

Web Table 1. Age- and multivariate-adjusted relative risks (RRs) of psoriasis by smoking status in the Nurses' Health Study (1996-2008), the Nurses' Health Study-II (1991-2005), and Health Professionals' Follow-Up Study (1986-2006): additional analyses adjusting for depressive symptoms and antidepressive drug use

	Cases	Person- years	Multivariate, adjusted^a		Multivariate, adjusted^b		Multivariate, adjusted^c	
			RR	95% CI	RR	95% CI	RR	95% CI
NHS								
Never smokers	295	352,829	1.00		1.00		1.00	
Past smokers	395	336,673	1.32	1.13, 1.54	1.32	1.13, 1.54	1.31	1.12, 1.53
Current smokers	114	63,002	2.26	1.81, 2.82	2.24	1.79, 2.79	2.23	1.78, 2.78
Current smokers, 1- 14/d	54	31,157	2.19	1.63, 2.94	2.17	1.62, 2.91	2.17	1.61, 2.90
Current smokers, 15-24/d	43	24,337	2.22	1.60, 3.07	2.20	1.59, 3.04	2.19	1.58, 3.03
Current smokers, ≥ 25 /d	17	7,508	2.65	1.61, 4.34	2.60	1.59, 4.26	2.60	1.59, 4.27
P_{trend}			<0.0001		<0.0001		<0.0001	
NHS II								
Never smokers	629	868,253	1.00		1.00		1.00	
Past smokers	332	311,088	1.40	1.22, 1.61	1.40	1.22, 1.60	1.39	1.21, 1.59
Current smokers	163	129,844	1.80	1.51, 2.14	1.78	1.49, 2.12	1.77	1.49, 2.11
Current smokers, 1-14/d	65	62,783	1.49	1.15, 1.92	1.47	1.14, 1.91	1.46	1.13, 1.89
Current smokers, 15- 24/d	66	47,813	2.00	1.55, 2.58	1.97	1.53, 2.55	1.97	1.53, 2.54
Current smokers, ≥ 25 /d	32	19,248	2.33	1.63, 3.33	2.29	1.60, 3.37	2.27	1.59, 3.25
P_{trend}			<0.0001		<0.0001		<0.0001	

HPFS

Never smokers	200	230,555	1.00	-	1.00	
Past smokers	250	188,812	1.47	1.22, 1.79	-	1.45 1.20, 1.76
Current smokers	32	22,939	1.71	1.17, 2.50	-	1.69 1.15, 2.47
Current smokers, 1- 14/d	17	10,852	1.92	1.16, 3.16	-	1.89 1.14, 3.11
Current smokers, 15- 24/d	9	6,835	1.61	0.82, 3.15	-	1.59 0.81, 3.11
Current smokers, ≥ 25 /d	6	5,251	1.40	0.62, 3.18	-	1.39 0.61, 3.14
P_{trend}			0.04			0.05

Abbreviations: CI, confidence interval; HPFS, Health Professionals' Follow-Up Study; NHS, Nurses' Health Study; NHS II, Nurses' Health Study II; RR, Relative Risk.

^a Adjusted for age (continuous variable), race (Caucasian, Asian, Hispanic or African American), body mass index (<18.5, 18.5-24.9, 25-29.9, 30-34.9, ≥ 35 kg/m²), alcohol drinking (no, <4.9, 5.0-9.9, 10-14.9, 15-29.9 or ≥ 30.0 g/d), physical activity (metabolic equivalent hours/wk, quintile).

^b Adjusted for the abovementioned variables, plus level of depressive symptomatology by Mental Health Index score (86-100, 76-85, 53-75, or 0-52) for NHS and NHS II.

^c Adjusted for the abovementioned variables in ^a, plus anti depressive drugs use (never, past, or current).

Web Table 2. Age- and multivariate-adjusted RRs of psoriasis by pack-years of smoking in the Nurses' Health Study (1996-2008), the Nurses' Health Study-II (1991-2005), and Health Professionals' Follow-Up Study (1986-2006): additional analyses adjusting for depressive symptoms and antidepressive drug use

	Cases	Person- years	Multivariate, adjusted ^a		Multivariate, adjusted ^b		Multivariate, adjusted ^c		
			RR	95% CI	RR	95% CI	RR	95% CI	
NHS									
Never smokers	295	352,829	1.00		1.00		1.00		
Pack-years, <10	115	133,475	1.03	0.83, 1.28	1.03	0.83, 1.28	1.02	0.82, 1.27	
Pack-years, 10-24	119	113,660	1.19	0.96, 1.48	1.19	0.96, 1.48	1.18	0.95, 1.47	
Pack-years, 25-44	149	93,231	1.80	1.47, 2.20	1.79	1.47, 2.19	1.78	1.45, 2.17	
Pack-years, 45-64	81	42,409	2.11	1.64, 2.71	2.09	1.63, 2.68	2.07	1.61, 2.66	
Pack-years, ≥65	45	16,900	2.84	2.07, 3.91	2.82	2.04, 3.88	2.79	2.03, 3.84	
<i>P</i> _{trend}			<0.0001		<0.0001		<0.0001		
NHS II									
Never smokers	629	868,253	1.00		1.00		1.00		
Pack-years, <10	174	202,479	1.20	1.02, 1.43	1.20	1.01, 1.42	1.20	1.01, 1.42	
Pack-years, 10-24	224	183,257	1.68	1.43, 1.96	1.67	1.43, 1.95	1.65	1.42, 1.93	
Pack-years, 25-44	84	50,487	1.97	1.56, 2.48	1.94	1.54, 2.45	1.93	1.53, 2.44	
Pack-years, 45-64	12	4,449	2.56	1.44, 4.56	2.51	1.41, 4.47	2.49	1.40, 4.43	
Pack-years, ≥65	1	261	2.93	0.41, 20.79	2.84	0.40, 20.17	2.87	0.40, 20.40	
<i>P</i> _{trend}			<0.0001		<0.0001		<0.0001		

