Table S1. The mean	(95%CI) of the frequ	ency of food consur	nption by dietary p	patterns for cancer-c	ontrol sample (times/day)

		Dietary Pat	terns										
Food groups <sup>#</sup>	Total	'Prudent' tertiles		'Non-Healthy' tertiles		'Dressings and sweetened-low-fat dairy' tertiles		'Polish-aMED' levels					
		bottom	middle	upper	bottom	middle	upper	bottom	middle	upper	low	average	high
Size (n)	560	186	188	186	187	187	186	186	187	187	113	278	169
Sugar banay and sweats	2.1	2.1	2.1	2.0	1.3	1.9	3.0	1.9	2.1	2.2	2.2	2.1	1.9
Sugar, honey and sweets	(2.0; 2.2)	(1.9; 2.3)	(1.9; 2.3)	(1.8; 2.2)	(1.2; 1.5)	(1.7; 2.0)	(2.8; 3.2)	(1.8; 2.1)	(1.9; 2.2)	(2.0; 2.4)	(2.0; 2.5)	(1.9; 2.2)	(1.7; 2.:
Red and processed meats	1.5	1.3	1.5	1.6	1.0	1.5	2.0	1.5	1.4	1.5	1.5	1.6	1.2
neu anu processeu meats	(1.4; 1.6)	(1.2; 1.5)	(1.4; 1.6)	(1.5; 1.7)	(0.9; 1.1)	(1.4; 1.6)	(1.9; 2.1)	(1.4; 1.7)	(1.2; 1.5)	(1.4; 1.7)	(1.3; 1.6)	(1.5; 1.7)	(1.1; 1.4
Animal fats	1.2	1.0	1.2	1.3	0.7	1.1	1.7	1.9	1.1	0.5	1.2	1.3	0.9
Animariats	(1.1; 1.3)	(0.9; 1.2)	(1.1; 1.4)	(1.2; 1.4)	(0.6; 0.8)	(1.0; 1.2)	(1.6; 1.9)	(1.8; 2.0)	(1.0; 1.2)	(0.5; 0.6)	(1.1; 1.4)	(1.2; 1.4)	(0.8; ) 1
Milk, fermented milk drinks and	1.0	0.6	1.0	1.4	0.9	1.0	1.0	0.8	1.0	1.2	0.7	1.0	1.2
curd cheese	(0.9; 1.0)	(0.5; 0.6)	(0.9; 1.1)	(1.3; 1.5)	(0.9; 1.0)	(0.9; 1.1)	(0.9; 1.1)	(0.7; 0.9)	(0.9; 1.1)	(1.1; 1.3)	(0.6; 0.8)	(0.9; 1.0)	(1.1; 1.
Defined and a	1.0	1.3	1.0	0.9	0.4	1.0	1.7	1.0	1.0	1.1	1.3	1.1	0.7
Refined grains	(1.0; 1.1)	(1.1; 1.4)	(0.9; 1.1)	(0.7; 1.0)	(0.4; 0.5)	(0.9; 1.1)	(1.6; 1.8)	(0.9; 1.1)	(0.9; 1.1)	(1.0; 1.2)	(1.2; 1.4)	(1.0; 1.2)	(0.6; 0.8
N/	1.0	0.7	1.0	1.4	1.1	1.0	1.0	1.0	1.0	1.0	0.6	1.0	1.3
Vegetables	(1.0; 1.1)	(0.6; 0.8)	(0.9; 1.1)	(1.3; 1.4)	(1.0; 1.1)	(0.9; 1.1)	(0.9; 1.1)	(0.9; 1.1)	(1.0; 1.1)	(0.9; 1.1)	(0.5; 0.7)	(1.0; 1.1)	(1.2; 1.4
	0.9	0.6	0.9	1.2	0.9	0.8	0.9	0.9	0.8	0.9	0.5	0.9	1.1
Fruits	(0.8; 0.9)	(0.5; 0.7)	(0.8; 0.9)	(1.1; 1.2)	(0.8; 1.0)	(0.7; 0.9)	(0.8; 1.0)	(0.9; 1.0)	(0.8; 0.9)	(0.8; 0.9)	(0.5; 0.6)	(0.8; 0.9)	(1.1; 1.2
	0.7	0.3	0.7	1.1	1.0	0.7	0.4	0.8	0.7	0.7	0.3	0.7	1.1
Whole grains	(0.7; 0.8)	(0.3; 0.4)	(0.6; 0.7)	(1.0; 1.2)	(0.9; 1.1)	(0.6; 0.8)	(0.3; 0.5)	(0.7; 0.9)	(0.6; 0.8)	(0.6; 0.8)	(0.2; 0.3)	(0.6; 0.7)	(1.0; 1.2
	0.6	0.7	0.6	0.6	0.4	0.7	0.8	0.6	0.6	0.7	0.7	0.7	0.6
Potatoes	(0.6; 0.7)	(0.6; 0.7)	(0.6; 0.7)	(0.6; 0.7)	(0.4; 0.5)	(0.6; 0.7)	(0.8; 0.9)	(0.6; 0.7)	(0.6; 0.7)	(0.6; 0.7)	(0.6; 0.7)	(0.6; 0.7)	(0.5; 0.6
	0.6	0.4	0.6	0.8	0.5	0.6	0.7	0.6	0.6	0.6	0.4	0.6	0.7
