Title: Pre- and Post- Diagnosis Smoking and Survival Following Diagnosis with Ovarian Cancer

Short title: Smoking and Ovarian Cancer Survival

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Supplementary Table 1. Selected characteristics of ovarian cancer patients by pre-diagnosis smoking status in the NHS and NHSII

	Pre-diagnosis smoking		
	Never smoker (n=609)	Former smoker (n=496)	Current smoker (n=169)
Deaths from ovarian cancer, n (%)	339 (55.7)	316 (63.7)	104 (61.5)
Deaths from all causes, n (%)	402 (66.0)	361 (72.8)	129 (76.3)
Age at diagnosis, years, median (IQR)	61.0 (52.0,69.0)	65.0 (56.0,72.0)	56.0 (50.0,65.0)
Calendar year of diagnosis, median (IQR)	2000 (1993,2007)	2001 (1993,2006)	1993 (1985,2001)
Overall survival time since ovarian cancer diagnosis, years, median (IQR)	4.9 (2.2,10.6)	3.8 (1.7,8.3)	4.0 (1.8,13.8)
Tumor histologic subtype, n (%)			
High grade serous or poorly differentiated	384 (63.1)	339 (68.4)	109 (64.5)
Mucinous	22 (3.6)	16 (3.2)	11 (6.5)
Endometrioid	93 (15.3)	57 (11.5)	23 (13.6)
Clear cell	48 (7.9)	30 (6.1)	7 (4.1)
Other or unknown	62 (10.2)	54 (10.9)	19 (11.2)
Stage, n (%)			
I	151 (24.8)	103 (20.8)	48 (28.4)
II	60 (9.9)	39 (7.9)	16 (9.5)
III	398 (65.4)	354 (71.4)	105 (62.1)
Pre-diagnosis BMI, kg/m^2, n (%)			
<21	74 (12.2)	60 (12.1)	34 (20.1)
21-<23	98 (16.1)	72 (14.5)	30 (17.8)
23-<25	111 (18.2)	90 (18.2)	32 (18.9)
25-<30	162 (26.6)	147 (29.6)	37 (21.9)
30-<35	81 (13.3)	62 (12.5)	18 (10.7)
≥35	57 (9.4)	42 (8.5)	7 (4.1)
Missing	26 (4.3)	23 (4.6)	11 (6.5)
Pre-diagnosis NSAID use, n (%)			
Never user	83 (13.6)	46 (9.3)	22 (13.0)
Past user	135 (22.2)	107 (21.6)	29 (17.2)
Current user to either aspirin or non-aspirin NSAIDs	264 (43.4)	250 (50.4)	75 (44.4)
Current user to both aspirin and non-aspirin NSAIDs	72 (11.8)	58 (11.7)	14 (8.3)
Missing	55 (9.0)	35 (7.1)	29 (17.2)

Abbreviations: BMI, body mass index; IQR, interquartile range; NHS, Nurses' Health Study; NHSII, Nurses' Health Study II; NSAID, non-steroidal anti-inflammatory drug.
Percentages may not add up to 100%.

Supplementary Table 2. Epithelial ovarian cancer-specific mortality and all-cause mortality by smoking across cohorts

