**Table S1.** Third expert report 2018 WCRF/AICR score operationalization in the PREDIMED cohort

	Recommendation	Goals	Operationalization	Scoring
		Ensure that body weight during childhood and adolescence projects towards the lower end of the healthy adult BMI range	Insufficient data available	-
			≥18.5 and ≤24.9 Kg/m <sup>2</sup>	1
1	Be a healthy weight	Keep your weight as low as you can within the healthy range throughout life	>24.9 and <30 Kg/m <sup>2</sup>	0.5
	, , , , , , , , , , , , , , , , , , ,	range unoughout me	<18.5 or ≥30 Kg/m²	0
		A .1 .14	$1^{\mathrm{st}}$ tertile of weight change in all the cohort	1
		Avoid weight gains (measured as body weight or waist circumference) throughout adulthood <sup>a</sup>	$2^{nd}$ tertile of weight change in all the cohort	0.5
		circumicrence) unoughout additiood	$3^{\text{rd}}$ tertile of weight change in all the cohort	0
		Be at least moderately physically active, and follow or	≥150 min MVPA/wk.	1
2	Be physically active	exceed national guidelines (about 60 to 75% of heart rate	≥75 and <150 min MVPA/wk.	0.5
_		maximum)	<75 min MVPA/wk.	0
		Limit sedentary habits	Insufficient data available	-
		Consume a diet that provides at least 20 g/day of fiber from	≥30 g/day	1
		Consume a diet that provides at least 30 g/day of fiber from foods	≥15 and <30 g/day	0.5
		10005	<15 g/day	0
	Eat a diet rich in	Include in most meals foods containing wholegrains, non-	<1 serv. legumes/wk.	0
3	wholegrains, vegetables,	starchy vegetables, fruit and pulses (legumes) such as beans	≥1 and <3 serv. legumes/wk.	0.5
	fruit and beans	and lentils <sup>b</sup>	≥3 serv. legumes/wk.	1
		Eat a diet high in all types of plant foods including at least	≥400 g/day	1
		five portions or servings (at least 400 g in total) of a variety	≥200 and <400 g/day	0.5
		of non-starchy vegetables and fruit every day	<200 g/day	0

	Recommendation	Goals	Operationalization	Scoring
		If you eat starchy roots and tubers as staple foods, eat non- starchy vegetables, fruit and pulses (legumes) regularly too if possible	Insufficient data available	-
	Limit consumption of 'fast	Limit consumption of processed foods high in fat, starches	<1.5 serv./day	1
4	foods' and other processed foods high in fat, starches or	or sugars -including 'fast foods'; many pre-prepared dishes, snacks, bakery foods and desserts; and confectionery	≥1.5 and <3 serv./day	0.5
	sugars	(candy) <sup>c</sup>	≥3 serv./day	0
_	Limit consumption of red	If you eat red meat, limit consumption to no more than about three portions per week. Three portions are equivalent	RM <450 g/wk. and PM <3 g/day	1
3	and processed meat	to about 350 to 500 g cooked weight of red meat. Consume	RM <450 g/wk. and PM ≥3 and <50 g/day	0.5
		very little, if any, processed meat <sup>d</sup>	RM ≥450 g/wk. and PM ≥50 g/day	0
	T		0 g/day	1
6	Limit consumption of sugar sweetened drinks	Do not consume sugar-sweetened drinksd	>0 g/day and <250 g/day	0.5
	sweeteneu urmks	Do not consume sugar-sweetened drinks	≥250 g/day	0
			0 g ethanol/day	1
			>0 to 20 g ethanol/day (women)	0.5
7	Limit alcohol consumption	For cancer prevention, it is best not to drink alcohole	>0 to 40 g ethanol/day (men)	0.5
		For cancer prevention, it is best not to drink alcohol-	>20 g ethanol/day (women)	0
			>40 g ethanol/day (men)	0
8	Do not use supplements for cancer prevention	High-dose dietary supplements are not recommended for cancer prevention - aim to meet nutritional needs through diet alone	Insufficient data available	-
9	For mothers: breastfeed your baby, if you can	This recommendation aligns with the advice of the WHO, which recommends infants are exclusively breastfed for 6 months, and then up to 2 y of age or beyond alongside appropriate complementary foods	Insufficient data available	-

