## AND THE RESIDENCE OF THE PROPERTY AND ADDRESS OF THE PROPERTY Dear Colleague:

It is now twelve years since you completed the first Nurses' Health Study Questionnaire in 1976. Your participation and that of over 120,000 other R.N.s has made this study the largest prospective investigation specifically directed to the health of women. On behalf of our research group I am most grateful for the detailed information you have provided over these years. Whether or not you are still active in nursing, your continued participation is extremely valuable to our further understanding of factors influencing the health of women.

Several important findings have recently emerged from the study. The relation between cigarette smoking and risk of heart disease among women has been clearly documented showing that as few as 1 to 4 cigarettes per day more than doubles the risk of myocardial infarction or death from heart attack<sup>1</sup>. Furthermore, women with increased risk of heart disease, due to high blood pressure, cholesterol or diabetes were at even greater increase in risk if they smoked. We also have observed a strong relation between cigarette smoking and risk of stroke<sup>2</sup>. Reassuringly, the number of smokers in the Nurses' Health Study has declined from 33 percent in 1976 to 27 percent by 1984.

In a subset of women in the study we have determined that the presence of any moles on the arms or legs doubles the risk of melanoma3. In this same group, higher levels of sun exposure in adolescence were more important for risk of melanoma than sun exposure later in life.

Please complete and return the enclosed questionnaire at your earliest convenience. As always, information will be kept strictly confidential and used for medical statistical purposes only. Again, would like to express my deepest gratitude for the contribution you have made to this study. Already this has yielded much useful information, and we are confident that findings during the next several years will provide further important guidance for maintaining optimal health.

Sincerely,

Frank E. Speizer, M.D. Principal Investigator

## RESEARCH GROUP:

Gary Chase, BS Sue-Wei Chiang, MS Graham Colditz, MD Karen Corsano, MA Stephanie Bechtel, BA David Dysert Barbara Egan Lori Egan Elizabeth Frost, BA Sue Hankinson, RN, MS Charles Hennekens, MD Mauricio Hernandez, MD David Hunter, MD Maureen Ireland, BA Stephanie London, MD JoAnn Manson, MD

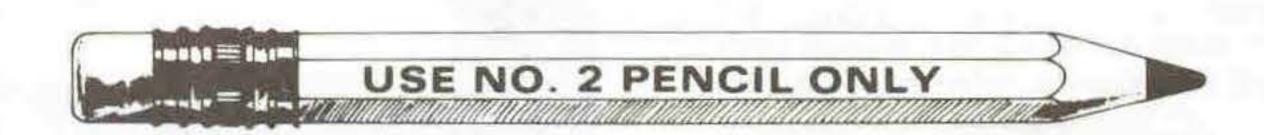
Cynthia Morrow, BA Eve O'Neil Walkyria Paes de Almeida Padma Patel, BS Pradeep Rana, BS Eric Rimm, BS Helaine Rockett, RD Lisa Rodgers, BS Simonetta Salvini, BS Laura Sampson, RD Mark Shneyder, BS Meir Stampfer, MD Steven Stuart, BS Harry Taplin, MA Donna Vincent, RRA Walter Willett, MD

## \*References:

1. Relative and absolute excess risk of coronary heart disease among women who smoke. N Engl J Med 1987; 317: 1303-9

2. Cigarette smoking and risk of stroke in middle-aged women. N Engl J Med 1988; 318: 937-941

3. Self-reports of mole counts and cutaneous malignant melanoma in women: methodologic issues and risk of disease. Am J Epidemiol 1988; 127:703-12



## PLEASE USE AN ORDINARY NO. 2 PENCIL TO ANSWER ALL QUESTIONS.

Fill in the appropriate response circles completely, or write the requested information in the boxes provided. Note that some questions ask for information since June 1986, some ask for current status, and some ask about events over longer periods. The form is designed to be read by optical-scanning equipment, so it is important that you make NO STRAY MARKS and keep any write-in responses within the spaces provided. Should you need to change a response, erase the incorrect mark completely. If you have comments, please write them on a separate piece of paper.

