

Supplemental Online Content

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

eTable 1. Scoring Criteria and Distribution of Healthy Eating Index–2020 and Alternative Healthy Eating Index–2010 Among Women in the African American Cancer Epidemiology Study (n=483)

HEI-2020 Components	Scoring Criteria			All, Mean Score (SD) (n=483)	Quartiles of HEI-2010, Mean Score (SD)			
	Minimum Score (0)	Maximum Score (5 or 10)			Q1	Q2	Q3	Q4
					(n=121)	(n=121)	(n=121)	(n=120)
Score ranges					≤61.03	61.04-67.93	67.94-74.20	≥74.21
Total Fruits	No Fruit	≥0.8 cup equivalents/1,000 kcal	5	3.70 (1.40)	2.50 (1.35)	3.62 (1.30)	4.09 (1.17)	4.60 (0.79)
Whole Fruits	No Whole Fruit	≥0.4 cup equivalents/1,000 kcal	5	3.77 (1.40)	2.58 (1.29)	3.80 (1.31)	4.10 (1.23)	4.59 (0.90)
Total Vegetables	No Vegetables	≥1.1 cup equivalents/1,000 kcal	5	3.68 (1.24)	2.81 (1.18)	3.50 (1.09)	4.02 (1.10)	4.38 (1.00)
Greens and Beans	No Dark Green Vegetables or Beans and Peas	≥0.2 cup equivalents/1,000 kcal	5	4.25 (1.27)	3.64 (1.52)	4.21 (1.29)	4.45 (1.12)	4.71 (0.82)
Whole Grains	No Whole Grains	≥1.5 oz equivalents/1,000 kcal	10	3.74 (2.59)	2.71 (2.07)	2.97 (2.32)	3.95 (2.49)	5.36 (2.61)
Dairy	No Dairy	≥1.3 cup equivalents/1,000 kcal	10	4.12 (2.25)	3.15 (1.41)	3.55 (1.89)	4.59 (2.34)	5.22 (2.57)
Total Protein Foods	No Protein Foods	≥2.5 oz equivalents/1,000 kcal	5	4.65 (0.66)	4.54 (0.70)	4.71 (0.64)	4.68 (0.65)	4.67 (0.64)
Seafood and Plant Proteins	No Seafood and Plant Proteins	≥0.8 oz equivalents/1,000 kcal	5	4.11 (1.23)	3.18 (1.34)	4.10 (1.25)	4.47 (0.93)	4.69 (0.72)
Fatty Acids	(PUFAs+MUFAs)/SFAs ≤1.2	(PUFAs+MUFAs)/SFAs ≥2.5	10	6.91 (2.32)	5.92 (2.13)	6.77 (2.22)	6.84 (2.21)	8.12 (2.21)
Refined Grains	≥4.3 oz equivalents/1,000 kcal	≤1.8 oz equivalents/1,000 kcal	10	8.60 (1.93)	7.56 (2.44)	8.25 (2.05)	9.08 (1.23)	9.54 (1.01)
Sodium	≥2.0 g/1,000 kcal	≤1.1 g/1,000 kcal	10	4.01 (2.81)	4.11 (2.94)	3.96 (2.98)	3.71 (2.65)	4.25 (2.67)
Added Sugars	≥26% of energy	≤6.5% of energy	10	6.08 (3.08)	4.73 (3.45)	5.78 (3.18)	6.44 (2.61)	7.39 (2.38)
Saturated Fats	≥16% of energy	≤8% of energy	10	6.12 (2.45)	5.14 (2.56)	5.82 (2.39)	6.22 (2.34)	7.29 (2.03)
Total	0	100		67.87 (9.49)	55.73 (4.28)	64.60 (2.10)	71.23 (1.89)	80.01 (4.13)

AHEI-2010 Components	Scoring Criteria			All, Mean Score (SD) (n=483)	Quartiles of AHEI-2010, Mean Score (SD)			
	Minimum Score (0)	Maximum Score (10)			Q1	Q2	Q3	Q4
					(n=121)	(n=121)	(n=121)	(n=120)
Score ranges					≤45.33	45.34-52.47	52.48-59.68	≥59.69
Vegetables	0 servings/day	≥5 servings/day		4.71 (2.85)	3.18 (1.93)	3.89 (2.45)	4.99 (2.76)	6.78 (2.85)
Fruit	0 servings/day	≥4 servings/day		3.55 (2.73)	2.01 (1.56)	3.07 (2.15)	3.71 (2.70)	5.45 (3.06)
Whole grains	0 g/day	≥75 g/day		2.08 (2.31)	1.50 (1.48)	1.60 (1.58)	2.07 (2.27)	3.16 (3.16)
Nuts and legumes	0 servings/day	≥1 servings/day		4.21 (3.38)	2.19 (1.95)	3.39 (2.98)	4.48 (3.37)	6.80 (3.20)
Red/processed meat	≥1.5 servings/day	0 servings/day		5.50 (2.98)	4.14 (2.82)	5.45 (2.82)	5.68 (2.95)	6.73 (2.79)
Sugar-sweetened beverages and fruit juice	≥1 servings/day	0 servings/day		2.78 (3.70)	0.60 (1.86)	1.92 (3.12)	3.35 (3.78)	5.28 (3.93)

