

Table SI. Annual age- and sex-distribution of all Taiwan National Health Insurance (NHI) members

Age, years	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
<i>All population</i>												
0–9	2,501,605	2,385,427	2,321,996	2,237,571	2,103,846	2,045,896	2,035,827	2,015,713	2,012,078	2,021,674	2,023,580	2,011,848
10–19	3,180,877	3,198,793	3,132,768	3,109,434	3,085,101	3,028,773	2,958,472	2,861,838	2,759,766	2,646,335	2,532,482	2,416,068
20–29	3,669,004	3,624,610	3,580,865	3,491,448	3,433,009	3,349,705	3,274,626	3,227,810	3,185,350	3,178,846	3,195,918	3,209,411
30–39	3,584,158	3,625,643	3,662,215	3,714,375	3,761,365	3,815,432	3,867,246	3,906,858	3,921,908	3,909,920	3,794,706	3,718,527
40–49	3,660,566	3,680,651	3,696,021	3,701,569	3,705,693	3,693,216	3,665,153	3,637,691	3,610,078	3,598,424	3,635,112	3,665,123
50–59	2,800,473	2,944,322	3,079,995	3,199,702	3,304,518	3,365,058	3,435,831	3,507,896	3,558,515	3,588,575	3,612,526	3,622,314
60–69	1,498,403	1,530,825	1,588,268	1,665,424	1,754,245	1,889,400	2,021,912	2,156,716	2,305,181	2,492,863	2,670,291	2,803,955
70–79	1,103,639	1,117,673	1,129,348	1,146,795	1,168,462	1,191,432	1,215,086	1,241,132	1,261,814	1,257,730	1,267,237	1,302,076
80–89	448,750	480,595	513,850	542,284	573,400	598,160	617,337	633,762	650,596	664,469	675,816	689,035
90–99	53,832	58,817	63,889	68,193	75,053	84,586	92,847	100,300	109,203	119,762	131,525	141,206
≥100	1,229	1,360	1,516	1,617	1,837	2,022	2,461	2,768	3,199	3,395	3,648	3,961
<i>Total</i>	<i>22,502,536</i>	<i>22,648,716</i>	<i>22,770,731</i>	<i>22,878,412</i>	<i>22,966,529</i>	<i>23,063,680</i>	<i>23,186,798</i>	<i>23,292,484</i>	<i>23,377,688</i>	<i>23,481,993</i>	<i>23,542,841</i>	<i>23,583,524</i>
<i>Males</i>												
0–9	1,306,738	1,246,576	1,214,088	1,169,410	1,099,661	1,068,937	1,062,418	1,050,521	1,046,770	1,051,344	1,051,505	1,044,279
10–19	1,655,687	1,665,405	1,631,541	1,619,955	1,606,820	1,576,443	1,539,814	1,491,072	1,438,902	1,380,809	1,321,908	1,261,627
20–29	1,856,967	1,840,169	1,820,738	1,773,240	1,747,949	1,710,480	1,677,207	1,658,745	1,641,825	1,644,757	1,654,313	1,662,169
30–39	1,795,590	1,815,344	1,831,364	1,848,253	1,866,517	1,890,386	1,915,298	1,938,187	1,947,074	1,944,517	1,887,256	1,854,127
40–49	1,833,970	1,845,760	1,853,272	1,851,405	1,849,634	1,839,330	1,821,013	1,807,475	1,789,922	1,780,299	1,795,346	1,805,914
50–59	1,388,822	1,459,166	1,525,335	1,582,129	1,632,609	1,661,899	1,695,890	1,731,898	1,756,715	1,769,881	1,780,427	1,784,862
60–69	721,368	737,846	766,900	805,335	849,461	914,853	979,074	1,044,248	1,115,057	1,205,377	1,289,851	1,352,380
70–79	559,317	554,374	548,671	546,124	546,974	551,581	558,016	568,078	577,059	574,708	578,968	595,976
80–89	229,745	247,404	265,628	278,454	293,652	303,329	308,350	310,274	310,819	309,090	306,957	305,152
90–99	22,609	24,737	27,342	29,168	32,478	37,032	40,886	44,480	48,917	54,311	59,731	64,426
≥100	406	476	504	525	612	697	940	1,062	1,257	1,344	1,457	1,565
<i>Total</i>	<i>11,371,219</i>	<i>11,437,257</i>	<i>11,485,383</i>	<i>11,503,998</i>	<i>11,526,367</i>	<i>11,554,967</i>	<i>11,598,906</i>	<i>11,646,040</i>	<i>11,674,317</i>	<i>11,716,437</i>	<i>11,727,719</i>	<i>11,732,477</i>
<i>Females</i>												
0–9	1,194,867	1,138,851	1,107,908	1,068,161	1,004,185	976,959	973,409	965,192	965,308	970,330	972,075	967,569
10–19	1,525,190	1,533,388	1,501,227	1,489,479	1,478,281	1,452,330	1,418,658	1,370,766	1,320,864	1,265,526	1,210,574	1,154,441
20–29	1,812,037	1,784,441	1,760,127	1,718,208	1,685,060	1,639,225	1,597,419	1,569,065	1,543,525	1,534,089	1,541,605	1,547,242
30–39	1,788,568	1,810,299	1,830,851	1,866,122	1,894,848	1,925,046	1,951,948	1,968,671	1,974,834	1,965,403	1,907,450	1,864,400
40–49	1,826,596	1,834,891	1,842,749	1,850,164	1,856,059	1,853,886	1,844,140	1,830,216	1,820,156	1,818,125	1,839,766	1,859,209
50–59	1,411,651	1,485,156	1,554,660	1,617,573	1,671,909	1,703,159	1,739,941	1,775,998	1,801,800	1,818,694	1,832,099	1,837,452
60–69	777,035	792,979	821,368	860,089	904,784	974,547	1,042,838	1,112,468	1,190,124	1,287,486	1,380,440	1,451,575
70–79	544,322	563,299	580,677	600,671	621,488	639,851	657,070	673,054	684,755	683,022	688,269	706,100
80–89	219,005	233,191	248,222	263,830	279,748	294,831	308,987	323,488	339,777	355,379	368,859	383,883
90–99	31,223	34,080	36,547	39,025	42,575	47,554	51,961	55,820	60,286	65,451	71,794	76,780
≥100	823	884	1,012	1,092	1,225	1,325	1,521	1,706	1,942	2,051	2,191	2,396

