



HARVARD  
MEDICAL  
SCHOOL

# NURSES' HEALTH STUDY II



HARVARD  
SCHOOL of  
PUBLIC HEALTH

• Harvard School of Public Health • 677 Huntington Avenue • Boston, Massachusetts 02115 • (617) 432-2279 •

#### Research Group

Walter C. Willett, M.D.  
Principal Investigator  
Stefanie Bechtel, B.A.  
Kim Boulger, B.A.  
Lisa Chasan-Taber, M.P.H.  
Gary Chase, B.S.  
Joyce Clifford, R.N., M.S.N.  
Graham Colditz, M.D.  
Karen Corsano, M.A.  
Gary Curhan, M.D.  
Marlene Goldman, Sc.D.  
Francine Grodstein, Sc.D.  
Sue Hankinson, R.N., Sc.D.  
David Hunter, M.D.  
Ichiro Kawachi, M.D.  
Lisa Litin, R.D.  
JoAnn Manson, M.D.  
Rachel Meyer, B.A.  
Jennifer Nelson, B.A.  
Janet Rich-Edwards, M.P.H.  
Helaine Rockette, R.D., M.S.  
Laura Sampson, R.D., M.S.  
Caren Solomon, M.D.  
Frank Speizer, M.D.  
Donna Spiegelman, Sc.D.  
Meir Stampfer, M.D.  
Lisa Troy, B.A.  
Diana Walsh, Ph.D.  
Lori Ward  
Anne Wolf, M.S.

Dear Colleague:

On behalf of our research group, I again want to express my gratitude for your participation in the Nurses' Health Study II. The accuracy and completeness of the information you provide is truly impressive, and we are confident that this study will provide answers to many critical questions about lifestyle factors, diet, and oral contraceptive use. Analyses of these factors in relation to breast cancer and several other diagnoses will begin soon. We have already begun to analyze information on several common conditions and will report findings to you in our next newsletter.

The enclosed questionnaire continues our every-other-year follow-up. You will note that we ask about your current status for many of the same questions that we posed earlier. We also ask about new medical diagnoses and conditions.

We hope that you give this questionnaire the same attention and care that you did in completing the earlier forms. The validity of this major research undertaking depends directly on complete and accurate follow-up information for all study members. We know that some participants are no longer in active nursing. However, your continued participation is critical regardless of current employment status. As always, the information you provide is strictly confidential and will be used only for medical statistical purposes.

Thank you again for your invaluable participation in this study. We will be sending you the next edition of our newsletter in June of 1994 to update you on the progress of the investigation.

Sincerely,

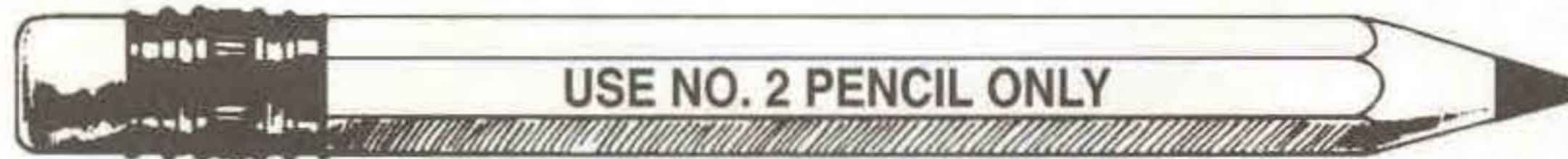
Walter Willett, M.D.  
Professor of Epidemiology and Nutrition

P.S. Your updated questionnaire information is needed to maintain the validity of this study. Your reply within the next two weeks would be greatly appreciated.



# INSTRUCTIONS

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 1991**, 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:** Write in your weight in the boxes...  
 ...and fill in the circle corresponding to the figure at the head of each column.  
 Please fill in the circle completely, do not mark this way:



1. Current Weight

POUNDS		
1	4	3
0	0	0
<input checked="" type="radio"/>	1	1
2	2	2
3	3	<input checked="" type="radio"/>
4	<input checked="" type="radio"/>	4
5	5	5
6	6	6
	7	7
	8	8
	9	9

**NOTE:** It is important that you write in your weight in addition to completing the corresponding circles. This allows us to confirm that the correct circles have been darkened.