EXAMPLE 1:	
	Please fill circle completely, do <u>not</u> mark this way:
EXAMPLE 2:	Upjohn Unicap with minerals  Please specify exact BRAND and TYPE  Keep handwriting within borders of the response box.
EXAMPLE 3:	WEIGHT: CURRENT WEIGHT (LBS.)
Write your value in the boxes  and fill in the circle corresponding to the figure at the head	① ① ① ② ② ② ③ ③ ③ ④ ④ ④ ④ ④ ④ ④ ④ ④ ④ ④ ④ ④ ④

Thank you for completing the 1988 Nurses' Health Study Questionnaire.

of each column

Please tear off the cover letter (to preserve confidentiality) and return the questionnaire in the enclosed prepaid envelope.

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O Yes O No	b) W (e g the veek s lking or ging (slo ning (†) cling (in swimm nis sthenics verage og (e.g. ding (i.e	d) If this was oral conjugated estro d) If this was oral conjugated estro 30 mg/day or less (Green) 625 mg/day (Brown) e) Dose of Progesterone? (if taken f) What was your pattern of horn Oral estrogen patter Patch estrogen patter Progesterone patter rently smoke cigarettes? low many per day? 1-4 55  What specific brand do you smoke? e.g. "Marlboro Lights 100's") past year, what was your averspent at each of the following a hiking outdoors (include walking at grower than 10 minutes/mile)  O minutes/mile or faster) include stationary machine) ming s/Aerobics/Aerobic Dance/Rowing Machine how many hours per week do at work, at home, driving)?	ogen (e.g. Prema O 9 mg/day ( O 1.25 mg/day O <5 mg none use? n: O Continuo n: O Continuo n: O Continuo n: O T5-24  specify a brand an age time activities: off)  At work At home O Easy, cas	what White)  y (Yellow)  O 5-9 mg  us  us  us  zero  O  O  O  O  O  O  O  O  O  O  O  O  O	1-4 Min. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	t app approach of the course our of average of average our of aver	More to Dose La Oximate oximat	Mare None None None None None None None Non	than week/ week/ week/ week/ week/ week/ ir Hr	mont s/mc (mont s/mc) (a) (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	2-3 Hrs.	4-6 Hrs. OOOOO 60 61 Hrs. OOOOO	7-10 Hrs.	ot use of	
4. During per volume Bicy Lap Ten Cali Sittin Stand	b) V (e) g the veek solking or ging (slowinn) (h) (h) (h) (h) (h) (h) (h) (h) (h) (h	d) If this was oral conjugated estro d) If this was oral conjugated estro 30 mg/day or less (Green) 0.625 mg/day (Brown) e) Dose of Progesterone? (if taken f) What was your pattern of horn Oral estrogen patter Patch estrogen patter Progesterone patter Progesterone patter rently smoke cigarettes? low many per day? 0.1-4 0.5  What specific brand do you smoke? e.g. "Marlboro Lights 100's")— past year, what was your aver spent at each of the following at spent at each of the follow	ogen (e.g. Prema O 9 mg/day ( O 1.25 mg/day O <5 mg none use? n: O Continuo n: O Continuo n: O Continuo n: O T5-24  specify a brand an age time activities: off)  At work At home O Easy, cas	what White)  y (Yellow)  O 5-9 mg  us  us  us  zero  O  O  O  O  O  O  O  O  O  O  O  O  O	O Om O Use O O O O O O O O O O O O O O O O O O O	t app approach of the course our of average of average our of aver	More to Dose La Oximate oximat	Mare None None None None None None None Non	than week/ week/ week/ week/ week/ week/ hrs.	mont s/mc (mont s/mc) (a) (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	2-3 Hrs.	4-6 Hrs. OOOOO 60 61 Hrs. OOOOO	7-10 Hrs. OOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOO	ot use of	