Total 11,131,317 11,211,459 11,285,348 11,374,414 11,440,162 11,508,713 11,587,892 11,646,444 11,703,371 11,765,556 11,815,122 11,851,047

Table SII. Annual sensitivity analysis of prevalence and incidence of psoriasis and psoriatic arthritis (95% confidence interval; 95% CI)

Year	Total population				Male				Female			
	Prevalent cases <i>n</i>	Prevalence (95% CI) ^c	Incident cases <i>n</i>	Incidence (95% CI) ^d	Prevalent cases <i>n</i>	Prevalence (95% CI) ^c	Incident cases <i>n</i>	Incidence (95% CI) ^d	Prevalent cases <i>n</i>	Prevalence (95% CI) ^c	Incident cases <i>n</i>	Incidence (95% CI) ^d
<i>Psoriasis^a</i>												
2006	30,020	131 (130–133)	–	–	19,824	171 (169–173)	–	–	10,196	90 (89–92)	–	–
2007	46,240	201 (200–203)	–	–	29,734	256 (253–259)	–	–	16,506	145 (143–148)	–	–
2008	59,334	258 (255–260)	–	–	37,697	324 (321–328)	–	–	21,637	190 (187–192)	–	–
2009	71,567	310 (307–312)	10,032	46 (45–47)	45,224	389 (385–392)	6,277	58 (56–59)	26,343	229 (227–232)	3,755	35 (34–36)
2010	83,230	359 (357–362)	9,684	44 (43–45)	52,321	450 (446–454)	5,965	54 (53–56)	30,909	268 (265–271)	3,719	34 (33–35)
2011	95,279	410 (408–413)	10,059	46 (45–57)	59,660	512 (508–516)	6,181	56 (55–58)	35,619	308 (304–311)	3,878	35 (34–36)
2012	107,811	462 (460–465)	10,402	47 (46–48)	67,229	576 (572–580)	6,400	58 (57–60)	40,582	349 (345–352)	4,002	36 (35–37)
2013	120,115	514 (511–517)	10,172	46 (45–47)	74,734	640 (635–644)	6,270	57 (55–58)	45,381	388 (385–392)	3,902	35 (34–36)
2014	131,713	562 (559–565)	9,825	44 (43–45)	81,759	699 (694–704)	5,976	54 (53–55)	49,954	426 (422–429)	3,849	34 (33–35)
2015	143,571	611 (608–614)	10,143	45 (44–46)	88,965	760 (755–765)	6,155	55 (54–57)	54,606	464 (460–467)	3,988	35 (34–37)
2016	154,795	658 (654–661)	9,637	43 (42–44)	95,744	817 (812–822)	5,834	52 (51–54)	59,051	500 (496–504)	3,803	34 (33–35)
2017	166,827	708 (704–711)	10,284	46 (45–47)	102,816	877 (872–883)	6,077	54 (53–56)	64,011	540 (536–544)	4,207	37 (36–38)
<i>Psoriatic arthritis^b</i>												
2006	1,286	6 (5–6)	–	–	774	7 (6–7)	–	–	512	5 (4–5)	–	–
2007	2,115	9 (9–10)	–	–	1,256	11 (10–11)	–	–	859	8 (7–8)	–	–
2008	2,901	13 (12–13)	–	–	1,692	15 (14–15)	–	–	1,209	11 (10–11)	–	–
2009	3,723	16 (16–17)	1,258	6 (5–6)	2,132	18 (18–19)	748	7 (6–7)	1,591	14 (13–15)	510	5 (4–5)
2010	4,743	20 (20–21)	1,480	7 (6–7)	2,700	23 (22–24)	875	8 (7–8)	2,043	18 (17–18)	605	6 (5–6)
2011	5,802	25 (24–26)	1,594	7 (7–8)	3,270	28 (27–29)	934	8 (8–9)	2,532	22 (21–23)	660	6 (6–6)
2012	6,925	30 (29–30)	1,590	7 (7–8)	3,886	33 (32–34)	931	8 (8–9)	3,039	26 (25–27)	659	6 (5–6)
2013	8,191	35 (34–36)	1,800	8 (8–8)	4,570	39 (38–40)	1,064	10 (9–10)	3,621	31 (30–32)	736	7 (6–7)
2014	9,570	41 (40–42)	1,901	9 (8–9)	5,272	45 (44–46)	1,060	10 (9–10)	4,298	37 (36–38)	841	7 (7–8)
2015	10,561	45 (44–46)	1,729	8 (7–8)	5,821	50 (48–51)	1,025	9 (9–10)	4,740	40 (39–41)	704	6 (6–7)
2016	12,182	52 (51–53)	1,674	7 (7–8)	6,782	58 (56–59)	975	9 (8–9)	5,400	46 (44–47)	699	6 (6–7)
2017	13,346	57 (56–58)	1,987	9 (8–9)	7,437	63 (62–65)	1,156	10 (10–11)	5,909	50 (49–51)	831	7 (7–8)

^a≥2 psoriasis diagnosis codes.