	Epithelial ovarian cancer-specific mortality			All-cause mortality		
	NHS HR (95%CI)	NHSII HR (95%CI)	p-heterogeneity	NHS HR (95%CI)	NHSII HR (95%CI)	p-heterogeneity
Pre-diagnosis smoking						
n, deaths/cases	661/993	98/281	-	787/993	105/281	-
Never	1.00 (ref)	1.00 (ref)	-	1.00 (ref)	1.00 (ref)	-
Past	**1.22 (1.03,1.44)**	0.96 (0.60,1.55)	0.36	**1.22 (1.05,1.42)**	0.97 (0.61,1.54)	0.35
Current	**1.28 (1.01,1.63)**	0.97 (0.50,1.89)	0.45	**1.39 (1.12,1.72)**	0.91 (0.47,1.77)	0.24
Pre-diagnosis smoking dose						
n, deaths/cases	650/977	97/280	-	773/977	104/280	-
Never	1.00 (ref)	1.00 (ref)	-	1.00 (ref)	1.00 (ref)	-
Former smoker, <15 cigs/day	1.07 (0.87,1.31)	1.21 (0.70,2.10)	0.67	1.11 (0.92,1.34)	1.22 (0.71,2.08)	0.74
Former smoker, ≥15 cigs/day	**1.39 (1.14,1.71)**	0.63 (0.29,1.37)	0.05	**1.34 (1.10,1.62)**	0.66 (0.32,1.37)	0.07
Current smoker, <15 cigs/day	1.10 (0.76,1.58)	0.73 (0.31,1.73)	0.39	1.00 (0.71,1.43)	0.68 (0.29,1.62)	0.42
Current smoker, ≥15 cigs/day	1.35 (1.00,1.82)	1.64 (0.60,4.53)	0.71	**1.62 (1.25,2.11)**	1.53 (0.56,4.16)	0.91
Pre-diagnosis smoking duration, years						
n, deaths/cases	656/985	97/280	-	780/985	104/280	-
Never	1.00 (ref)	1.00 (ref)	-	1.00 (ref)	1.00 (ref)	-
<20 years	1.17 (0.95,1.44)	0.88 (0.51,1.50)	0.32	1.15 (0.95,1.40)	0.92 (0.55,1.53)	0.41
≥20 years	**1.26 (1.06,1.50)**	1.09 (0.63,1.90)	0.62	**1.32 (1.12,1.54)**	1.01 (0.58,1.75)	0.37
Pre-diagnosis smoking pack-year						
n, deaths/cases	651/979	97/280	-	775/979	104/280	-
Never	1.00 (ref)	1.00 (ref)	-	1.00 (ref)	1.00 (ref)	-
<20 pack-years	1.13 (0.94,1.37)	1.02 (0.65,1.61)	0.68	1.13 (0.95,1.35)	1.03 (0.66,1.60)	0.69
≥20 pack-years	**1.32 (1.10,1.59)**	0.83 (0.40,1.72)	0.22	**1.38 (1.16,1.63)**	0.77 (0.37,1.59)	0.13
Pre-diagnosis time since quitting smoking, years						
n, deaths/cases	564/849	86/249	-	664/849	93/249	-
Never	1.00 (ref)	1.00 (ref)	-	1.00 (ref)	1.00 (ref)	-
<15 years	1.24 (0.97,1.59)	0.77 (0.37,1.59)	0.22	1.29 (1.03,1.62)	0.71 (0.34,1.46)	0.12

15-<22 years	1.21 (0.90,1.62)	0.89 (0.41,1.93)	0.47	1.24 (0.95,1.62)	0.84 (0.39,1.80)	0.34
≥22 years	1.18 (0.96,1.45)	1.30 (0.59,2.87)	0.81	1.14 (0.94,1.38)	1.59 (0.77,3.27)	0.39
Post-diagnosis smoking						
n, deaths/cases	525/858	92/275	-	648/858	99/275	-
Never	1.00 (ref)	1.00 (ref)	-	1.00 (ref)	1.00 (ref)	-
Past	**1.32 (1.10,1.59)**	1.10 (0.67,1.81)	0.50	**1.29 (1.09,1.53)**	1.04 (0.65,1.69)	0.41
Current	**1.53 (1.12,2.08)**	1.38 (0.65,2.92)	0.80	**1.53 (1.16,2.01)**	1.30 (0.62,2.74)	0.69
Post-diagnosis smoking dose						
n, deaths/cases	518/844	90/273	-	637/844	97/273	-
Never	1.00 (ref)	1.00 (ref)	-	1.00 (ref)	1.00 (ref)	-
Former smoker, <15 cigs/day	**1.26 (1.00,1.57)**	1.36 (0.76,2.42)	0.80	**1.24 (1.01,1.52)**	1.28 (0.73,2.24)	0.92
Former smoker, ≥15 cigs/day	**1.38 (1.10,1.73)**	0.73 (0.34,1.56)	0.12	**1.33 (1.08,1.63)**	0.71 (0.34,1.47)	0.11
Current smoker, <15 cigs/day	1.15 (0.70,1.87)	0.98 (0.38,2.54)	0.77	1.08 (0.69,1.68)	0.92 (0.36,2.37)	0.76
Current smoker, ≥15 cigs/day	**2.37 (1.61,3.48)**	**3.61 (1.06,12.28)**	0.52	**2.43 (1.73,3.40)**	**3.48 (1.03,11.80)**	0.58

