Supplemental Online Content

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This supplemental material has been provided by the authors to give readers additional information about their work.

eTable 1. Unadjusted Hazard Ratios and 95% CIs of Aspirin Use and Risk of Cancer

Cancer site	Reported aspirin use yes[a]		Reported aspirin use frequency ≥3 times/week[b]	
	HR (95% CI)	*p*-value	HR (95% CI)	*p*-value
Bladder cancer	1.18 (1.08, 1.30)	<0.001	1.25 (1.13, 1.37)	<0.001
Breast cancer[c]	1.00 (0.94, 1.06)	0.91	1.00 (0.94, 1.06)	0.92
Esophageal cancer	1.07 (0.86, 1.33)	0.53	1.14 (0.92, 1.42)	0.22
Gastric cancer	0.92 (0.76, 1.13)	0.43	0.95 (0.78, 1.16)	0.62
Pancreatic cancer	0.94 (0.82, 1.07)	0.34	1.00 (0.88, 1.15)	0.97
Uterine cancer[c]	0.95 (0.82, 1.10)	0.49	0.92 (0.79, 1.07)	0.29

[a]Reference: no aspirin use[c]

[b]Reference: <3 times/month

[c]Models for breast and uterine cancer included female participants only

Abbreviations: PLCO = Prostate, Lung, Colorectal, and Ovarian Cancer Screening Trial; HR = hazard ratio; 95% CI = 95% confidence interval

eTable 2. Covariates Included in the Multivariable Cox Proportional Hazards of Cancer Risk (Figure 2), Comparing Aspirin Use Less Than 3 Times/Week and at Least 3 Times/Week

	Cancer Type					
	Bladder (N=1751)	Breast (N=4552)	Esophageal (N=332)	Gastric (N=397)	Pancreatic (N=878)	Uterine (N=716)
Variable	Adjusted HR (95% CI)	Adjusted HR (95% CI)	Adjusted HR (95% CI)	Adjusted HR (95% CI)	Adjusted HR (95% CI)	Adjusted HR (95% CI)
Sex						
Male	1.0 (ref)		1.0 (ref)	1.0 (ref)	1.0 (ref)	
Female	0.27 (0.24, 0.31)		0.21 (0.16, 0.29)	0.42 (0.33, 0.52)	0.86 (0.74, 0.98)	
Race						
White, non-Hispanic	1.0 (ref)	1.0 (ref)	1.0 (ref)	1.0 (ref)	1.0 (ref)	1.0 (ref)
Black, non-Hispanic	0.54 (0.40, 0.73)	0.87 (0.76, 1.00)	0.62 (0.33, 1.17)	2.19 (1.54, 3.12)	1.31 (1.00, 1.73)	0.77 (0.53, 1.10)
Other	0.57 (0.45, 0.72)	0.86 (0.76, 0.98)	0.80 (0.51, 1.27)	2.17 (1.63, 2.89)	1.27 (1.00, 1.61)	0.84 (0.61, 1.16)
Smoking status						
Never smoker	1.0 (ref)	1.0 (ref)	1.0 (ref)	1.0 (ref)	1.0 (ref)	1.0 (ref)
Current smoker	3.09 (2.64, 3.62)	0.92 (0.82, 1.04)	3.73 (2.62, 5.32)	1.75 (1.25, 2.46)	1.90 (1.54, 2.36)	0.68 (0.48, 0.95)
Former smoker	1.90 (1.70, 2.13)	1.12 (1.05, 1.26)	1.93 (1.47, 2.52)	1.31 (1.05, 1.63)	0.97 (0.84, 1.12)	0.91 (0.77, 1.06)
Randomization arm						
Intervention	1.0 (ref)	1.0 (ref)	1.0 (ref)	1.0 (ref)	1.0 (ref)	1.0 (ref)
Control	1.04 (0.95, 1.14)	0.96 (0.93, 1.05)	1.34 (1.08, 1.67)	1.01 (0.83, 1.23)	0.90 (0.79, 1.03)	1.10 (0.95, 1.28)
History of heart attack						
No	1.0 (ref)	1.0 (ref)	1.0 (ref)	1.0 (ref)	1.0 (ref)	1.0 (ref)
Yes	1.16 (1.01, 1.35)	0.98 (0.85, 1.13)	1.28 (0.93, 1.76)	1.19 (0.87, 1.62)	1.26 (1.01, 1.56)	0.99 (0.69, 1.40)
History of stroke						
No	1.0 (ref)	1.0 (ref)	1.0 (ref)	1.0 (ref)	1.0 (ref)	1.0 (ref)
Yes	1.18 (0.95, 1.48)	0.96 (0.81, 1.15)	0.83 (0.46, 1.49)	1.40 (0.90, 2.16)	0.92 (0.65, 1.31)	0.82 (0.51, 1.32)
History of hypertension						
No	1.0 (ref)	1.0 (ref)	1.0 (ref)	1.0 (ref)	1.0 (ref)	1.0 (ref)
Yes	1.04 (0.94, 1.15)	1.06 (1.00, 1.13)	1.41 (1.13, 1.78)	1.12 (0.91, 1.37)	1.16 (1.01, 1.33)	1.08 (0.92, 1.26)
History of diabetes						
No	1.0 (ref)	1.0 (ref)	1.0 (ref)	1.0 (ref)	1.0 (ref)	1.0 (ref)
Yes	1.30 (1.13, 1.50)	1.11 (1.00, 1.23)	1.15 (0.83, 1.60)	1.64 (1.25, 2.14)	1.70 (1.41, 2.04)	1.62 (1.28, 2.05)

eTable 3. Unadjusted Hazard Ratios and 95% CIs of Aspirin Use and Risk of Cancer-Specific Death