	Recommendation	Goals	Operationalization	Scoring
	After cancer diagnosis:	All cancer survivors should receive nutritional care and guidance on physical activity from trained professionals	Insufficient data available	-
10	follow our Recommendations, if you	Unless otherwise advised, and if you can, all cancer survivors are advised to follow the Cancer Prevention	Insufficient data available	_
	can	Recommendations as far as possible after the acute stage of treatment	insufficient data available	_

<sup>&</sup>lt;sup>a</sup> Distribution of weight gain in the study population over the follow-up. The mean weight change  $\pm$  SD (n) for the 1<sup>st</sup> tertile was -5.1  $\pm$  3.7 Kg (2,409 individuals), -0.2  $\pm$  0.7 Kg (2,376 individuals) for the 2<sup>nd</sup> tertile, and +4.2  $\pm$  3.3 Kg (2,303 individuals) for the 3<sup>rd</sup> tertile.

- <sup>c</sup> We did not include food groups overlapping with other score components such as processed meats and sugar-sweetened beverages. We included those foods categorized in the 3<sup>rd</sup> (processed foods) and 4<sup>th</sup> (ultra-processed foods) groups of the NOVA (a name, not an acronym) classification [1].
- <sup>d</sup> The 3<sup>rd</sup> Expert Report does not provide cut-offs neither for processed meat consumption nor sugar-sweetened beverages intake. Thus, we decided to follow the cutoffs from the previous literature for the comparability of data [2].
- <sup>e</sup> The WCRF/AICR recommendations advise not to consume alcoholic drinks. For those individuals consuming alcohol, the recommendations suggest not to exceed the national guidelines. Therefore, we considered the Dietary Guidelines for the Spanish population (SENC, 2016) [3].

Abbreviations: WCRF/AICR, World Cancer Research Fund/American Institute for Cancer Research; BMI, Body Mass Index; MVPA, moderate-to-vigorous physical activity; wk., week; serv., servings; RM, red meat; PM, processed meat; WHO, World Health Organization; SD, standard deviation; SENC, 'Sociedad Española de Nutrición Comunitaria'.

<sup>&</sup>lt;sup>b</sup> The 3<sup>rd</sup> expert report did not provide cutoffs. Because we have insufficient data available on whole grains consumption, we did not include this food group in the score. Moreover, since fruit and vegetable consumption are considered in another score subcomponent, this item is only composed of legumes consumption (1 serv. = 70 g).

 Table S2. Low-risk lifestyle score operationalization in the PREDIMED cohort

Individual lifestyle risk factors	Operationalization	Scoring
1 Smoking status	Never smoking	1
2 Alcohol consumption	5 to 15 g/day (women) and 5 to 30 g/day (men)	1
3 Physical activity	≥30 min./day MVPA	1
4 AHEI-2010	Upper 40% AHEI-2010	1
5 BMI	BMI (18.5 to 24.9 kg/m²)	1

Abbreviations: min., minutes; MVPA, moderate-to-vigorous physical activity; AHEI, Alternate Healthy Eating Index; BMI, Body Mass Index.

Table S3. Baseline characteristics of the study population in the PREDIMED study according to quartiles of WCRF/AICR score a.