Abbreviations: CI, confidence interval; HR, hazard ratio; NHS, Nurses' Health Study; NHSII, Nurses' Health Study II.

Models adjusted for age and calendar year at diagnosis, tumor histologic subtype, stage, and body mass index (categorical).

Post-diagnosis models additionally adjusted for non-steroidal anti-inflammatory drug usage.

Supplementary Table 3. Epithelial ovarian cancer-specific mortality and all-cause mortality according to changes in smoking from pre-diagnosis to post-diagnosis across cohorts

	Epithelial ovarian cancer-specific mortality			All-cause mortality		
	NHS HR (95%CI)	NHSII HR (95%CI)	p-heterogeneity	NHS HR (95%CI)	NHSII HR (95%CI)	p-heterogeneity
Change in smoking from pre- to post-diagnosis						
n, deaths/cases	520/839	92/275		638/839	99/275	-
Never smoker	1.00 (ref)	1.00 (ref)	-	1.00 (ref)	1.00 (ref)	-
Past smoker	**1.23 (1.02,1.49)**	0.90 (0.54,1.50)	0.26	**1.22 (1.03,1.45)**	0.91 (0.56,1.48)	0.26
Quitting smoking after diagnosis	0.93 (0.59,1.47)	0.35 (0.05,2.66)	0.36	1.00 (0.67,1.49)	0.33 (0.04,2.47)	0.29
Remained current smoker	**1.47 (1.07,2.01)**	1.09 (0.52,2.31)	0.48	**1.51 (1.14,2.00)**	1.08 (0.51,2.27)	0.40

Abbreviations: CI, confidence interval; HR, hazard ratio; NHS, Nurses' Health Study; NHSII, Nurses' Health Study II.

Never smoker is defined as being a never smoker at both pre- and post-diagnosis assessments; Former smoker is defined as being a former smoker at both assessments; Quit smoking after diagnosis is defined as being a current smoker before diagnosis and former smoker after diagnosis; Remained current smoker is defined as being a current smoker at both assessments.

Models adjusted for age and calendar year at diagnosis, tumor histologic subtype, stage, pre-diagnosis body mass index (BMI, categorical), change of BMI (categorical) and non-steroidal anti-inflammatory drug usage from pre- to post-diagnosis, and cohort.

Due to the small sample size, participants who reported past smoking before diagnosis and current smoking after diagnosis were excluded (n=2).

Supplementary Table 4. All-cause mortality stratified by tumor histologic subtype in the NHS and NHSII

