

Table 2.60. Cohort studies of active smoking and risk of breast cancer: smoking initiation relative to first birth

Study	Cases	Exposure timing	RR (95% CI)
<i>Incidence</i>			
Hunter <i>et al.</i> (1997) (ever) (nested case-control study)	181/208	Nonsmoker	1.0 (ref)
	87/66	1-<5 years before	1.9 (1.2-2.8)
	149/138	≥5 years before	1.1 (0.8-1.6)
Egan <i>et al.</i> (2002) (ever) (years before)		<i>Yrs of smoking before first birth</i>	
	1340	Nonsmoker	1.00 (ref)
	563	<5	1.10 (0.96-1.26)
	943	≥5	1.13 (0.99-1.30)
			p-trend=0.03
Egan <i>et al.</i> (2002) (ever) (years AFTER)		<i>Yrs of smoking AFTER first birth</i>	
	1406	Nonsmoker	1.00 (ref)
	259	<10	0.95 (0.81-1.12)
	352	10-20	0.98 (0.83-1.14)
829	≥20	0.99 (0.86-1.13)	
			p-trend=0.90
Al-Delaimy <i>et al.</i> (2004) (ever)		<i>Yrs of smoking before first birth</i>	
	596	Nonsmoker	1.00 (ref)
	39	1-4	1.02 (0.72-1.44)
	112	5-9	1.12 (0.91-1.39)
	119	10-14	1.19 (0.97-1.47)
	80	15-19	1.42 (1.10-1.83)
49	≥20	1.10 (0.80-1.52)	
			p-trend=0.01
Reynolds <i>et al.</i> (2004a) (ever)	1174	Nonsmoker	1.00 (ref)
	110	<5 yrs before	0.99 (0.80-1.21)
	406	≥5 yrs before	1.13 (1.00-1.28)
	42	After only	0.89 (0.65-1.21)
Lawlor <i>et al.</i> (2004)	139 total	Nonsmoker	1.00 (ref)
		Before	1.06 (0.72-1.56)
		After	0.70 (0.36-1.36)
Gram <i>et al.</i> (2005) (current)	137	Nonsmoker	1.00 (ref)
	213	Before	1.18 (0.92-1.52)
	91	After	0.99 (0.72-1.37)
			p-trend=0.14

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Study	Cases	Exposure timing	RR (95% CI)
Gram <i>et al.</i> (2005) (ever 20+ yrs)	137	Nonsmoker	1.00 (ref)
	257	Before	1.27 (1.00–1.62)
	78	After	0.98 (0.70–1.62)
			p-trend=0.03
Olson <i>et al.</i> (2005) (ever)	414	Nonsmoker	1.00 (ref)
	207	Before	1.21 (1.07–1.37)
		After	1.03 (0.88–1.21)
Cui <i>et al.</i> (2006) (ever) (yrs smoked BEFORE)		<i>Yrs smoked prior to first birth</i>	
	2420	Nonsmoker	1.00 (ref)
	578	>0–5	1.01 (0.91–1.13)
	588	>5	1.13 (1.01–1.25)
			p-trend=0.041
Cui <i>et al.</i> (2006) (ever) (yrs smoked AFTER)		<i>Yrs smoked AFTER first birth</i>	
	1990	Nonsmoker	1.00 (ref)
	416	>0–10	1.99 (0.88–1.11)
	608	>10–20	1.12 (1.01–1.24)
	572	>20	1.07 (0.96–1.20)
			p-trend=0.10
Thun <i>et al.</i> (2009) (ever) (parous women only)	1543	Nonsmoker	1.00
	498	≤5 yrs before	1.11 (1.00–1.24)
	447	6–10 yrs before	1.12 (1.00–1.25)
	199	>10 yrs before	1.43 (1.21–1.69)
	176	During/after	1.17 (0.99–1.37)
			p-trend=0.06
			*trend only in women who initiated smoking prior to first birth
<i>Mortality</i>			
Thun <i>et al.</i> (2009) (ever) (parous women only)	3128	Nonsmoker	1.00 (ref)
	757	≤5 yrs before	0.92 (0.84–1.02)
	665	6–10 yrs before	0.99 (0.90–1.09)
	342	>10 yrs before	1.10 (0.97–1.25)
	406	During/after	0.85 (0.76–0.96)
			p-trend=0.03
			*trend only in women who initiated smoking prior to first birth