

Tables

Table 1

Established risk factors and breast cancer risk among 483,241 Norwegian women 2006-2013

	Mean (SD)	No. of cases	No. of women	Age-adjusted HR	95% CI
Age at menarche, years, continuous ^a	13.3 (1.4)	5,794	346,619	0.97	0.96-0.99
Age at menarche, categories ^a					
≤ 12 years		1,809	102,842	1	
13 years		1,570	95,616	0.92	0.86-0.98
14 years		1,388	84,951	0.90	0.84-0.96
≥ 15 years		1,027	63,210	0.90	0.84-0.98
Missing		1,862	136,622		
Nulliparity					
No		5,299	324,243	1	
Yes		635	31,624	1.30	1.19-1.41
Missing		1,722	127,374		
Age at first birth, per 5 years ^b	23.4 (4.6)	5,106	310,981	1.09	1.06-1.12
Age at first birth, categories ^b					
< 20 years		1,025	64,660	0.99	0.92-1.07
20-24 years		2,241	137,667	1	
25-29 years		1,275	77,609	1.09	1.01-1.16
30-34		394	22,374	1.23	1.11-1.38
≥ 35 years		171	8,671	1.39	1.19-1.63
Missing		193	13,262		
Number of children, per child ^b	2.3 (0.9)	5,185	317,006	0.89	0.87-0.92
Age at natural menopause, per year ^c	49.7 (4.1)	2,496	181,031	1.02	1.01-1.03
Age at natural menopause, categories ^c					
≤ 45 years		316	24,890	0.99	0.87-1.12
46-48 years		359	30,327	0.92	0.81-1.04
49-51 years		865	67,650	1	
52-54 years		647	41,122	1.12	1.01-1.24
≥ 55 years		341	19,340	1.22	1.07-1.39
Missing		1,557	113,009		
Menopausal status ^c					
Postmenopausal		2629	189,753	1	
Pre- or peri-menopausal		984	81,982	1.07	0.97-1.17
Missing		405	19,933		

Abbreviations: CI = confidence interval; HR = hazard ratio

^a Women reporting age at menarche <8 and >18 years of age were excluded [24]. ^b Nulliparous women and women reporting age at first pregnancy <8 and >55 years of age were excluded. ^c Excluding women who reported ever use of menopausal hormone therapy, women with a surgical menopause (i.e. hysterectomy and/or uni- or bilateral oophorectomy), and women reporting age at menopause <15 and >71 years of age (the oldest participant) [25, 26].

Table 2

Breast cancer risk associated with body-mass in different periods of life and use of hormone therapy around menopause among 483,241 Norwegian women 2006-2013

	Mean (SD)	No. of cases	No. of women	Age-adjusted		Multivariable-adjusted	
				HR	95% CI	HR	95% CI
Weight at 7 years of age ^a							
Below average		1,287	72,018	1.07	1.00-1.14	1.10	1.02-1.19
Average		3,076	182,210	1		1	
Above average		364	26,021	0.85	0.76-0.95	0.79	0.70-0.89
Missing		2,929	202,992				
P for trend					<0.001		<0.001
Weight at 15 years of age ^b							
Below average		1,068	58,846	1.11	1.03-1.19	1.16	1.07-1.25
Average		3,289	194,452	1		1	
Above average		414	30,760	0.81	0.73-0.89	0.79	0.71-0.88
Missing		2,885	199,183				
P for trend					<0.001		<0.001
BMI at screening, kg/m ²	25.8 (4.6)						
Per unit increase ^{c, d}		6,600	422,505	1.01	1.01-1.02	1.02	1.01-1.02
Categories ^{c, d}							
Underweight <21		548	43,175	0.86	0.78-0.94	0.85	0.76-0.95
Normal weight 21-24.9		2,478	163,903	1		1	
Overweight 25-29.9		2,463	150,830	1.07	1.01-1.13	1.10	1.03-1.18
Obese ≥30		1,111	64,597	1.15	1.07-1.24	1.19	1.09-1.30
<25		3,026	207,078	1		1	
≥25		3,574	215,427	1.13	1.07-1.18	1.16	1.10-1.23
Missing		1,056	60,736				
Body mass pattern ^{a, c}							
Overweight as young ^e		572	41,638	0.88	0.80-0.97	0.85	0.76-0.94
Remained at normal weight through life ^f		1,894	119,988	1		1	
Gained weight as adult ^g		1,990	107,976	1.15	1.08-1.23	1.20	1.12-1.28
Missing		3,200	213,639				
Use of systemic HT							
Never		3,271	252,353	1		1	
Former		1,623	90,633	1.11	1.05-1.19	1.06	0.98-1.15
Current		1,327	47,309	1.92	1.80-2.05	1.90	1.76-2.06
Missing		1,435	92,946				
Use of systemic combination HT (EPT)							
Never		3,271	252,353	1		1	
Former		1,471	80,173	1.14	1.06-1.21	1.08	1.00-1.17
Current		1,091	33,886	2.22	2.07-2.38	2.18	2.01-2.37
Missing		1,823	116,829				

Abbreviations: BMI = body mass index, calculated as weight (kg)/height (m)²; CI = confidence interval; EPT = estrogen plus progestogen treatment; HR = hazard ratio; HT = menopausal hormone therapy

^a Adjusted for height relative to peers at age 7 years. ^b Adjusted for height relative to peers at age 15 years. ^c Adjusted for education, age at first birth, parity and usual alcohol consumption in addition to attained age. ^d We excluded women reporting body weight <30 kg and >299 kg or height <120 cm and >203 cm. ^e Participants reporting weighing above average at 7 and/or 15 years of age, regardless of BMI at baseline. ^f Participants reporting weighing below the average or average at 7 and 15 years of age and having BMI <25 kg/m² at baseline. ^g Participants reporting weighing below the average or average at 7 and 15 years of age and having BMI ≥25 kg/m² at baseline.