

Table 2.79. Cohort studies on smoking and ovarian cancer

Reference, Country, years of study	Study Subjects	Cases	Smoking Exposure	Relative Risk (95%CI)					Comments			
				All	Serous	Endometrioid	Mucinous	Other				
Terry <i>et al.</i> (2003) 1980-2000	Canadian cohort of 89835 women	454 cases 184 serous 67 endometrioid 32 mucinous. 171 others	Current	1.18 (0.95–1.50)	1.04 (0.71–1.53)	0.81 (0.43–1.54)	2.29 (1.00–5.28)	1.40 (0.94–2.09)	Adjusted by age group, treatment allocation, study center, Quetelet index, education level, physical activity, oral contraceptive use, HRT, parity, age menarche, menopausal status			
			Former	1.07 (0.86–1.34)	0.98 (0.69–1.40)	0.67 (0.37–1.22)	1.19 (0.48–2.93)	1.51 (1.06–2.15)				
			Never	1	1	1	1	1				
			<i>Years smoked</i>									
			40+	2.5 (1.37–4.56)								
			30-39	1.18 (0.85–1.63)								
			20-29	1.08 (0.82–1.41)								
			10-19	1.00 (0.73–1.37)								
			1-9	1.17 (0.84–1.62)								
			Never	1								
			<i>Pack-years</i>									
			40+	1.29 (0.86–1.95)								
			30-39	1.46 (1.03–2.06)								
			20-29	1.02 (0.71–1.48)								
			10-19	1.05 (0.76–1.45)								
			1-9	1.07 (0.82–1.39)								
			Never	1								
<i>Years cessation</i>												
Current	1 (referent)											
1-9	0.84 (0.59–1.20)											
10-19	0.96 (0.68–1.37)											
20+	0.99 (0.65–1.51)											

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Niwa <i>et al.</i> (2005) 1988-1999	Japanese Collaborative Cohort Study of 64327 women. Eligible for analysis 34637 women	39 cases	Current (n=5)	2.63 (1.02–6.78)					Adjustment by age, area, BMI, family history of breast/ovarian cancer, age menarche, age menopause, parity, alcohol use, education		
			Former (n=1)	2.06 (0.28–15.16)							
			Never (n=33)	1							
			<i>Years smoked</i>								
			≥20	1.82 (0.42–7.85)							
			10-19	4.58 (1.07–19.59)							
			<10	3.95 (0.53–29.49)							
			Never	1							
			<i>Pack-years</i>								
			≥20	1.86 (0.25–14.30)							
			10-19	5.56 (1.68–19.06)							
			<10	1.48 (0.20–10.92)							
			Never	1							
Tworoger <i>et al.</i> (2008) 1976-2004	Nurses Health Study 110454 women	737 cases (655 invasive, 82 borderline) 69 mucinous	Current, 15+/d	1.06 (0.74–1.51)				Adjusted for age, parity, oral contraceptive use, HRT, tubal ligation, BMI			
			Current 1-14/d	1.08 (0.92–1.27)		2.22 (1.16–4.24)					
			Former	1.05 (0.86–1.28)		2.02 (1.15–3.55)					
			Never	1		1					
			<i>Years smoked</i>								
			40+	1.04 (0.79–1.37)							
			30-39	0.98 (0.77–1.23)							
			20-29	1.10 (0.87–1.39)							
			10-19	1.19 (0.93–1.51)							
			<i>Years smoked</i>								
			40+	1.04 (0.79–1.37)							
			30-39	0.98 (0.77–1.23)							
			20-29	1.10 (0.87–1.39)							
			10-19	1.19 (0.93–1.51)							
			1-9	1.34 (1.04–1.73)							
			20 years	1.02 (0.93–1.11)		1.44 (1.07–1.96)					
			Never	1		1					
			<i>Pack-years</i>								
			≥40	1.02 (0.80–1.31)							
20-39	1.14 (0.92–1.40)										
1-19	1.16 (0.97–1.38)										
20 pack-years	1.01 (0.93-1.09)		1.30 (1.05–1.62)								
Never	1										

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Doll et al. (1980) 1951-1973	Female British doctors	24 deaths of cancer of the ovaries		Death rates / 100000	RR						
			≥25 cig/d	13	1.3						
			15-24 cig/d	61	6.1						
			1-14 cig/d	29	2.9						
			Former	17	1.7						
			Non-smokers	10	1						
Gram et al. (2008) 1991-2004	Norwegian-Swedish Women's Lifestyle and Health Cohort	343 incident cases (241 invasive; 102 borderline)	Current	1.4 (1.0-2.1)			1.5 (0.6-3.9)		Hazard ratios Adjusted for age, nulliparous, menopausal status, duration of hormonal replacement therapy use		
			Former	1.4 (1.0-2.0)			1.4 (0.6-3.5)				
			Never	1			1				
			<i>Years smoking</i>								
			>20 years	1.5 (1.0-2.1)	1.9 (1.1-3.1)		1.6 (0.6-4.1)				
			11-20	1.3 (0.9-2.0)	1.5 (0.9-2.6)		0.9 (0.3-2.7)				
			0-10	1.3 (0.9-2.0)	1.3 (0.7-2.3)		2.0 (0.8-5.5)				
			Never	1	1		1				
			<i>Pack-years</i>								
			≥15	1.3 (0.9-1.9)	1.6 (0.9-2.7)		1.2 (0.4-3.5)				
			10-14	1.7 (1.1-2.5)	2.5 (1.4-4.2)		1.5 (0.5-4.4)				
			0-9	1.4 (1.0-1.9)	1.3 (0.7-2.3)		1.6 (0.8-3.9)				
			Never	1	1		1				