Trans Fat	≥4% of energy	≤0.5% of energy	8.02 (1.15)	7.60 (1.26)	7.79 (1.11)	8.15 (0.91)	8.55 (1.07)
Long-chain (n-3) fats (EPA + DHA)	0 mg/day	≥250 mg/day	3.63 (2.71)	2.67 (1.91)	3.31 (2.49)	4.10 (2.97)	4.46 (2.98)
PUFA	≤2% of energy	≥10% of energy	8.43 (1.39)	7.76 (1.52)	8.15 (1.44)	8.67 (1.16)	9.13 (1.00)
Sodium	Highest decile	Lowest decile	6.06 (3.21)	5.85 (2.95)	6.35 (3.34)	6.18 (3.32)	5.85 (3.20)
Alcohol	≥2.5 drinks/day	0.5–1.5 drinks/day	4.14 (1.90)	3.35 (1.50)	4.11 (1.67)	4.44 (2.08)	4.67 (2.02)
Total	0	110	53.12 (10.23)	40.85 (3.73)	49.04 (2.10)	55.81 (2.05)	66.87 (5.78)

HEI-2020, healthy eating index; AHEI-2010, alternative healthy eating index

eTable 2. The Influence of Each Component Score on the Association of the Healthy Eating Index–2020 and Alternate Healthy Eating Index–2010 with Overall Survival Among Women with High-Grade Serous Ovarian Cancer

Components	Scoring Criteria		Model 1 ^{a,c}	Model 2 ^{b,c}
	Minimum Score (0)	Maximum Score (10 or 5)	HR (95% CI)	HR (95% CI)
HEI-2020				
Total Fruits	No Fruit	≥0.8 cup equivalents/1,000 kcal	1.05 (0.94, 1.16)	0.84 (0.72, 0.99)
Whole Fruits	No Whole Fruit	≥0.4 cup equivalents/1,000 kcal	0.97 (0.87, 1.08)	0.86 (0.73, 1.00)
Total Vegetables	No Vegetables	≥1.1 cup equivalents/1,000 kcal	0.93 (0.83, 1.05)	0.86 (0.74, 1.01)
Greens and Beans	No Dark Green Vegetables or Beans and Peas	≥0.2 cup equivalents/1,000 kcal	0.94 (0.85, 1.05)	0.87 (0.74, 1.01)
Whole Grains	No Whole Grains	≥1.5 oz equivalents/1,000 kcal	0.98 (0.94, 1.03)	0.86 (0.74, 1.00)
Dairy	No Dairy	≥1.3 cup equivalents/1,000 kcal	1.03 (0.97, 1.10)	0.84 (0.72, 0.97)
Total Protein Foods	No Protein Foods	≥2.5 oz equivalents/1,000 kcal	1.23 (0.98, 1.56)	0.85 (0.74, 0.99)
Seafood and Plant Proteins	No Seafood and Plant Proteins	≥0.8 oz equivalents/1,000 kcal	0.94 (0.84, 1.04)	0.87 (0.75, 1.01)
Fatty Acids	(PUFAs+MUFAs)/SFAs ≤1.2	(PUFAs+MUFAs)/SFAs ≥2.5	0.95 (0.90, 1.01)	0.88 (0.75, 1.03)
Refined Grains	≥4.3 oz equivalents/1,000 kcal	≤1.8 oz equivalents/1,000 kcal	0.99 (0.92, 1.06)	0.85 (0.73, 1.00)
Sodium	≥2.0 g/1,000 kcal	≤1.1 g/1,000 kcal	0.96 (0.91, 1.01)	0.89 (0.78, 1.02)
Added Sugars	≥26% of energy	≤6.5% of energy	1.01 (0.97, 1.05)	0.84 (0.73, 0.98)
Saturated Fats	≥16% of energy	≤8% of energy	0.95 (0.90, 1.00)	0.88 (0.76, 1.03)
AHEI 2010				
Vegetables	0 servings/day	≥5 servings/day	1.02 (0.97, 1.08)	0.85 (0.73,0.99)
Fruit	0 servings/day	≥4 servings/day	1.01 (0.96, 1.06)	0.86 (0.74,1.00)
Whole Grains	0 servings/day	≥75 g/day	0.98 (0.93, 1.04)	0.89 (0.77, 1.02)
Nuts and Legumes	0 servings/day	≥1 servings/day	1.02 (0.98, 1.06)	0.85 (0.72, 0.99)
Red/processed Meat	≥1.5 servings/day	0 servings/day	0.94 (0.90, 0.98)	0.93 (0.81, 1.07)
Sugar-sweetened Beverages and Fruit Juice	≥1 servings/day	0 servings/day	0.99 (0.95, 1.03)	0.88 (0.75, 1.02)
Trans Fat	≥4% of energy	≤0.5% of energy	1.01 (0.90, 1.13)	0.88 (0.76, 1.01)
Long-chain (n-3) Fats (EPA + DHA)	0 mg/day	≥250 mg/day	1.01 (0.96, 1.06)	0.87 (0.75, 1.00)
PUFA	≤2% of energy	≥10% of energy	0.99 (0.90, 1.10)	0.88 (0.76, 1.02)
Sodium	Highest decile mg/day	Lowest decile mg/day	0.95 (0.91, 1.00)	0.93 (0.82, 1.05)
Alcohol	≥2.5 drinks/day	0.5–1.5 drinks/day	0.98 (0.91, 1.05)	0.89 (0.77, 1.02)