^b≥2 psoriatic arthritis diagnosis records.

^cPer 100,000 persons, standardized by 2006 to 2017 general population.

^dPer 100,000 person-years.

Table III. Age- and sex- stratified prevalence and incidence of psoriasis^a

Year	0-9 years		10-19 years		20-29 years		30-39 years		40-49 years		50-59 years		60-69 years		70-79 years		80-89 years		≥90 years		
	Incid ^b	Prev ^c	Incid ^b	Prev ^c	Incid ^b	Prev ^c	Incid ^b	Prev ^c	Incid ^b	Prev ^c	Incid ^b	Prev ^c	Incid ^b	Prev ^c	Incid ^b	Prev ^c	Incid ^b	Prev ^c	Incid ^b	Prev ^c	
<i>Total population</i>																					
2006	–	0.02	–	0.06	–	0.17	–	0.19	–	0.21	–	0.26	–	0.28	–	0.36	–	0.36	–	0.21	
2007	–	0.02	–	0.09	–	0.25	–	0.27	–	0.30	–	0.37	–	0.41	–	0.52	–	0.56	–	0.35	
2008	–	0.03	–	0.11	–	0.31	–	0.35	–	0.36	–	0.45	–	0.51	–	0.63	–	0.74	–	0.59	
2009	10.86	0.03	29.37	0.13	63.15	0.35	68.30	0.42	64.49	0.42	75.46	0.51	85.05	0.60	107.96	0.73	112.91	0.91	79.48	0.84	
2010	10.58	0.04	25.83	0.14	57.85	0.39	60.50	0.48	60.70	0.48	74.40	0.58	85.72	0.68	101.97	0.83	110.15	1.09	89.46	1.11	
2011	8.57	0.04	27.86	0.15	56.71	0.42	64.20	0.54	60.49	0.53	74.85	0.65	84.91	0.76	103.27	0.93	110.22	1.29	115.20	1.46	
2012	11.11	0.04	31.30	0.16	65.27	0.46	70.19	0.61	67.60	0.59	78.92	0.72	90.61	0.85	110.66	1.04	118.43	1.49	91.48	1.82	
2013	11.42	0.04	29.18	0.18	64.63	0.49	69.38	0.68	65.80	0.66	73.36	0.78	78.69	0.92	95.66	1.13	112.97	1.68	83.04	2.23	
2014	7.43	0.03	24.42	0.18	58.04	0.51	65.54	0.74	60.01	0.72	67.43	0.83	77.24	0.99	93.32	1.22	108.56	1.87	83.70	2.74	
2015	8.38	0.03	27.41	0.19	56.92	0.53	64.28	0.79	59.63	0.78	70.09	0.89	84.02	1.07	94.90	1.32	97.48	2.03	86.11	3.26	
2016	7.93	0.03	28.83	0.20	60.42	0.55	67.36	0.84	61.15	0.85	66.72	0.94	75.86	1.14	84.63	1.40	91.70	2.19	76.40	3.87	
2017	7.66	0.03	31.38	0.20	64.33	0.57	71.38	0.90	66.63	0.92	72.53	1.00	79.15	1.21	97.73	1.51	98.82	2.33	91.94	4.57	
<i>Male</i>																					
2006	–	0.02	–	0.06	–	0.17	–	0.22	–	0.28	–	0.35	–	0.38	–	0.49	–	0.48	–	0.29	
2007	–	0.02	–	0.09	–	0.25	–	0.31	–	0.38	–	0.49	–	0.54	–	0.69	–	0.72	–	0.49	
2008	–	0.03	–	0.11	–	0.31	–	0.39	–	0.46	–	0.59	–	0.68	–	0.84	–	0.95	–	0.78	
2009	9.79	0.04	30.48	0.13	67.43	0.36	79.06	0.47	80.47	0.53	94.02	0.67	107.52	0.79	131.22	0.97	124.84	1.16	97.72	1.14	
2010	11.05	0.04	27.98	0.14	61.73	0.40	69.60	0.53	73.99	0.60	92.17	0.76	110.22	0.90	127.32	1.11	130.04	1.39	114.63	1.51	
2011	8.06	0.04	28.75	0.15	61.22	0.43	73.65	0.60	78.03	0.66	93.48	0.85	109.11	1.00	126.54	1.24	137.40	1.65	149.81	1.97	
2012	10.35	0.04	32.36	0.17	69.84	0.47	78.97	0.67	80.03	0.73	96.46	0.93	118.66	1.12	136.36	1.37	141.83	1.93	131.93	2.47	
2013	10.92	0.04	29.40	0.18	69.79	0.50	79.13	0.74	78.32	0.80	89.14	1.00	100.26	1.22	120.64	1.50	139.94	2.21	110.51	3.03	
2014	7.41	0.03	26.71	0.19	65.25	0.53	76.94	0.81	74.80	0.87	82.08	1.06	98.74	1.31	116.06	1.62	129.58	2.49	103.52	3.70	
2015	7.83	0.03	29.88	0.19	61.21	0.55	75.91	0.87	74.38	0.94	86.39	1.13	109.45	1.42	115.88	1.74	112.68	2.74	87.01	4.39	
2016	8.67	0.03	29.98	0.20	67.16	0.58	75.84	0.92	75.52	1.01	81.90	1.20	96.66	1.51	101.21	1.87	107.23	2.98	88.82	5.22	
2017	9.05	0.03	34.60	0.21	69.39	0.60	80.59	0.99	78.92	1.09	85.15	1.26	98.85	1.59	118.47	2.01	117.07	3.19	113.26	6.18	
<i>Female</i>																					
2006	–	0.02	–	0.07	–	0.16	–	0.15	–	0.14	–	0.17	–	0.19	–	0.24	–	0.24	–	0.15	
2007	–	0.02	–	0.10	–	0.24	–	0.23	–	0.21	–	0.25	–	0.28	–	0.35	–	0.39	–	0.24	
2008	–	0.03	–	0.11	–	0.30	–	0.30	–	0.26	–	0.31	–	0.35	–	0.43	–	0.51	–	0.44	
2009	12.03	0.03	28.17	0.13	58.79	0.34	57.61	0.37	48.66	0.31	57.49	0.36	64.25	0.42	87.08	0.52	100.48	0.65	66.12	0.60	
2010	10.06	0.04	23.49	0.13	53.84	0.38	51.45	0.42	47.51	0.36	57.17	0.41	62.97	0.47	79.94	0.60	89.54	0.79	70.63	0.79	
2011	9.14	0.04	26.89	0.15	52.03	0.41	54.82	0.48	43.15	0.40	56.81	0.46	62.42	0.53	83.48	0.67	82.70	0.92	88.87	1.04	
2012	11.94	0.04	30.14	0.16	60.52	0.44	61.53	0.55	55.40	0.46	61.96	0.52	64.55	0.59	89.14	0.76	95.48	1.05	60.26	1.29	
2013	11.96	0.04	28.95	0.18	59.23	0.47	59.81	0.61	53.56	0.52	58.12	0.56	58.66	0.65	74.88	0.82	87.56	1.19	61.53	1.58	
2014	7.46	0.03	21.92	0.18	50.46	0.49	54.32	0.67	45.59	0.57	53.29	0.60	57.32	0.70	74.43	0.89	89.70	1.32	67.95	1.95	
2015	8.98	0.03	24.71	0.19	52.39	0.51	52.85	0.71	45.30	0.63	54.38	0.65	60.47	0.75	77.50	0.96	84.53	1.43	85.37	2.33	

