

SUPPLEMENTARY MATERIAL

Table S1: Composition of food groups based on the dietary history questionnaire of the EPIC-Spain study and component loadings obtained with the data of EPIGEICAM study [21].

FOOD GROUP	FOOD ^a	West ^b	Prud ^b	Med ^b
HIGH-FAT DAIRY	Whole-fat milk, milk, milk beverages, curd and yogurt; cream desserts; dairy creams; portion of unknown fat content dairy ^c .	0.60	-0.11	0.20
LOW FAT DAIRY	Semi-skimmed and skimmed milk, milk beverages, curd and yogurt; Cottage or fresh white cheese. portion of unknown fat content dairy ^c .	-0.49	0.60	-0.01
EGGS	Eggs.	0.19	0.08	0.16
WHITE MEAT	Poultry and game.	0.08	0.17	0.18
RED MEAT	Red meat (Pork, beef, veal, lamb, etc.); liver; entrails; hamburgers; meatballs; ground meat; non-specified or mixed meat and derivatives.	0.27	0.09	0.22
PROCESSED MEAT	Serrano ham and other cold meat; bacon; other processed meats; non-specified or mixed processed meat.	0.36	0.10	0.26
WHITE FISH	Fresh or frozen white fish (hake, sea bass, sea bream); 2/3·processed white fish; ½·fish eggs; ½·fish liver; 1/3·non classified fish and seafood.	0.01	0.22	0.34
OILY FISH	Fresh frozen or processed blue fish (tuna, swordfish, sardines, anchovies, salmon); 2/3·processed blue fish; ½·fish eggs; ½·fish liver; 1/3·non classified fish and seafood.	0.05	0.24	0.44
SEAFOOD/SHELLFISH	Crustaceans and molluscs; 1/3·non classified fish and seafood.	0.17	0.27	0.35
LEAFY VEGETABLES	Spinach, chard, lettuce and other leafy vegetables.	-0.11	0.34	0.40
FRUITING VEGETABLES	Tomato, eggplant, zucchini, cucumber, pepper, artichoke and avocado.	0.00	0.36	0.45
ROOT VEGETABLES	Carrot, pumpkin and radish.	0.05	0.35	0.44
OTHER VEGETABLES	Cooked cabbage, cauliflower or broccoli, onion, green beans, asparagus, mushrooms, corn, garlic, gazpacho, vegetable soup and other vegetables. Cabbage; mushrooms; grain or pod vegetables; onion and garlic; tail or sprout vegetables; mixed salads or vegetables; non-classified vegetables.	-0.04	0.40	0.42
LEGUMES	Peas, lentils, chickpeas, beans, and broad beans	0.21	0.15	0.34
POTATOES	Potatoes and other tubers.	0.17	0.25	0.40
FRUITS	All kind of fruits.	-0.07	0.31	0.31
NUTS	Nuts and seeds.	0.18	0.22	0.29
REFINED GRAINS	Flour, flakes, starch, semolina flour; pasta, rice, other unspecified or combined grains;	0.37	0.15	0.23

	pasta; other grains; cereal-based products such as pasta; 1/3·unspecified or mixed bread, biscuits, cookies; 1/2·unspecified bread; White bread; 1/3·rusks, unspecified cookies; 1/2·biscuits, white cookies; 1/2·unspecified or combined dough or pastry; bread and pizza dough; 2/3·unspecified white bread, biscuits, or mixes.			
WHOLE GRAINS	Unspecified or combined cereal products: 1/2 · unspecified bread; non-white bread; breakfast cereals; 1/3 · unspecified or mixed bread, biscuits, biscuits; 2/3 · non-white bread, biscuit, unspecified or mixed biscuits; 1/3 · rusks, unspecified biscuits; 1/2 · biscuits, not white cookies.	-0.43	0.47	0.06
OLIVES AND VEGETABLE OIL	Olives; vegetable oils.	0.12	0.19	0.34
OTHER EDIBLE FATS	Margarine; butter; oil of marine origin; other animal edible fats.	0.22	0.02	0.11
SWEETS	1/3 * biscuits, unspecified cookies; 1/2 * biscuits, white cookies; 1/2 · biscuits, non-white biscuits; 1/2 · unspecified or combined dough or pastry; cupcakes; 1/3 · unspecified or mixed bread, biscuits, biscuits; 1/3 · white bread, biscotti, cookies not specified or mixed; 1/3 · non-white bread, biscuit, cookies not specified or mixed; chocolate, candy, bar, pasta, confectionery; non-chocolate confectionery, candied fruit; sorbet, water ice; cakes and cookies	0.35	0.18	0.05
SUGARY	Jam, Honey, Sugar and fruit in sugar syrup.	0.24	0.05	0.00
JUICES	Vegetable and fruit juices.	0.25	0.67	-0.39
CALORIC DRINKS	Sugar-sweetened soft drinks; unclassified non-alcoholic drinks.	0.74	0.21	-0.25
CONVENIENCE FOOD AND SAUCES	Crackers and snack cookies; Egg derivatives; 1/3·processed white fish; 1/3·processed blue fish; tomato sauces; other/unsorted or mixed sauces; aioli sauces; mayonnaise and other creamy sauces; snacks; non-dairy creams; fried products; 1/2·condiments and sauces not classified; vegetarian products and dishes; other dietary products.	0.47	0.12	0.24

