

S1. Cancer mortality and serum antioxidant status by race/ethnicity

Serum antioxidants (ug/dl)	Deaths/Cohort	Non-Hispanic Whites			Non-Hispanic Blacks			Hispanics	
		HR	95% CI	Deaths/Cohort	HR	95% CI	Deaths/Cohort	HR	95% CI
Vitamin A									
Q ₁ (<48.43)	32/857	1.19	0.76, 1.87	24/677	1.21	0.56, 2.59	35/1012	1.82	0.90, 3.68
Q ₂ (48.43-59.99)	60/996	Referent	-----	20/387	Referent	-----	25/686	Referent	-----
Q ₃ (60.00-70.60)	57/1141	0.88	0.62, 1.24	16/285	0.79	0.34, 1.84	12/514	0.49	0.21, 1.17
Q ₄ (>70.60)	97/1312	0.98	0.71, 1.35	19/254	1.06	0.44, 2.55	15/357	0.87	0.25, 3.02
Vitamin E									
Q ₁ (<912.80)	38/800	Referent	-----	32/607	Referent	-----	11/626	Referent	-----
Q ₂ (912.80-1156.35)	48/938	0.86	0.62, 1.19	23/486	0.68	0.32, 1.44	29/717	2.45	0.80, 7.52
Q ₃ (1156.36-1532.64)	61/1113	0.74	0.48, 1.14	15/312	0.55	0.26, 1.15	25/686	1.61	0.55, 4.72
Q ₄ (>1532.64)	99/1420	0.99	0.67, 1.45	9/194	0.46	0.21, 1.00	32/542	1.12	0.29, 4.25
α-Tocopherol									
p trend<0.01									
Q ₁ (<649.11)	40/800	Referent	-----	36/614	Referent	-----	11/461	Referent	-----
Q ₂ (649.12-890.80)	44/883	0.99	0.64, 1.54	21/468	0.72	0.35, 1.49	21/670	1.05	0.34, 3.22
Q ₃ (890.81-1290.08)	60/1039	0.95	0.60, 1.51	9/283	0.30	0.12, 0.75	28/662	1.05	0.35, 3.16
Q ₄ (>1290.08)	90/1364	1.06	0.64, 1.77	11/194	0.53	0.26, 1.07	20/456	0.46	0.12, 1.70
γ-Tocopherol									
Q ₁ (<137.90)	68/1187	Referent	-----	13/227	Referent	-----	21/489	Referent	-----
Q ₂ (137.90-215.59)	56/972	1.02	0.66, 1.59	24/392	1.18	0.60, 2.33	21/668	1.60	0.60, 4.25
Q ₃ (215.60-303.91)	45/943	0.81	0.54, 1.23	20/451	0.84	0.31, 2.28	18/565	1.44	0.48, 4.31
Q ₄ (>303.91)	65/1017	0.97	0.68, 1.39	20/494	0.82	0.39, 1.75	20/528	0.93	0.43, 1.99
Total Carotenoids									
Q ₁ (<46.58)	35/624	Referent	-----	17/229	Referent	-----	8/219	Referent	-----
Q ₂ (46.58-63.62)	35/588	1.21	0.85, 1.71	9/221	0.54	0.25, 1.19	9/288	1.41	0.29, 7.00
Q ₃ (63.63-87.21)	30/592	1.37	0.82, 2.31	12/202	0.71	0.34, 1.52	10/295	1.58	0.67, 3.69
Q ₄ (>87.21)	26/637	0.99	0.54, 1.84	6/196	0.32	0.08, 1.28	18/387	1.66	0.49, 5.57
β-Carotene									
Q ₁ (<7.50)	28/533	Referent	-----	12/237	Referent	-----	8/249	Referent	-----
Q ₂ (7.50-12.89)	31/590	1.02	0.57, 1.83	12/222	0.95	0.46, 1.96	12/282	2.37	0.86, 6.51
Q ₃ (12.90-23.27)	30/619	0.96	0.49, 1.92	9/212	0.51	0.15, 1.80	9/348	0.88	0.23, 3.42
Q ₄ (>23.27)	37/717	1.02	0.57, 1.82	11/179	0.64	0.17, 2.41	16/315	1.55	0.42, 5.71

*All analyses were adjusted for age, sex, alcohol use, physical activity levels, smoking status, BMI, history of CVD, cancer, liver problems, and diabetes.