Vegetable oils	(0.6; 0.6)	(0.3; 0.4)	(0.6; 0.7)	(0.7; 0.8)	(0.4; 0.5)	(0.6; 0.7)	(0.6; 0.7)	(0.6; 0.7)	(0.5; 0.6)	(0.5; 0.6)	(0.3; 0.5)	(0.5; 0.6)	(0.7; 0.8
	0.5	0.5	0.5	0.4	0.3	0.5	0.5	0.1	0.2	1.1	0.4	0.5	0.4
Other edible fats	(0.4; 0.5)	(0.4; 0.6)	(0.4; 0.5)	(0.3; 0.5)	(0.3; 0.4)	(0.4; 0.6)	(0.4; 0.6)	(0.1; 0.1)	(0.2; 0.3)	(1.0; 1.2)	(0.3; 0.6)	(0.4; 0.6)	(0.3; 0.5
	0.4	0.3	0.4	0.5	0.3	0.4	0.5	0.4	0.4	0.4	0.3	0.4	0.4
Cheese	(0.4; 0.4)	(0.2; 0.3)	(0.4; 0.5)	(0.4; 0.6)	(0.2; 0.3)	(0.4; 0.4)	(0.4; 0.5)	(0.3; 0.4)	(0.3; 0.4)	(0.4; 0.5)	(0.2; 0.4)	(0.4; 0.5)	(0.4; 0.5
	0.4	0.3	0.4	0.5	0.3	0.4	0.5	0.4	0.4	0.5	0.4	0.4	0.4
White meat	(0.4; 0.4)	(0.3; 0.4)	(0.4; 0.5)	(0.5; 0.5)	(0.3; 0.4)	(0.4; 0.5)	(0.5; 0.5)	(0.3; 0.4)	(0.4; 0.5)	(0.4; 0.5)	(0.3; 0.4)	(0.4; 0.5)	(0.4; 0.5
	0.4	0.2	0.4	0.7	0.3	0.4	0.6	0.4	0.5	0.5	0.4	0.5	0.5
Juices	(0.4; 0.5)	(0.2; 0.3)	(0.4; 0.5)	(0.6; 0.8)	(0.3; 0.4)	(0.3; 0.5)	(0.5; 0.7)	(0.3; 0.5)	(0.4; 0.5)	(0.4; 0.5)	(0.3; 0.5)	(0.4; 0.5)	(0.4; 0.6
_	0.3	0.2	0.3	0.5	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.4
Eggs	(0.3; 0.4)	(0.2; 0.2)	(0.3; 0.4)	(0.4; 0.5)	(0.2; 0.3)	(0.3; 0.4)	(0.4; 0.5)	(0.3; 0.4)	(0.3; 0.4)	(0.3; 0.4)	(0.2; 0.3)	(0.3; 0.4)	(0.4; 0.5
Sweetened milk drinks and	0.3	0.1	0.3	0.4	0.2	0.3	0.4	0.2	0.3	0.5	0.2	0.3	0.3
flavored homogenized cheese	(0.3; 0.3)	(0.1; 0.2)	(0.3; 0.4)	(0.3; 0.5)	(0.1; 0.2)	(0.2; 0.4)	(0.3; 0.5)	(0.1; 0.2)	(0.2; 0.3)	(0.4; 0.5)	(0.2; 0.3)	(0.3; 0.4)	(0.2; 0.4
C C	0.3	0.1	0.2	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.1	0.3	0.4
Fish	(0.2; 0.3)	(0.1; 0.1)	(0.2; 0.3)	(0.4; 0.5)	(0.2; 0.3)	(0.2; 0.3)	(0.2; 0.3)	(0.2; 0.3)	(0.2; 0.3)	(0.2; 0.3)	(0.1; 0.1)	(0.2; 0.3)	(0.3; 0.5
	0.2	0.1	0.2	0.4	0.4	0.2	0.2	0.3	0.2	0.2	0.0	0.2	0.5
Nuts and seeds	(0.2; 0.3)	(0.0; 0.1)	(0.1; 0.2)	(0.4; 0.5)	(0.3; 0.4)	(0.1; 0.2)	(0.1; 0.2)	(0.2; 0.4)	(0.2; 0.3)	(0.1; 0.2)	(0.0; 0.0)	(0.1; 0.2)	(0.4; 0.5
	0.2	0.1	0.2	(0.4, 0.3) 0.4	0.2	0.2	0.2	0.3	0.2	0.2	0.1	0.2	0.3
Legumes	(0.2; 0.2)	(0.1; 0.1)	(0.1; 0.2)	(0.3; 0.4)	(0.2; 0.3)	(0.1; 0.2)	(0.2; 0.3)	(0.2; 0.3)	(0.1; 0.2)	(0.1; 0.2)	(0.1; 0.1)	(0.2; 0.2)	(0.3; 0.4
	0.1	0.0	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.0	0.1	0.2
Cereals	(0.1; 0.1)	(0.0; 0.0)	(0.1; 0.1)	(0.2; 0.3)	(0.1; 0.2)	(0.1; 0.1)	(0.1; 0.1)	(0.0; 0.1)	(0.1; 0.1)	(0.1; 0.2)	(0.0; 0.1)	(0.1; 0.1)	(0.1; 0.2
Sweetened heverages and													
Sweetened beverages and	0.1	0.1	0.1	0.1	0.0	0.0	0.2	0.1	0.1	0.1	0.1	0.1	0.1
energy drinks	(0.1; 0.1)	(0.0; 0.1)	(0.1; 0.1)	(0.1; 0.1)	(0.0; 0.0)	(0.0; 0.1)	(0.1; 0.2)	(0.1; 0.2)	(0.1; 0.1)	(0.0; 0.1)	(0.0; 0.1)	(0.1; 0.1)	(0.0; 0.:

