Variable	Category	N (%)
Intrinsic subtype	Luminal A	853(63.19)
	Luminal B	260(19.26)
	Her2-non luminal	67(4.96)
	Basal-like	103(7.63)
	Luminal ONI	45(3.33)
	Non-luminal ONI	5(0.37)
	Missing	17(1.26)
Pathological Prognosis Stage	IA	503(37.26)
	IB	124(9.19)
	IIA	60(4.44)
	IIB	39(2.89)
	IIIA	32(2.37)
	IIIB	17(1.26)
	IIIC	4(0.30)
	IV	28(2.07)
	Non applicable (Neoadjuvancy)	121(8.96)
	Missing	422(31.26)
Histology	Ductal	1090(80.74)
	Lobular	91(6.74)
	Paget disease	14(1.04)
	Others	155(11.48)
Grade	I: well differentiated	293(21.70)
	II: moderately differentiated	422(31.26)
	III: poorly differentiated	277(20.52)
	Missing	358(26.52)
Estrogen Receptor	Negative	192(14.22)
	Positive	1140(84.44)
	Missing	18(1.33)
Progesterone Receptor	Negative	311(23.04)
	Positive	1018(75.41)
	Missing	21(1.56)
Her 2	Negative	1060(78.52)
	Positive	226(16.74)
	Missing	64(4.74)

Table S1. Tumour characteristics.

ONI: Otherwise non-identified. Luminal ONI: hormonal receptors positive, Her2 missing. Non-luminal ONI: hormonal receptors negative, Her2 missing.

Nutrient	All women	Survivors women	Death women
Carbohydrates intake (g/day), mean (SD)	192.63 (2.11)	191.76(2.26)	198.61(5.90)
Polysaccharides intake (g/day), mean (SD)	86.94 (1.16)	86.88(1.24)	87.36(3.23)
Monosaccharides intake (g/day), mean(SD)	109.18 (1.3)	108.50(1.39)	113.80(3.63)
Proteins intake (g/day), mean(SD)	80.21(0.67)	80.33(0.72)	79.44(1.88)
Animal proteins intake (g/day), mean(SD)	54.33 (0.51)	54.48(0.55)	53.29(1.43)
Vegetable proteins intake (g/day), mean(SD)	25.9 (0.3)	25.86(0.32)	26.16(0.83)
Fats intake (g/day), mean(SD)	83.19 (0.96)	83.27(1.03)	82.62(2.69)
Monounsaturated fats intake (g/day), mean(SD)	37.97 (0.47)	37.94(0.51)	38.22(1.32)

Table S2. Daily nutrient intake in the study population

Polyunsaturated fats intake (g/day), mean(SD)	13.97 (0.21)	13.98(0.22)	13.90(0.57)
Saturated fat intake (g/day), mean(SD)	24.34 (0.31)	24.46(0.33)	23.54(0.85)
Energy intake (kcal/day), mean (SD)	1862.51 (14.83)	1861.10(15.87)	1872.21(41.67)
Ethanol intake (g/day), mean (SD) current	4.62 (0.23)	4.71(0.25)	4.02(0.65)