^a Log-transformed centred intake in grams.

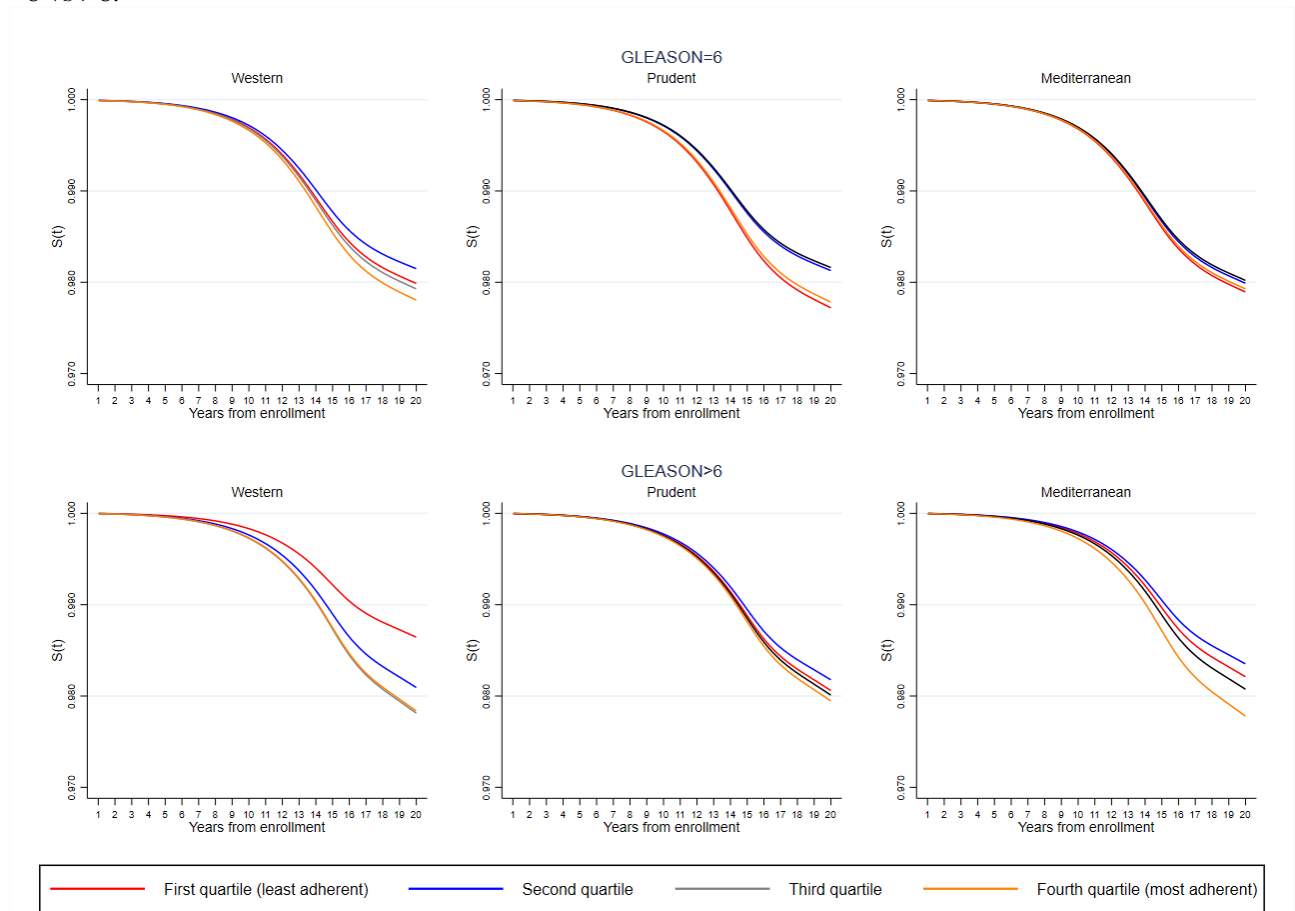
^b West=Western; Prud=Prudent; Med=Mediterranean.

