

Supplementary Table 1: *BRCA1* carriers: rs1328615
(8q24), time dependent Hazard ratio estimates

Age	Per allele HR	95% CI
<30	1.06	0.92-1.23
30-39	1.03	0.96-1.11
40-49	0.98	0.90-1.06
50-59	0.94	0.82-1.07
60-69	0.68	0.52-0.90
≥70	1.13	0.65-1.98

Supplementary Table 2: Genotype frequencies by disease status and hazard ratio estimates after excluding prevalent cases

Mutation/Gene	Genotype	Unaffected (%)	Affected(%)	HR	95% CI	p-Value
<i>LSP1</i> rs3817198						
<i>BRCA1</i>	TT	1763 (45.8)	1016 (44.1)	1.00		
	TC	1673 (43.4)	1028 (44.6)	1.03	0.93-1.15	
	CC	414 (10.8)	261 (11.3)	1.08	0.92-1.27	
	2df test					0.63
	Per Allele			1.04	0.96-1.11	0.33
<i>BRCA2</i>	TT	1036 (45.2)	654 (42.5)	1.00		
	TC	1002 (43.8)	686 (44.6)	1.11	0.97-1.26	
	CC	251 (11.0)	198 (12.9)	1.43	1.15-1.76	
	2df test					0.004
	Per Allele			1.17	1.06-1.29	0.0015
2q35 rs13387042						
<i>BRCA1</i>	GG	955 (24.5)	479 (20.9)	1.00		
	GA	1846 (47.3)	1158 (50.6)	1.18	1.05-1.34	
	AA	1101 (28.2)	653 (28.5)	1.10	0.96-1.27	
	2df test					0.026
	Per Allele			1.04	0.97-1.11	0.23
	Dominant			1.15	1.03-1.30	0.017
<i>BRCA2</i>	GG	570 (24.9)	318 (20.7)	1.00		
	GA	1095 (47.9)	773 (50.4)	1.23	1.05-1.44	
	AA	623 (27.2)	442 (28.8)	1.20	1.00-1.43	
	2df test					0.038
	Per Allele			1.09	0.99-1.19	0.071
Dominant			1.22	1.04-1.42	0.012	
8q24 rs13281615						
<i>BRCA1</i>	AA	1235 (31.8)	744 (32.3)	1.00		
	AG	1965 (50.6)	1144 (49.6)	0.97	0.87-1.08	
	GG	684 (17.6)	417 (18.1)	1.00	0.86-1.15	
	2df test					0.83
	Per-Allele			0.99	0.93-1.07	0.86
<i>BRCA2</i>	AA	773 (33.8)	476 (31.2)	1.00		
	AG	1126 (49.2)	778 (50.9)	1.02	0.88-1.18	
	GG	388 (17.0)	273 (17.9)	1.07	0.89-1.29	
	2df test					0.75
	Per-Allele			1.03	0.94-1.13	0.47