13. Have you ev	er had a ma	ammogran	n?							13 (1)
O Yes —	a) At wh	nat age did	you have	your first m	nammogram?					(3)
	_ 0<	35 0	35-39	) 40-44	O 45-49	050-54	0.55	-59 0	60 or over	(6)
O No	b) How r	many mam	mograms I	nave you ha	d?					0
	- C	)1 ()2	2 03	O4	O5 (	06 07	08	09	○ 10 or m	ore
+						t mammogran				
						)4 Years ()		O 6-9 Yrs	s. 0 10 or m	ore years
4. In how man	y months die	d you prai	ctice brea	_		-	-			
			<del></del>	O Never	Once Once	O 2-3	O 4-6	()7-1	1 ()12	900
5. In the past			-							(19)
A physical e		O No		for symptom		O Yes, for s	- Control of the Cont			9
(Control of the Control of the Contr	ure check?			for symptom		O Yes, for s				Ő
	sterol check?	-		for symptom		O Yes, for s				O
	1?		The second secon	for symptom		O Yes, for se				Q
	blood test?	O No		for symptom		O Yes, for s				0
Sigmoidosco		O No		for symptom		O Yes, for se	ALC: NO.			0
Pelvic exam		O No		for symptom		O Yes, for s	- Carlotte Control			0
Breast exam	by Dr.?	ONo	O Yes,	for symptom	IS	O Yes, for si	creening			0
6. Would you	be willing to	provide a	a venous	blood sam	ple if we se	ent you a col	nvenient			
pre-paid coll	lection packe	et? This w	would requ	uire the as	sistance of	A STATE OF THE PARTY OF THE PAR				(16)
No centrifug	gation or pro-		vould be r	necessary.						
		O Yes	ON	0						
7. What is you	The second secon		A Section 1	To the state of th	and the same of th			- 0		(17)
	O Homemal		Retired		Nursing full-				Von-nursing em	
	total number	Charles and the second	The state of the s		worked rot	ating night s	hifts (at	least 3 n	nights/month	1
	o days or ev			1.00			~	-		(18)
	Never (	) 1-2 yrs (	3-5	O 6-9	O 10-14	O 15-19	20-29	()30	years or more	DEVICE !
9. During ages or sports at	18-22 how least twice						cal activ	ity		
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	15							(9)
	O Never					/year				year
0. During ages				200						(50)
	Regular (with	nin 8 days)	Ou	sually irregula	ir	O Always im	egular	(	No periods	
1. Between the							e the to	tal numb	er of	
menstrual p	eriods misse	d complet	tely (not d	counting a	ny pregnanc	iles).				(3)
			A 20 TWO							
(	) Zero (	) 1-6 (	7-12	O 13-24	O 25 or m	ore		- 0   0 0	T 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
	of the follow				Number o	f Drinks ——	None	< 3 3-6 Per Per	7-13 14+ Per Per	
	our usual nu	imber of c	drinks				V	Veek Week	Week Week	Ö
of alcohol?					Age 18-22		0	0 0	0 0	Ŏ
	drinks equal:				25-30		0	O O	0 0	9
haddlan lann		us 4 oz.			35-40		0	0 0	1010	0
	s of beer, pl		avan 1		2000			0 0	0 0	
	s of beer, pl wine, plus sh		uor.)		The past y		0	00	00	0
glasses of	wine, plus sh week during	hots of liq	year, on	how many	The past y	/ear	0	00	00	<b>O</b>
glasses of solutions of solutions an alcoholic	wine, plus showeek during beverage of	hots of liq the past f any type	year, on		The past y	ou consume		00	00	3
glasses of solutions of solutions an alcoholic	wine, plus sh week during	hots of liq the past f any type	year, on		The past y	ou consume		0 0 0 7 da	OO	<b>O</b>
glasses of an atypical an alcoholic (4. In a typical	wine, plus showeek during beverage of No days of month during	hots of liq the past f any type ) 1 day ( g the past	year, on e? O 2 days t year, wi	03 days	The past y days did y  O 4 days  ne largest nu	ear ou consume  0 5 days	0 6 days	0 0 0 7 da	OO	Ø
