

Appendix 1. Confounding model for breast cancer, Univariate, Multivariate and Final model, comprising 14 119 women from Malmö Diet and Cancer cohort recruited between 1991 and 1996.

	<i>Univariate model</i>		<i>Multivariate model_a</i>		<i>Final model_b</i>	
	HR (CI)	N (n cases)	HR (CI)	N (n cases)	HR (CI)	N (n cases)
		14 119 (897)		13 166 (829)		13 287 (836)
Age_c (years)						
45-49	1.00	3 331 (180)	1.00	3 187 (172)	1.00	3 201 (172)
50-54	1.01 (0.82-1.23)	2 681 (204)	0.93 (0.75-1.15)	2 474 (186)	0.93 (0.75-1.15)	2 497 (187)
55-59	1.03 (0.84-1.26)	2 419 (197)	0.98 (0.79-1.22)	2 228 (183)	0.98 (0.79-1.21)	2 248 (184)
60-64	0.78 (0.63-0.97)	2 758 (168)	0.77 (0.60-0.98)	2 502 (149)	0.78 (0.62-0.98)	2 533 (153)
65-69	0.76 (0.59-0.98)	1 606 (87)	0.81 (0.60-1.08)	1 474 (80)	0.89 (0.60-1.04)	1 502 (80)
70-74	0.73 (0.54-0.97)	1 324 (61)	0.76 (0.55-1.05)	1 301 (59)	0.76 (0.56-1.04)	1 306 (60)
Parity						
0	1.00	1 896 (132)	1.00	1 860 (129)	1.00	1 881 (131)
1	0.78 (0.62-0.98)	3 065 (172)	0.63 (0.39-1.02)	2 823 (156)	0.61 (0.38-0.99)	2 843 (157)
2	0.95 (0.78-1.15)	5 802 (393)	0.76 (0.47-1.22)	5 542 (371)	0.74 (0.46-1.19)	5 592 (374)
3	0.85 (0.67-1.07)	2 275 (140)	0.71 (0.43-1.15)	2 160 (136)	0.69 (0.43-1.13)	2 182 (137)
≥4	0.62 (0.44-0.90)	831 (38)	0.54 (0.31-0.93)	781 (37)	0.52 (0.30-0.91)	789 (37)
Age at first child (years)						
<20	1.00	1 457 (83)	1.00	1 380 (78)	1.00	1 396 (78)
20-24	1.11 (0.87-1.41)	4 683 (301)	1.14 (0.88-1.47)	4 427 (293)	1.15 (0.90-1.48)	4 464 (294)
25-29	1.01 (0.79-1.30)	4 056 (240)	1.00 (0.77-1.31)	3 860 (227)	1.03 (0.79-1.34)	3 894 (230)
30-34	1.11 (0.82-1.50)	1 341 (85)	1.09 (0.78-1.52)	1 249 (74)	1.09 (0.79-1.52)	1 260 (74)
35+	1.41 (0.94-2.10)	426 (33)	1.33 (0.84-2.10)	390 (28)	1.39 (0.89-2.17)	392 (29)
No children	1.25 (0.94-1.64)	1 896 (132)	omitted	1 860 (129)	omitted	1 881 (131)
Months of breastfeeding/child						
0	1.00	562 (29)	1.00	554 (29)	1.00	558 (29)
1-5	1.08 (0.74-1.57)	7 283 (426)	1.04 (0.71-1.53)	7 149 (419)	1.05 (0.72-1.53)	7 215 (423)
6-12	1.24 (0.85-1.83)	3 520 (240)	1.31 (0.89-1.93)	3 460 (239)	1.31 (0.89-1.93)	3 488 (240)
≥13	1.98 (1.03-3.81)	146 (13)	2.09 (1.08-4.04)	143 (13)	2.09 (1.08-4.03)	145 (13)
No children	1.33 (0.89-1.98)	1 896 (132)	omitted	1 860 (129)	omitted	1 881 (131)
Hormonal replacement therapy						
No treatment	1.00	11 481 (650)	1.00	10 729 (601)	1.00	10 826 (606)
Oestrogen	1.03 (0.79-1.35)	921 (58)	1.09 (0.82-1.43)	865 (55)	1.11 (0.84-1.46)	874 (56)
Progesterone	2.18 (1.13-4.20)	79 (9)	1.93 (0.96-3.90)	74 (8)	1.95 (0.97-3.93)	74 (8)