	Quartiles of 2018 WCRF/AICR score					
	Q1	Q2	Q3	$\mathbf{Q4}$	P-value <sup>b</sup>	
Events/non-events (n)	30/1,868	<mark>20/1,793</mark>	<mark>32/1,911</mark>	<mark>15/1,644</mark>		
2018 WCRF/AICR score	<mark>2.9 [2.6-3.2]</mark>	<mark>3.6 [3.4-3.7]</mark>	<mark>4.2 [4-4.3]</mark>	4.9 [4.7-5.2]	<0.001*	
Low-risk lifestyle score	<mark>1.5 [1-2]</mark>	<mark>2 [1-2.5]</mark>	<mark>2 [1.5-2.5]</mark>	<mark>2.5 [2-3]</mark>	<0.001*	
<mark>Age, years</mark>	<mark>66 [62-71]</mark>	<mark>66 [62-71]</mark>	<mark>67 [63-72]</mark>	<mark>67 [63-72]</mark>	<mark>0.787</mark>	
Women, % (n)	55.5 (1,036)	<mark>57.3 (1,027)</mark>	58.6 (1,119 <mark>)</mark>	58.6 (963)	<mark>0.183</mark>	
Education level, % (n)						
Primary, secondary, high school	<mark>91.8 (1,715)</mark>	<mark>92.1 (1,652)</mark>	<mark>94.3 (1,802)</mark>	<mark>93.1 (1,531)</mark>	<mark>0.014*</mark>	
University/graduate	<mark>8.2 (153)</mark>	<mark>7.9 (141)</mark>	<mark>5.7 (109)</mark>	<mark>6.9 (113)</mark>	0.014	
Age at diagnosis of cancer, years	<mark>73 [68.4-78]</mark>	69 [64.7-76.1]	72.4 [67.7-76.5]	<mark>71.7 [63.2-74.8]</mark>	<mark>0.957</mark>	
Family history of cancer, % (n)	<mark>49.8 (915)</mark>	49 (872)	49.6 (938)	<mark>50.5 (823)</mark>	<mark>0.051</mark>	
Diabetes, % (n)	<mark>43.3 (809)</mark>	<mark>46.5 (833)</mark>	50.8 (971)	<mark>55.6 (914)</mark>	<0.001*	
Hypertension, $\%$ $(n)$	84.6 (1,581)	83.5 (1,497)	82.6 (1,579)	<mark>79.9 (1,313)</mark>	<mark>0.002*</mark>	
Waist circumference, cm						
	<mark>100 [94-108]</mark>	<mark>100 [92-106]</mark>	<mark>97 [90-104]</mark>	<mark>96 [89-103]</mark>	<mark>0.018*</mark>	
Men Men	<mark>106 [99-112]</mark>	<mark>104 [98-110]</mark>	101 [96-107]	<mark>96 [89-103]</mark>	<mark>0.179</mark>	
BMI, kg/m²	30.8 [28.3-33.4]	30.4 [27.7-32.9]	28.9 [26.8-31.6]	28.7 [26.4-31.3]	<0.001*	
MVPA, min./wk.	0 [0-37.8]	18.7 [0-182]	98.4 [0-378]	280 [113.7-507.8]	<0.001*	
Smoking status, % (n)						
Never smokers	<del>57.2 (1,069)</del>	59.7 (1,070)	64.3 (1,229)	65.1 (1,070)		
<mark>Former smokers</mark>	<mark>25.5 (477)</mark>	<b>24.3 (436)</b>	24.1 (460)	<mark>24.4 (401)</mark>	<0.001*	
Current smokers	<mark>17.2 (322)</mark>	16 (287)	11.6 (222)	<mark>10.5 (173)</mark>		
Current medication, % (n)						
Aspirin Aspirin	<mark>22.9 (427)</mark>	<mark>22.7 (407)</mark>	<b>21.3 (406)</b>	<mark>22.7 (373)</mark>	0.664	
HRT (only in women)	3.7 (38)	2.8 (29)	2.9 (32)	1.7 (16)	<mark>0.165</mark>	
Intervention groups, % (n)						
MedDiet+EVOO	33.6 (628)	33.7 (604)	32.9 (629)	<mark>37.3 (613)</mark>		
MedDiet+nuts	<mark>32.6 (609)</mark>	33 (592)	34.3 (656)	30.6 (503)	<mark>0.107</mark>	
Control low-fat diet	33.8 (631)	33.3 (59 <del>7</del> )	32.8 (626)	32.1 (528)		
Energy intake (kcal/day)	2,423 [2,043.1-2,834.8]	2,244 [1,868-2,622]	2,116 [1,800-2,453]	1,995.8 [1,705.4-2,321.5]	<0.001*	

AHEI-2010 score	60.3 [54.6-65.7]	63.8 [58.6-69.5]	65.3 [60.6-70.7]	68 [62.8-73.1]	<0.001*
Food consumption, g/day					
	<mark>294.3 [216.5-383.7]</mark>	316.2 [238.3-409.3]	313.7 [237.2-404.3]	336.2 [251.8-433.7]	<0.001*
<b>Fruits</b>	321.4 [213.2-458.1]	332.1 [221.9-482.4]	331.4 [230.7-466.9]	359.7 [243.3-499]	<0.001*
<mark>Legumes</mark>	16.6 [12-25.1]	17.1 [12.6-25.1]	17.1 [12.6-25.1]	17.1 [12.6-25.7]	<0.001*
Red and processed meat	<mark>89.1 [55.7-117.7]</mark>	69.1 [43.4-101.4]	<mark>62.5 [41.3-93]</mark>	54 [32.5-78.4]	<0.001*
Fast food and processed foods	<mark>102.6 [72.5-146.4]</mark>	<mark>77.5 [50-113.9]</mark>	<mark>65.3 [40.1-94.4]</mark>	51.8 [31.4-72.7]	<0.001*
Sugar sweetened beverages	41 [13.3-171.4]	<mark>26.7 [0-85.7]</mark>	<mark>0 [0-85.7]</mark>	0 [0-13.3]	<0.001*
Alcohol Alcohol	4.5 [0.7-13.8]	1.93 [0-11]	1.4 [0-10.4]	<mark>0 [0-5.1]</mark>	<0.001*