Cancer site	Reported aspirin use yes[a]		Reported aspirin use frequency ≥3 times/week[b]	
	HR (95% CI)	*p*-value	HR (95% CI)	*p*-value
Bladder cancer	0.80 (0.63, 1.03)	0.08	0.76 (0.59, 0.98)	0.03
Breast cancer[c]	0.83 (0.67,1.03)	0.09	0.80 (0.64, 1.02)	0.07
Esophageal cancer	1.12 (0.86, 1.46)	0.39	1.11 (0.86, 1.44)	0.42
Gastric cancer	0.96 (0.74, 1.24)	0.77	0.91 (0.70, 1.18)	0.49
Pancreatic cancer	0.93 (0.80, 1.07)	0.29	0.93 (0.80, 1.07)	0.31
Uterine cancer[c]	1.20 (0.82, 1.76)	0.35	0.86 (0.57, 1.30)	0.48

[a]Reference: no aspirin use

[b]Reference: <3 times/month

[c]Models for breast and uterine cancer included female participants only

Abbreviations: PLCO = Prostate, Lung, Colorectal, and Ovarian Cancer Screening Trial; HR = hazard ratio; 95% CI = 95% confidence interval

eTable 4. Covariates Included in the Multivariable Cox Proportional Hazards of Risk of Cancer-Specific Death (Figure 4), Comparing Aspirin Use Less Than 3 Times/Week and at Least 3 Times/Week

	Cancer Type					
	Bladder (N=249)	Breast (N=333)	Esophageal (N=230)	Gastric (N=234)	Pancreatic (N=730)	Uterine (N=106)
Variable	Adjusted HR (95% CI)	Adjusted HR (95% CI)	Adjusted HR (95% CI)	Adjusted HR (95% CI)	Adjusted HR (95% CI)	Adjusted HR (95% CI)
Age at diagnosis	1.06 (1.04, 1.08)	1.04 (1.02, 1.05)	1.03 (0.79, 1.36)	1.02 (1.00, 1.04)	1.03 (1.01, 1.04)	1.03 (1.00, 1.05)
Sex						
Male	1.0 (ref)		1.0 (ref)	1.0 (ref)	1.0 (ref)	
Female	0.88 (0.64, 1.22)		0.90 (0.63, 1.28)	0.99 (0.74, 1.32)	0.94 (0.81, 1.09)	
Race						
White, non-Hispanic	1.0 (ref)	1.0 (ref)	1.0 (ref)	1.0 (ref)	1.0 (ref)	1.0 (ref)
Black, non-Hispanic	1.46 (0.71, 2.99)	1.89 (1.30, 2.75)	0.96 (0.48, 1.92)	0.61 (0.37, 1.00)	0.87 (0.63, 1.19)	1.1 (0.82, 3.57)
Other	0.76 (0.39, 1.48)	0.67 (0.39, 1.15)	1.13 (0.68, 1.89)	0.58 (0.39, 0.86)	1.07 (0.83, 1.38)	0.32 (0.08, 1.31)
Smoking status						
Never smoker	1.0 (ref)	1.0 (ref)	1.0 (ref)	1.0 (ref)	1.0 (ref)	1.0 (ref)
Current smoker	1.38 (0.67, 2.83)	1.77 (1.19, 2.64)	0.94 (0.41, 2.17)	1.95 (0.92, 4.13)	1.24 (0.97, 1.57)	0.89 (0.32, 2.48)
Former smoker	0.65 (0.33, 1.27)	1.17 (0.93, 1.47)	0.84 (0.52, 1.38)	0.92 (0.58, 1.45)	0.94 (0.80, 1.10)	0.90 (0.59, 1.37)
Randomization arm						
Intervention	1.0 (ref)	1.0 (ref)	1.0 (ref)	1.0 (ref)	1.0 (ref)	1.0 (ref)
Control	1.05 (0.82, 1.34)	1.02 (00.82, 1.27)	1.15 (0.88, 1.50)	0.84 (0.65, 1.10)	1.04 (0.89, 1.20)	1.18 (0.80, 1.73)
History of heart attack						
No	1.0 (ref)	1.0 (ref)	1.0 (ref)	1.0 (ref)	1.0 (ref)	1.0 (ref)
Yes	1.38 (0.97, 1.96)	1.24 (0.79, 1.95)	1.22 (0.84, 1.76)	1.18 (0.79, 1.76)	1.12 (0.87, 1.42)	1.16 (0.48, 2.78)
History of stroke						
No	1.0 (ref)	1.0 (ref)	1.0 (ref)	1.0 (ref)	1.0 (ref)	1.0 (ref)
Yes	1.21 (0.71, 2.07)	1.10 (0.60, 2.03)	1.89 (1.01, 3.54)	0.95 (0.53, 1.71)	1.15 (0.78, 1.68)	0.87 (0.27, 2.79)
History of hypertension						
No	1.0 (ref)	1.0 (ref)	1.0 (ref)	1.0 (ref)	1.0 (ref)	1.0 (ref)
Yes	1.08 (0.83, 1.40)	1.01 (0.81, 1.27)	1.08 (2, 1.42)	1.20 (0.92, 1.58)	1.02 (0.88, 1.19)	1.54 (1.02, 2.33)
History of diabetes						
No	1.0 (ref)	1.0 (ref)	1.0 (ref)	1.0 (ref)	1.0 (ref)	1.0 (ref)
Yes	0.99 (0.68, 1.44)	1.42 (0.99, 2.03)	1.20 (0.81, 1.78)	1.04 (0.72, 1.50)	1.11 (0.91, 1.36)	1.22 (70, 2.13)