**EXAMPLE 2:** Mark "Yes" circle and Year of Diagnosis circle for each illness you have had diagnosed.

11. Since June 1991, have you had any of these physician-diagnosed illnesses?

LEAVE BLANK FOR "NO",  
 MARK HERE FOR "YES"

	YEAR OF DIAGNOSIS		
	Before June 1 1991	June 91 to May 93	After June 1 1993
Stroke (CVA) or TIA	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Melanoma	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Basal cell skin cancer	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

**Thank you for completing the 1993 Nurses' Health Study II Questionnaire.**

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

**If you need to make any changes or corrections to your name/address you may do so on the cover letter and enclose it with your completed questionnaire.**



1. PLEASE USE PENCIL!

**CURRENT WEIGHT**  
POUNDS

0	0	0
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
	7	7
	8	8
	9	9

2. We would like to update your pregnancy history from the time of the first questionnaire in 1989 to the present.

a) Since September 1, 1989 have you been pregnant?

No - go to question 3  Yes

b) Are you currently pregnant?

No  Yes - continue with part c, but do not fill in a bubble for current pregnancy

c) For each pregnancy ending after September 1, 1989, fill in a response bubble for the year during which each pregnancy ended.

Calendar Year	Pregnancies lasting 6 months or more		Pregnancies lasting less than 6 months (include miscarriages/ induced abortions)
	Single Birth	Twins/Triples	
9/1/89 - 12/31/89	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1990	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1991	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1992	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1993	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1994	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

3. Do you CURRENTLY use any of these forms of contraception? (Mark all that apply.)

- None
- Oral contraceptive
- Norplant
- Diaphragm/Cervical cap
- Tubal ligation
- Foam/Jelly/Sponge
- Condom
- Intrauterine device
- Rhythm/NFP
- Vasectomy
- Depo Provera
- Other

4. SINCE JUNE 1991, have you used oral contraceptives (OC's)?

Yes  No

a) How many months have you used OC's since June 1991?  
 1 or less months  2 - 4  5 - 9  10 - 14  15 - 19  20 or more months

0	1	2	3	4	5						
0	1	2	3	4	5	6	7	8	9		
0	1	2	3	4	5	6	7	8	9		

b) Please indicate the brand and type of OC used longest during this time period. Refer to the OC Brand Code Sheet enclosed with this questionnaire and write the code in this box.

5. What is the current usual length of your menstrual cycle (interval from first day of period to first day of next period)?

< 21 days  21-25  26-31  32-39  40-50  51+ days or too irregular to estimate

6. What is the current usual pattern of your menstrual cycles (when not pregnant or lactating)?

Extremely regular (no more than 1-2 days before or after expected)  Very regular (within 3-4 days)  
 Regular (within 5-7 days)  Usually irregular  Always irregular  No periods

7. Have your menstrual periods ceased PERMANENTLY?

- No: Premenopausal
- Yes: No menstrual periods
- Yes: Had menopause but now have periods induced by hormones
- Not sure

a) Age natural periods ceased?

**AGE**

0	0
1	1
2	2
3	3
4	4
5	5
6	6
	7
	8
	9

b) For what reason did your periods cease?

- SURGERY: If due to surgery, were your ovaries removed?  
 Yes, both  Only uterus removed  
 One only
- RADIATION or CHEMOTHERAPY
- NATURAL: If natural (non-surgical) menopause, have you had subsequent surgery to remove ovaries or uterus?  
 No  One ovary removed  
 Uterus removed  Both ovaries removed

8. SINCE JUNE 1991, have you used female replacement hormones (other than oral contraceptives)?

- No
- Yes, currently
- Yes, discontinued

a) How many months have you used them since JUNE 1991?  
 1-4 mo.  5-9  10-14  
 15-19  20+ months

b) Mark the types of hormones you have used the longest during this period.