S2. Cardiovascular disease mortality and serum antioxidant level by race/ethnicity

Serum antioxidants (ug/dl)	Deaths/Cohort	Non-Hispanic Whites		Deaths/Cohort	Non-Hispanic Blacks		Deaths/Cohort	Hispanics	
		HR	95% CI		HR	95% CI		HR	95% CI
Vitamin A									
Q ₁ (<48.43)	28/857	1.06	0.49, 2.31	21/677	0.92	0.43, 1.97	24/1012	0.68	0.34, 1.35
Q ₂ (48.43-59.99)	34/996	Referent	-----	15/387	Referent	-----	21/686	Referent	-----
Q ₃ (60.00-70.60)	61/1141	1.21	0.60, 2.45	13/285	0.84	0.36, 1.97	18/514	1.13	0.34, 3.75
Q ₄ (>70.60)	64/1312	1.06	0.58, 1.96	26/254	1.73	0.70, 4.31	18/357	2.51	0.88, 7.19
Vitamin E									
Q ₁ (<912.80)	23/800	Referent	-----	21/607	Referent	-----	14/626	Referent	-----
Q ₂ (912.80-1156.35)	36/938	1.03	0.48, 2.19	19/486	1.06	0.33, 3.41	23/717	0.50	0.19, 1.28
Q ₃ (1156.36-1532.64)	47/1113	1.07	0.55, 2.10	20/312	1.16	0.36, 3.72	24/686	0.54	0.15, 1.89
Q ₄ (>1532.64)	80/1420	1.24	0.64, 2.41	15/194	1.24	0.41, 3.73	20/542	0.70	0.21, 2.33
α-Tocopherol									
Q ₁ (<649.11)	27/800	Referent	-----	24/614	Referent	-----	9/461	Referent	-----
Q ₂ (649.12-890.80)	33/883	1.13	0.55, 2.32	18/468	0.94	0.45, 1.95	15/670	0.52	0.14, 1.97
Q ₃ (890.81-1290.08)	38/1039	1.15	0.60, 2.21	17/283	1.20	0.42, 3.44	17/662	0.51	0.10, 2.82
Q ₄ (>1290.08)	83/1364	1.50	0.78, 2.88	14/194	1.07	0.40, 2.88	19/456	0.78	0.19, 3.12
γ-Tocopherol									
Q ₁ (<137.90)	65/1187	Referent	-----	9/227	Referent	-----	17/489	Referent	-----
Q ₂ (137.90-215.59)	31/972	0.72	0.39, 1.31	14/392	1.10	0.47, 2.57	13/668	0.80	0.23, 2.74
Q ₃ (215.60-303.91)	44/943	1.12	0.68, 1.87	16/451	1.02	0.40, 2.55	14/565	1.78	0.76, 4.19
Q ₄ (>303.91)	42/1017	0.76	0.46, 1.26	34/494	1.87	0.82, 4.24	16/528	1.71	0.32, 9.11
Total Carotenoids									
Q ₁ (<46.58)	29/624	Referent	-----	10/229	Referent	-----	6/219	Referent	-----
Q ₂ (46.58-63.62)	22/588	1.03	0.67, 1.59	5/221	0.26	0.07, 0.97	8/288	1.94	0.45, 8.39
Q ₃ (63.63-87.21)	17/592	1.00	0.33, 3.03	8/202	0.62	0.25, 1.50	2/295	0.45	0.17, 1.19
Q ₄ (>87.21)	27/637	1.23	0.57, 2.65	2/196	0.18	0.02, 1.35	6/387	0.64	0.11, 3.77
β-Carotene									
Q ₁ (<7.50)	17/533	Referent	-----	5/237	Referent	-----	6/249	Referent	-----
Q ₂ (7.50-12.89)	15/590	0.92	0.30, 2.87	10/222	2.94	0.61, 14.11	5/282	0.38	0.16, 0.88
Q ₃ (12.90-23.27)	30/619	1.51	0.56, 4.06	3/212	0.72	0.12, 4.49	6/348	0.65	0.12, 3.38
Q ₄ (>23.27)	34/717	1.31	0.52, 3.30	7/179	1.01	0.19, 5.37	5/315	0.05	0.01, 0.38

*All analyses were adjusted for age, sex, alcohol use, physical activity levels, smoking status, BMI, history of CVD, cancer, liver problems, and diabetes.