



Table S1 - Multivariable Cox proportional hazards ratio, from competing risk analysis to account for deaths before ACR linkage date in participants who were cancer-free during follow-up, of the incidence of All-Cancers for dietary patterns identified by cluster analysis and stratified by four methods to account for misreporting

	Dietary pattern	Men				Women				
Accounting for misreporters		N	Cancer cases ^a	% of cases misreport	Cancer risk – HR [95%]	N	Cancer cases ^a	% of cases misreport	Cancer risk – HR [95%]	
										Inclusion
	Sweets/Dairy	3233	384	46.6	1.13 [0.96 - 1.33]	4790	419	48.7	1.11 [0.96 - 1.28]	
	Meats/Pizza	3924	341	45.6	1.10 [0.93 - 1.31]	6643	528	43.9	1.14 [0.99 - 1.32]	
InclusionNN	Healthy	3468	349	47.0	1.00	5633	426	51.9	1.00	
	Sweets/Dairy	2619	336	47.5	1.11 [0.95 - 1.30]	3559	287	49.0	1.10 [0.94 - 1.28]	
	Meats/Pizza	3760	297	52.4	0.95 [0.81 - 1.11]	7049	581	42.9	1.14 [1.00 - 1.30]	
ExBefore	Healthy	1780	185		1.00	2919	205		1.00	
	Sweets/Dairy	1221	160		1.08 [0.87 - 1.35]	1873	164		1.28 [1.04 - 1.58]	
	Meats/Pizza	2127	156		0.85 [0.68 - 1.06]	3835	296		1.12 [0.93 - 1.35]	
ExAfter	Healthy	1205	110		1.00	2239	159		1.00	
	Sweets/Dairy	1758	209		1.17 [0.93 - 1.48]	2667	235		1.17 [0.96 - 1.44]	
	Meats/Pizza	2165	182		1.08 [0.84 - 1.39]	3621	271		1.12 [0.91 - 1.38]	

a – All primary cancer cases except non-melanoma skin cancer

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7 Table S2 - Multivariable Cox proportional hazards ratio, from competing risk analysis to account for deaths before ACR linkage date in participants who were cancer-free during follow-up, of the incidence of Dietary-Cancers^a stratified by four methods to account for misreporting.

	Dietary pattern	Men					Women				
Accounting for misreporters		N	Cancer cases ^a	% of cases misreport	Cancer risk - HR [95%]	N	Cancer cases ^a	% of cases misreport	Cancer risk - HR [95%]		
										Inclusion	Healthy
	Sweets/Dairy	3233	107	50.5	1.35 [0.96 - 1.89]	4790	284	43.7	1.05 [0.88 - 1.25]		
	Meats/Pizza	3924	105	38.1	1.42 [1.00 - 2.02]	6643	380	50.0	1.13 [0.96 - 1.34]		
InclusionNN	Healthy	3468	73	53.4	1.00	5633	303	52.1	1.00		
	Sweets/Dairy	2619	110	48.2	1.45 [1.07 - 1.97]	3559	191	43.5	1.00 [0.84 - 1.21]		
	Meats/Pizza	3760	81	43.2	1.13 [0.82 - 1.57]	7049	411	48.7	1.10 [0.94 - 1.28]		
ExBefore	Healthy	1780	34		1.00	2919	145		1.00		
	Sweets/Dairy	1221	57		1.74 [1.12 - 2.72]	1873	108		1.17 [0.91 - 1.50]		
	Meats/Pizza	2127	46		1.23 [0.77 - 1.95]	3835	211		1.07 [0.85 - 1.34]		
ExAfter	Healthy	1205	19		1.00	2239	114		1.00		
	Sweets/Dairy	1758	53		1.50 [0.88 - 2.56]	2667	160		1.09 [0.86 - 1.40]		
	Meats/Pizza	2165	65		1.92 [1.12 - 3.29]	3621	190		1.02 [0.79 - 1.30]		

a – Diet-related cancers based on World Cancer Research Fund/American Institute for Cancer Research Continuous Update Project (WCRF/AICR CUP) report

Table S3 - Multivariable cox proportional hazards ratio, from competing risk analysis to account for deaths before ACR linkage date in participants who were cancer-free during follow-up, of the incidence of Digestive-Cancersa stratified by four methods to account for misreporting

	Dietary pattern	Men				Women				
Accounting for misreporters		N	Cancer cases ^a	% of cases misreport	Cancer risk - HR [95%]	N	Cancer cases ^a	% of cases misreport	Cancer risk - HR [95%]	
										Inclusion
	Sweets/Dairy	3233	76	51.3	1.43 [0.96 - 2.13]	4790	69	34.8	1.17 [0.81 - 1.69]	
	Meats/Pizza	3924	77	40.3	1.45 [0.96 - 2.18]	6643	81	50.6	1.22 [0.84 - 1.77]	
InclusionNN	Healthy	3468	58	44.8	1.00	5633	60	51.7	1.00	
	Sweets/Dairy	2619	69	56.5	1.23 [0.86 - 1.76]	3559	46	34.8	1.25 [0.84 - 1.84]	
	Meats/Pizza	3760	64	42.2	1.10 [0.77 - 1.60]	7049	98	49.0	1.43 [1.02 - 2.01]	
ExBefore	Healthy	1780	32		1.00	2919	29		1.00	
	Sweets/Dairy	1221	30		1.08 [0.64 - 1.82]	1873	30		1.73 [1.03 - 2.89]	
	Meats/Pizza	2127	37		1.01 [0.61 - 1.67]	3835	50		1.43 [0.88 - 2.33]	
ExAfter	Healthy	1205	16		1.00	2239	24		1.00	
	Sweets/Dairy	1758	37		1.37 [0.76 - 2.49]	2667	45		1.42 [0.86 - 2.35]	
	Meats/Pizza	2165	46		1.62 [0.89 - 2.95]	3621	40		1.13 [0.66 - 1.93]	

a – Digestive system cancers based on World Health Organization (WHO) classification