Estrogen:  Oral Premarin  Estrace  Ogen  Patch Estrogen  
 Vaginal Estrogen  Other Estrogen

Progesterone/Progestin (e.g., Provera):  Oral  Vaginal  Other (specify below)

Other type of hormones used, please specify:

c) If you used oral conjugated estrogen (e.g., Premarin) what dose did you usually take?

.30 mg/day or less (Green)  .625 mg/day (Brown)  .9 mg/day (White)  1.25 mg/day (Yellow)  
 More than 1.25 mg/day  Dose unknown  Did not take oral conjugated estrogen

d) If you used oral Medroxy Progesterone (e.g., Provera, Cycrin), what dose did you usually take?

< 5 mg  5-9 mg  10 mg  More than 10 mg  Dose unknown  Not used

e) What was your pattern of hormone use (Days per Month)?

Oral or Patch Estrogen: Days per Month  Not used  <1 day/mo  1-8 days  9-18  19-26  27+ days/mo

Progesterone: Days per Month  Not used  <1 day/mo  1-8 days  9-18  19-26  27+ days/mo

9. Have you had a tubal ligation?

- No
- Yes -> At what age?  <25  25-29  30-34  35-39  40-44  45+



1	1	1	1	1	1	1	1	2	3	4
2	2	2	2	2	2	2	5	6	7	8
4	4	4	4	4	4	4	9	10	11	12
8	8	8	8	8	8	8	93	94	95	
P	P	P	P	P	P	P	A	B	C	D

← THIS IS YOUR ID

10. Is this your correct date of birth? →

Yes  No

If no, please write correct date.

Month / Day / Year

11. Since June 1991, have you had any of these physician-diagnosed illnesses?

LEAVE BLANK FOR "NO". MARK HERE FOR "YES"

YEAR OF DIAGNOSIS		
Before June 1 1991	June 91 to May 93	After June 1 1993

Myocardial infarction (heart attack)	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	1
Angina pectoris	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	2
Confirmed by angiography?	<input checked="" type="radio"/> No	<input checked="" type="radio"/> Yes		a
Stroke (CVA) or TIA	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	3
Melanoma	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	4
Basal cell skin cancer	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	5
Squamous cell skin cancer	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	6
Fibrocystic/other benign breast dis.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	7
Confirmed by breast biopsy?	<input checked="" type="radio"/> No	<input checked="" type="radio"/> Yes		a
Confirmed by aspiration?	<input checked="" type="radio"/> No	<input checked="" type="radio"/> Yes		b
Breast cancer	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	8
Other cancer:	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	9
Specify site of other cancer:	<input type="text"/>			
High blood pressure (excluding during pregnancy)	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	10
Diabetes: Gestational	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	11
Diabetes: Not pregnancy-related	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	12
Elevated cholesterol	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	13
Deep vein thrombosis/Pul. embolism	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	14
Rheumatoid arthritis, doctor diagnosed	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	15
Rheumatoid factor	<input type="radio"/> Negative/Unknown		<input type="radio"/> Positive	a
Other arthritis	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	16
Colon or rectal polyp (benign)	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	17
Gastric or duodenal ulcer	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	18
Cholecystectomy	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	19
Gall stones	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	20
a) Did you have symptoms?	<input checked="" type="radio"/> No	<input checked="" type="radio"/> Yes		a
b) How diagnosed?	<input type="radio"/> X-ray or ultrasound		<input type="radio"/> Other	b
Polycystic ovaries	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	21
Premenstrual syndrome (PMS)	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	22
Vaginal yeast infection	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	23
Kidney stones	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	24
Pneumonia, X-ray confirmed	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	25
Multiple sclerosis	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	26
Hydatidiform mole (of pregnancy)	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	27
Asthma, Physician Dx	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	28
Ulcerative colitis/Crohn's	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	29
Migraine headaches	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	30
Other major illness or surgery since June, 1991	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	31

Please specify other major illness or surgery:

0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	
0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	
Z	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9

12. Have you EVER had any of these physician-diagnosed illnesses?

LEAVE BLANK FOR "NO". MARK HERE FOR "YES"

YEAR OF DIAGNOSIS			
Before Sept 1989	Sept 89 to May 91	June 91 to May 93	After June 1 1993