| | All-cause mortality | | | | |
| | High-grade serous or poorly differentiated histology | | Non-serous or low-grade serous histology | | p-heterogeneity |
	n, deaths/cases	HR (95%CI)	n, deaths/cases	HR (95%CI)	
Pre-diagnosis smoking					
Never smoker	291/384	1.00 (ref)	106/211	1.00 (ref)	0.14
Former smoker	276/339	**1.25 (1.06,1.48)**	82/147	0.98 (0.72,1.31)	
Current smoker	89/109	1.20 (0.94,1.53)	35/54	1.39 (0.93,2.10)	
Pre-diagnosis smoking rate					
Never smoker	291/384	1.00 (ref)	106/211	1.00 (ref)	**0.01**
Former smoker, <15 cigs/day	135/171	1.13 (0.92,1.39)	48/82	1.15 (0.81,1.65)	
Former smoker, ≥15 cigs/day	135/162	**1.38 (1.12,1.70)**	32/62	0.76 (0.51,1.15)	
Current smoker, <15 cigs/day	31/46	0.89 (0.61,1.29)	7/16	1.01 (0.46,2.21)	
Current smoker, ≥15 cigs/day	53/58	**1.42 (1.04,1.92)**	27/36	**1.65 (1.04,2.61)**	
Pre-diagnosis smoking duration					
Never smoker	291/384	1.00 (ref)	106/211	1.00 (ref)	**0.03**
<20 years	128/159	**1.24 (1.00,1.53)**	42/92	0.78 (0.54,1.14)	
≥20 years	231/282	**1.23 (1.03,1.47)**	73/107	1.32 (0.96,1.79)	
Pre-diagnosis smoking pack-years					
Never smoker	291/384	1.00 (ref)	106/211	1.00 (ref)	0.45
<20 pack-years	175/222	1.15 (0.95,1.39)	57/115	0.99 (0.71,1.39)	
≥20 pack-years	180/215	**1.32 (1.09,1.60)**	58/83	1.15 (0.82,1.60)	
Pre-diagnosis time since quitting smoking					
Never smoker	291/384	1.00 (ref)	106/211	1.00 (ref)	0.15
<15 years	79/96	1.24 (0.96,1.60)	33/53	1.09 (0.72,1.63)	
15-<22 years	53/66	1.29 (0.96,1.74)	20/37	0.84 (0.51,1.38)	
≥22 years	139/171	**1.23 (1.00,1.52)**	28/56	0.90 (0.58,1.40)	
Post-diagnosis smoking					
Never smoker	243/336	1.00 (ref)	92/197	1.00 (ref)	0.15
Former smoker	253/324	**1.34 (1.12,1.61)**	79/152	0.97 (0.71,1.33)	
Current smoker	56/69	**1.55 (1.15,2.09)**	20/34	1.13 (0.68,1.88)	
Post-diagnosis smoking rate					
Never smoker	243/336	1.00 (ref)	92/197	1.00 (ref)	**0.01**
Former smoker, <15 cigs/day	125/167	**1.26 (1.01,1.58)**	46/84	1.24 (0.85,1.80)	
Former smoker, ≥15 cigs/day	120/149	**1.38 (1.11,1.73)**	31/65	0.75 (0.49,1.14)	
Current smoker, <15 cigs/day	22/33	1.02 (0.65,1.58)	4/11	1.22 (0.44,3.44)	
Current smoker, ≥15 cigs/day	32/33	**2.74 (1.85,4.06)**	15/21	1.50 (0.82,2.72)	
Change in smoking from pre- to post-diagnosis [1,2]					
Never smoker	236/326	1.00 (ref)	87/189	1.00 (ref)	**0.047**
Former smoker	226/285	**1.37 (1.13,1.65)**	67/129	0.83 (0.59,1.17)	
Quit smoking after diagnosis	21/29	0.86 (0.54,1.37)	7/13	0.77 (0.34,1.76)	
Remained current smoker	53/64	**1.50 (1.10,2.05)**	18/30	1.47 (0.84,2.57)	

Abbreviations: CI, confidence interval; HR, hazard ratio; NHS, Nurses' Health Study; NHSII, Nurses' Health Study II.

Non-serous histologic subtype refers to mucinous, endometrioid, clear cell, transitional/Brenner, carcinosarcoma, or mixed subtypes of ovarian cancer.

Never smoker is defined as being a never smoker at both pre- and post-diagnosis assessments; Former smoker is defined as being a former smoker at both assessments; Quit smoking after diagnosis is defined as being a current smoker before diagnosis and former smoker after diagnosis; Remained current smoker is defined as being a current smoker at both assessments.