3. In a typical an alcoholic (4. In a typical	wine, plus showeek during beverage of No days Omonth during and/or liquo	hots of liq the past f any type ) 1 day ( g the past or you may	year, on e? O 2 days t year, why have ha	O3 days hat was th d in one da	The past y days did y  O 4 days  le largest number  ay?	ou consume  0 5 days  umber of drin	0 6 days	0 0 0 7 da	O O	
3. In a typical an alcoholic (4. In a typical beer, wine,	wine, plus showeek during beverage of No days Ome Month during and/or liquo	hots of liq the past f any type ) 1 day ( g the past or you may ) 1-2 (	year, on e? O 2 days t year, why have ha O 3-5	O 3 days hat was the d in one da O 6-9	The past y days did y  O 4 days  le largest number  ay?	ear ou consume  0 5 days	0 6 days	0 0 0 7 da	O O	
glasses of an atypical an alcoholic (4. In a typical beer, wine,	wine, plus showeek during beverage of No days Ome Month during and/or liquo	hots of liq the past f any type ) 1 day ( g the past or you may ) 1-2 (	year, on e? O 2 days t year, why have ha O 3-5	O 3 days hat was the d in one da O 6-9	The past y days did y  O 4 days  le largest number  ay?	ou consume  0 5 days  umber of drin	0 6 days	0 0 5 0 7 da	O O	
3. In a typical an alcoholic (4. In a typical beer, wine, (5. Your Serum	wine, plus showeek during beverage of No days Ome One One Cholesterol	hots of liq the past f any type ) 1 day ( g the past or you may ) 1-2 ( (if within	year, on e? O 2 days t year, why have ha O 3-5 5 years).	O 3 days hat was the d in one da O 6-9	The past y days did y  O 4 days  ne largest nu ay?  O 10-14	ou consume  0 5 days  umber of drin	0 6 days	0 0 0 7 da	O O	
glasses of  3. In a typical an alcoholic  4. In a typical beer, wine,  (5. Your Serum  One)	wine, plus showeek during beverage of No days O month during and/or liquo O None O Cholesterol	hots of liq the past f any type ) 1 day ( g the past or you may ) 1-2 ( (if within	year, on e? O 2 days t year, why have ha O 3-5 5 years).	O 3 days hat was the d in one da O 6-9	The past y days did y  O 4 days  ne largest nu ay?  O 10-14	ou consume  0 5 days  umber of drin	0 6 days	0 0 0 7 da	ays	
glasses of  3. In a typical an alcoholic  4. In a typical beer, wine,  (25. Your Serum  (25. Your Serum  (26. Know	wine, plus showeek during beverage of No days O month during and/or liquo O None O Cholesterol (140 mg/dl	hots of liq the past f any type 1 day ( g the past or you may 1-2 ( (if within	year, on e? O 2 days t year, why have ha O 3-5 5 years).	3 days hat was the d in one da 0 6-9	The past y days did y  O 4 days le largest num  ay?  O 10-14	ou consume  O 5 days  Imber of drin	0 6 days	0 0 0 7 da	ays	
glasses of  3. In a typical an alcoholic  4. In a typical beer, wine,  (25. Your Serum  (25. Your Serum  (26. Know	wine, plus showeek during beverage of No days O month during and/or liquo O None O Cholesterol	hots of liq the past f any type 1 day ( g the past or you may 1-2 ( (if within	year, on e? O 2 days t year, why have ha O 3-5 5 years).	3 days hat was the d in one da 0 6-9	The past y days did y  O 4 days le largest num  ay?  O 10-14	ou consume  O 5 days  Imber of drin	0 6 days	O O	O O	
23. In a typical an alcoholic (24. In a typical beer, wine, (25. Your Serum Oxnov)	wine, plus showeek during beverage of No days O month during and/or liquo O None O Cholesterol (140 mg/dl	hots of liq the past f any type 1 day ( g the past or you may 1-2 ( (if within	year, on e? O 2 days t year, why have ha O 3-5 5 years).	3 days hat was the d in one da 0 6-9	The past y days did y  O 4 days le largest num  ay?  O 10-14	ou consume  O 5 days  Imber of drin	0 6 days	O   O	ays	