Ectopic pregnancy	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	1
High blood pressure (pregnancy-related)	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	2
Toxemia/Pre-eclampsia of pregnancy	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	3
SLE (systemic lupus)	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	4
Active TB (X-ray confirmed)	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	5
Graves' Disease	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	6
Other Hyperthyroidism	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	7
Hypothyroidism	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	8
Thyroid nodule (benign)	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	9
Mitral valve prolapse	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	10
Confirmed by echocardiogram?		<input checked="" type="radio"/> No	<input type="radio"/> Yes		a
Herniated lumbar disk	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	11
Confirmed by CT or MRI?		<input checked="" type="radio"/> No	<input type="radio"/> Yes		a
Other chronic back problem	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	12
Endometriosis - 1st Dx	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	13
Confirmed by laparoscopy?		<input checked="" type="radio"/> No	<input type="radio"/> Yes		a
Uterine fibroid(s) - 1st Dx	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	14
Confirmed by pelvic exam?		<input checked="" type="radio"/> No	<input type="radio"/> Yes		a
Confirmed by ultrasound/hysterectomy?		<input checked="" type="radio"/> No	<input type="radio"/> Yes		b

13. Current Medication (mark if used regularly)

- No regular medication
- Acetaminophen, 2+ times/week (e.g., Tylenol)
- Aspirin, (e.g., Anacin, Bufferin, Alka-Seltzer, etc.)  
Days/week:  <1 day  1 - 2  3 - 4  5 - 7 days
- Other anti-inflammatory analgesics, 2+ times/week (e.g., Ibuprofen, Indocin, Naprosyn, Advil)
- Thiazide diuretic (e.g., Hygroton, Dyazide, HCTZ, Diuril)
- Any anti-hypertensive medication
- Thyroid hormone replacement (e.g., Synthroid, Levothroid)
- Minor Tranquilizers (e.g., Valium, Xanax, Ativan, Librium)
- Major Tranquilizers (e.g., Stelazine, Thorazine, Haldol, Prolixin, Mellaril, Trilafon)

14. Have you ever taken any of the following medications?

- a) Tetracycline:
  - Yes → For how long?  <1 yr.  1-2  3-4  5+yrs
  - No Age @ 1st use:  <15  15-19  20-29  30+
- b) Oral Acutaine:
  - Yes → For how long?  <1 yr.  1-2  3-4  5+yrs
  - No Age @ 1st use:  <15  15-19  20-29  30+
- c) Tricyclic antidepressants (e.g., Elavil, Norpramin, Tofranil, Pamelor, Sinequan, Vivactil, Surmontil):
  - Yes → For how long?  <1 yr.  1-2  3-4  5+yrs
  - No Age @ 1st use:  <15  15-19  20-29  30+
- d) Prozac (Fluoxetine) or Zoloft (Sertraline):
  - Yes → For how long?  <1 yr.  1-2  3-4  5+yrs
  - No

15. a) Your TB skin test since 1989?

- Pos  Neg  Not done  BCG prior to 1989
- b) If ever positive, conversion date:
  - Before 1989  1989+  Never positive
- c) If ever positive, were you treated with INH?
  - Yes  No  Never positive



16. Since June 1991, have you tried to become pregnant for more than one year without success?

- Yes → What was the cause? (Mark all that apply.)
- No
- Tubal blockage     Ovulatory disorder     Endometriosis     Cervical mucous factors
- Spouse/Partner     Not investigated     Not found     Other

17. Have you ever taken Clomid (Clomiphene) or Pergonal to induce ovulation?

- Yes → a) In how many months was Clomid used:     0 months     1     2-3     4-5     6-11     12+ months
- No    b) In how many months was Pergonal used:     0 months     1     2-3     4-5     6-11     12+ months

18. Have you ever had a miscarriage or induced abortion before the sixth month of pregnancy?

- Miscarriage:     No     Yes: at what age(s)     <18     18-20     21-23     24-26     27-29     30-34     35+
- Induced Abortion:     No     Yes: at what age(s)     <18     18-20     21-23     24-26     27-29     30-34     35+

19. Since June 1991, how many months have you worked ROTATING night shifts (at least 3 nights/month in addition to other days and evenings in that month)?