'Polish-aMED' – 'Polish-adapted Mediterranean Diet' (range of points: 0-8), levels (in points): 'low' (0-2), 'average' (3-5), 'high' (6-8); "the frequency consumption was expressed as a times/day after assigning the values for categories of frequency consumption as follows: 'never or almost never'=0; 'once a month or less'=0.025; 'several times a month'=0.1; 'several times a week'=0.571; 'daily'=1; 'several times a day'=2; 95%CI – 95% confidence interval.

Confounders	Response cate	egories	Scoring
Socioeconomic status (SES)	low		1
after combining data based on SES' single factors	average		2
	high		3
SES' single factors			
Place of residence	village		1
	town <20,000	inhabitants	2
	town 20,000-1	L00,000 inhabitants	3
	city >100,000	inhabitants	4
Educational level	primary		1
	secondary		2
	higher		3
Economic situation	below the ave	rage	1
(self-declared)	average		2
	above average	2	3
Physical activity at work	low	more than 70% of working time spent sedentary or retired	1
[39]	moderate	approx. 50% of working time spent sedentary and 50% of working	2
		time spent in an active manner	
	high	approx. 70% of working time spent in an active manner or physical	3
		work related to great exertion	
Physical activity in leisure time	low	sedentary for most of the time, watching TV, reading books, walking	1
[39]		1-2 hours per week	
	moderate	walking, bike riding, gymnastics, gardening, light physical activity	2
		performed 2-3 hours per week	
	high	bike riding, jogging, gardening, sport activities involving physical	3
		exertion performed more than 3 hours weekly	
Overall physical activity	low		1

Table S2. Potential confounders in the pooled analysis of two Polish case-control studies

2

<b>6 1 1 1 1 1 1 1 1 1 1</b>			2
after combining data based on physical activity at	moderate		2
work and physical activity in leisure time (Table S2)	high		3
Abuse of alcohol [6]	no		1
	yes	intake at least 1 bottle (0.5 liters) of beer or 2 glasses of wine (300ml)	2
		or 2 drinks (300ml) or 2 glasses of vodka (60ml) per day	
Current-smoker	no		1
	yes		2
Former-smoker	no		1
	yes		2
Smoking status	non-smoker		1
	smoker	current-smoker or/ and former-smoker	2

Table S3. Estimate the overall physical activity after combining data based on self-reported physical activity at work and physical activity in leisure time [40]

	Physical activity at work					
		low	moderate	high		
Physical activity	low	low	low	moderate		
in leisure time	moderate	low	moderate	moderate		
	high	moderate	moderate	high		