

Table S2. Adjusted hazard of colorectal cancer-specific death for women with early-onset colorectal cancer: SEER 18, 1999-2016.

<i>Observational Study Estimate</i>	HR (95% CI)^a	P-value
Early-Onset CRC County		
Non-hot spot	Ref	
Hot spot	0.98 (0.91-1.05)	0.51
Age at Diagnosis		
15 – 24 years	0.76 (0.64-0.90)	0.001
25 – 29 years	0.95 (0.85-1.08)	0.43
30 – 34 years	0.85 (0.78-0.93)	0.0002
35 – 39 years	0.84 (0.79-0.90)	<0.0001
40 – 44 years	0.90 (0.85-0.94)	<0.0001
45 – 49 years	Ref	
Race/Ethnicity		
Non-Hispanic White	Ref	
Non-Hispanic Black	1.35 (1.27-1.44)	<0.0001
Hispanic/Spanish/Latino	1.02 (0.96-1.09)	0.49
Other*	1.03 (0.96-1.11)	0.41
Tumor Site		
Colon	Ref	
Rectosigmoid junction/Rectum	0.80 (0.76-0.85)	<0.0001
AJCC Stage		
0-I	Ref	
II	2.26 (2.00-2.56)	<0.0001
III	4.31 (3.84-4.84)	<0.0001
IV	20.27 (18.08-22.74)	<0.0001
Unknown	2.86 (2.48-3.29)	<0.0001
Histopathology		
Adenocarcinoma	Ref	
Mucinous adenocarcinoma	0.95 (0.89-1.02)	0.14
Signet ring cell carcinoma	2.00 (1.80-2.22)	<0.0001
Other	0.65 (0.59-0.73)	<0.0001
Surgery		
None	Ref	
Yes	0.39 (0.37-0.41)	<0.0001
County-Level Characteristics		
% Non-Hispanic Black population	0.70 (0.58-0.84)	0.0002
% Physical inactivity	1.05 (0.61-1.78)	0.87
% Women age 15-50 years with a live birth in last year	1.01 (0.99-1.03)	0.38
% Household income <\$20,000/year	1.02 (1.01-1.02)	<0.0001

^aAdjusted for female early-onset CRC hot spot, age at diagnosis (years), race/ethnicity, tumor site, marital status, AJCC stage, histopathology, surgery, radiation therapy, chemotherapy, for county level proportions of the percent of the population: women age 15-50 years with a live birth in

past year, physical inactivity, non-Hispanic black population, and household income <\$20,000/year; and clustering by SEER registry.

*Other race/ethnicity includes: American Indian/Alaska Native; Asian or Pacific Islander; or unknown.

Abbreviations: SE, standard error; HR, hazard ratio; CI, confidence interval; CRC, colorectal cancer; AJCC, American Joint Committee on Cancer; Ref, referent.