Models adjusted for age and calendar year at diagnosis, stage, body mass index (BMI, categorical), and cohort. Post-diagnosis models additionally adjusted for non-steroidal anti-inflammatory drug (NSAID) usage.

[1] Models adjusted for age and calendar year at diagnosis, stage, pre-diagnosis BMI (categorical), change of BMI (categorical) and NSAID usage from pre-diagnosis to post-diagnosis, and cohort.

[2] Due to the small sample size, participants who reported past smoking before diagnosis and current smoking after diagnosis were excluded (n=2).

Supplementary Table 5. Epithelial ovarian cancer-specific mortality and all-cause mortality stratified by BMI in the NHS and NHSII

	Epithelial ovarian cancer-specific mortality			All-cause mortality		
	BMI<25 kg/m^2 HR (95%CI) [3]	BMI≥25 kg/m^2 HR (95%CI) [3]	p-heterogeneity	BMI<25 kg/m^2 HR (95%CI) [3]	BMI≥25 kg/m^2 HR (95%CI) [3]	p-heterogeneity
Pre-diagnosis smoking						
n, deaths/cases	385/615	347/625	0.07	450/615	412/625	0.07
Never smoker	1.00 (ref)	1.00 (ref)		1.00 (ref)	1.00 (ref)	
Former smoker	**1.27 (1.02,1.59)**	1.08 (0.86,1.35)		**1.24 (1.01,1.52)**	1.10 (0.90,1.36)	
Current smoker	**1.44 (1.07,1.94)**	0.91 (0.62,1.32)		**1.50 (1.14,1.97)**	1.02 (0.73,1.42)	
Pre-diagnosis smoking rate						
n, deaths/cases	380/607	341/617	**0.04**	444/607	404/617	**0.02**
Never smoker	1.00 (ref)	1.00 (ref)		1.00 (ref)	1.00 (ref)	
Former smoker, <15 cigs/day	1.15 (0.88,1.51)	0.99 (0.75,1.31)		1.12 (0.87,1.45)	1.07 (0.83,1.38)	
Former smoker, ≥15 cigs/day	**1.45 (1.10,1.91)**	1.16 (0.88,1.53)		**1.40 (1.08,1.82)**	1.11 (0.85,1.44)	
Current smoker, <15 cigs/day	1.16 (0.73,1.84)	0.89 (0.53,1.50)		0.96 (0.61,1.52)	0.86 (0.52,1.42)	
Current smoker, ≥15 cigs/day	**1.62 (1.13,2.33)**	0.84 (0.50,1.39)		**1.93 (1.40,2.67)**	1.05 (0.69,1.62)	
Pre-diagnosis smoking duration						
n, deaths/cases	383/612	343/619	0.11	447/612	407/619	0.10
Never smoker	1.00 (ref)	1.00 (ref)		1.00 (ref)	1.00 (ref)	
<20 years	1.21 (0.92,1.59)	1.05 (0.80,1.40)		1.14 (0.88,1.48)	1.08 (0.84,1.40)	
≥20 years	**1.38 (1.10,1.73)**	1.03 (0.81,1.32)		**1.40 (1.13,1.72)**	1.08 (0.86,1.35)	
Pre-diagnosis smoking pack-years						
n, deaths/cases	382/610	340/616	**0.01**	446/610	404/616	**0.01**
Never smoker	1.00 (ref)	1.00 (ref)		1.00 (ref)	1.00 (ref)	
<20 pack-years	1.15 (0.90,1.47)	1.10 (0.85,1.41)		1.10 (0.87,1.38)	1.12 (0.89,1.42)	
≥20 pack-years	**1.54 (1.21,1.97)**	0.97 (0.74,1.26)		**1.58 (1.26,1.97)**	1.02 (0.80,1.31)	
Pre-diagnosis time since quitting smoking						
n, deaths/cases	319/514	308/556	0.23	369/514	363/556	0.38
Never smoker	1.00 (ref)	1.00 (ref)		1.00 (ref)	1.00 (ref)	
<15 years	1.18 (0.84,1.64)	1.08 (0.78,1.50)		1.24 (0.91,1.68)	1.10 (0.81,1.49)	
15-<22 years	1.35 (0.90,2.02)	1.14 (0.77,1.67)		1.33 (0.92,1.93)	1.17 (0.82,1.66)	