	Tertil of energy (Kcal/day)				
Variable	Category	T1	T2	T3	p-value
	Madrid	100(22.22)	82(18.22)	85(18.89)	.006
	Barcelona	58(12.89)	82(18.22)	80(17.78)	
	Navarra	43(9.56)	59(13.11)	60(13.33)	
	Guipuzkoa	74(16.44)	65(14.44)	52(11.56)	
$C_{\text{operaphical area}} = n (\%)$	Leon	65(14.44)	67(14.89)	73(16.22)	
Geographical area, II (76)	Asturias	28(6.22)	26(5.78)	10(2.22)	
	Huelva	15(3.33)	11(2.44)	22(4.89)	
	Cantabria	32(7.11)	40(8.89)	32(7.11)	
	Valencia	19(4.22)	9(2.00)	22(4.89)	
	Girona	16(3.56)	9(2.00)	14(3.11)	
	No schooling	88(19.56)	55(12.22)	52(11.56)	<.001
Educational loval n (%)	Primary school	165(36.67)	138(30.67)	149(33.11)	
Educational level, II (76)	Secondary school	123(27.33)	160(35.56)	162(36.00)	
	University	74(16.44)	97(21.56)	87(19.33)	
	High	58(12.89)	74(16.44)	72(16.00)	.018
Socio-economic status	Middle	223(49.56)	250(55.56)	247(54.89)	
	Low	169(37.56)	126(28.00)	131(29.11)	
	Never smoked	252(57.27)	254(57.08)	229(51.81)	.359
Tobacco smoking, n (%)	Former smoker	101(22.95)	110(24.72)	124(28.05)	
	Current smoker	87(19.77)	81(18.20)	89(20.14)	
Monopousal status	Premenopausal	137(30.44)	167(37.11)	183(40.76)	0.005
Menopausai status	Current smoker 87(19.77) 81(18.20) 89(20.100000000000000000000000000000000000	266(59.24)			
Family history of broast	None	362(80.80)	308(68.90)	335(74.44)	<.001
Failing history of breast (2)	First-degree relative	52(11.61)	82(18.34)	58(12.89)	
cancer, if (76)	Second-degree relative	34(7.59)	57(12.75)	57(12.67)	
Previous use of hormonal	Never	220(55.14)	218(53.83)	195(48.03)	.099
contraceptives, n (%)	Ever	179(44.86)	187(46.17)	211(51.97)	
Hormone Replacement	Never	353(88.47)	368(90.86)	374(92.12)	.398
Therapy in postmenopausal	Ever	32(8.02)	28(6.91)	25(6.16)	
women	Not Known (or not remember)	14(3.51)	9(2.22)	7(1.72)	
Age, me	ean (SD)	57.93(0.59)	55.49(0.59)	54.08(0.59)	<.001
Body Mass Index ((kg/m2), mean (SD)	26.48(0.23)	25.71(0.23)	25.52(0.23)	0.01
Energy intake (kc	al/day), mean (SD)	1332.75(13.12)	1783.22(13.12)	2471.55(13.12)	<.001
Carbohydrates	s intake (g/day)	139.46(2.08)	181.43(2.08)	249.96(2.08)	<.001
Polysaccharide	s intake (g/day))	62.59(19.62)	81.00(20.58)	113.11(41.11)	<.001
Monosaccharides intake (g/day)		80.18(22.74)	104.16(26.92)	139.85(43.64)	<.001
Proteins in	take (g/day)	62.18(0.71)	77.58(0.71)	98.87(0.71)	<.001
Animal proteir	ns intake (g/day)	42.72(11.70)	52.87(12.98)	66.37(16.66)	<.001
Vegetable prote	ins intake (g/day)	19.49(5.19)	24.75(6.07)	32.50(8.84)	<.001
Fats intal	ke (g/day)	54.98(0.91)	77.78(0.91)	114.03(0.91)	<.001
Monounsaturated	l fats intake (g/day)	24.77(9.11)	36.11(9.82)	52.10(15.01)	<.001
Polyunsaturated	fats intake (g/day)	9.19(3.27)	12.78(3.74)	19.30(7.40)	<.001
Saturated fat	intake (g/day)	16.12(4.44)	22.37(4.79)	33.53(8.99)	<.001