2016	7.13	0.03	27.57	0.20	53.26	0.52	58.95	0.77	47.19	0.69	52.08	0.69	56.63	0.81	70.90	1.02	79.05	1.54	66.28	2.73
2017	6.17	0.02	27.86	0.20	58.93	0.54	62.19	0.82	54.72	0.75	60.36	0.74	60.98	0.86	80.48	1.09	84.60	1.66	74.48	3.21

^a≥1 psoriasis diagnosis code (diagnosis is made by a dermatologist).

^bIncidence rates (Incid) are per 100,000 person-years.

^cPrevalence (prevalence, standardized by 2006 to 2017 general population) measures are percentage values.

Table SIV. Age- and sex- stratified sensitivity analysis of prevalence and incidence of psoriasis^a

Year	0-9 years		10-19 years		20-29 years		30-39 years		40-49 years		50-59 years		60-69 years		70-79 years		80-89 years		≥90 years		
	Incid ^b	Prev ^c	Incid ^b	Prev ^c	Incid ^b	Prev ^c	Incid ^b	Prev ^c	Incid ^b	Prev ^c	Incid ^a	Incid ^b	Prev ^c	Incid ^b	Prev ^c	Incid ^b	Prev ^c	Incid ^b	Prev ^c	Incid ^b	
<i>Total population</i>																					
2006	–	0.01	–	0.04	–	0.11	–	0.12	–	0.15	–	0.20	–	0.23	–	0.32	–	0.32	–	0.22	
2007	–	0.01	–	0.06	–	0.17	–	0.20	–	0.23	–	0.30	–	0.35	–	0.49	–	0.53	–	0.34	
2008	–	0.01	–	0.07	–	0.21	–	0.25	–	0.28	–	0.37	–	0.45	–	0.65	–	0.71	–	0.55	
2009	6.05	0.02	18.08	0.08	38.37	0.24	43.99	0.31	47.48	0.33	58.93	0.43	74.16	0.53	102.86	0.79	103.95	0.90	82.61	0.80	
2010	5.12	0.02	17.02	0.09	35.62	0.27	39.37	0.35	47.40	0.38	58.77	0.49	73.14	0.60	87.40	0.93	99.27	1.07	83.65	1.10	
2011	4.49	0.02	18.96	0.10	35.40	0.30	41.60	0.40	44.89	0.43	60.61	0.56	73.41	0.67	91.79	1.10	108.20	1.26	112.56	1.48	
2012	6.40	0.02	19.43	0.11	37.04	0.32	43.11	0.45	47.37	0.48	59.21	0.61	73.24	0.76	93.78	1.29	106.54	1.46	82.06	1.84	
2013	5.71	0.02	17.49	0.12	38.37	0.34	44.15	0.50	46.69	0.52	58.34	0.67	65.63	0.83	82.62	1.47	97.06	1.64	88.37	2.26	
2014	3.86	0.02	16.03	0.12	35.76	0.36	43.74	0.55	45.27	0.57	54.33	0.71	62.03	0.89	80.46	1.66	95.27	1.82	82.63	2.75	
2015	4.74	0.02	17.06	0.13	35.68	0.38	43.33	0.59	43.54	0.62	54.92	0.76	69.08	0.96	84.43	1.94	94.49	1.98	89.63	3.30	
2016	3.85	0.02	17.30	0.13	37.28	0.39	41.61	0.62	43.09	0.67	52.00	0.80	61.61	1.02	70.08	2.19	78.73	2.12	68.84	3.89	
2017	4.41	0.01	18.76	0.13	37.43	0.41	43.57	0.66	46.83	0.72	54.93	0.85	63.39	1.08	79.87	2.37	81.19	2.25	73.27	4.56	
<i>Male</i>																					
2006	–	0.01	–	0.04	–	0.12	–	0.16	–	0.22	–	0.28	–	0.33	–	0.45	–	0.44	–	0.29	