- None     1-4 months     5-9     10-14     15-19     20+ months

20. Which best describes your current employment status?

- Inpatient or ER Nurse     Outpatient/Community     OR Nurse     Nursing Education     Student
- Nursing Administration     Other Nursing     Non-nursing employment     Fulltime Homemaker     Disabled

21. How many times per week do you engage in physical activity long enough to perspire heavily (including swimming)?

- Less than once/week     Once/week     2-3 times/week     4-6 times/week     7 or more times/week

22. In how many months did you practice breast self-examination in the past year?

- None     One month     2-3     4-6     7-11     12 months

23. Since June 1991, have you had:

No    Yes, for screening    Yes, for symptoms

- Mammogram
- Breast exam by clinician
- Colonoscopy/Sigmoidoscopy
- Pap smear

24. How many months in total (all births combined) did you breast feed?

- Did not breast feed     <1 month     1-3 mo.     4-6 mo.     7-11 mo.     12-17 mo.
- No children     18-23 mo.     24-35 mo.     36-47 mo.     48+ mo.     Cannot remember

25. Between the ages of 18 and 30 (excluding illness and pregnancy-related changes):

a) What was your:    Minimum weight \_\_\_\_\_ lbs.    Maximum weight \_\_\_\_\_ lbs.

b) Between the ages of 18 and 30, how many times did you lose each of the following amounts of weight on purpose?

- 5-9 pounds:     0 times     1-2 times     3-4 times     5-6 times     7+ times
- 10-19 pounds:     0 times     1-2 times     3-4 times     5-6 times     7+ times
- 20-49 pounds:     0 times     1-2 times     3-4 times     5-6 times     7+ times
- 50+ pounds:     0 times     1-2 times     3-4 times     5-6 times     7+ times

26. Within the last 4 years (excluding illness and pregnancy-related changes):

a) What was your:    Minimum weight \_\_\_\_\_ lbs.    Maximum weight \_\_\_\_\_ lbs.

b) Within the last 4 years, how many times did you lose each of the following amounts of weight on purpose?

- 5-9 pounds:     0 times     1-2 times     3-4 times     5-6 times     7+ times
- 10-19 pounds:     0 times     1-2 times     3-4 times     5-6 times     7+ times
- 20-49 pounds:     0 times     1-2 times     3-4 times     5-6 times     7+ times
- 50+ pounds:     0 times     1-2 times     3-4 times     5-6 times     7+ times

c) What primary method(s) did you use for your most recent weight loss of 10 or more pounds? (Mark all that apply)

- Did not lose 10 or more pounds     Diet pills     Increased exercise
- Low calorie diet     Commercial weight loss program     Decreased alcohol intake
- Low fat diet     Gastric surgery/intestinal bypass     Resumed/increased smoking
- Skipped meals/fasted     Other
- Weight loss was unintentional (e.g., illness, unusual stress, depression)

27. Do you currently smoke cigarettes?

- No     Yes → How many per day?     1-4     5-14     15-24     25-34     35-44     45 or more

28. What was the cup size of your bra when you were 20 years old? (Estimate if you did not wear a bra.)

- A or smaller     B     C     D or larger

29. How many biological sisters do you have?

- 0     1     2     3     4     5 or more

30. Did your mother or any of your sisters have ovarian cancer?

- No     Yes →  Mother     Sister     Both

31. When your mother was pregnant with you, did she take DES (Diethylstilbestrol) or other hormones?

- Don't know     No     Yes →  DES     Other hormones

Please Continue  
on Page 4



32. In which state were you born?   
 In which state did you live at age 15?   
 In which state did you live at age 30?

33. During summers how many times per week were you outdoors in a swimsuit:   
 a) as a teenager?  <1/week  1/week  2/week  Several/week  Daily   
 b) in the past summer?  <1/week  1/week  2/week  Several/week  Daily

34. When you were outside at the pool or beach, what percent of the time did you wear sunscreen:   
 a) as a teenager?  Not in sun  0%  25%  50%  75%  100%   
 b) in the past summer?  Not in sun  0%  25%  50%  75%  100%