Table S3. Baseline characteristics by tertile (T) of energy intake

Sample	Type of carbohydrate		1st tertile	HR (95% CI) 2nd tertile	HR (95% CI) 3rd tertile	p trend
Premenopausal	Total carbohydrates	Deaths/woman-years	16/920	13/1087	17/1223	0.02
		Model 1	1(ref.)	0.92 (0.37 to 2.29)	1.07 (0.31 to 3.67)	0.93
		Model 2	1(ref.)	0.95(0.38 to 2.41	1.12 (0.32 to 3.98)	0.88
		Model 3*	1(ref.)	0.98 (0.35 to 2.71)	1.29 (0.28 to 6.00)	0.78
	Monosaccharides	Deaths/woman-years	15/1113	18/958	13/1158	
		Model 1	1(ref.)	1.63 (0.73 to 3.62)	0.78 (0.25 to 2.42)	0.86
		Model 2	1(ref.)	1.76 (0.80 to 3.90)	0.68 (0.21 to 1.87)	0.80
		Model 3#	1(ref.)	1.64 (0.74 to 3.65)	0.61 (0.19 to 1.97)	0.65
	Polysaccharides	Deaths/woman-years	15/854	15/1030	16/1345	
		Model 1	1(ref.)	0.70 (0.29 to 1.66)	0.56 (0.20 to 1.56)	0.27
		Model 2	1(ref.)	0.73 (0.29 to 1.82)	0.64 (0.22 to 1.87)	0.42
		Model 3\$	1(ref.)	0.67 (0.26 to 1.77)	0.59 (0.19 to 1.79)	0.37
Postmenopausal	Total carbohydrates	Deaths/woman-years	36/2013	40/1859	49/1683	
		Model 1	1(ref.)	1.25 (0.75 to 2.08)	1.38 (0.75 to 2.56)	0.30
		Model 2	1(ref.)	1.25 (0.75 to 2.08)	1.32 (0.70 to 2.48)	0.38
		Model 3*	1(ref.)	1.28 (0.74 to 2.21)	1.38 (0.63 to 3.01)	0.40
	Monosaccharides	Deaths/woman-years	41/1797	37/1984	47/1774	
		Model 1	1(ref.)	0.70 (0.43 to 1.15)	0.72 (0.41 to 1.25)	0.25
		Model 2	1(ref.)	0.68 (0.41 to 1.12)	0.72 (0.41 to 1.27)	0.27
		Model 3#	1(ref.)	0.69 (0.42 to 1.15)	0.70 (0.39 to 1.26)	0.24
	Polysaccharides	Deaths/woman-years	39/2130	50/1840.5	36/1584	
		Model 1	1(ref.)	1.52 (0.97 to 2.41)	1.06 (0.60 to 1.89)	0.73
		Model 2	1(ref.)	1.50 (0.94 to 2.37)	1.08 (0.60 to 1.92)	0.70
		Model 3\$	1(ref.)	1.57 (0.98 to 2.50)	1.04 (0.58 to 1.88)	0.77
BMI≤25	Total carbohydrates	Deaths/woman-years	16/1219	23/1422	23/1429	
		Model 1	1(ref.)	1.65 (0.78 to 3.49)	3.96 (1.45 to 10.9)	< 0.01
		Model 2	1(ref.)	1.47 (0.69 to 3.13)	3.68 (1.33 to 10.2)	0.02
		Model 3*	1(ref.)	1.59 (0.69 to 3.65)	3.36 (1.01 to 11.2)	0.05
	Monosaccharides	Deaths/woman-years	16/1366	24/1293	22/1412	
		Model 1	1(ref.)	1.94 (0.97 to 3.88)	1.95 (0.85 to 4.46)	0.10
		Model 2	1(ref.)	1.95 (0.95 to 4.00)	2.12 (0.88 to 5.09)	0.08
		Model 3#	1(ref.)	2.22 (1.04 to 4.72)	2.59 (1.04 to 6.48)	0.04
	Polysaccharides	Deaths/woman-years	20/1247	26/1315	16/1508	
		Model 1	1(ref.)	1.18 (0.61 to 2.29)	0.74 (0.31 to 1.75)	0.54
		Model 2	1(ref.)	1.02 (0.52 to 1.99)	0.69 (0.29 to 1.65)	0.44
		Model 3\$	1(ref.)	1.03 (0.51 to 2.08)	0.74 (0.30 to 1.86)	0.56
BMI>25	Total carbohydrates	Deaths/woman-years	29/1473	26/1310	39/1314	
		Model 1	1(ref.)	0.71 (0.38 to 1.30)	0.89 (0.44 to 1.82)	0.77
		Model 2	1(ref.)	0.66 (0.35 to 1.24)	0.89 (0.43 to 1.85)	0.74
		Model 3*	1(ref.)	0.76 (0.39 to 1.49)	1.19 (0.48 to 2.95)	0.79
	Monosaccharides	Deaths/woman-years	31/1301	30/1529	33/1268	
		Model 1	1(ref.)	0.50 (0.29 to 0.89)	0.45 (0.23 to 0.91)	0.03
		Model 2	1(ref.)	0.53 (0.29 to 0.95)	0.50 (0.24 to 1.02)	0.06
		Model 3#	1(ref.)	0.60 (0.33 to 1.10)	0.57 (0.27 to 1.19)	0.14
	Polysaccharides	Deaths/woman-years	30/1552	32/1309	32/1236	
		Model 1	1(ref.)	1.01 (0.58 to 1.77)	1.10 (0.57 to 2.09)	0.78
		Model 2	1(ref.)	0.99 (0.55 to 1.76)	1.12 (0.58 to 2.17)	0.74
		Model 3\$	1(ref.)	0.97 (0.54 to 1.75)	1.03 (0.52 to 2.04)	0.94
ER negative	Total carbohydrates	Deaths/woman-years	17/316	11/415	21/400	
		Model 1	1(ref.)	0.55 (0.21 to 1.39)	1.02 (0.32 to 3.24)	1.00
		Model 2	1(ref.)	0.54 (0.19 to 1.50)	1.26 (0.34 to 4.65)	0.83
		Model 3*	1(ref.)	0.41 (0.12 to 1.37)	1.28 (0.26 to 6.34)	0.76
	Monosaccharides	Deaths/woman-years	17/340	15/328	17/463	
		Model 1	1(ref.)	0.94 (0.40 to 2.20)	0.47 (0.17 to 1.34)	0.17
		Model 2	1(ref.)	0.70 (0.29 to 1.71)	0.40 (0.13 to 1.18)	0.10
		Model 3#	1(ref.)	0.79 (0.32 to 1.99)	0.40 (0.13 to 1.20)	0.11
	Polysaccharides	Deaths/woman-years	15/367	19/347	15/417	
		Model 1	1(ref.)	1.19 (0.47 to 3.01)	0.79 (0.28 to 2.19)	0.59
		Model 2	1(ref.)	1.76 (0.62 to 5.00)	0.84 (0.27 to 2.65)	0.71

Table S4. Influence of carbohydrate intake on breast cancer survival according to menopausal status, BMI and oestrogen receptor status. Hazard ratios comparing third and second tertiles vs. first tertile of consumption