2007	–	0.01	–	0.06	–	0.18	–	0.24	–	0.31	–	0.41	–	0.49	–	0.65	–	0.71	–	0.44	
2008	–	0.02	–	0.07	–	0.22	–	0.30	–	0.38	–	0.51	–	0.62	–	0.80	–	0.95	–	0.73	
2009	5.78	0.02	20.14	0.08	44.22	0.26	54.46	0.36	63.14	0.44	78.11	0.59	99.36	0.73	133.58	0.95	125.19	1.19	101.39	1.06	
2010	5.65	0.02	19.27	0.09	40.67	0.29	46.31	0.41	62.26	0.51	76.52	0.67	93.74	0.82	113.07	1.08	124.24	1.42	90.97	1.44	
2011	4.16	0.02	20.59	0.10	39.75	0.31	49.72	0.46	57.63	0.56	77.78	0.75	99.07	0.92	117.99	1.21	139.79	1.69	155.72	1.98	
2012	7.12	0.02	21.71	0.12	42.74	0.34	51.44	0.52	59.20	0.61	77.96	0.83	100.07	1.03	119.51	1.33	132.11	1.97	110.31	2.47	
2013	5.88	0.02	19.56	0.12	45.00	0.37	52.94	0.57	60.45	0.67	74.93	0.89	87.57	1.13	107.73	1.46	123.73	2.23	122.67	3.07	
2014	3.70	0.02	18.35	0.13	40.95	0.39	54.55	0.62	57.24	0.72	68.72	0.95	80.72	1.21	102.61	1.57	114.35	2.50	105.68	3.77	
2015	4.89	0.02	19.27	0.13	40.98	0.41	53.25	0.67	55.32	0.78	70.62	1.01	91.61	1.31	106.13	1.69	108.08	2.75	90.97	4.53	
2016	2.66	0.02	19.20	0.14	42.87	0.43	48.69	0.71	56.06	0.83	65.68	1.07	81.67	1.38	90.44	1.80	94.21	2.99	83.18	5.38	
2017	5.43	0.02	20.28	0.14	42.85	0.44	51.26	0.75	58.26	0.89	68.21	1.12	81.64	1.46	95.73	1.91	92.07	3.19	87.35	6.30	
<i>Female</i>																					
2006	–	0.01	–	0.04	–	0.10	–	0.09	–	0.09	–	0.12	–	0.14	–	0.19	–	0.20	–	0.17	
2007	–	0.01	–	0.06	–	0.15	–	0.15	–	0.14	–	0.19	–	0.22	–	0.30	–	0.34	–	0.26	
2008	–	0.01	–	0.07	–	0.20	–	0.21	–	0.19	–	0.24	–	0.29	–	0.38	–	0.47	–	0.41	
2009	6.34	0.01	15.84	0.08	32.41	0.23	33.59	0.25	31.96	0.22	40.36	0.28	50.83	0.35	75.29	0.45	81.82	0.59	68.84	0.60	
2010	4.54	0.02	14.58	0.09	30.42	0.26	32.47	0.29	32.66	0.26	41.56	0.32	54.00	0.40	65.10	0.53	73.42	0.71	78.17	0.83	
2011	4.85	0.02	17.19	0.10	30.88	0.28	33.53	0.34	32.29	0.30	43.98	0.37	49.58	0.45	69.52	0.60	76.22	0.83	79.73	1.08	
2012	5.60	0.02	16.94	0.11	31.10	0.30	34.90	0.39	35.75	0.34	41.08	0.41	48.31	0.50	72.24	0.67	81.49	0.96	60.25	1.33	
2013	5.52	0.02	15.24	0.11	31.44	0.32	35.52	0.43	33.23	0.38	42.32	0.45	45.27	0.55	61.72	0.73	71.95	1.09	61.50	1.59	
2014	4.04	0.02	13.51	0.11	30.31	0.33	33.11	0.47	33.61	0.42	40.44	0.48	44.71	0.59	62.07	0.79	78.17	1.22	64.31	1.90	
2015	4.56	0.01	14.65	0.12	30.07	0.34	33.57	0.50	32.10	0.47	39.79	0.51	48.23	0.64	66.44	0.86	82.92	1.32	88.55	2.27	

