

Supplementary Table 1: Hazard ratios and 95% confidence intervals of the association between statin use and risk of prostate cancer subgroups defined by tumor characteristics in the Health Professionals Follow-up Study, 1990-2009

	Cases, n	HR ^a (95% CI)	HR ^b (95% CI)
All cases	5,511		
Statin use			
Never/past	4,380	1.00 (ref)	1.00 (ref)
Current	1,131	1.07 (0.99-1.14)	0.99 (0.91-1.07)
Statin use			
Never	4,168	1.00 (ref)	1.00 (ref)
Ever	1,343	1.05 (0.99-1.13)	0.98 (0.91-1.06)
Duration of statin use			
Never	4,168	1.00 (ref)	1.00 (ref)
<5 years	776	1.09 (1.00-1.17)	1.02 (0.94-1.12)
≥5 years	567	1.01 (0.92-1.11)	0.91 (0.82-1.01)
Per year of statin use	5,511	1.01 (1.00-1.02)	1.00 (0.98-1.01)
Localized cases^c	4,161		
Statin use			
Never/past	3,242	1.00 (ref)	1.00 (ref)
Current	919	1.11 (1.03-1.20)	1.00 (0.92-1.10)
Statin use			
Never	3,075	1.00 (ref)	1.00 (ref)
Ever	1,086	1.10 (1.02-1.18)	1.00 (0.91-1.01)
Duration of statin use			
Never	3,075	1.00 (ref)	1.00 (ref)
<5 years	622	1.13 (1.03-1.24)	1.05 (0.95-1.15)
≥5 years	464	1.05 (0.95-1.17)	0.92 (0.82-1.04)
Per year of statin use	4,161	1.01 (1.00-1.02)	1.00 (0.99-1.01)
Advanced cases^d	440		
Statin use			
Never/past	383	1.00 (ref)	1.00 (ref)
Current	57	0.83 (0.62-1.12)	0.94 (0.68-1.31)
Statin use			
Never	370	1.00 (ref)	1.00 (ref)
Ever	70	0.85 (0.65-1.12)	0.98 (0.72-1.34)
Duration of statin use			
Never	370	1.00 (ref)	1.00 (ref)
<5 years	50	1.01 (0.74-1.37)	1.15 (0.82-1.61)
≥5 years	20	0.59 (0.37-0.95)	0.68 (0.41-1.13)
Per year of statin use	440	0.95 (0.91-1.00)	0.97 (0.92-1.02)
Low grade cases^e	3,434		
Statin use			
Never/past	2,691	1.00 (ref)	1.00 (ref)
Current	743	1.11 (1.01-1.20)	0.99 (0.89-1.09)
Statin use			
Never	2,562	1.00 (ref)	1.00 (ref)

Ever	743	1.08 (0.99-1.17)	0.97 (0.88-1.07)
Duration of statin use			
Never	2,562	1.00 (ref)	1.00 (ref)
<5 years	493	1.08 (0.98-1.20)	1.00 (0.89-1.11)
≥5 years	379	1.08 (0.96-1.21)	0.93 (0.82-1.05)
Per year of statin use	3,434	1.01 (1.00-1.03)	1.00 (0.99-1.01)
High grade cases^f	1,207		
Statin use			
Never/past	950	1.00 (ref)	1.00 (ref)
Current	257	1.02 (0.88-1.18)	0.98 (0.83-1.16)
Statin use			
Never	897	1.00 (ref)	1.00 (ref)
Ever	310	1.03 (0.90-1.19)	1.01 (0.86-1.18)
Duration of statin use			
Never	897	1.00 (ref)	1.00 (ref)
<5 years	184	1.14 (0.96-1.34)	1.11 (0.92-1.33)
≥5 years	126	0.90 (0.74-1.10)	0.87 (0.70-1.08)
Per year of statin use	1,207	0.99 (0.97-1.01)	0.99 (0.97-1.01)
Lethal cases^g	745		
Statin use			
Never/past	657	1.00 (ref)	1.00 (ref)
Current	88	0.72 (0.57-0.91)	0.77 (0.59-0.99)
Statin use			
Never	632	1.00 (ref)	1.00 (ref)
Ever	113	0.77 (0.62-0.96)	0.84 (0.66-1.06)
Duration of statin use			
Never	632	1.00 (ref)	1.00 (ref)
<5 years	79	0.91 (0.72-1.16)	0.97 (0.75-1.27)
≥5 years	34	0.55 (0.38-0.79)	0.60 (0.41-0.88)
Per year of statin use	745	0.95 (0.92-0.99)	0.96 (0.93-1.00)

^aadjusted for age and calendar time

^badjusted for age, calendar time, race, family history of prostate cancer in father or brother, height, body mass index at age 21 years, body mass index, smoking, history of high cholesterol, history of hypertension, history of diabetes, PSA testing in the two years prior to the questionnaire date, PSA testing in >50% of possible time periods, aspirin use, physical activity, total calories.

^cLocalized cases defined as stage T1a - T2b and N0, M0 at diagnosis

^dAdvanced cases defined as stage T3b - T4, N1, or M1 at diagnosis

^eLow grade cases defined as ≤Gleason 3+4 at diagnosis

^fHigh grade defined as ≥Gleason 4+3 at diagnosis

^gLethal cases defined as M1 at diagnosis or distant metastasis / fatal during follow up