		Model 3\$	1(ref.)	2.12 (0.67 to 6.70)	0.84 (0.25 to 2.81)	0.63
ER positive	Total carbohydrates	Deaths/woman-years	35/2571	42/2490	44/2486	
		Model 1	1(ref.)	1.41 (0.84 to 2.35)	1.52 (0.78 to 2.97)	0.21
		Model 2	1(ref.)	1.38 (0.83 to 2.30)	1.43 (0.73 to 2.81)	0.29
		Model 3*	1(ref.)	1.49 (0.86 to 2.56)	1.83 (0.83 to 4.08)	0.12
	Monosaccharides	Deaths/woman-years	39/2520	39/2571	43/2457	
		Model 1	1(ref.)	0.84 (0.52 to 1.35)	0.94 (0.52 to 1.68)	0.82
		Model 2	1(ref.)	0.83 (0.51 to 1.37)	0.93 (0.51 to 1.68)	0.79
		Model 3#	1(ref.)	0.86 (0.52 to 1.42)	0.92 (0.50 to 1.70)	0.77
	Polysaccharides	Deaths/woman-years	39/2567	46/2502	36/2479	
		Model 1	1(ref.)	1.20 (0.76 to 1.90)	0.85 (0.47 to 1.55)	0.66
		Model 2	1(ref.)	1.21 (0.76 to 1.92)	0.88 (0.49 to 1.60)	0.74
		Model 3\$	1(ref.)	1.19 (0.74 to 1.92)	0.85 (0.46 to 1.55)	0.63

Model 1: Adjusted for hospital of recruitment, age, PPS score (0, IA, IB,IIA, IIB, IIA, IIB, IIC,IV,non applicable, missing), systemic treatment received by the patients: chemotherapy (yes, non), hormone therapy (yes, non) and immunology therapy (yes, non) and total energy intake (Kcal/day) one year before the diagnosis **Model 2:** Adjusted for all previous variables and socioeconomic status (low, middle, high), education attained, physical activity (metabolic equivalents (METs)) during the 5 years before diagnosis, smoking status one year before recruitment (never; former; current) and Body Mass Index(kg/m²). **Model 3:** Adjusted for the same variables in model 2 and diabetes (yes, non, unknown), and *percentage of calories from the other major nutrient groups, # percentage of calories from polysaccharides.

Table S5. Influence of protein intake on breast cancer survival according to menopausal status, BMI and oestrogen receptor status. Hazard ratios comparing third and second tertiles vs. first tertile of consumption

Sample	Type of protein		1st tertile	HR (95% CI) 2nd tertile	HR (95% CI) 3rd tertile	p trend
Premenopausal	Total proteins	Deaths/woman-years	18/888	14/1116	14/1225	
		Model 1	1(ref.)	0.70 (0.31 to 1.60)	0.63 (0.21 to 1.92)	0.39
		Model 2	1(ref.)	0.65 (0.27 to 1.59)	0.61 (0.19 to 1.97)	0.39
		Model 3*	1(ref.)	0.60 (0.24 to 1.48)	0.47 (0.13 to 1.73)	0.23
	Animal proteins	Deaths/woman-years	16/870	17/1090	13/1269	
		Model 1	1(ref.)	0.66 (0.29 to 1.50)	0.66 (0.27 to 1.65)	0.38
		Model 2	1(ref.)	0.65 (0.28 to 1.52)	0.66 (0.25 to 1.74)	0.41
		Model 3#	1(ref.)	0.51 (0.21 to 1.25)	0.47 (0.17 to 1.32)	0.16
	Vegetable proteins	Deaths/woman-years	21/985	11/1134	12/1110	
		Model 1	1(ref.)	0.43 (0.18 to 1.02)	0.66 (0.23 to 1.91)	0.29
		Model 2	1(ref.)	0.40 (0.16 to 0.97)	0.57 (0.19 to 1.67)	0.21
		Model 3\$	1(ref.)	0.35 (0.14 to 0.86)	0.47 (0.15 to 1.43)	0.12
Postmenopausal	Total proteins	Deaths/woman-years	42/2000	38/1840	45/1715	
		Model 1	1(ref.)	1.08 (0.66 to 1.75)	1.31 (0.71 to 2.40)	0.41
		Model 2	1(ref.)	1.06 (0.65 to 1.74)	1.30 (0.70 to 2.41)	0.42
		Model 3*	1(ref.)	1.18 (0.70 to 1.98)	1.62 (0.79 to 3.35)	0.20
	Animal proteins	Deaths/woman-years	36/2058	47/1812	42/1686	
		Model 1	1(ref.)	1.85 (1.16 to 2.96)	1.53 (0.88 to 2.67)	0.10
		Model 2	1(ref.)	1.88 (1.17 to 3.03)	1.47 (0.84 to 2.58)	0.15
		Model 3#	1(ref.)	1.88 (1.17 to 3.04)	1.47 (0.82 to 2.63)	0.16
	Vegetable proteins	Deaths/woman-years	41/1909	41/1824	43/1822	
		Model 1	1(ref.)	1.20 (0.75 to 1.92)	0.80 (0.45 to 1.43)	0.52
		Model 2	1(ref.)	1.24 (0.77 to 1.98)	0.84 (0.46 to 1.51)	0.65
		Model 3\$	1(ref.)	1.25 (0.78 to 2.01)	0.86 (0.47 to 1.57)	0.72
BMI≤25	Total proteins	Deaths/woman-years	22/1283	25/1441	15/1347	
		Model 1	1(ref.)	1.31 (0.67 to 2.56)	0.99 (0.37 to 2.64)	0.89
		Model 2	1(ref.)	1.60 (0.79 to 3.25)	1.20 (0.43 to 3.37)	0.59
		Model 3*	1(ref.)	1.73 (0.79 to 3.76)	1.39 (0.41 to 4.63)	0.49
	Animal proteins	Deaths/woman-years	23/1396	26/1353	13/1322	
		Model 1	1(ref.)	1.37 (0.73 to 2.58)	0.69 (0.28 to 1.70)	0.60
		Model 2	1(ref.)	1.64 (0.84 to 3.20)	0.79 (0.31 to 1.98)	0.81