2016	5.15	0.02	15.23	0.12	31.34	0.36	34.59	0.54	30.49	0.51	38.81	0.55	43.06	0.68	53.22	0.90	66.13	1.42	57.17	2.65
2017	3.31	0.01	17.10	0.12	31.66	0.37	35.90	0.57	35.76	0.56	42.13	0.59	46.57	0.72	66.68	0.96	72.72	1.52	61.74	3.09

^a≥2 psoriasis diagnosis records.

^bIncidence rates (Incid) are per 100,000 person-years.

^cPrevalence (prevalence, standardized by 2006 to 2017 general population) measures are percentage values.

Table SV. Age- and sex- stratified prevalence and incidence of psoriatic arthritis^a

Year	0–19 years		20–29 years		30–39 years		40–49 years		50–59 years		60–69 years		70–79 years		≥80 years	
	Incid ^b	Prev ^c	Incid ^b	Prev ^c	Incid ^b	Prev ^c	Incid ^b	Prev ^c	Incid ^b	Prev ^c	Incid [*]	Incid ^b	Prev ^c	Incid ^b	Prev ^c	Incid ^b
<i>Total population</i>																
2006	–	0.003	–	0.01	–	0.01	–	0.01	–	0.01	–	0.01	–	0.01	–	0.01
2007	–	0.01	–	0.01	–	0.01	–	0.02	–	0.02	–	0.02	–	0.02	–	0.02
2008	–	0.01	–	0.01	–	0.02	–	0.02	–	0.03	–	0.03	–	0.02	–	0.02
2009	2.75	0.01	5.61	0.02	6.28	0.02	7.37	0.03	8.45	0.03	7.62	0.03	7.06	0.03	5.35	0.03
2010	3.96	0.01	6.16	0.02	7.75	0.03	8.18	0.03	8.64	0.04	9.57	0.04	7.20	0.04	6.83	0.04
2011	3.45	0.02	6.17	0.03	7.53	0.04	7.66	0.04	10.19	0.05	9.23	0.05	8.19	0.05	8.69	0.05
2012	3.59	0.02	6.80	0.03	7.03	0.04	8.21	0.05	8.28	0.06	8.83	0.06	9.05	0.06	5.67	0.06
2013	4.02	0.02	7.68	0.04	7.99	0.05	9.34	0.06	10.94	0.07	10.14	0.08	8.37	0.07	6.92	0.08
2014	4.63	0.02	7.29	0.04	10.41	0.06	10.54	0.07	12.68	0.08	12.07	0.09	11.02	0.08	6.84	0.09
2015	1.85	0.02	4.34	0.05	6.03	0.07	6.77	0.07	7.21	0.09	6.84	0.10	4.59	0.09	3.11	0.10
2016	0.67	0.02	2.33	0.05	5.13	0.07	6.60	0.08	6.02	0.10	6.35	0.11	3.83	0.10	3.43	0.12
2017	0.45	0.02	3.36	0.05	5.34	0.08	7.10	0.09	7.42	0.11	4.87	0.12	4.28	0.11	3.45	0.13
<i>Male</i>																
2006	–	0.003	–	0.01	–	0.01	–	0.01	–	0.01	–	0.01	–	0.01	–	0.01
2007	–	0.01	–	0.01	–	0.01	–	0.02	–	0.02	–	0.02	–	0.02	–	0.02
2008	–	0.01	–	0.01	–	0.02	–	0.02	–	0.03	–	0.03	–	0.03	–	0.02
2009	2.90	0.01	5.82	0.02	6.49	0.02	7.68	0.03	7.61	0.03	8.18	0.03	8.13	0.03	6.20	0.03
2010	3.73	0.01	6.51	0.02	7.33	0.03	8.16	0.04	7.36	0.04	8.12	0.04	8.68	0.05	8.78	0.04
2011	3.31	0.02	6.69	0.03	7.67	0.03	7.81	0.04	9.03	0.05	9.69	0.05	7.13	0.05	7.21	0.05
2012	3.66	0.02	7.00	0.03	7.35	0.04	8.06	0.05	7.76	0.06	8.22	0.06	8.91	0.07	5.20	0.07
2013	4.38	0.02	7.57	0.04	8.40	0.05	8.65	0.06	9.80	0.07	10.08	0.08	8.76	0.07	5.71	0.08
2014	5.03	0.02	7.14	0.04	10.57	0.06	10.50	0.07	10.77	0.08	10.65	0.09	10.25	0.09	6.26	0.09
2015	2.06	0.03	4.19	0.04	6.69	0.07	7.45	0.07	6.68	0.09	6.85	0.10	4.52	0.10	3.54	0.11
2016	0.74	0.02	2.10	0.04	6.18	0.08	6.27	0.08	4.78	0.10	6.40	0.11	4.85	0.11	2.94	0.12
2017	0.56	0.02	3.94	0.05	5.96	0.08	7.87	0.09	6.95	0.11	4.96	0.12	5.76	0.12	5.24	0.14
<i>Female</i>																
2006	–	0.003	–	0.01	–	0.01	–	0.01	–	0.01	–	0.01	–	0.01	–	0.01
2007	–	0.01	–	0.01	–	0.01	–	0.01	–	0.02	–	0.02	–	0.02	–	0.02
2008	–	0.01	–	0.02	–	0.02	–	0.02	–	0.03	–	0.03	–	0.02	–	0.02
2009	2.59	0.01	5.40	0.02	6.06	0.02	7.06	0.03	9.26	0.03	7.10	0.03	6.11	0.03	4.49	0.03
2010	4.21	0.01	5.80	0.02	8.17	0.03	8.20	0.03	9.88	0.04	10.92	0.04	5.91	0.04	4.87	0.04
2011	3.60	0.02	5.63	0.03	7.40	0.04	7.50	0.04	11.32	0.05	8.80	0.05	9.10	0.05	10.13	0.05