a. Estimated association between a 1-point increase in each dietary component score and survival, adjusted for the overall score without the component under study.

b. Estimated association between a 10-point increase in dietary pattern score and survival, after removing the dietary component under study.

c. Both Cox models also adjusted for age, education, household income, physical activity, smoking status, and study site.

eTable 3. Association of the Healthy Eating Index–2020 and Alternate Healthy Eating Index–2010 with Overall Survival Among Women in the African American Cancer Epidemiology by Stage^{a,b,c}

Dietary Pattern Score	HEI-2020				AHEI-2010			
	Stage I & II ^d		Stage III & IV		Stage I & II ^d		Stage III & IV	
	Deaths/ Participants No.	HR (95%CI)	Deaths/ Participants No.	HR (95%CI)	Deaths/ Participants No.	HR (95%CI)	Deaths/ Participants No.	HR (95%CI)
Quartile [Q] 1 low adherence	7/35	1 (reference)	70/81	1 (reference)	9/32	1 (reference)	70/84	1 (reference)
Q2	11/35	1.52 (0.55, 4.18)	59/79	0.70 (0.49, 0.99)	10/36	0.91 (0.35, 2.39)	58/75	0.79 (0.55, 1.13)
Q3	15/39	1.52 (0.59, 3.91)	60/74	0.90 (0.63, 1.28)	15/37	1.23 (0.51, 2.95)	66/80	1.10 (0.78, 1.56)
Q4 high adherence	14/41	1.23 (0.46, 3.26)	56/71	0.81 (0.56, 1.17)	13/45	0.78 (0.31, 1.96)	51/66	0.96 (0.65, 1.41)
<i>p</i> -trend		0.80		0.44		0.64		0.79
Per 10-point increase		0.95 (0.70, 1.30)		0.96 (0.83, 1.11)		1.00 (0.74, 1.35)		0.96 (0.84, 1.11)

Abbreviations: HEI-2020, healthy eating index; AHEI-2010, alternative healthy eating index.

^aHEI-2020 score range: 0-100; AHEI-2010 score range: 0-110.

^bCox proportional hazard model adjusted for age, education, household income, physical activity, smoking status, and study site.

^cHEI-2020: *p*-interaction=0.22; AHEI-2010: *p*-interaction=0.78

^dResults should be interpreted with caution due to the small sample size in the early stages

eTable 4. Association of the Healthy Eating Index–2020 and Alternate Healthy Eating Index–2010 with Overall Survival Among Women in the African American Cancer Epidemiology by Debulking Status^{a,b,c,d}

Dietary Pattern Score	HEI-2020				AHEI-2010			
	Optimal Debulking		Suboptimal Debulking		Optimal Debulking		Suboptimal Debulking	
	Deaths/ Participants No.	HR (95%CI)	Deaths/ Participants No.	HR (95%CI)	Deaths/ Participants No.	HR (95%CI)	Deaths/ Participants No.	HR (95%CI)
Quartile [Q] 1 low adherence	43/80	1 (reference)	37/41	1 (reference)	44/80	1 (reference)	39/41	1 (reference)
Q2	47/88	0.83 (0.54, 1.27)	30/33	0.84 (0.50, 1.43)	44/87	0.88 (0.57, 1.35)	30/34	0.61 (0.37, 1.00)
Q3	39/78	0.75 (0.48, 1.16)	39/43	1.11 (0.69, 1.80)	46/80	1.16 (0.75, 1.77)	37/41	0.83 (0.51, 1.34)
Q4 high adherence	50/94	0.83 (0.54, 1.27)	25/26	1.00 (0.56, 1.76)	45/93	0.88 (0.56, 1.37)	25/27	0.71 (0.39, 1.28)
<i>p</i> -trend		0.38		0.73		0.82		0.40
Per 10-point increase		0.93 (0.79, 1.09)		1.03 (0.82, 1.28)		0.97 (0.83, 1.12)		0.93 (0.75, 1.15)

Abbreviations: HEI-2020, healthy eating index; AHEI-2010, alternative healthy eating index.

^aHEI-2020 score range: 0-100; AHEI-2010 score range: 0-110.

^bCox proportional hazard model, adjusted for age, education, household income, physical activity, smoking status, and study site.

^cHEI-2020: *p*-interaction=0.77; AHEI-2010: *p*-interaction=0.55