

Supplemental Online Content

Chandler PD, Chen WY, Ajala ON, et al; VITAL Research Group. Effect of vitamin D₃ supplements on development of advanced cancer: a secondary analysis of the VITAL randomized clinical trial. *JAMA Netw Open*. 2020;3(11):e2025850.
doi:10.1001/jamanetworkopen.2020.25850

eTable 1. Hazard Ratios (HR) and 95% Confidence Intervals (CI) of Other Cancers by Randomized Vitamin D, All Years of Follow-up

eTable 2. Hazard Ratios (HR) and 95% Confidence Intervals (CI) of Specific Cancers and Mortality by Randomized Vitamin D

eTable 3. Randomized Vitamin D, Hazard Ratios (HR) and 95% Confidence Intervals (CI) for Total Metastatic and Cancer Mortality by Race

This supplemental material has been provided by the authors to give readers additional information about their work.

eTable 1. Hazard Ratios (HR) and 95% Confidence Intervals (CI) of Other Cancers by Randomized Vitamin D, All Years of Follow-up^a

Outcome	No of Events		HR	95%CI	P-value
	Active Treatment (N=12,927)	Placebo (N=12,944)			
Confirmed Cancer + Cancer Death					
Bladder Cancer	13	23	0.57	0.29-1.12	0.10
Brain Cancer	10	11	0.91	0.39-2.15	0.83
Cervical Cancer	2	3	0.67	0.11-4.01	0.66
Esophageal Cancer	10	12	0.84	0.36-1.95	0.69
Other female genital	2	4	0.50	0.09-2.73	0.43
Pancreatic Cancer	28	32	0.88	0.53-1.46	0.61
Stomach Cancer	13	7	1.86	0.74-4.67	0.18
Thyroid Cancer	10	12	0.83	0.36-1.93	0.67
Uterine Cancer	35	20	1.75	1.01-3.03	0.046
Kidney Cancer	18	23	0.78	0.42-1.45	0.44
Leukemia Cancer	22	22	1.00	0.56-1.81	0.99
Liver Cancer	7	12	0.59	0.23-1.49	0.26
Lung Cancer	74	74	1.00	0.73-1.38	0.99
Lymphoma Cancer	23	32	0.72	0.42-1.23	0.24
Melanoma Cancer	51	53	0.96	0.66-1.42	0.85
Multiple Myeloma Cancer	10	15	0.67	0.30-1.49	0.33
Ovarian Cancer	8	9	0.89	0.34-2.31	0.81

^aAnalyses were from Cox regression models that were controlled for age, sex, and omega-3 fatty acid randomization group. Analyses were not adjusted for multiple comparisons. Analyses were done as intention-to-treat over all years of follow-up

eTable 2. Hazard Ratios (HR) and 95% Confidence Intervals (CI) of Specific Cancers and Mortality by Randomized Vitamin D^a

Disease Outcome	No of Events		HR	95% CI	P-value
	Vitamin D (N=12,927)	Placebo (N=12,944)			
Confirmed Metastatic Cancer					
Metastatic breast cancer	2	2	1.00	0.14–7.09	1.00
Metastatic prostate cancer	3	8	0.38	0.10–1.42	0.15
Metastatic colorectal cancer	6	4	1.51	0.42–5.34	0.53
Death					
Death from breast cancer	6	3	2.00	0.50–7.99	0.33
Death from prostate cancer	3	9	0.34	0.09–1.24	0.10
Death from colorectal cancer	9	14	0.65	0.28–1.50	0.31
Confirmed Metastatic Cancer or Cancer					
Metastatic breast cancer / breast cancer death	6	4	1.50	0.42–5.30	0.53
Metastatic prostate cancer / prostate cancer death	6	14	0.43	0.17–1.12	0.09
Metastatic colorectal cancer / colorectal cancer death	12	15	0.81	0.38–1.73	0.58

^aAnalyses were from Cox regression models that were controlled for age, sex, and omega-3 fatty acid randomization group. Analyses were not adjusted for multiple comparisons. Analyses were done as intention-to-treat over all years of follow-up

eTable 3. Randomized Vitamin D, Hazard Ratios (HR) and 95% Confidence Intervals (CI) for Total Metastatic and Cancer Mortality by Race^a

Subgroup Category	Total	No. Events in Groups		Hazard Ratio		P-Interaction
		Vitamin D	Placebo	HR (95%CI)	P-value	P-value
Total Metastatic Cancer/ Cancer Mortality						
Race	25,304					0.94
Non-Hispanic White	18,046	163	205	0.80 (0.65–0.98)	0.03	
Black	5,106	40	46	0.86 (0.56–1.32)	0.49	
Other	2,152	16	19	0.86 (0.44-1.66)	0.65	
Total Metastatic Cancer						
Race	25,304					0.25
Non-Hispanic White	18,046	69	91	0.76 (0.56–1.04)	0.09	
Black	5,106	6	13	0.46 (0.17–1.20)	0.11	
Other	2,152	9	6	1.50 (0.53-4.22)	0.44	
Cancer Mortality						
Race	25,304					0.40
Non-Hispanic White	18,046	106	135	0.79 (0.61–1.02)	0.07	
Black	5,106	37	35	1.06 (0.67–1.68)	0.81	
Other	2,152	8	14	0.58 (0.24-1.38)	0.22	

^aAnalyses were from Cox regression models that were controlled for age, sex, and omega-3 fatty acid randomization group. Analyses were not adjusted for multiple comparisons. Analyses were done as intention-to-treat over all years of follow-up.