2012	3.51	0.02	6.59	0.04	6.72	0.04	8.36	0.05	8.79	0.06	9.40	0.06	9.17	0.06	6.11	0.06
2013	3.63	0.02	7.79	0.04	7.58	0.05	10.02	0.06	12.04	0.07	10.19	0.08	8.05	0.07	8.02	0.08
2014	4.20	0.02	7.44	0.05	10.25	0.06	10.57	0.07	14.52	0.08	13.38	0.09	11.65	0.08	7.36	0.09
2015	1.62	0.02	4.50	0.05	5.38	0.06	6.11	0.07	7.73	0.09	6.82	0.10	4.65	0.09	2.75	0.10
2016	0.59	0.02	2.57	0.05	4.09	0.07	6.92	0.08	7.22	0.10	6.29	0.11	2.98	0.09	3.83	0.11
2017	0.33	0.02	2.75	0.05	4.73	0.07	6.36	0.09	7.87	0.10	4.79	0.12	3.05	0.10	2.06	0.12

^a≥1 psoriatic arthritis diagnosis records (diagnosis is made by a dermatologist or a rheumatologist).

^bIncidence rates (Incid) are per 100,000 person-years.

^cPrevalence (prevalence, standardized by 2006 to 2017 general population) measures are percentage values.

Table SVI. Age- and sex- stratified sensitivity analysis of prevalence and incidence of psoriatic arthritis^a

Year	0–19 years		20–29 years		30–39 years		40–49 years		50–59 years		60–69 years		70–79 years		≥80 years	
	Prev ^c	Incid ^b	Prev ^c	Incid ^b	Prev ^c	Incid ^b	Prev ^c	Incid ^b	Prev ^c	Incid ^b	Prev ^c	Incid ^b	Prev ^c	Incid ^b	Prev ^c	Incid ^b
<i>Total population</i>																
2006	–	0.001	–	0.004	–	0.01	–	0.01	–	0.01	–	0.01	–	0.01	–	0.01
2007	–	0.002	–	0.01	–	0.01	–	0.01	–	0.02	–	0.02	–	0.02	–	0.02
2008	–	0.003	–	0.01	–	0.01	–	0.02	–	0.02	–	0.02	–	0.02	–	0.02
2009	0.81	0.003	4.44	0.01	6.56	0.01	7.09	0.02	9.63	0.03	8.92	0.03	7.11	0.03	8.40	0.03
2010	1.49	0.005	4.97	0.01	7.61	0.02	8.31	0.03	9.09	0.03	11.32	0.03	11.43	0.04	7.26	0.04
2011	1.32	0.006	4.96	0.01	7.71	0.02	9.39	0.03	11.47	0.04	10.68	0.04	10.02	0.05	8.15	0.05
2012	1.29	0.006	4.46	0.01	7.82	0.03	9.64	0.04	10.54	0.05	10.98	0.05	10.16	0.05	7.97	0.06
2013	1.28	0.007	5.53	0.02	9.12	0.03	10.55	0.04	12.55	0.05	11.52	0.06	9.28	0.06	7.98	0.08
2014	1.64	0.008	5.46	0.02	10.16	0.04	10.41	0.05	12.96	0.06	11.39	0.07	10.19	0.07	8.97	0.09
2015	1.12	0.008	4.74	0.02	9.20	0.04	10.36	0.05	11.80	0.07	10.12	0.08	9.16	0.08	5.21	0.10
2016	0.77	0.008	4.79	0.02	8.57	0.05	9.75	0.06	11.05	0.08	11.20	0.09	7.65	0.09	5.20	0.11
2017	0.53	0.008	5.74	0.02	10.84	0.05	13.04	0.07	13.09	0.08	10.19	0.09	9.56	0.10	5.68	0.13
<i>Male</i>																
2006	–	0.001	–	0.004	–	0.01	–	0.01	–	0.01	–	0.01	–	0.01	–	0.01
2007	–	0.002	–	0.01	–	0.01	–	0.02	–	0.02	–	0.02	–	0.02	–	0.02
2008	–	0.003	–	0.01	–	0.01	–	0.02	–	0.03	–	0.03	–	0.03	–	0.03
2009	1.02	0.004	4.92	0.01	7.92	0.02	8.97	0.03	10.74	0.03	12.31	0.03	8.25	0.04	9.57	0.04
2010	1.47	0.005	5.78	0.01	9.33	0.02	10.10	0.03	10.25	0.04	13.11	0.04	15.54	0.05	10.63	0.05
2011	1.37	0.006	5.83	0.01	9.47	0.02	11.98	0.04	13.57	0.05	12.40	0.05	11.15	0.06	6.83	0.06
2012	1.59	0.007	5.14	0.02	9.66	0.03	11.59	0.04	12.63	0.05	12.63	0.06	12.31	0.07	7.55	0.07
2013	1.73	0.008	6.67	0.02	11.31	0.04	12.43	0.05	14.67	0.06	14.19	0.07	11.18	0.07	8.31	0.09
2014	1.69	0.009	6.36	0.02	11.34	0.04	11.51	0.05	14.38	0.07	13.65	0.08	12.26	0.09	11.16	0.10
2015	1.25	0.010	5.29	0.02	11.85	0.04	12.37	0.06	13.92	0.08	12.79	0.09	10.35	0.09	6.39	0.12
2016	0.94	0.009	5.42	0.02	10.81	0.05	11.58	0.07	12.09	0.09	14.07	0.10	9.04	0.11	6.07	0.14
2017	0.51	0.009	6.48	0.03	12.79	0.06	15.77	0.08	15.01	0.10	12.14	0.11	13.08	0.12	6.86	0.15
<i>Female</i>																
2006	–	0.001	–	0.004	–	0.004	–	0.005	–	0.01	–	0.01	–	0.01	–	0.01
2007	–	0.002	–	0.01	–	0.01	–	0.01	–	0.01	–	0.01	–	0.01	–	0.01
2008	–	0.003	–	0.01	–	0.01	–	0.01	–	0.02	–	0.02	–	0.02	–	0.02
2009	0.58	0.003	3.95	0.01	5.21	0.01	5.23	0.02	8.54	0.02	5.78	0.02	6.08	0.03	7.23	0.03
2010	1.51	0.004	4.14	0.01	5.90	0.02	6.53	0.02	7.96	0.03	9.65	0.03	7.84	0.03	3.88	0.03
2011	1.26	0.005	4.05	0.01	5.97	0.02	6.82	0.03	9.43	0.03	9.07	0.04	9.05	0.04	9.46	0.04