<sup>&</sup>lt;sup>a</sup> Data are expressed as medians [IQR, interquartile range] for continuous variables and percentage and number (n) for categorical variables. <sup>b</sup> *P*-values for comparison between colorectal cancer cases and non-cases were calculated by chi-square or t-Student tests for categorical and continuous variables, respectively. All statistical tests were two-sided. \**P*-value <0.05. Abbreviations: AHEI, Alternate Healthy Eating Index; BMI, body mass index; EVOO, extra virgin olive oil; HRT, hormone replacement therapy; MedDiet, Mediterranean Diet; min./wk., minutes/week; MVPA, moderate-to-vigorous physical activity; WCRF/AICR, World Cancer Research Fund/American Institute for Cancer Research.

Table S4. Baseline characteristics of the study population in the PREDIMED study according to tertiles of low-risk lifestyle score a.

	J	ertiles of low-risk lifestyle sco	<mark>re</mark>	
	<mark>T1</mark>	T2	<b>T3</b>	P-value <sup>b</sup>
Events/non-events (n)	<mark>55/3,024</mark>	<mark>27/2,512</mark>	<mark>15/1,583</mark>	
Low-risk lifestyle score	<mark>1 [1-1.5]</mark>	<mark>2 [2-2.5]</mark>	<mark>3.5 [3-3.5]</mark>	<0.001*
2018 WCRF/AICR score	<mark>3.5 [3-4]</mark>	3.9 [3.4-4.4]	4.4 [3.8-4.9]	<mark>0.790</mark>
Age, years	<mark>67 [62-72]</mark>	<mark>67 [62-72]</mark>	<mark>67 [63-72]</mark>	<mark>0.154</mark>
<mark>Women, % (n)</mark>	<mark>54.8 (1,688)</mark>	<mark>62 (1,574)</mark>	<mark>55.3 (883)</mark>	<0.001*
Education level, % (n)				
Primary, secondary, high school	<mark>92.5 (2,848)</mark>	<mark>93.7 (2,380)</mark>	<mark>92.1 (1,472)</mark>	0.087
University/graduate	<mark>7.5 (231)</mark>	<mark>6.3 (159)</mark>	<mark>7.9 (126)</mark>	U.U67
Age at diagnosis of cancer, years	<mark>72.6 [68-76.3]</mark>	68.4 [65.1-75.9]	<mark>73.5 [64.5-78]</mark>	<mark>0.154</mark>
Family history of cancer, % (n)	<mark>50.2 (1,527)</mark>	48.2 (1,209)	51.1 (812)	<0.001*
Diabetes, % (n)	<mark>49.4 (1,520)</mark>	<mark>48.3 (1,225)</mark>	<mark>48.9 (782)</mark>	0.704
Hypertension, $\%$ ( $n$ )	<mark>83.1 (2,558)</mark>	<mark>83.5 (2,121)</mark>	80.8 (1,291)	<mark>0.060</mark>
Waist circumference, cm				
Women Women	<mark>100 [93-107]</mark>	<mark>98 [91-106]</mark>	<mark>95 [87-102]</mark>	<mark>0.023*</mark>
<mark>Men</mark>	<mark>104 [99-111]</mark>	<mark>102 [97-108]</mark>	100 [95-107]	<mark>0.158</mark>
BMI, kg/m²	<mark>30.3 [27.9-33]</mark>	<mark>29.7 [27.3-32.5]</mark>	<mark>28.4 [25.8-31.3]</mark>	<0.001*
MVPA, min./wk.	<mark>0 [0-74.8]</mark>	<mark>70.1 [0-342.8]</mark>	<mark>303.4 [149.5-556]</mark>	<0.001*
Smoking status, % (n)				
Never smokers	<mark>47.9 (1,476)</mark>	<mark>68.5 (1,738)</mark>	<mark>76.6 (1,224)</mark>	
<mark>Former smokers</mark>	<mark>31.7 (975)</mark>	<mark>21.1 (535)</mark>	<mark>16.5 (264)</mark>	<0.001*
Current smokers	<mark>20.4 (628)</mark>	<mark>10.5 (266)</mark>	<mark>6.9 (110)</mark>	
Current medication, $\%$ ( $n$ )				
<mark>Aspirin</mark>	<mark>22.5 (694)</mark>	<mark>22.1 (562)</mark>	<mark>22.3 (357)</mark>	<mark>0.709</mark>
HRT (only in women)	<mark>3.4 (57)</mark>	<mark>2.4 (38)</mark>	<mark>2.3 (20)</mark>	<mark>0.329</mark>
Intervention groups, % (n)				
<mark>MedDiet+EVOO</mark>	<mark>33.7 (1,037)</mark>	<mark>35.3 (895)</mark>	<mark>33.9 (542)</mark>	
MedDiet+nuts	<mark>30.7 (945)</mark>	<mark>31.8 (808)</mark>	<mark>38 (607)</mark>	<0.001*
Control low-fat diet	<mark>35.6 (1,097)</mark>	<mark>32.9 (836)</mark>	38.1 (449)	
<mark>Energy intake (kcal/day)</mark>	<mark>2,227 [1,854.5-2,653.3]</mark>	<mark>2,135 [1,811.8-2,514.7]</mark>	<mark>2,186 [1,875.7-2,530.4]</mark>	<0.001*
AHEI-2010 score	<mark>60.4 [55.6-63.9]</mark>	<mark>66.5 [60.7-71.4]</mark>	<mark>70.8 [67.5-75.1]</mark>	<0.001*