35. Is your biological mother still living?   
 Yes  No → a) At what age did she die?  <50  50-59  60-69  70-79  80+   
 b) Was this due to:  Heart Disease  Cancer  Trauma/Accident/Suicide  Other

36. Is your biological father still living?   
 Yes  No → a) At what age did he die?  <50  50-59  60-69  70-79  80+   
 b) Was this due to:  Heart Disease  Cancer  Trauma/Accident/Suicide  Other

37. What is your current marital status?   
 Married  Divorced/Separated  Widowed  Never Married

38. What is your current living arrangement?   
 Alone  With husband/partner  With other family  Other

39. Do you currently take a multi-vitamin? (Please report additional individual vitamins in question 40.)   
 No  Yes

a) How many do you take per week?  2 or fewer  3-5  6-9  10 or more   
 b) What specific brand do you usually use?   
 (Please specify exact Brand and Type.)

0	1	2	3	4	5	6	7	8	9
0	1	2	3	4	5	6	7	8	9
0	1	2	3	4	5	6	7	8	9
0	1	2	3	4	5	6	7	8	9

40. Not counting multi-vitamins, do you regularly take any of the following preparations:

		AMOUNT PER DAY		
a) Beta-carotene?	<input type="radio"/> No <input type="radio"/> Yes →	<input type="radio"/> Less than 8,000 IU per day	<input type="radio"/> 8,000 to 12,000 IU	<input type="radio"/> 13,000 to 22,000 IU
b) Vitamin A? (excluding carotene)	<input type="radio"/> No <input type="radio"/> Yes →	<input type="radio"/> Less than 8,000 IU per day	<input type="radio"/> 8,000 to 12,000 IU	<input type="radio"/> 13,000 to 22,000 IU
c) Vitamin C?	<input type="radio"/> No <input type="radio"/> Yes, seasonal only <input type="radio"/> Yes, most months	<input type="radio"/> Less than 400 mg.	<input type="radio"/> 400 to 700 mg.	<input type="radio"/> 750 to 1,250 mg.
d) Vitamin E?	<input type="radio"/> No <input type="radio"/> Yes →	<input type="radio"/> Less than 100 IU	<input type="radio"/> 100 to 250 IU	<input type="radio"/> 300 to 500 IU
e) Calcium? (elemental)	<input type="radio"/> No <input type="radio"/> Yes →	<input type="radio"/> Less than 400 mg per day	<input type="radio"/> 400 to 800 mg.	<input type="radio"/> 900-1,200 mg.
f) Folic acid?	<input type="radio"/> No <input type="radio"/> Yes	<input type="radio"/> Less than 100 mg.	<input type="radio"/> 100 to 300 mg.	<input type="radio"/> 301-500 mg.

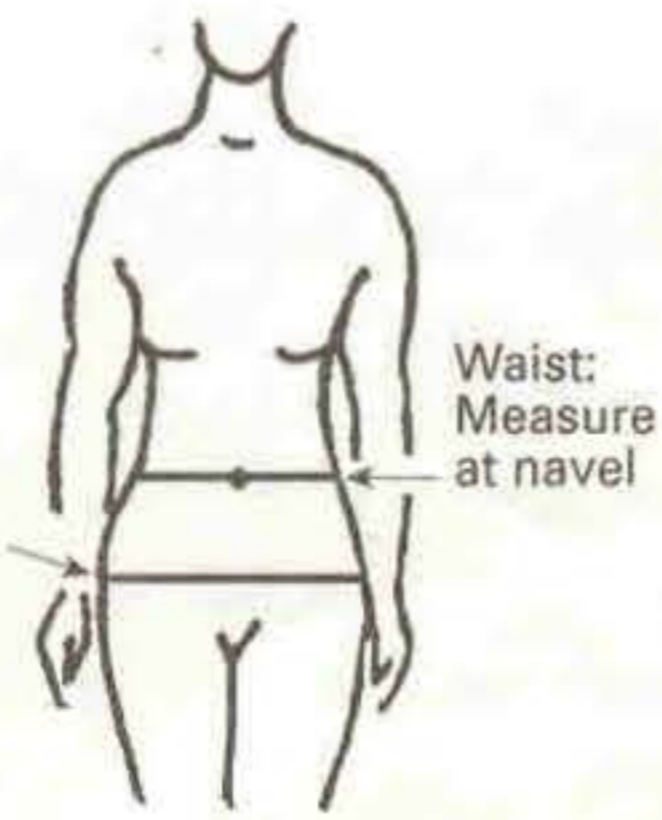
41. Please indicate the name of someone at a DIFFERENT PERMANENT ADDRESS to whom we might write, in the event we are unable to contact you:

Name: \_\_\_\_\_   
 Address: \_\_\_\_\_

42. Question 42, which should only be answered if a tape measure is convenient, asks about body measurements. This information will be more accurate if you follow these suggestions:

- ▶ Make measurements while standing
- ▶ Avoid measuring over bulky clothing
- ▶ Try to record answers to the nearest 1/4 inch (do not estimate)

If a tape measure is not available, please leave blank.



WAIST		HIP	
Inches	Fraction	Inches	Fraction
0	0	0	0
1	1/4	1	1/4
2	2/4	2	2/4
3	3/4	3	3/4
4		4	
5		5	
6		6	
7		7	
8		8	
9		9	



Please copy your ID from page 2 to here.

ID:       -

0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9
										For Office Use Only																			

Many participants have pointed out that stress, personal and family relationships, and other aspects of quality of life are important factors relating to health. We have added the following questions to learn more about these areas. (As always, all of your responses will remain strictly confidential.)

**43. These questions are about how you feel and how things have been with you during the past 4 weeks.**

For each question, please give the one answer that comes closest to the way you have been feeling.

How much of the time during the past 4 weeks ...

(Mark one response on each line.)

	All of the time	Most of the time	A Good Bit of the time	Some of the time	A Little of the time	None of the time
Did you feel full of pep?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Have you been a very nervous person?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Have you felt so down in the dumps nothing could cheer you up?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Have you felt calm and peaceful?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Did you have a lot of energy?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Have you felt downhearted and blue?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Did you feel worn out?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Have you been a happy person?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Did you feel tired?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**44. During the past 4 weeks, how much of the time has your physical health or have emotional problems interfered with your social activities (like visiting with friends, relatives, etc.)?**

All of the time  Most of the time  Some of the time  A little of the time  None of the time

**45. Please choose the answer that best describes how true or false each of the following statements is for you. (Mark one response on each line.)**

	Definitely True	Mostly True	Not Sure	Mostly False	Definitely False
Over the past 4 weeks, I have felt about the same as I have felt during the past year	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I seem to get sick a little easier than other people	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I am as healthy as anybody I know	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I expect my health to get worse	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
My health is excellent	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**46. The following items are about activities you might do during a typical day. Does your health now limit you in these activities? If so, how much? (Mark one response on each line.)**

	Yes, Limited A Lot	Yes, Limited A Little	No, Not Limited At All
Vigorous activities, such as running, lifting heavy objects, participating in strenuous sports	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Moderate activities, such as moving a table, pushing a vacuum, bowling, or golfing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lifting or carrying groceries	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Climbing several flights of stairs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Climbing one flight of stairs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Bending, kneeling, or stooping	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Walking more than a mile	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Walking several blocks	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Walking one block	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Bathing or dressing yourself	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**47. During the past 4 weeks, have you had any of the following problems with your work or other regular daily activities as a result of any emotional problems (such as feeling depressed or anxious)? (Mark one response on each line.)**

- a) Cut down the amount of time you spent on work or other activities  Yes  No
- b) Accomplished less than you would like  Yes  No
- c) Didn't do work or other activities as carefully as usual  Yes  No

**48. During the past 4 weeks, to what extent has your physical health or have emotional problems interfered with your normal social activities with family, friends, neighbors, or groups?**