		Model 3#	1(ref.)	1.68 (0.85 to 3.35)	0.82 (0.32 to 2.10)	0.85
	Vegetable proteins	Deaths/woman-years	22/1224	21/1463	19/1384	
		Model 1	1(ref.)	0.76 (0.38 to 1.53)	1.08 (0.46 to 2.55)	0.93
		Model 2	1(ref.)	0.68 (0.33 to 1.41)	1.05 (0.44 to 2.50)	0.98
		Model 3\$	1(ref.)	0.66 (0.32 to 1.37)	0.99 (0.41 to 2.41)	0.93
BMI>25	Total proteins	Deaths/woman-years	31/1378	24/1318	39/1401	
		Model 1	1(ref.)	0.69 (0.38 to 1.26)	0.96 (0.48 to 1.91)	0.83
		Model 2	1(ref.)	0.74 (0.40 to 1.37)	1.01 (0.50 to 2.06)	0.96
		Model 3*	1(ref.)	0.75 (0.40 to 1.43)	1.09 (0.49 to 2.41)	0.90
	Animal proteins	Deaths/woman-years	24/1334	33/1332	37/1431	
		Model 1	1(ref.)	1.41 (0.79 to 2.52)	1.41 (0.74 to 2.69)	0.31
		Model 2	1(ref.)	1.52 (0.84 to 2.78)	1.53 (0.79 to 2.95)	0.23
		Model 3#	1(ref.)	1.54 (0.85 to 2.82)	1.41 (0.72 to 2.76)	0.34
	Vegetable proteins	Deaths/woman-years	34/1415	25/1333	35/1349	
		Model 1	1(ref.)	0.81 (0.47 to 1.40)	0.56 (0.29 to 1.08)	0.09
		Model 2	1(ref.)	0.76 (0.43 to 1.33)	0.61 (0.31 to 1.21)	0.15
		Model 3\$	1(ref.)	0.76 (0.43 to 1.35)	0.63 (0.32 to 1.25)	0.18
ER negative	Total proteins	Deaths/woman-years	17/1312	15/394	17/425	
		Model 1	1(ref.)	0.87 (0.39 to 1.94)	0.56 (0.18 to 1.74)	0.34
		Model 2	1(ref.)	1.09 (0.44 to 2.67)	0.77 (0.22 to 2.62)	0.75
		Model 3*	1(ref.)	1.59 (0.58 to 4.38)	1.48 (0.33 to 6.66)	0.54
	Animal proteins	Deaths/woman-years	14/276	23/448	12/407	
		Model 1	1(ref.)	1.26 (0.57 to 2.80)	0.34 (0.10 to 1.13)	0.19
		Model 2	1(ref.)	1.91 (0.79 to 4.63)	0.27 (0.07 to 1.06)	0.31
		Model 3#	1(ref.)	1.74 (0.71 to 4.26)	0.24 (0.06 to 0.99)	0.23
	Vegetable proteins	Deaths/woman-years	18/363	14/367	17/401	
		Model 1	1(ref.)	1.05 (0.46 to 2.40)	0.71 (0.26 to 1.93)	0.56
		Model 2	1(ref.)	1.13 (0.44 to 2.91)	0.80 (0.26 to 2.45)	0.77
		Model 3\$	1(ref.)	0.94 (0.34 to 2.61)	0.77 (0.26 to 2.33)	0.66
ER positive	Total proteins	Deaths/woman-years	43/2540	37/2526	41/2483	
		Model 1	1(ref.)	0.96 (0.58 to 1.58)	1.15 (0.61 to 2.19)	0.69
		Model 2	1(ref.)	0.90 (0.54 to 1.50)	1.11 (0.58 to 2.14)	0.77
		Model 3*	1(ref.)	0.95 (0.55 to 1.63)	1.31 (0.62 to 2.76)	0.52
	Animal proteins	Deaths/woman-years	38/2618	41/2434	42/2495	
		Model 1	1(ref.)	1.30 (0.80 to 2.09)	1.48 (0.86 to 2.56)	0.16
		Model 2	1(ref.)	1.31 (0.80 to 2.14)	1.45 (0.84 to 2.52)	0.19
		Model 3#	1(ref.)	1.30 (0.79 to 2.14)	1.44 (0.82 to 2.54)	0.21
	Vegetable proteins	Deaths/woman-years	44/2494	38/2549	39/2505	
		Model 1	1(ref.)	0.92 (0.57 to 1.49)	0.78 (0.42 to 1.43)	0.42
		Model 2	1(ref.)	0.94 (0.58 to 1.53)	0.78 (0.42 to 1.45)	0.44
		Model 3\$	1(ref.)	0.95 (0.58 to 1.54)	0.79 (0.42 to 1.49)	0.48

