skin (6-8 oz.)		2	9				7	8	0	(34)		
chicken, with skin (6-8 oz.)		2	2	1		6	7	0	0	(35)		
lamburgers (1)		2	3	4		6	7	8	9	(36)	77.0	
lot dogs (1)		2	0	1		0	7	0	0	(37)		
rocessed meats (sausage, salami, ologna, etc.) (piece or slice)		2	3	4		6	7	8	9	(38)		
acon (2 slice servings)		2	3	4	0	0	7	8		(39)		
eef, pork or lamb as a sandwich or nixed dish (stew, casserole, lasagne, etc.)	1	2	3	4	5	6	7	8	9	(40)		
Beef, pork or lamb as a main dish steak, roast, ham, etc. 6-8 oz.)		2	3		5	6	7	9	q	(41)		

		Average use last year										My use during the past 10 years has		
FOOD AND AMOUNTS	6+ per day	4-6 per day	2-3 per day	1 per day	5-6 per week	2-4 per week	1 per week	1-3 per month	Almost Never	erori elese	Greatly	Greatly		
Fish (6-8 oz.)	Armir's	2	3	4	5	6	7	8	9	(9)	shifty maxy	S THEFT		
Eggs (1)	1	2	3	4	5	6	7	8	9	(10)				
Sweets, Baked Goods, Cereals Chocolate (1 oz.)	1	2	3	4	5	6	Vertical 7	8	9	(11)	DVOT MAN	-gemler		
Candy without chocolate (1 oz.)	1	2	3	4	5	6	7	A	9	(12)				
Pie, home made (slice)		2	3	4	5	6	7	8	9	(13)	BL viola or	t would		
Pie, ready made (slice)	1	2	3	4	5	6	7	8	9	(14)	and when I			
Cake, (slice)	1	2	3	4	5	6	7	8	9	(15)				
Cookies (1)	1	2	3	4	5	6	7	8	9	(16)	711/19/77 316	r semilel		
Cold breakfast cereal (1/2-c.)	1	2	3	4	5	6	7	8	9	(17)	atte andert			
White bread (slice)	1	2	3	4	5	6	7	8	9	(18)				
Dark or whole grain bread (slice)	1	2	3	4	5	6	7	8	9	(19)				
Miscellaneous Peanut butter (tbsps)		2	3	4	5	6	7	8	9	(20)				
Potato or corn chips (small bag or 1 oz.)	1	2	3	A	5	6	7	8	9	(21)	ATTER TO	HING H		
French fried potatoes (4 oz.)	1	2	3	4	5	6	7	В	9	(22)				
Nuts (1 oz.)	1	2	3	4	5	6	7	8.	9	(23)				
Potatoes, mashed (1/2-c.) or baked (1)	1	2	3	4	5	6	7	8	9	(24)				
Rice or pasta (1/2-c.)	1	2	3	4	5	6	7	.8	9	(25)	Design of the last			
Coffee, not decaffinated (cups)	1	2	3	4	5	6	7	8	9	(26)		- (9)		
Tea (cups)	1	2	3	4	5	6	7	8	9	(27)	The said of			
Beer (bottles or cans)	1	2	3	4	5	6	7	8	9	(28)				
Wine (glasses)	1	2	3	4	5	6	7	8	9	(29)	e ma sing	(0)		
Liquor - whiskey, gin, etc. (drinks)	1	2	3	4	5	6	7	8	9	(30)				
Coca Cola, Pepsi, other cola (glasses)	1	2	3	4	.5	6	7	8	9	(31)	Laure III	1000		
Low calorie carbonated drink (glasses)	1	2	3	4	5	6	7	8	9	(32)	(2111)			
Other carbonated beverage (root beer, ginger ale, 7-Up, etc.) (glasses)		2	3	4	5	6	7	8	9	(33)	topit []			
Fruit-flavored punch or non-carbonated beverage (glasses)	1	2	3	4	5	6	7.	8	9	(34)				
Home-fried food, any type (servings)	1	2	3	4	5	6	7	8	9	(35)	noniri	Mary 11		
Artificial sweetner (packet, tablets, etc.)					E		7	A	0	(36)				

What do you do with the visible fat on your meat? (10) eat most of it eat some of it eat as little as possible

What kind of fat do you usually use for baking? (11) lard or butter vegetable oil vegetable shortening margarine

What kind of fat do you usually use for frying? (12) lard or butter vegetable oil vegetable shortening margarine

What kind of cold breakfast cereal do you most often use? (specify exact brand) (13)

Do you use a microwave oven? (15) Yes No If yes, for how many years? (16) —

Are you currently on a special diet? (18) Yes No If yes, (19) for years: type of diet (21) —

How many teaspoons of sugar do you add to your food daily? (include for coffee, tea, cereal etc.) (23) — tsp.

In what form do you usually use your margarine? (25) Stick form Tub form

What percentage of the time do you eat your meat cooked well done? (26) — %

What was your weight at age 18? (29) — pounds

THANK YOU. Please return completed questionnaire in the pre-paid envelope to: NURSES HEALTH STUDY, Frank E. Speizer, M.D., Harvard Medical School, 180 Longwood Avenue, Boston, Massachusetts 02115