Not at all  Slightly  Moderately  Quite a bit  Extremely

**49. How much bodily pain have you had during the past 4 weeks?**

None  Very mild  Mild  Moderate  Severe  Very severe

**50. During the past 4 weeks, how much did bodily pain interfere with your normal work (including both work outside the home and housework)?**

Not at all  A little bit  Moderately  Quite a bit  Extremely

**51. During the past 4 weeks, have you had any of the following problems with your work or other regular daily activities as a result of your physical health? (Mark one response on each line.)**

- a) Cut down the amount of time you spent on work or other activities  Yes  No
- b) Accomplished less than you would like  Yes  No
- c) Were limited in the kind of work or other activities  Yes  No
- d) Had difficulty performing the work or other activities (for example, it took extra effort)  Yes  No

PLEASE CONTINUE ON PAGE 6



52. In general, would you say your health is:  Excellent  Very Good  Good  Fair  Poor 52
53. Do you have an unreasonable fear of being in enclosed spaces such as stores, elevators, etc.?  Often  Sometimes  Never 53
54. Do you find yourself worrying about getting some incurable illness?  Often  Sometimes  Never 54
55. Are you scared of heights?  Very  Moderately  Not at all 55
56. Do you feel panicky in crowds?  Always  Sometimes  Never 56
57. Do you worry unduly when relatives are late coming home?  Yes  No 57
58. Do you feel more relaxed indoors?  Definitely  Sometimes  Not particularly 58
59. Do you dislike going out alone?  Yes  No 59
60. Do you feel uneasy traveling on buses or trains even when they are not crowded?  Very  A little  Not at all 60
61. If you are retired or stopped working due to illness/injury, at what age were you last in paid employment?  Still working  < Age 25  25 - 29  30 - 34  35 - 39  Age 40 or older 61

62. If you have been employed within the past 2 years, the following questions relate to your current or most recent job:  Not employed in last 2 years 62

Please choose the answer which best describes the degree to which you agree or disagree with each of the following statements.

	Strongly Disagree	Disagree	Agree	Strongly Agree
My job requires that I learn new things	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
My job involves a lot of repetitive work	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
My job requires me to be creative	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
My job allows me to make a lot of decisions on my own	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
My job requires a high level of skill	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
On my job, I have very little freedom to decide how I do my work	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I get to do a variety of different things on my job	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I have a lot of say about what happens on my job	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I have an opportunity to develop my own special abilities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
My job requires working very fast	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
My job requires working very hard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
My job requires lots of physical effort	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I am not asked to do an excessive amount of work	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I have enough time to get the job done	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
My job security is good	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I am free from conflicting demands that others make	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
People I work with are competent in doing their jobs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
People I work with take a personal interest in me	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
People I work with are friendly	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
People I work with are helpful in getting the job done	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	Strongly Disagree	Disagree	Agree	Strongly Agree	Not Applicable
a) My supervisor is concerned about the welfare of those under her	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
My supervisor pays attention to what I am saying	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
My supervisor is helpful in getting the job done	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
My supervisor is successful in getting people to work together	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

b) How long have you worked in the job you described above?  < 6 months  6 months - 11 months  1 - 2 years  3 - 4 years  5 - 9 years  10 or more years b

c) How many hours per week do you work, on average, in your job?  < 15 hours  15 - 20  21 - 40  41 - 60  61 - 80  More than 80 hours per week c

63. How many hours per week do you spend in housework (including cooking, cleaning, shopping for food, doing laundry and dishes, doing repairs, paying bills, making arrangements and caring for children)?  0 - 19 hours  20 - 39  40 - 59  60 - 79  80 - 100 hours 63

64. Thinking of all the things that are done in your household, what percentage do you personally do?  0 - 25 percent  26 - 39  40 - 60  61 - 74  75 - 99  100 percent 64

65. Is there any one special person you know that you feel very close to; someone you feel you can share confidences and feelings with?  Yes  No a

a) How often do you see or talk with this person?  Daily  Weekly  Monthly  Several times/year  Once/year or less X Y L

**THANK YOU!**

Please return the questionnaire in the enclosed postage-paid envelope to:

Walter Willett, M.D.  
Nurses' Health Study II

677 Huntington Avenue  
Boston, MA 02115