^c For non-cancer cases: Portion in high-fat dairy=0.65·Unknown and Portion in low-fat dairy=0.35·Unknown

For PC cancer cases: Portion in high-fat dairy=0.62·Unknown and Portion in low-fat dairy=0.38·Unknown

For cases of other tumours (Including PC): Portion in high-fat dairy=0.68·Unknown and Portion in low-fat dairy=0.32·Unknown

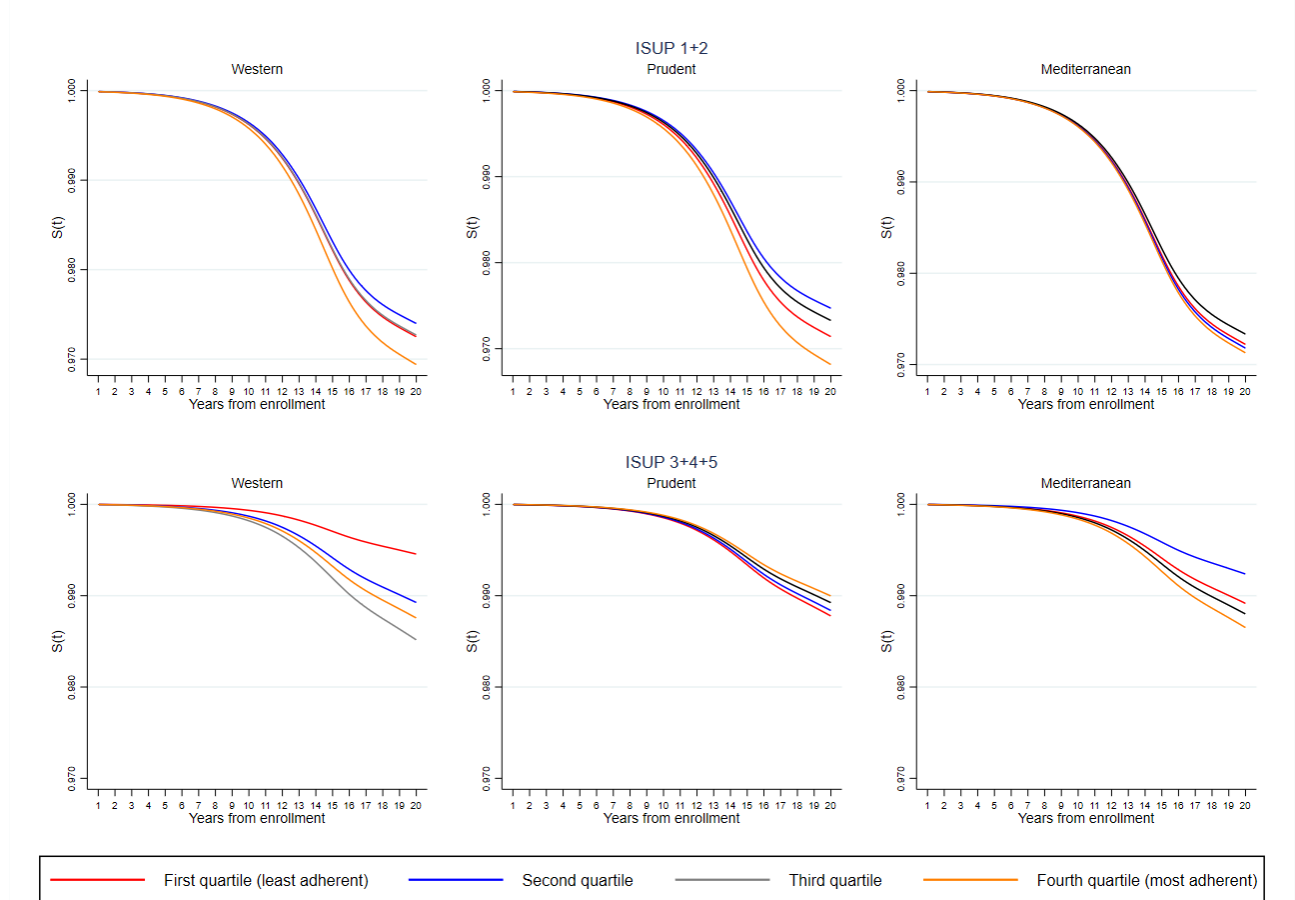
Figure S1: Standardized^a survival curves for prostate cancer by quartiles of adherence to the Western, Prudent and Mediterranean dietary patterns by tumour aggressiveness according to Gleason grade grouped as =6 vs >6.



Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
GLEASON=6	14753	14656	14555	14440	14322	14202	14045	13861	13703	13532	13327	13106	12843	12631	11687	9870	7599	4530	1860	1860
At risk																				
GLEASON>6	14730	14632	14529	14416	14297	14175	14022	13844	13694	13520	13323	13108	12853	12634	11690	9874	7603	4528	1860	1860
At risk																				

^a By energy intake, BMI, height, education and age at recruitment and centre.

Figure S2: Standardized^a survival curves for prostate cancer by quartiles of adherence to the Western, Prudent and Mediterranean dietary patterns by tumour aggressiveness according to Gleason grade grouped according to the ISUP^b classification 1+2 vs ISUP 3+4+5.

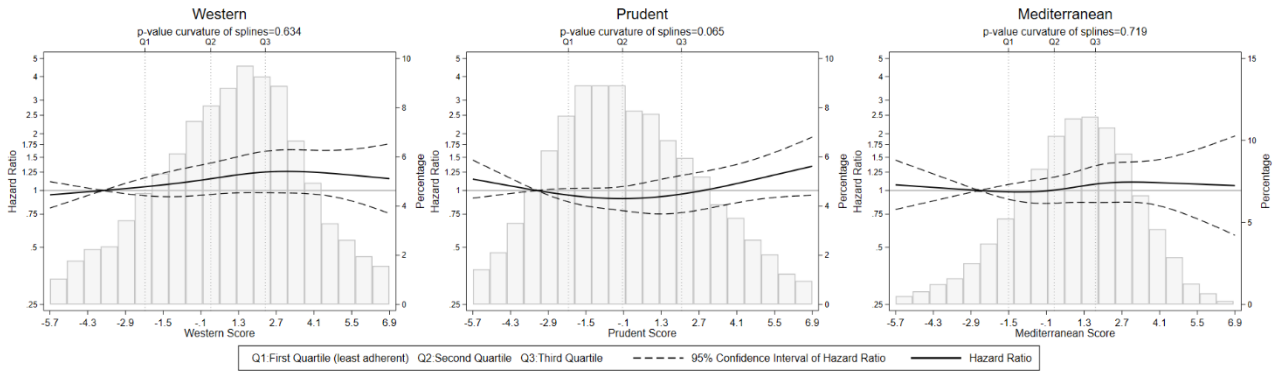


Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
ISUP 1+2																					
At risk	14844	14747	14645	14530	14411	14288	14131	13946	13786	13608	13397	13163	12890	12663	11705	9879	7602	4530	1860	1860	
ISUP 3+4+5																					
At risk	14633	14535	14434	14321	14203	14085	13933	13756	13608	13444	13253	13051	12806	12602	11672	9865	7600	4528	1860	1860	

^a By energy intake, BMI, height, education and age at recruitment and centre.

