

Table 2.58. Cohort studies of active smoking and risk of breast cancer: age at initiation

Study	Cases	Age at initiation	RR (95%CI)
<i>Incidence</i>			
London <i>et al.</i> (1989b) (ever)	750	Nonsmoker	1.00 (ref)
	198	<17	1.07 (0.91–1.25)
	349	18–19	1.00 (0.88–1.14)
	286	20–21	1.04 (0.91–1.20)
	192	≥22	1.07 (0.91–1.26)
Nordlund <i>et al.</i> (1997) (ever)		Nonsmoker	1.00 (ref)
		<19	1.21 (0.82–1.77)
		20–23	0.99 (0.64–1.53) p-trend=0.35
Egan <i>et al.</i> (2002) (ever)	1359	Nonsmoker	1.00 (ref)
	228	<17	1.19 (1.03–1.37)
	499	17–18	1.02 (0.92–1.13)
	529	19–20	1.11 (1.00–1.23)
	305	21–22	1.04 (0.91–1.18)
	220	>22	1.06 (0.92–1.22) p-trend=0.13
Al-Delaimy <i>et al.</i> (2004) (ever)	603	Nonsmoker	1.00 (ref)
	55	<15	1.29 (0.97–1.71)
	203	15–19	1.09 (0.93–1.29)
	148	≥20	1.18 (0.97–1.42)
Reynolds <i>et al.</i> (2004a) (ever)	1174	Nonsmoker	1.00 (ref)
	507	<20	1.17 (1.05–1.30)
	285	≥20	1.03 (0.90–1.17)
Gram <i>et al.</i> (2005) (current)	137	Nonsmoker	1.00 (ref)
	36	10–14	1.51 (1.00–2.28)
	216	15–19	1.15 (0.91–1.47)
	108	≥20	1.02 (0.78–1.35) p-trend=0.07
Gram <i>et al.</i> (2005) (ever 20+ yrs)	137	Nonsmoker	1.00 (ref)
	49	10–14	1.48 (1.03–2.13)
	259	15–19	1.23 (0.97–1.55)
	84	≥20	1.16 (0.86–1.57) p-trend=0.03
Olson <i>et al.</i> (2005) (ever)	1316	Nonsmoker	1.00 (ref)
	124	≤18	1.12 (0.92–1.36)
	557	>18	1.11 (1.00–1.24)

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Study	Cases	Age at initiation	RR (95%CI)
Cui <i>et al.</i> (2006) (ever) (updated results from Terry & Rohan (2002))	2249	Nonsmoker	1.00 (ref)
	222	<16	1.11 (0.97–1.28)
	637	16–19	1.10 (1.01–1.21)
	1295	≥20	1.07 (0.99–1.14)
			p-trend=0.01
Ha <i>et al.</i> (2007) (ever)	294	Nonsmoker	1.00 (ref)
	25	<15	1.48 (0.77–2.84)
	113	15–17	1.19 (0.68–2.06)
	159	18–20	1.09 (0.64–1.86)
	54	>20	0.97 (0.60–1.57)
			p-trend=0.06
Thun <i>et al.</i> (2009) (ever)	1737	Nonsmoker	1.00 (ref)
	151	≤15	1.14 (0.96–1.36)
	946	16–20	1.13 (1.04–1.23)
	241	21–25	1.05 (0.91–1.20)
	114	>25	1.13 (0.93–1.37)
			p-trend=0.92
<i>Mortality</i>			
Calle <i>et al.</i> (1994) (current)	468	Nonsmoker	1.00 (ref)
	50	<16	1.59 (1.17–2.15)
	65	17–19	1.41 (1.08–1.85)
	68	≥20	1.00 (0.77–1.30)
			p-trend=0.11
Thun <i>et al.</i> (2009) (ever)	3866	Nonsmoker	1.00 (ref)
	275	≤15	1.01 (0.88–1.15)
	1574	16–20	0.99 (0.92–1.07)
	550	21–25	1.00 (0.91–1.11)
	286	>25	0.80 (0.70–0.90)
			p-trend=0.01