HPFS

Never smokers	200	230,555	1.00	-	1.00		
Pack-years, <10	60	46,570	1.45	1.09, 1.94	-	1.44	1.07, 1.92
Pack-years, 10-24	101	87,463	1.32	1.03, 1.68	-	1.30	1.02, 1.66
Pack-years, 25-44	78	55,374	1.59	1.21, 2.08	-	1.57	1.20, 2.06
Pack-years, 45-64	32	17,225	2.11	1.44, 3.10	-	2.08	1.41, 3.05
Pack-years, ≥65	11	5,117	2.28	1.23, 4.24	-	2.25	1.21, 4.18
<i>P</i> _{trend}			<0.0001			<0.0001	

Abbreviations: CI, confidence interval; HPFS, Health Professionals' Follow-Up Study;

NHS, Nurses' Health Study; NHS II, Nurses' Health Study II; RR, Relative Risk.

^a Adjusted for age (continuous variable), race (Caucasian, Asian, Hispanic or African American), body mass index (<18.5, 18.5-24.9, 25-29.9, 30-34.9, ≥35 kg/m²), alcohol drinking (no, <4.9, 5.0-9.9, 10-14.9, 15-29.9 or ≥30.0 g/d), physical activity (metabolic equivalent hours/wk, in quintile).

^b Adjusted for the abovementioned variables, plus level of depressive symptomatology by Mental Health Index score (86-100, 76-85, 53-75, or 0-52) for NHS and NHS II.

^c Adjusted for the abovementioned variables in ^a, plus anti depressive drugs use (never, past, or current).

Web Table 3. Age- and multivariate-adjusted RRs of psoriasis by smoking duration in the Nurses' Health Study (1996-2008), the Nurses' Health Study-II (1991-2005), and Health Professionals' Follow-Up Study (1986-2006): additional analyses adjusting for depressive symptoms and antidepressive drug use

	Cases	Person- years	Multivariate, adjusted ^a		Multivariate, adjusted ^b		Multivariate, adjusted ^c	
			RR	95% CI	RR	95% CI	RR	95% CI
NHS								
Never smokers	295	352,829	1.00		1.00		1.00	
Duration, <10 years	50	73,803	0.81	0.60, 1.10	0.81	0.60, 1.10	0.81	0.60, 1.09
Duration, 10-19.9 years	86	88,807	1.13	0.88, 1.43	1.12	0.88, 1.43	1.12	0.88, 1.42
Duration, 20-29.9 years	102	79,502	1.45	1.15, 1.82	1.44	1.15, 1.81	1.43	1.14, 1.79
Duration, ≥30 years	271	157,564	1.94	1.64, 2.30	1.92	1.62, 2.28	1.91	1.61, 2.26
<i>P</i> _{trend}			<0.0001		<0.0001		<0.0001	
NHS II								
Never smokers	629	868,253	1.00		1.00		1.00	
Duration, <10 years	52	60,344	1.21	0.91, 1.61	1.21	0.91, 1.60	1.20	0.91, 1.60
Duration, 10-19.9 years	224	231,677	1.35	1.16, 1.58	1.35	1.15, 1.57	1.34	1.15, 1.56
Duration, 20-29.9 years	153	118,082	1.80	1.50, 2.15	1.78	1.48, 2.13	1.77	1.48, 2.12
Duration, ≥30 years	66	30,829	2.07	1.59, 2.69	2.04	1.56, 2.65	2.03	1.56, 2.65
<i>P</i> _{trend}			<0.0001		<0.0001		<0.0001	
HPFS								
Never smokers	200	230,555	1.00		-		1.00	

Duration, <10 years	68	62,442	1.24	0.94, 1.64	-	1.22	0.93, 1.62
Duration, 10-19.9 years	70	53,423	1.49	1.13, 1.96	-	1.47	1.11, 1.94
Duration, 20-29.9 years	56	46,386	1.36	1.01, 1.84	-	1.34	1.00, 1.82
Duration, ≥30 years	88	49,500	2.03	1.56, 2.64	-	2.00	1.53, 2.60
P_{trend}			<0.0001			<0.0001	

Abbreviations: CI, confidence interval; HPFS, Health Professionals' Follow-Up Study; NHS, Nurses' Health Study; NHS II, Nurses' Health Study II; RR, Relative Risk.