≥22 years	1.30 (0.99,1.72)	1.03 (0.77,1.38)		1.20 (0.92,1.56)	1.07 (0.82,1.39)	
Post-diagnosis smoking						
n, deaths/cases	329/590	255/509	0.84	397/590	317/509	0.41
Never smoker	1.00 (ref)	1.00 (ref)		1.00 (ref)	1.00 (ref)	
Former smoker	1.20 (0.95,1.53)	1.16 (0.89,1.50)		1.18 (0.95,1.46)	1.20 (0.95,1.51)	
Current smoker	**1.46 (1.01,2.10)**	1.30 (0.77,2.21)		**1.53 (1.10,2.13)**	1.16 (0.72,1.87)	
Post-diagnosis smoking rate						
n, deaths/cases	324/583	252/501	0.42	390/583	312/501	0.56
Never smoker	1.00 (ref)	1.00 (ref)		1.00 (ref)	1.00 (ref)	
Former smoker, <15 cigs/day	1.16 (0.88,1.54)	1.10 (0.80,1.52)		1.12 (0.86,1.45)	1.19 (0.90,1.59)	
Former smoker, ≥15 cigs/day	1.24 (0.92,1.69)	1.19 (0.87,1.64)		1.24 (0.94,1.64)	1.17 (0.87,1.56)	
Current smoker, <15 cigs/day	0.99 (0.55,1.78)	1.01 (0.52,1.96)		0.96 (0.57,1.64)	0.92 (0.49,1.72)	
Current smoker, ≥15 cigs/day	**2.31 (1.48,3.59)**	**2.67 (1.20,5.93)**		**2.47 (1.66,3.67)**	**2.13 (1.08,4.19)**	
Change in smoking from pre-diagnosis to post-diagnosis [1,2]						
n, deaths/cases	310/532	285/558	0.06	369/532	348/558	0.13
Never smoker	1.00 (ref)	1.00 (ref)		1.00 (ref)	1.00 (ref)	
Former smoker	1.28 (1.00,1.65)	1.11 (0.86,1.43)		1.25 (0.99,1.57)	1.11 (0.88,1.40)	
Quit smoking after diagnosis	1.30 (0.73,2.30)	0.58 (0.27,1.27)		1.18 (0.68,2.04)	0.81 (0.43,1.51)	
Remained current smoker	**1.55 (1.04,2.29)**	1.12 (0.70,1.79)		**1.59 (1.12,2.27)**	1.12 (0.73,1.70)	

Abbreviations: BMI, body mass index; CI, confidence interval; HR, hazard ratio; NHS, Nurses' Health Study; NHSII, Nurses' Health Study II.
Never smoker is defined as being a never smoker at both pre- and post-diagnosis assessments; Former smoker is defined as being a former smoker at both assessments; Quit smoking after diagnosis is defined as being a current smoker before diagnosis and former smoker after diagnosis; Remained current smoker is defined as being a current smoker at both assessments.
Models adjusted for age and calendar year at diagnosis, tumor histologic subtype, stage and cohort.
Post-diagnosis models additionally adjusted for non-steroidal anti-inflammatory drug usage.
[1] Models adjusted for age and calendar year at diagnosis, tumor histologic subtype, stage, change of BMI and non-steroidal anti-inflammatory drug usage from pre- to post-diagnosis, and cohort.
[2] Due to the small sample size, participants who reported past smoking before diagnosis and current smoking after diagnosis were excluded (n=2).
[3] In the analyses of pre-diagnosis smoking and change of smoking, BMI refers to pre-diagnosis BMI; in post-diagnosis analyses, BMI refers to post-diagnosis BMI.