Food consumption, g/day				
	<mark>293.7 [218-380]</mark>	<mark>318.7 [244.8-419.7]</mark>	<mark>347.1 [259.8-445]</mark>	<0.001*
Fruits Fruits	<mark>300 [198.3-425]</mark>	<mark>349.2 [242.6-493.3]</mark>	<mark>379.5 [268.3-527.9]</mark>	<0.05 <mark>7</mark>
<b>Legumes</b>	<mark>16.6 [12-25.1]</mark>	20.6 [16-25.1]	<mark>20.6 [16-25.1]</mark>	<0.001*
Red and processed meat	<mark>75.7 [47.1-106.2]</mark>	<mark>63.8 [39.9-97.6]</mark>	<mark>60.5 [38.2-91.6]</mark>	<0.001*
Fast food and processed foods	<mark>76.4 [48.2-114.8]</mark>	<mark>71.2 [44.3-106]</mark>	68 [44.2-101.8]	<0.001*
Sugar sweetened beverages	<mark>26.7 [0-114.3]</mark>	13.3 [0-85.7]	<mark>0 [0-41.9]</mark>	<0.001*
Alcohol Alcohol	<mark>0.7 [0-4.5]</mark>	1.5 [0-10.4]	<mark>10.2 [1.4-12.5]</mark>	<0.001*

<sup>&</sup>lt;sup>a</sup> Data are expressed as medians [IQR, interquartile range] for continuous variables and percentage and number (n) for categorical variables. <sup>b</sup> *P*-values for comparison between colorectal cancer cases and non-cases were calculated by chi-square or t-Student tests for categorical and continuous variables, respectively. All statistical tests were two-sided. \**P*-value <0.05. Abbreviations: AHEI, Alternate Healthy Eating Index; BMI, body mass index; EVOO, extra virgin olive oil; HRT, hormone replacement therapy; MedDiet, Mediterranean Diet; min./wk., minutes/week; MVPA, moderate-to-vigorous physical activity; WCRF/AICR, World Cancer Research Fund/American Institute for Cancer Research.

**Table S5**. Mutually adjusted HRs and 95% CIs for colorectal cancer risk associated with different categories of a combination of low-risk lifestyle factors at baseline in the PREDIMED study (n=7,216)

		Number of low-risk factors, HR (95% CI)				_
	0 (reference)	1	2	>3	Continuous analysis (1-point increment)	P for trend
Events/non-events (n)	9/601	46/2,423	27/2,512	15/1,583		
Crude model	1.00	1.31 (0.62-2.79)	0.72 (0.32-1.65)	0.61 (0.24-1.52)	0.75 (0.60-0.94)*	0.013*
Model 1	1.00	1.58 (0.75-3.34)	0.87 (0.39-1.96)	0.70 (0.28-1.73)	0.77 (0.62-0.96)*	0.018*
Model 2	1.00	1.59 (0.76-3.34)	0.86 (0.38-1.94)	0.69 (0.28-1.70)	0.77 (0.62-0.95)*	0.016*

Model 1 adjusted for age (years, continuous) and sex.