2012	0.96	0.005	3.76	0.01	6.00	0.02	7.71	0.03	8.52	0.04	9.45	0.05	8.35	0.04	8.38	0.05
2013	0.80	0.006	4.33	0.02	6.96	0.03	8.70	0.04	10.50	0.05	9.03	0.05	7.69	0.05	7.68	0.07
2014	1.59	0.007	4.52	0.02	9.00	0.03	9.35	0.04	11.57	0.06	9.29	0.06	8.45	0.06	7.03	0.08
2015	0.99	0.007	4.15	0.02	6.59	0.03	8.41	0.05	9.74	0.06	7.64	0.07	8.18	0.07	4.20	0.09
2016	0.59	0.007	4.13	0.02	6.35	0.04	7.98	0.06	10.05	0.07	8.52	0.08	6.50	0.08	4.50	0.10
2017	0.55	0.006	4.96	0.02	8.89	0.04	10.40	0.06	11.23	0.07	8.38	0.08	6.62	0.08	4.75	0.11

^a≥2 psoriatic arthritis diagnosis records.

^bIncidence rates (Incid) are per 100,000 person-years.

^cPrevalence (prevalence, standardized by 2006 to 2017 general population) measures are percentage values.

Table SVII. Results of Cox regression sensitivity analysis examining the risk of mortality in patients with psoriasis^a

Variable	HR (95% CI)	<i>p</i> -value
Index year	0.98 (0.98–0.99)	< 0.0001
Women	0.64 (0.63–0.65)	< 0.0001
Age	1.10 (1.09–1.10)	< 0.0001
Psoriasis	1.27 (1.24–1.30)	< 0.0001

^a≥2 psoriasis diagnosis records (diagnosis is made by a dermatologist).

"Age" represents age at index date.

95% CI: 95% confidence interval; HR: hazard ratio.

p-values significant at the 0.05 level in **bold**.

Table SVIII. Results of Cox regression analysis examining the risk of mortality in patients with psoriatic arthritis^a

Variable	HR (95% CIs)	<i>p</i> -value
Index year	0.98 (0.96–0.99)	< 0.0001
Women	0.59 (0.56–0.63)	< 0.0001
Age	1.10 (1.09–1.10)	< 0.0001
PsA	0.92 (0.83–1.01)	0.0816

^a≥1 psoriatic arthritis diagnosis records (diagnosis is made by a dermatologist or a rheumatologist).

"Age" represents age at index date.

95% CI: 95% confidence interval; HR: hazard ratio.

p-values significant at the 0.05 level in **bold**.

Table SIX. Results of Cox regression sensitivity analysis examining the risk of mortality in patients with psoriatic arthritis^a

Variable	HR (95% CI)	<i>p</i> -value
Index year	0.98 (0.96–0.99)	< 0.0001
Women	0.58 (0.55–0.61)	< 0.0001
Age	1.09 (1.09–1.10)	< 0.0001
PsA	1.35 (1.25–1.45)	< 0.0001

^a≥2 psoriatic arthritis diagnosis records (diagnosis is made by a dermatologist or a rheumatologist).

"Age" represents age at index date.

95% CIs: 95% confidence interval; HR: hazard ratio.

p-values significant at the 0.05 level in **bold**.