

Predicted vitamin D status and colorectal cancer incidence in the Black Women's Health Study

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SUPPLEMENTARY MATERIALS

Supplementary Table S3. Hazard ratios for the association between predicted vitamin D score and risk of colorectal cancer, using predicted score from baseline in 1995 and predicted score updated every two years, N=49,534.

	Overall colorectal cancer (n=488)			Colon cancer (n=370)				Rectal cancer (n=105)		
	Cases	Age-adjusted HR (95% CI) ^a	MV-adjusted HR (95% CI) ^b	Cases	Age-adjusted HR (95% CI) ^a	MV-adjusted (95% CI) ^b	HR	Cases	Age-adjusted HR (95% CI) ^a	MV-adjusted HR (95% CI) ^b
Predicted vitamin D score at baseline										
Quartile 1 (lowest)	154	1.32 (1.02-1.71)	1.28 (0.97-1.70)	120	1.33 (0.99-1.79)	1.34 (0.98-1.85)		31	1.29 (0.73-2.28)	1.13 (0.62-2.08)
Quartile 2	124	1.09 (0.84-1.43)	1.07 (0.81-1.42)	95	1.10 (0.80-1.49)	1.10 (0.80-1.52)		26	1.13 (0.63-2.03)	1.03 (0.56-1.89)
Quartile 3	115	1.06 (0.81-1.39)	1.04 (0.79-1.38)	84	1.02 (0.75-1.41)	1.02 (0.74-1.42)		28	1.24 (0.70-2.21)	1.15 (0.64-2.08)
Quartile 4 (highest)	95	1.00 (ref)	1.00 (ref)	71	1.00 (ref)	1.00 (ref)		20	1.00 (ref)	1.00 (ref)
P-trend		0.03	0.10		0.04	0.12			0.47	0.56
Predicted vitamin D score updated every cycle										
Quartile 1 (lowest)	174	1.38 (1.09-1.75)	1.24 (0.95-1.61)	134	1.48 (1.12-1.95)	1.30 (0.96-1.77)		36	1.20 (0.72-1.99)	1.17 (0.66-2.06)
Quartile 2	93	1.01 (0.77-1.33)	0.93 (0.69-1.24)	75	1.13 (0.83-1.55)	1.02 (0.73-1.43)		17	0.78 (0.42-1.44)	0.77 (0.40-1.48)
Quartile 3	98	1.22 (0.93-1.61)	1.15 (0.86-1.52)	72	1.24 (0.90-1.70)	1.15 (0.82-1.60)		24	1.27 (0.73-2.23)	1.27 (0.70-2.30)
Quartile 4 (highest)	123	1.00 (ref)	1.00 (ref)	89	1.00 (ref)	1.00 (ref)		28	1.00 (ref)	1.00 (ref)
P-trend		0.02	0.22		0.01	0.13			0.78	0.88

^a Hazard ratios adjusted for age and time period.

^b Hazard ratios adjusted for age, time period, family history of colorectal cancer, calcium supplementation, aspirin use, and processed meat consumption.

HR, Hazard ratio; CI, Confidence interval; MV, Multivariable.