^a Adjusted for age (continuous variable), race (Caucasian, Asian, Hispanic or African American), body mass index (<18.5, 18.5-24.9, 25-29.9, 30-34.9, ≥35 kg/m²), alcohol drinking (no, <4.9, 5.0-9.9, 10-14.9, 15-29.9 or ≥30.0 g/d), physical activity (metabolic equivalent hours/wk, in quintile).

^b Adjusted for the abovementioned variables, plus level of depressive symptomatology by Mental Health Index score (86-100, 76-85, 53-75, or 0-52) for NHS and NHS II.

^c Adjusted for the abovementioned variables in ^a, plus anti depressive drugs use (never, past, or current).

Web Table 4. Age- and multivariate-adjusted RRs of psoriasis by years since smoking cessation in the Nurses' Health Study (1996-2008), the Nurses' Health Study-II (1991-2005), and Health Professionals' Follow-Up Study (1986-2006): additional analyses adjusting for depressive symptoms and antidepressive drug use

	Cases	Person- years	Multivariate, adjusted^a		Multivariate, adjusted^b		Multivariate, adjusted^c	
			RR	95% CI	RR	95% CI	RR	95% CI
NHS								
Never smokers	295	352,829	1.00		1.00		1.00	
Cessation, ≥ 40 years	49	47,299	1.11	0.81, 1.50	1.11	0.81, 1.50	1.10	0.81, 1.50
Cessation, 30-39 years	71	81,524	1.01	0.78, 1.31	1.01	0.78, 1.31	1.00	0.77, 1.30
Cessation, 20-29 years	81	70,767	1.30	1.01, 1.67	1.30	1.01, 1.66	1.28	1.00, 1.64
Cessation, 10-19 years	109	81,441	1.49	1.20, 1.87	1.49	1.19, 1.86	1.47	1.18, 1.84
Cessation, 6-9 years	41	25,292	1.85	1.33, 2.57	1.83	1.32, 2.55	1.82	1.31, 2.52
Cessation, 3-5 years	32	19,123	1.89	1.31, 2.73	1.88	1.30, 2.71	1.86	1.29, 2.69
Cessation, ≤ 2 years	12	11,228	1.28	0.72, 2.28	1.27	0.71, 2.26	1.26	0.71, 2.25
$P_{\text{trend}}^{\text{d}}$			<0.0001		<0.0001		<0.0001	
NHS II								
Never smokers	629	868,253	1.00		1.00		1.00	
Cessation, ≥ 40 years	0	39	-		-		-	
Cessation, 30-39 years	14	8,986	0.99	0.58, 1.70	0.99	0.58, 1.71	0.99	0.58, 1.71
Cessation, 20-29 years	79	74,649	1.12	0.88, 1.42	1.12	0.88, 1.42	1.11	0.87, 1.41
Cessation, 10-19 years	126	130,123	1.47	1.21, 1.79	1.47	1.21, 1.78	1.46	1.20, 1.77

Cessation, 6-9 years	39	41,270	1.38	1.00, 1.91	1.37	0.99, 1.90	1.37	0.99, 1.89
Cessation, 3-5 years	41	31,475	1.82	1.33, 2.50	1.81	1.32, 2.48	1.80	1.31, 2.47
Cessation, ≤ 2 years	33	24,548	1.93	1.36, 2.74	1.91	1.35, 2.72	1.90	1.34, 2.70
$P_{\text{trend}}^{\text{d}}$			0.0003		0.0003		0.0003	
HPFS								
Never smokers	200	230,555	1.00		-		1.00	
Cessation, ≥ 10 years	208	155,158	1.45	1.19, 1.78	-		1.43	1.17, 1.75
Cessation, 6-9 years	21	13,778	1.93	1.22, 3.04	-		1.91	1.21, 3.01
Cessation, 3-5 years	10	9,950	1.27	0.67, 2.42	-		1.25	0.66, 2.37
Cessation, ≤ 2 years	11	9,716	1.45	0.78, 2.67	-		1.43	0.78, 2.64
$P_{\text{trend}}^{\text{d}}$			0.50				0.50	

Abbreviations: CI, confidence interval; HPFS, Health Professionals' Follow-Up Study; NHS, Nurses' Health Study; NHS II, Nurses' Health Study II; RR, Relative Risk.

^a Adjusted for age (continuous variable), race (Caucasian, Asian, Hispanic or African American), body mass index (<18.5, 18.5-24.9, 25-29.9, 30-34.9, ≥ 35 kg/m²), alcohol drinking (no, <4.9, 5.0-9.9, 10-14.9, 15-29.9 or ≥ 30.0 g/d), physical activity (metabolic equivalent hours/wk, in quintile).

^b Adjusted for the abovementioned variables, plus level of depressive symptomatology by Mental Health Index score (86-100, 76-85, 53-75, or 0-52) for NHS and NHS II.

^c Adjusted for the abovementioned variables in ^a, plus anti depressive drugs use (never, past, or current).

^d Never smokers were excluded from the trend test.