Table 2.8. Cohort studies of estrogen-only menopausal therapy and ovarian cancer

Reference, location, name of study	Cohort description	Exposure assessment	Organ site (ICD code)	Exposure categories	No. of cases/deaths	Relative risk (95% CI)*	Adjustment for potential confounders	Comments	
Rodriguez et al.	Volunteers were enrolled in 1982. Vital status was determined through 1996 by active follow-up (1984, 1986, and 1988) or linkage to the Natioanl Death Indix (after 1988 or lost to follow-up between 1982 and 1988); 211 581	183.9)	(183.0-	Ever	255	1.23 (1.06-1.43)	age at baseline, race, duration of oral contractive use, number of live birth, age at	Reference is never	
(2001) US, The Cancer				Baseline users	62	1.51 (1.16-1.96)		user	
Prevention Study II, 1982-1996				Former	193	1.16 (0.99-1.37)			
11, 1702-1770					Years of use			menopause,	
				Baseline users			BMI, age at menarche, and tubal ligation.		
				<10	31	1.14 (0.79-1.65)			
				>=10	31	2.20 (1.53-3.17)			
	postmenopausal women completed			Former users					
	questionnaire			<10	158	1.10 (0.92-1.31)			
				>=10	35	1.59 (1.13-2.25)			
				Years since last use					
				Former user who used ERT for <10 years					
				<15 years	45	1.17 (0.85-1.60)			
			>=15 years	113	1.07 (0.87-1.32)				
				Former user who used ERT for >=10 years					
				<15 years	19	2.05 (1.29-3.25)			
				>=15 years	16	1.31 (0.79-2.17)			

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Lacey et al. (2002), US, The Breast Cancer Detection	s, The screen program to conducted at 29 US screening centers tion between 1973 and 1980. 64182 women were followed since		Ovary	Overall	116	1.6 (1.2-2.0)	age, menopause	Reference is no HRT use
				Duration of ERT- only user			type, and use duration of oral contraceptive use.  age and duration of oral contraceptive use	
Demonstration Project 1973-				<=4 years	51	1.3 (0.96-1.9)		
1998				4-9 years	25	1.6 (1.0-2.6)		
				10-19 years	21	1.8 (1.1-3.0)		
				>=20 years	16	3.2 (1.7-5.7)		
				Duration of ERT- only user by hysterectomy				
	,			No hysterectomy				
				<=4 years	33	1.4 (0.92-2.0)		
				4-9 years	17	2.1 (1.3-3.5)		
				10-19 years	4	0.99 (0.36-2.7)		
				>=20 years	1	1.2 (0.17-8.7)		
				Hysterectomy				
				<=4 years	15	1.2 (0.59-2.6)		
				4-9 years	7	1.0 (0.40-2.5)		
				10-19 years	15	2.0 (0.96-4.3)		
				>=20 years	14	3.4 (1.6-7.5)		

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Bakken et al (2004) Norway 1996-1998	A representative, national, population- based prospective cohort study. 31,451 postmenopausal women, aged 45–64 years, with complete information;	Detailed HRT use from postal questionnaire	Incident breast cancer	Estrogen only Estriol	2	0.9 (0.2–3.9) 0.9 (0.1-6.4)	age, ever use of OCs, parity, hysterectomy, age at first delivery	Included in the analyses are only women with the ovaries intact.
The Norwegian Women and Cancer (NOWAC) study								
Folsom et al.	41836 women aged 55-	Questionnaire,	Ovary	Baseline ERT Status			age, family	Reference is never
(2004), Iowa, US, The Iowa	69 years with Iowa driver's licence responded the mail in questionnaire	whether they had ever used "pills, other than birth control pills, that contain estrogen ot		Overall	223		history of vairan cancer, hysterectomy, unilateral oophorectomy,	user
Women's Health Study Cohort				Former User	49	1.07 (0.77-1.50)		
Study Conort				Current User	23	1.72 (1.07-2.75)		
		other female hormones", and duration they took		Duration of ERT Use at Baseline			number of liver birth, physical activity index,	
		them		Former, <=5 years	45	1.14 (0.81-1.61)	packyears of smoking,	
				Former, >5 years	4	0.69 (0.22-2.18)	waist/hip ratio, and BMI	
				Current, <=5 years	7	1.08 (0.50-2.33)	and BIVII	
				Current, >5 years	16	2.53 (1.44-4.45)		

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Lacey et al. (2006) US, NIH- AARP Diet and Health Study	Study cohort was established in 1995-1996. Response rate: 17.6%. Second questionnaire was sent out in 1996-1997. Response rate: 59.5%.		Ovary	Ever	49	1.33 (0.89-2.00)	age, race, duration of oral contraceptive use, BMI, menopause and hysterectomy  age, race, duration of oral contraceptive use, and BMI	Reference is no HRT use
				Former	14	1.15 (0.65-2.05)		
				Current	34	1.46 (0.89-2.38)		
				Duration of use				
				Ever				
				<10 years	23	1.15 (0.72-1.82)		
				>=10 years	26	1.89 (1.22-2.95)		
				Current User				
				<10 years	10	1.00 (0.49-2.03)		
				>=10 years	24	1.88 (1.08-3.27)		
				With hysterectomy				
				Ever	37	1.23 (0.67-2.27)		
				Former	6	1.03 (0.40-2.70)		
				Current	31	1.37 (0.72-2.62)		
				Duration of use				
				Ever				
				<10 years	11	0.84 (0.38-1.88)		
				>=10 years	26	1.70 (0.87-3.31)		
				Current User				
				<10 years	7	0.83 (0.33-2.09)		
				>=10 years	24	1.71 (0.87-3.35)		
				Without hysterectomy				
				Ever	12	1.23 (0.67-2.27)		

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Beral et al.	Cohort of 1.3 million	Questionnaire at	Ovarian				Stratified by age	
(2007), UK,	women who had been	recruitment and	(C56)	By duration (years)			and	
Million Women	invited for screening	resurvey	. ,	<5	40	0.89 (0.64-1.25)	hysterectomy	
Study	for breast cancer	J		≥5	196	1.53 (1.27-1.84)	status; adjusted	
	during 1996–2001			By constituent			by region of residence,	
				Equine oestrogen	108	1.38 (1.10-1.73)	socioeconomic	
				Oestradiol	116	1.33 (1.07-1.64)	group, time	
				By mode of administration			menopause, parity, body-	
				Oral	149	1.37 (1.12-1.68)	mass index,	
				Transdermal	75	1.28 (0.99-1.64)	alcohol consumption,	
				RR of death	167	1.48 (1.20-1.81)	and use of oral contraceptives	