Model 1: Adjusted for hospital of recruitment, age, PPS score (0, IA, IB,IIA, IIB, IIA, IIB, IIC,IV,non applicable, missing), systemic treatment received by the patients: chemotherapy (yes, non), hormone therapy (yes, non) and immunology therapy (yes, non) and total energy intake (Kcal/day) one year before the diagnosis **Model 2:** Adjusted for all previous variables and socioeconomic status (low, middle, high), education attained, physical activity (metabolic equivalents (METs)) during the 5 years before diagnosis, smoking status one year before recruitment (never; former; current) and Body Mass Index (kg/m2). **Model 3**: Adjusted for the same variables in model 2 and *percentage of calories from the other major nutrient groups, # percentage of calories from vegetable protein, \$ percentage of calories from animal protein.

Table S6 Influence of fat intake on breast cancer survival according to menopausal status, BMI and oestrogen receptor status. Hazard ratios comparing third and second tertiles vs. first tertile of consumption

Sampla	Type of fat	1st tertile	HR (95% CI) 2nd	HR (95% CI) 3rd	n trand
Sample	Type of fat	Ist tertile	tertile	tertile	ptienu

Dramana	Tatal fata	Deaths/woman-	20/085	0/007	17/1000	
Premenopausai	l otal fats	years	20/985	9/907	17/1338	
		Model 1	1(ref.)	0.54 (0.20 to 1.47)	0.67 (0.19 to 2.32)	0.50
		Model 2	1(ref.)	0.53 (0.19 to 1.53)	0.64 (0.17 to 2.41)	0.50
-		Model 3*	1(ref.)	0.25 (0.08 to 0.84)	0.20 (0.04 to 0.98)	0.06
	Saturated fats	Deaths/woman-	13/777	18/1075	15/1377	
	Suturited Into	years	10////	10/10/0	10/10//	
		Model 1	1(ref.)	1.51 (0.61 to 3.74)	0.95 (0.25 to 3.57)	0.99
		Model 2	1(ref.)	1.47 (0.57 to 3.819	0.83 (0.21 to 3.19)	0.83
-	1	Model 3#	1(ref.)	1.28 (0.48 to 3.41)	0.65 (0.16 to 2.67)	0.58
	Monounsaturated	Deaths/woman-	28/1001	7/1032	19/1196	
	fats	years	1(()	0.44 (0.15 + 1.2()		0.24
		Model 1	1(ref.)	0.44 (0.15 to 1.26)	1.74 (0.57 to 5.35)	0.34
		Model 2	1(ref.)	0.46 (0.15 to 1.39) 0.45 (0.14 to 1.41)	1.50 (0.48 to 4.74) 1.49 (0.46 to 4.82)	0.48
-	Polyuncaturated	Deaths/woman	1(IeI.)	0.43(0.14101.41)	1.49 (0.40 to 4.62)	0.44
	fate	Deatils/wolliali-	15/824	15/1082	16/1323	
	Tats	Model 1	1(ref)	0 47 (0 20 to 1 09)	0.54 (0.18 to 1.62)	0.25
		Model 2	1(ref)	0.50 (0.21 to 1.03)	0.61(0.10 to 1.02)	0.34
		Model 3£	1(ref.)	0.46 (0.19 to 1.12)	0.49(0.14 to 1.66)	0.22
		Deaths/woman-	1(1011)	0110 (011) to 1112)		0.22
Postmenopausal	Total fats	vears	39/1917	50/2006	36/1631	
		Model 1	1(ref.)	0.92 (0.56 to 1.51)	0.66 (0.30 to 1.45)	0.52
		Model 2	1(ref.)	0.94 (0.57 to 1.53)	0.82 (0.39 to 1.71)	0.60
		Model 3*	1(ref.)	1.00 (0.56 to 1.78)	0.92 (0.37 to 2.29)	0.88
-	Coturnate of fate	Deaths/woman-	E0/2122	20/102/	27/1500	
	Saturated fats	years	30/2132	30/1034	57/1390	
		Model 1	1(ref.)	0.68 (0.42 to 1.09)	0.83 (0.41 to 1.69)	0.41
		Model 2	1(ref.)	0.65 (0.40 to 1.06)	0.78 (0.37 to 1.62)	0.33
-		Model 3#	1(ref.)	0.63 (0.38 to 1.04)	0.77 (0.37 to 1.60)	0.30
	Monounsaturated	Deaths/woman-	36/1900	57/1894	32/1761	
	fats	years				
		Model 1	1(ref.)	1.15 (0.71 to 1.86)	0.62 (0.32 to 1.22)	0.21
		Model 2	1(ref.)	1.20 (0.73 to 1.95)	0.67 (0.33 to 1.33)	0.32
-	D1 ((1	Model 3\$	I(ref.)	1.23 (0.74 to 2.02)	0.69 (0.34 to 1.40)	0.38
	Polyunsaturated	Deaths/woman-	15/824	15/1082	16/1323	
	Tats	years Model 1	1(rof)	$0.07(0.61 \pm 0.155)$	$0.80(0.42 \pm 0.1.48)$	0.50
		Model 2	1(rof)	1.02 (0.63 to 1.64)	0.80 (0.43 to 1.43) 0.89 (0.48 to 1.65)	0.50
		Model 3£	1(ref)	0.98 (0.60 to 1.64)	0.85 (0.45 to 1.63)	0.63
		Deaths/woman-	1(101.)	0.00 (0.00 to 1.00)	0.00 (0.10 to 1.01)	0.00
BMI≤25	Total fats	vears	25/1231	21/1307	16/1533	
		Model 1	1(ref.)	0.52 (0.24 to 1.12)	0.32 (0.10 to 1.01)	0.05
		Model 2	1(ref.)	0.58 (0.27 to 1.26)	0.36 (0.11 to 1.17)	0.08
		Model 3*	1(ref.)	0.63 (0.25 to 1.60)	0.43 (0.11 to 1.73)	0.23
-	0 4 4 14 4	Deaths/woman-	06/2011	01/1000	1=/1=0=	
	Saturated fats	years	26/1244	21/1322	15/1505	
		Model 1	1(ref.)	0.68 (0.33 to 1.37)	0.35 (0.11 to 1.11)	0.08
		Model 2	1(ref.)	0.68 (0.33 to 1.40)	0.31 (0.10 to 1.02)	0.06
-		Model 3#	1(ref.)	0.77 (0.36 to 1.62)	0.34 (0.10 to 1.13)	0.10
	Monounsaturated	Deaths/woman-	23/12/1	23/1262	16/1464	
	fats	years	23/1244	20/1002	10/1404	
		Model 1	1(ref.)	0.80 (0.39 to 1.65)	0.59 (0.22 to 1.61)	0.30