26. Are you currently taking any of the following medications at least once a week?	00	o id. On divorage, most intarry days eden interior de year
	32	Alka-Seltzer etc. Do not include Tylenol,
Thyroid hormones (e.g. extract, Synthroid, Levothroid)	33	
Thiazide diurectics (e.g. Diuril, Hydrochlorothiazide, Dyazide, Moduretic)	86	O 15-21 days O 22 or more
O Beta-blockers (e.g. Inderal, Lopressor, Tenomin, Corgard, Blocadren)	90	b. On days you do take aspirin containing products,
Cardizem)	00	O Never take O 1 aspirin O 2
Angiotensin converting enzyme (Ace) inhibitors		O 3-4 O 5-6 O 7 or more
(e.g. Capoten, Vasotec, Prinivil, Zestril)  Insulin		32. Current usual blood pressure:
Oral diabetic medication (e.g. Tolinase, Micronase)		a) SYSTOLIC O<115 mmHg.O 125-134
Other blood pressure medication, specify —		Ounknown O 115-124 O 135-144 O 155-164 O 175+
Cholesterol lowering drugs		b) DIASTOLIC 0 < 75 mmHg. 0 85-89 0 95-104 O unknown 0 75-84 0 90-94 0 105+
specify		33. Do you have an unreasonable fear of being in
27. Did any of your family members ever have:		enclosed spaces such as stores, elevators, etc.?  Often  Sometimes  Never
→ Diabetes	O	34. Do you find yourself worrying about getting
→ Colon or		some incurable illness?
Rectal Cancer		Often Sometimes Never 35. Are you scared of heights?
Paternal Grandmother		O Very O Moderately O Not at all
Other Cancer O Mother O Father O Brother O Sister	0	36. Do you feel panicky in crowds?
28. Is your mother still living?	0	37. Do you worry unduly when relatives are
Yes ONo At what age did she die?		late coming home?
Was this due to:	1000	38. Do you feel more relaxed indoors?
Other (e.g. disease)		O Definitely O Sometimes O Not Particularly
29. Is your <u>father</u> still living?		39. Do you dislike going out alone?  O Yes  O No
Yes ONo At what age did he die?		40. Do you feel uneasy traveling on buses or
─────────────────────────────────────	_	trains, even if they are not crowded?
Other (e.g. disease)		O Very O A little O Not at all
30a. Which diagram best depicts your outline at each age?		41. How many cups or glasses of home tap water do you drink daily? (include water for coffee, tea, reconstituted juices, soup, etc.)
		O None O 1-2 O 3-5 O 6-9 O 10 or more
THE BENEFIT MEN MEN		42. How many cups or glasses of tap water do you drink daily outside your house? (include water for coffee, tea, reconstituted juices, soups, etc.)
Age 5 0 0 0 0 0 0	ő	O None O 1-2 O 3-5 O 6-9 O 10 or more
Age 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	OO	If you regularly take any medications not included in this questionnaire, please list them on a separate sheet.
Age 30 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	Thank You! Please return the questionnaire in the enclosed
Currently O O O O O O	O	postage-paid envelope to: Nurses' Health Study, Frank E. Speizer, Harvard Medical School, 180 Longwood Ave., Boston, MA 02115
b. Which diagram best depicts the approximate outline		Please indicate the name of someone at  a different address that we might write to in the event we are unable to contact you:
of each of your natural parents at age 50 years?		O NAME:
Mother 0 0 0 0 0 0 0 0	VV	O TOTAL TOTA
Father 0 0 0 0 0 0 0 0		O ADDRESS:
• 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Your Social Security Number
		(optional):