Oestrogen + Progesterone	1.91 (1.62-2.25)		1.86 (1.56-2.23)	1 498 (165)	1.87 (1.56-2.23)	1 513 (166)
		1 599 (177)				
Physical activity (percentile)						
0-25	1.00	3 420 (228)	1.00	3 165 (209)	1.00	3 192 (210)
25-50	1.06 (0.89-1.27)	3 466 (250)	1.07 (0.89-1.29)	3 254 (234)	1.08 (0.89-1.30)	3 275 (235)
50-75	0.86 (0.71-1.03)	3 630 (210)	0.84 (0.69-1.02)	3 419 (190)	0.85 (0.70-1.04)	3 458 (195)
75-100	0.86 (0.71-1.04)	3 529 (207)	0.89 (0.73-1.08)	3 328 (196)	0.88 (0.72-1.07)	3 362 (196)
Alcohol (g/day)						
0	1.00	1 012 (42)	1.00	908 (39)	1.00	919 (40)
1-14	1.53 (1.12-2.08)	10 799 (692)	1.40 (1.01-1.94)	10 100 (636)	1.38 (1.00-1.91)	10 193 (641)
15-30	1.52 (1.06-2.15)	1 969 (121)	1.32 (0.91-1.92)	1 850 (114)	1.31 (0.91-1.89)	1 866 (115)
>30	3.39 (2.21-5.21)	327 (42)	2.93 (1.86-4.62)	308 (40)	2.88 (1.84-4.49)	309 (40)
Height (cm)						
<160	1.00	3 445 (187)	1.00	3 198 (175)	1.00	3 223 (175)
160-169	1.24 (1.05-1.46)	8 351 (559)	1.15 (0.96-1.37)	7 800 (515)	1.16 (0.98-1.39)	7 881 (521)
>170	1.27 (1.03-1.58)	2 305 (151)	1.12 (0.89-1.42)	2 168 (139)	1.14 (0.91-1.43)	2 183 (140)
BMI_d						
<18.5 Underweight	0.89 (0.47-1.66)	206 (10)	0.84 (0.41-1.69)	185 (8)	0.81 (0.40-1.64)	181 (8)
18.5-24.9 Normal weight	1	7 272 (424)	1.00	6 796 (386)	1.00	6 848 (389)
25-29.9 Overweight	1.15 (1.00-1.34)	4 703 (321)	1.27 (1.09-1.49)	4 420 (302)	1.29 (1.10-1.50)	4 462 (306)
≥30 Obese	1.27 (1.05-1.53)	1 920 (142)	1.51 (1.23-1.85)	1 765 (133)	1.50 (1.22-1.84)	1 788 (133)
Heredity_e						
No	1.00	7 435 (458)	1.00	6 970 (427)		
Yes	1.06 (0.93-1.21)	6 634 (438)	1.06 (0.92-1.21)	6 196 (402)		
Oral contraceptive use						
Never	1.00	7 243 (439)	1.00	6 704 (401)		
Ever	1.18 (1.04-1.35)	6 869 (458)	1.04 (0.89-1.22)	6 462 (428)		
Menarche (years)						
≤12	1.00	3 070 (209)	1.00	2 670 (193)		
>12	0.90 (0.77-1.05)	10 959 (680)	0.96 (0.82-1.13)	10 303 (636)		
Current smoker						
No	1.00	10 221 (666)	1.00	9 555 (616)		
Yes	0.97 (0.83-1.13)	3 894 (231)	0.95 (0.81-1.11)	3 608 (213)		
Education						
< 9 years	1.00	5 552 (335)	1.00	5 123 (312)		

9-11 years, Elementary	1.14 (0.97-1.33)	4 339 (288)	1.02 (0.87-1.22)	4 063 (267)
12-14 years, Collage	1.09 (0.89-1.34)	2 075 (126)	0.92 (0.73-1.15)	1 961 (115)
≥ 15 years, University	1.28 (1.05-1.56)	2 124 (146)	1.04 (0.83-1.30)	2 019 (135)

a: Adjusted for all variables in the model

b: Adjusted for variable significant in the multivariate model or non-significant variables that differed >10% from the reference group.

c: Age at baseline

d. Body mass index (kg/m²)

e. First degree relative (parent, sibling, child) diagnosed with any type of cancer