Model 2 was further adjusted for intervention group (MedDiet + EVOO, MedDiet + nuts, low-fat control), family history of cancer (yes/no), education level (primary or secondary/high school university or graduate), history of diabetes (yes/no), baseline energy intake (Kcal/day, continuous) and treatment with aspirin (yes/no) at baseline.

\*p-value < 0.05

Abbreviations: HR, Hazard Ratio; CI, confidence interval; MedDiet, Mediterranean Diet; EVOO, extra virgin olive oil.

Table S6. HRs and 95% CIs between the 2018 WCRF/AICR and the low-risk lifestyle scores and colorectal cancer risk at baseline in the PREDIMED study by subgroups (age, sex and T2D status)

_	2018 WCRF/AICR score		Low-risk lifestyle score	
	Continuous analysis (1-point increment), HR (95% CI)	P for trend	Continuous analysis (1-point increment), HR (95% CI)	P for trend
Age< 67 years				
Events/non-events (n)	41/3,499	-	41/3,499	-
Crude model	0.89 (0.68-1.17)	0.403	0.78 (0.59-1.05)	0.099
Model 1	0.90 (0.68-1.19)	0.458	0.79 (0.60-1.05)	0.110
Model 2	0.88 (0.67-1.17)	0.382	0.79 (0.60-1.05)	0.109
Age≥ 67 years				
Events/non-events (n)	56/3,717	-	56/3,717	-
Crude model	0.70 (0.50-0.97)*	0.032*	0.73 (0.54-0.99)*	0.041*
Model 1	0.70 (0.50-0.97)*	0.032*	0.76 (0.58-1.00)	0.051
Model 2	0.71 (0.50-0.99)*	0.050*	0.76 (0.58-0.99)*	0.048*
Men				
Events/non-events (n)	57/3,071	-	57/3,071	-
Crude model	0.86 (0.64-1.16)	0.323	0.85 (0.66-1.10)	0.213
Model 1	0.80 (0.58-1.11)	0.185	0.83 (0.65-1.07)	0.154
Model 2	0.85 (0.62-1.17)	0.315	0.84 (0.65-1.08)	0.174
Women				
Events/non-events (n)	40/4,145	-	40/4,145	-
Crude model	0.75 (0.55-1.01)	0.059	0.69 (0.50-0.96)*	0.028*
Model 1	0.75 (0.55-1.02)	0.064	0.70 (0.50-0.97)*	0.030*
Model 2	0.72 (0.51-1.02)	0.064	0.69 (0.50-0.95)*	0.023*

Prevalent T2D				
Events/non-events (n)	50/3,527	-	50/3,527	-
Crude model	0.69 (0.51-0.93)*	0.014*	0.81 (0.60-1.07)	0.142
Model 1	0.68 (0.50-0.92)*	0.012*	0.81 (0.62-1.07)	0.138
Model 2	0.71 (0.53-0.96)*	0.024*	0.81 (0.62-1.06)	0.123
Non-prevalent T2D				
Events/non-events (n)	47/3,689	-	47/3,689	-
Crude model	0.89 (0.64-1.23)	0.475	0.69 (0.50-0.95)*	0.021*
Model 1	0.90 (0.64-1.27)	0.550	0.72 (0.53-0.97)*	0.028*
Model 2	0.87 (0.61-1.24)	0.443	0.71 (0.52-0.95)*	0.021*

Model 1 adjusted for age (years, continuous) and sex.

Model 2 was model 1 plus intervention group (MedDiet + EVOO, MedDiet + nuts, low-fat control), family history of cancer (yes/no), education level (primary or secondary/high school university or graduate), history of diabetes (yes/no), baseline energy intake (Kcal/day, continuous) and treatment with aspirin (yes/no) at baseline. Model 2 for 2018 WCRF/AICR score was further adjusted for current smoker (yes/no), former smoker (yes/no), never smoker (yes/no).

All models were stratified by node. \*p-value <0.05

Abbreviations: HR, Hazard Ratio; CI, confidence interval; WCRF/AICR, World Cancer Research Fund/American Institute for Cancer Research; T2D, type 2 diabetes; MedDiet, Mediterranean Diet; EVOO, extra virgin olive oil.

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