

eTable 1. Association between randomized multivitamin assignment and the risk of total cancer according to baseline characteristics and treatment assignment in the Physicians' Health Study II.

Group	Multivitamin			P Interaction
	No. of Men (No. of Total Cancer Events)		Hazard Ratio ^a (95% CI)	
	Active	Placebo		
Age, years				0.06
50-59	2,944 (335)	2,947 (349)	0.96 (0.83-1.11)	
60-69	2,348 (529)	2,348 (523)	1.01 (0.89-1.14)	
≥70	2,025 (426)	2,029 (507)	0.82 (0.72-0.93)	
Body mass index, kg/m²				0.26
<25	3,039 (502)	3,021 (573)	0.86 (0.76-0.97)	
25-29	2,463 (627)	2,348 (642)	0.97 (0.87-1.08)	
≥30	815 (161)	826 (163)	1.01 (0.81-1.26)	
Smoking status				0.19
Never	4,145 (657)	4,107 (721)	0.89 (0.80-0.99)	
Former	2,908 (579)	2,944 (587)	0.99 (0.89-1.12)	
Current	255 (53)	269 (70)	0.72 (0.50-1.03)	
Exercise ≥1 time/week				0.34
No	2,699 (497)	2,806 (568)	0.88 (0.78-1.00)	
Yes	4,444 (768)	4,328 (784)	0.95 (0.86-1.05)	
Alcohol consumption				0.44
Rarely/never	1,391 (220)	1,339 (234)	0.87 (0.72-1.05)	
≥1 drink/month	5,874 (1,061)	5,942 (1,136)	0.94 (0.86-1.02)	
Current aspirin use				0.18
No	1,625 (256)	1,636 (302)	0.83 (0.70-0.98)	
Yes	5,602 (1,021)	5,565 (1,062)	0.95 (0.87-1.03)	
Parental history of cancer ^b				0.012
No	2,956 (476)	2,881 (528)	0.86 (0.76-0.98)	
Yes	3,319 (652)	3,402 (639)	1.05 (0.94-1.17)	
History of cancer				0.07
No	6,669 (1,195)	6,660 (1,253)	0.94 (0.87-1.02)	
Yes	648 (95)	664 (126)	0.73 (0.56-0.96)	
Fruit and vegetable intake ^c				0.50
<4 servings/day	2,994 (505)	3,075 (542)	0.94 (0.84-1.06)	
4-7 servings/day	2,729 (514)	2,615 (510)	0.97 (0.85-1.09)	
≥7 servings/day	935 (144)	962 (174)	0.83 (0.66-1.03)	
Whole grain intake ^c				0.68
<2 servings/day	4,952 (863)	4,999 (905)	0.95 (0.86-1.04)	
≥2 servings/day	1,685 (297)	1,644 (319)	0.91 (0.78-1.07)	

Multivitamin				
Group	<u>No. of Men</u>		Hazard Ratio ^a (95% CI)	<i>P</i> Interaction
	(No. of Total Cancer Events)			
	Active	Placebo		
Red meat intake ^c				0.30
<1 serving/day	4,900 (834)	4,928 (860)	0.97 (0.88-1.06)	
≥1 servings/day	1,736 (326)	1,704 (360)	0.88 (0.76-1.02)	
Randomized to vitamin C				0.82
Placebo	3,653 (638)	3,659 (689)	0.92 (0.82-1.02)	
Active	3,664 (652)	3,665 (690)	0.93 (0.84-1.04)	
Randomized to vitamin E				0.93
Placebo	3,667 (643)	3,659 (684)	0.92 (0.83-1.03)	
Active	3,650 (647)	3,665 (695)	0.93 (0.83-1.03)	
Randomized to β-carotene				0.50
Placebo	3,632 (638)	3,645 (664)	0.95 (0.85-1.06)	
Active	3,685 (652)	3,679 (715)	0.90 (0.81-1.00)	

Abbreviations: CI, confidence interval; HR, hazard ratio.

- a Adjusted for age, PHS cohort (original PHS I participant, new PHS II participant), and randomized treatment assignment (beta-carotene, multivitamin, and vitamin C).
- b Excludes 2,083 men with missing information on parental history of cancer.
- c Among 13,310, 13,280, and 13,268 men with available dietary data on fruit and vegetable, whole grain, and red meat intake, respectively.

eTable 2. Vitamins and minerals contained in the Centrum Silver formulation used in the Physicians' Health Study II trial.

Vitamin or mineral	Amount
Vitamin A (IU)	5000*
Vitamin C (mg)	60
Vitamin D (IU)	400
Vitamin E (IU)	45
Vitamin K (µg)	10
Thiamin (mg)	1.5
Riboflavin (mg)	1.7
Niacin (mg)	20
Vitamin B6 (mg)	3
Folic Acid (µg)	400
Vitamin B12 (µg)	25
Biotin (µg)	30
Pantothenic Acid (mg)	10
Calcium (mg)	200
Iron (mg)	4
Phosphorus (mg)	48
Iodine (µg)	150
Magnesium (mg)	100
Zinc (mg)	15
Selenium (µg)	20
Copper (mg)	2
Manganese (mg)	3.5
Chromium (µg)	130
Molybdenum (µg)	160
Chloride (mg)	72.6
Potassium (mg)	80
Boron (µg)	150
Nickel (µg)	5
Vanadium (µg)	10
Silicon (mg)	2

* 50% as beta-carotene