		Model 2	1(ref.)	0.83 (0.39 to 1.75)	0.62 (0.22 to 1.77)	0.38
		Model 3\$	1(ref.)	1.02 (0.46 to 2.26)	0.80 (0.27 to 2.38)	0.69
	Polyunsaturated fats	Deaths/woman- vears	24/1133	23/1467	15/1471	
		Model 1	1(ref.)	0.56 (0.28 to 1.13)	0.33 (0.13 to 0.85)	0.02
		Model 2	1(ref.)	0.60 (0.30 to 1.21)	0.37 (0.14 to 0.97)	0.04
		Model 3£	1(ref.)	0.64 (0.31 to 1.32)	0.39 (0.15 to 1.02)	0.05
BMI>25	Total fats	Deaths/woman- years	31/1447	28/1377	35/1273	
		Model 1	1(ref.)	0.73 (0.41 to 1.30)	0.85 (0.38 to 1.91)	0.60
		Model 2	1(ref.)	0.79 (0.44 to 1.43)	0.98 (0.43 to 2.21)	0.85
		Model 3*	1(ref.)	0.68 (0.35 to 1.32)	0.75 (0.28 to 2.02)	0.50
	Saturated fats	Deaths/woman- years	32/1474	28/1331	34/1292	
		Model 1	1(ref.)	0.75 (0.42 to 1.33)	1.05 (0.47 to 2.33)	0.96
		Model 2	1(ref.)	0.78 (0.43 to 1.42)	1.17 (0.51 to 2.67)	0.86
		Model 3#	1(ref.)	0.71 (0.38 to 1.31)	1.07 (0.46 to 2.49)	0.97
	Monounsaturated fats	Deaths/woman- years	30/1449	32/1282	32/1366	
		Model 1	1(ref.)	0.91 (0.52 to 1.61)	0.71 (0.35 to 1.47)	0.36
		Model 2	1(ref.)	0.95 (0.54 to 1.69)	0.77 (0.37 to 1.63)	0.52
		Model 3\$	1(ref.)	0.94 (0.52 to 1.70)	0.76 (0.35 to 1.64)	0.49
	Polyunsaturated fats	Deaths/woman- years	24/1133	23/1467	15/1471	
		Model 1	1(ref.)	0.89 (0.50 to 1.56)	0.77 (0.38 to 1.58)	0.49
		Model 2	1(ref.)	1.01 (0.56 to 1.81)	0.99 (0.47 to 2.07)	0.98
		Model 3£	1(ref.)	0.94 (0.52 to 1.71)	0.91 (0.43 to 1.94)	0.81
ER negative	Total fats	Deaths/woman- years	17/325	15/377	17/429	
		Model 1	1(ref.)	0.78 (0.33 to 1.86)	1.20 (0.34 to 4.28)	0.96
		Model 2	1(ref.)	1.31 (0.45 to 3.79)	1.71 (0.37 to 7.87)	0.49
		Model 3*	1(ref.)	1.05 (0.29 to 3.85)	1.14 (0.17 to 7.76)	0.89
	Saturated fats	Deaths/woman- years	19/325	13/362	17/444	
		Model 1	1(ref.)	0.66 (0.26 to 1.66)	0.76 (0.21 to 2.75)	0.61
		Model 2	1(ref.)	0.70 (0.26 to 1.87)	0.47 (0.11 to 1.97)	0.30
		Model 3#	1(ref.)	0.39 (0.13 to 1.17)	0.24 (0.05 to 1.15)	0.07
	Monounsaturated fats	Deaths/woman- years	16/348	16/329	17/454	
		Model 1	1(ref.)	1.10 (0.47 to 2.56)	1.04 (0.33 to 3.23)	0.92
		Model 2	1(ref.)	2.25 (0.79 to 6.42)	1.53 (0.37 to 6.33)	0.49
		Model 3\$	1(ref.)	2.57 (0.83 to 7.98)	1.87 (0.39 to 8.87)	0.41
	Polyunsaturated fats	Deaths/woman- years	16/338	15/353	18/441	
		Model 1	1(ref.)	0.67 (0.28 to 1.61)	1.24 (0.41 to 3.75)	0.85
		Model 2	1(ref.)	0.72 (0.28 to 1.89)	1.32 (0.43 to 4.10)	0.74
		Model 3£	1(ref.)	0.57 (0.21 to 1.55)	1.05 (0.32 to 3.50)	0.92
ER positive	Total fats	Deaths/woman- years	42/2557	43/2479	36/2512	
		Model 1	1(ref.)	0.86 (0.52 to 1.44)	0.77 (0.36 to 1.66)	0.49
		Model 2	1(ref.)	0.87 (0.52 to 1.47)	0.76 (0.35 to 1.65)	0.49
		Model 3*	1(ref.)	0.81 (0.45 to 1.48)	0.66 (0.26 to 1.70)	0.39