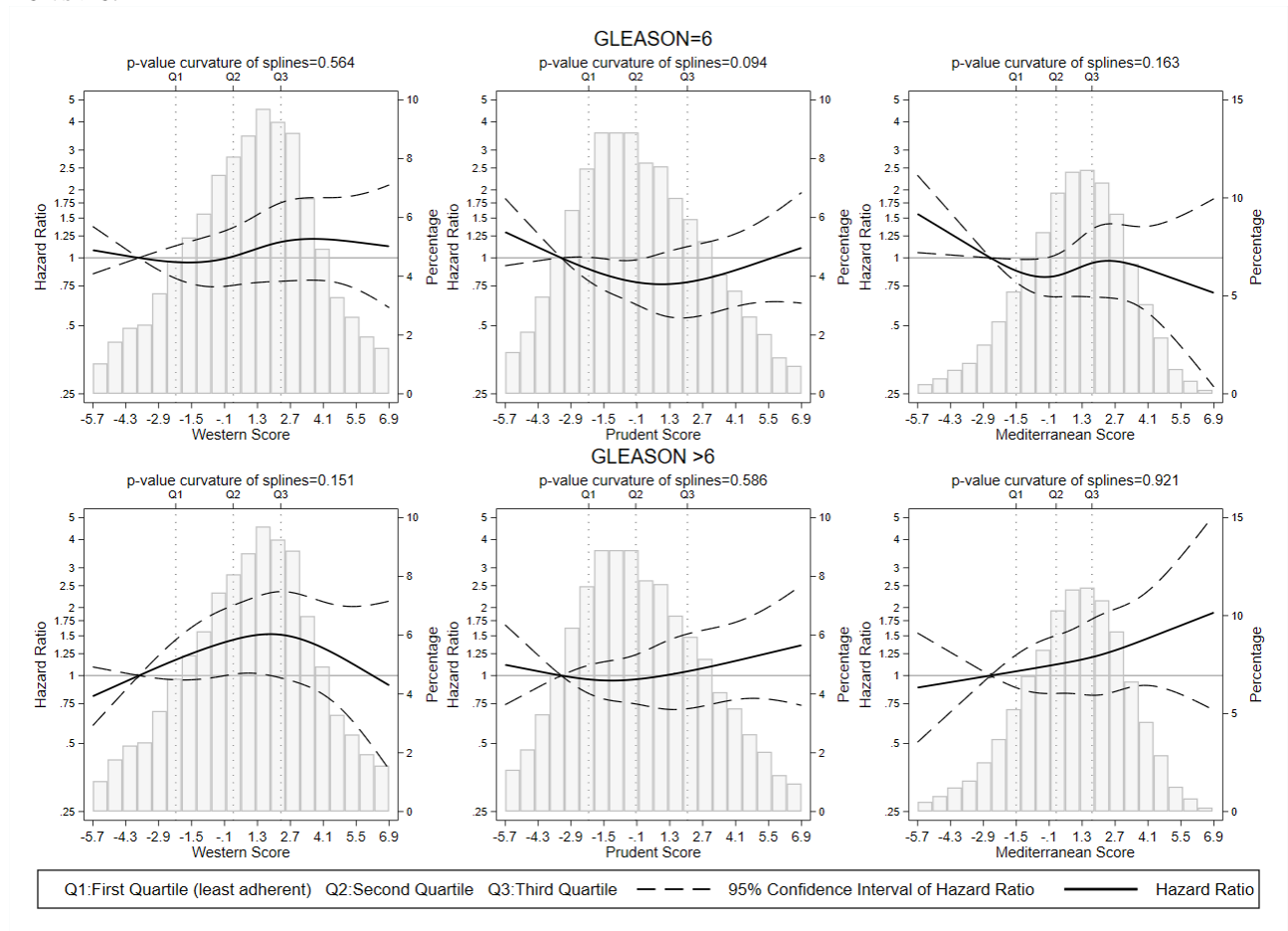
^b ISUP 1= Gleason 3+3; ISUP 2= Gleason 3+4; ISUP 3= Gleason 4+3; ISUP 4= Gleason 4+4, 3+5, 5+3; ISUP 5= Gleason 4+5, 5+4, 5+5.

Figure S3: Non-linear association^a between prostate cancer incidence and scores of adherence to Western, Prudent and Mediterranean dietary patterns.



