

Antihypertensive Medication Use and Incident Breast Cancer in Women

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Online Resource 1. Relative risks of ER+ and ER- breast cancer over the follow-up period (1988-2012) in the Nurses' Health Study, according to current use of antihypertensive medication (n=94,233)

	ER+ tumors		ER- tumors		P-heterogeneity ^a
	Past/never use	Current use	Past/never use	Current use	
Any antihypertensive medication					1.0
Cases/Person-years	2,962/1,147,784	1,791/615,414	569/1,150,060	311/616,851	
Age-adjusted RR (95% CI)	1.00 (ref)	1.08 (1.02 to 1.15)	1.00 (ref)	1.08 (0.94 to 1.25)	
Multivariable-adjusted RR (95% CI) ^b	1.00 (ref)	1.00 (0.94 to 1.07)	1.00 (ref)	1.02 (0.88 to 1.19)	
Diuretics					0.6
Cases/Person-years	3,976/1,496,152	776/266,897	738/1,499,226	142/267,535	
Age-adjusted RR (95% CI)	1.00 (ref)	1.07 (0.99 to 1.16)	1.00 (ref)	1.16 (0.96 to 1.39)	
Multivariable-adjusted RR (95% CI) ^b	1.00 (ref)	1.00 (0.92 to 1.08)	1.00 (ref)	1.11 (0.92 to 1.34)	
Beta blockers					0.02
Cases/Person-years	4,064/1,526,609	688/236,440	784/1,529,755	96/237,006	
Age-adjusted RR (95% CI)	1.00 (ref)	1.06 (0.97 to 1.15)	1.00 (ref)	0.81 (0.65 to 1.00)	
Multivariable-adjusted RR (95% CI) ^b	1.00 (ref)	1.00 (0.92 to 1.09)	1.00 (ref)	0.77 (0.62 to 0.96)	
Calcium channel blockers					0.1
Cases/Person-years	4,300/1,619,742	452/143,306	786/1,623,104	94/143,657	
Age-adjusted RR (95% CI)	1.00 (ref)	1.13 (1.02 to 1.24)	1.00 (ref)	1.41 (1.13 to 1.75)	
Multivariable-adjusted RR (95% CI) ^b	1.00 (ref)	1.08 (0.98 to 1.20)	1.00 (ref)	1.36 (1.09 to 1.70)	
ACE inhibitors					0.8
Cases/Person-years	4,379/1,624,767	374/138,432	814/1,628,176	66/138,735	
Age-adjusted RR (95% CI)	1.00 (ref)	0.94 (0.84 to 1.04)	1.00 (ref)	0.98 (0.76 to 1.27)	
Multivariable-adjusted RR (95% CI) ^b	1.00 (ref)	0.90 (0.81 to 1.00)	1.00 (ref)	0.95 (0.73 to 1.23)	

^a P-heterogeneity calculated using the likelihood ratio test.

^b These models are adjusted for age and body-mass index (<20, 20-21.9, 22-24.9, 25-29.9, ≥30 kg/m²), height (inches), oral contraceptive use (never, ever), menopausal status (premenopausal, postmenopausal), age at menopause (<45, 45-49, 50-52, ≥53 years), postmenopausal hormone use (among postmenopausal women only: never, past, current), parity and age at first birth (nulliparous, 1-2 children and <25 years old, 1-2 children and 25-29 years old, 1-2 children and ≥30 years old, ≥3 children and <25 years old, ≥3 children and ≥25 years old), age at menarche (<12, 12, 13, ≥14 years old), family history of breast cancer (yes, no), history of benign breast disease (yes, no), alcohol intake (none, 1-7.49, 7.5-14.99, 15-29.9, ≥30 grams/day), physical activity level (quintiles of MET-hours/week), smoking status (never or past, current and <25 cigarettes/day, current and ≥25 cigarettes/day), and shift work history (none, 1-9, ≥10 years).