Saturated fats	Deaths/woman- years	44/2566	42/2468	35/2515	
	Model 1	1(ref.)	0.91 (0.55 to 1.50)	0.87 (0.41 to 1.84)	0.69
	Model 2	1(ref.)	0.89 (0.54 to 1.48)	0.82 (0.38 to 1.78)	0.60
	Model 3#	1(ref.)	0.85 (0.51 to 1.43)	0.79 (0.36 to 1.72)	0.53
Monounsaturated fats	Deaths/woman- years	40/2524	48/2557	33/2466	
	Model 1	1(ref.)	0.97 (0.59 to 1.59)	0.76 (0.39 to 1.46)	0.41
	Model 2	1(ref.)	0.97 (0.58 to 1.61)	0.76 (0.39 to 1.49)	0.42
	Model 3\$	1(ref.)	0.96 (0.57 to 1.62)	0.74 (0.37 to 1.47)	0.38
Polyunsaturated fats	Deaths/woman- years	16/337.5	15/352.7	18/440.5	
	Model 1	1(ref.)	0.88 (0.55 to 1.43)	0.64 (0.35 to 1.20)	0.17
	Model 2	1(ref.)	0.93 (0.57 to 1.52)	0.72 (0.39 to 1.36)	0.32
	Model 3£	1(ref.)	0.88 (0.54 to 1.46)	0.68 (0.35 to 1.29)	0.24

Model 1: Adjusted for hospital of recruitment, age, PPS score (0, IA, IB,IIA, IIB, IIA, IIB, IIC,IV,non applicable, missing), systemic treatment received by the patients: chemotherapy (yes, non), hormone therapy (yes, non) and immunology therapy (yes, non) and total energy intake (Kcal/day) one year before the diagnosis **Model 2:** Adjusted for all previous variables and socioeconomic status (low, middle, high), education attained, physical activity (metabolic equivalents (METs)) during the 5 years before diagnosis, smoking status one year before recruitment (never; former; current) and Body Mass Index (kg/m²). **Model 3:** Adjusted for the same variables in model 2 and *percentage of calories from the other major nutrient groups, # percentage of calories from monounsaturated and polyunsaturated fats \$ percentage of calories from saturated and polyunsaturated fats £ percentage of calories from saturated and monounsaturated fats.