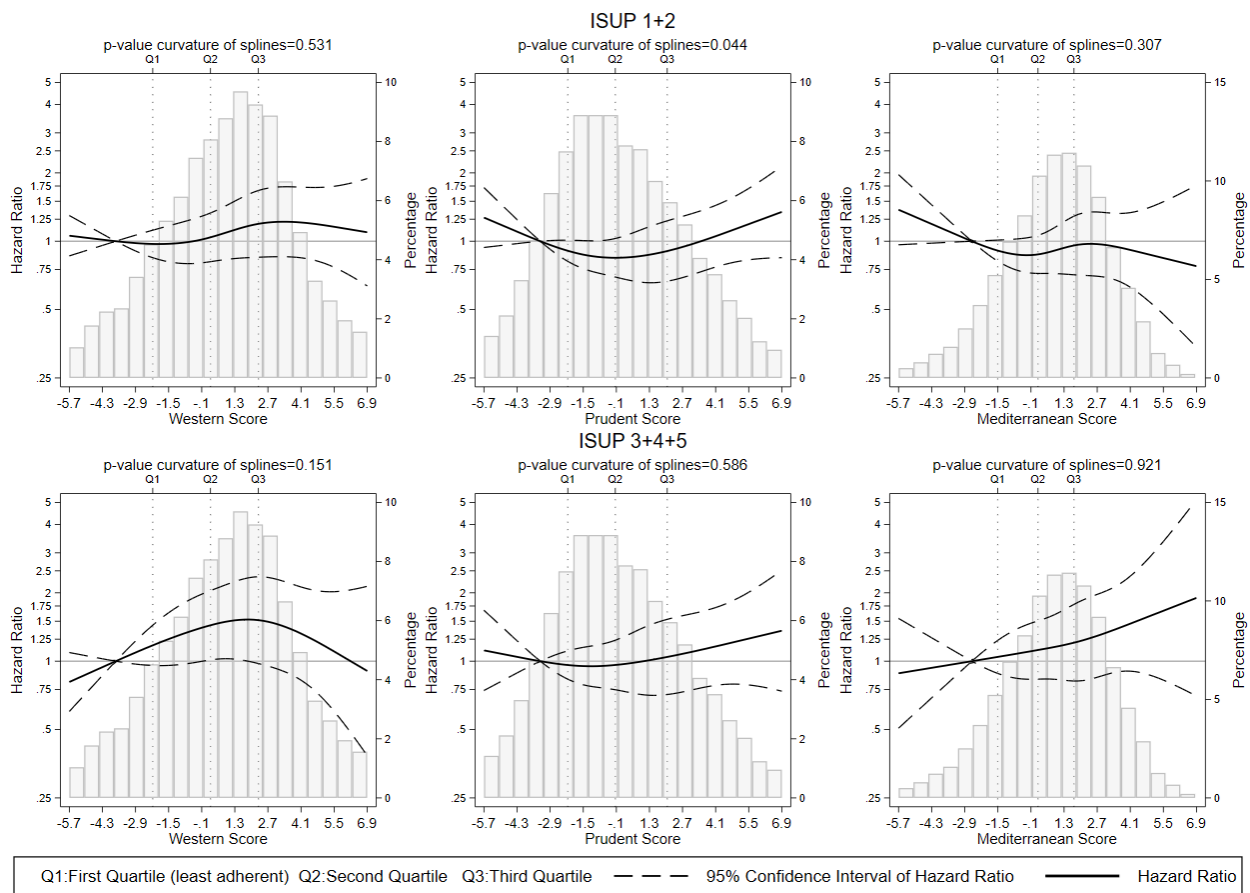
^a Adjusted by energy intake, BMI, height, education and age at recruitment and centre. Reference set at the median of the first quartile interval (-3.73 for the Western pattern, -3.31 for the Prudent pattern and -2.60 for the Mediterranean pattern).

Figure S4: Non-linear association between prostate cancer incidence and scores of adherence to Western, Prudent and Mediterranean dietary patterns by tumour aggressiveness according to Gleason grade grouped as ≤ 6 vs >6 .



^a Adjusted by energy intake, BMI, height, education and age at recruitment and centre. Reference set at the median of the first quartile interval (Gleason=6: -3.74 for the Western pattern, -3.31 for the Prudent pattern and -2.60 for the Mediterranean pattern; Gleason >6: -3.74 for the Western pattern, -3.31 for the Prudent pattern and -2.60 for the Mediterranean pattern).

Figure S5: Non-linear association^a between prostate cancer incidence and scores of adherence to Western, Prudent and Mediterranean dietary patterns by tumour aggressiveness according to Gleason grade grouped according to the ISUP^b classification 1+2 vs ISUP 3+4+5.



^a Adjusted by energy intake, BMI, height, education and age at recruitment and centre. Reference set at the median of the first quartile interval (ISUP 1+2: -3.74 for the Western pattern, -3.32 for the Prudent pattern and -2.60 for the Mediterranean pattern; Gleason >6: -3.74 for the Western pattern, -3.31 for the Prudent pattern and -2.60 for the Mediterranean pattern).

^b ISUP 1= Gleason 3+3; ISUP 2= Gleason 3+4; ISUP 3= Gleason 4+3; ISUP 4= Gleason 4+4, 3+5, 5+3; ISUP 5= Gleason 4+5, 5+4, 5+5.