Supplementary Table 6. Epithelial ovarian cancer-specific mortality and all-cause mortality stratified by post-diagnosis NSAID usage in the NHS and NHSII

	Epithelial ovarian cancer-specific mortality			All-cause mortality		
	Non-current NSAID user HR (95%CI)	Current NSAID user HR (95%CI)	p-heterogeneity	Non-current NSAID user HR (95%CI)	Current NSAID user HR (95%CI)	p-heterogeneity
Post-diagnosis smoking						
n, deaths/cases	286/473	282/607	0.20	338/473	358/607	0.40
Never smoker	1.00 (ref)	1.00 (ref)		1.00 (ref)	1.00 (ref)	
Former smoker	**1.41 (1.09,1.82)**	1.09 (0.84,1.40)		**1.35 (1.07,1.70)**	1.11 (0.88,1.39)	
Current smoker	**1.64 (1.04,2.59)**	1.28 (0.85,1.93)		1.40 (0.92,2.14)	1.41 (0.99,2.01)	
Post-diagnosis smoking rate						
n, deaths/cases	283/466	278/600	0.06	332/466	353/600	0.20
Never smoker	1.00 (ref)	1.00 (ref)		1.00 (ref)	1.00 (ref)	
Former smoker, <15 cigs/day	**1.37 (1.00,1.87)**	1.12 (0.83,1.52)		1.28 (0.96,1.71)	1.15 (0.88,1.51)	
Former smoker, ≥15 cigs/day	**1.47 (1.07,2.00)**	1.02 (0.74,1.42)		**1.40 (1.05,1.86)**	1.03 (0.77,1.38)	
Current smoker, <15 cigs/day	1.36 (0.70,2.64)	0.87 (0.48,1.56)		1.01 (0.52,1.95)	0.97 (0.58,1.62)	
Current smoker, ≥15 cigs/day	**3.05 (1.69,5.51)**	**2.03 (1.18,3.49)**		**2.75 (1.59,4.75)**	**2.15 (1.36,3.42)**	
Change in smoking from pre-diagnosis to post-diagnosis [1,2]						
n, deaths/cases	283/465	276/594	**<0.01**	333/465	350/594	**<0.01**
Never smoker	1.00 (ref)	1.00 (ref)		1.00 (ref)	1.00 (ref)	
Former smoker	**1.42 (1.10,1.82)**	1.10 (0.84,1.42)		**1.33 (1.05,1.68)**	1.12 (0.89,1.41)	
Quit smoking after diagnosis	0.77 (0.39,1.53)	1.16 (0.58,2.32)		0.95 (0.54,1.66)	1.16 (0.62,2.16)	
Remained current smoker	**1.82 (1.15,2.88)**	1.18 (0.77,1.81)		1.54 (1.00,2.38)	1.33 (0.92,1.92)	

Abbreviations: BMI, body mass index; CI, confidence interval; HR, hazard ratio; NHS, Nurses' Health Study; NHSII, Nurses' Health Study II; NSAID, non-steroidal anti-inflammatory drug.

Non-current NSAID users included never and past users of NSAIDs.

Never smoker is defined as being a never smoker at both pre- and post-diagnosis assessments; Former smoker is defined as being a former smoker at both assessments; Quit smoking after diagnosis is defined as being a current smoker before diagnosis and former smoker after diagnosis; Remained current smoker is defined as being a current smoker at both assessments.

Models adjusted for age and calendar year at diagnosis, tumor histologic subtype, stage, post-diagnosis BMI (categorical), and cohort.

[1] Models adjusted for age and calendar year at diagnosis, tumor histologic subtype, stage, pre-diagnosis BMI (categorical), BMI change from pre- to post-diagnosis (categorical), and cohort.

[2] Due to the small sample size, participants who reported past smoking before diagnosis and current smoking after diagnosis were excluded (n=2).