

SUPPLEMENTARY TABLE S1. Disease, death and burden of dermatology by age group in China, 1990 and 2019.

Gender	Age group (years)	Year	Incidence		Prevalence		Deaths		DALYs		YLLs		YLDs	
			Number of cases	Rate (1/100,000)	Number of cases	Rate (1/100,000)	Number of cases	Rate (1/100,000)	Number of cases	Rate (1/100,000)	Number of person-years	Rate (1/100,000)	Number of person-years	Rate (1/100,000)
Males	<5	1990	32,185,307	52,822.33	12,446,246	20,426.70	595	0.98	352,964	579.28	52,332	85.89	300,632	493.40
		2019	22,821,916	52,018.74	9,343,445	21,296.82	39	0.09	224,187	511.00	3,442	7.84	220,746	503.15
		Increase (%)	-29.09	-1.52	-24.93	4.26	-93.41	-90.84	-36.48	-11.79	-93.42	-90.87	-26.57	1.98
	5-14	1990	46,641,768	43,379.00	25,830,822	24,023.86	90	0.08	689,316	641.10	7,118	6.62	682,199	634.48
		2019	33,977,464	43,792.57	19,720,010	25,416.55	12	0.02	516,009	665.07	975	1.26	515,034	663.81
		Increase (%)	-27.15	0.95	-23.66	5.80	-86.26	-80.95	-25.14	3.74	-86.30	-81.02	-24.50	4.62
	15-49	1990	172,392,977	49,905.84	79,640,815	23,055.13	591	0.17	1,860,206	538.51	31,983	9.26	1,828,222	529.25
		2019	184,562,889	49,932.36	86,400,134	23,375.03	263	0.07	1,908,765	516.40	13,158	3.56	1,895,608	512.85
		Increase (%)	7.06	0.05	8.49	1.39	-55.56	-58.47	2.61	-4.10	-58.86	-61.55	3.69	-3.10
	50-69	1990	45,531,610	57,064.45	18,849,289	23,623.68	689	0.86	439,177	550.42	20,305	25.45	418,872	524.97
		2019	106,742,919	57,856.45	45,210,305	24,504.74	562	0.30	954,303	517.25	16,356	8.87	937,948	508.38
		Increase (%)	134.44	1.39	139.85	3.73	-18.50	-64.75	117.29	-6.03	-19.45	-65.16	123.92	-3.16
≥70	1990	15,030,473	91,050.33	5,490,123	33,257.60	1,273	7.71	113,578	688.02	17,066	103.38	96,512	584.64	
	2019	47,123,087	95,701.01	17,266,705	35,066.49	1,737	3.53	307,152	623.79	21,108	42.87	286,044	580.92	
	Increase (%)	213.52	5.11	214.50	5.44	36.42	-54.27	170.43	-9.34	23.68	-58.53	196.38	-0.64	
Females	<5	1990	27,366,820	50,249.73	10,081,109	18,510.48	444	0.81	300,942	552.58	38,866	71.36	262,076	481.21
		2019	18,357,407	48,799.05	7,066,653	18,785.11	25	0.07	185,344	492.70	2,210	5.87	183,134	486.82
		Increase (%)	-32.92	-2.89	-29.90	1.48	-94.30	-91.74	-38.41	-10.84	-94.31	-91.77	-30.12	1.17
	5-14	1990	44,022,080	44,024.06	25,093,539	25,094.67	62	0.06	694,620	694.65	4,909	4.91	689,711	689.74

TABLE S1. (Continued)

Gender	Age group (years)	Year	Incidence		Prevalence		Deaths		DALYs		YLLs		YLDs	
			Number of cases	Rate (1/100,000)	Number of cases	Rate (1/100,000)	Number of cases	Rate (1/100,000)	Number of person-years	Rate (1/100,000)	Number of person-years	Rate (1/100,000)	Number of person-years	Rate (1/100,000)
	15-49	2019	29,675,277	45,167.98	17,752,601	27,020.78	8	0.01	486,051	739.81	666	1.01	485,386	738.79
		Increase (%)	-32.59	2.60	-29.25	7.68	-86.42	-79.33	-30.03	6.50	-86.44	-79.36	-29.62	7.11
	15-49	1990	160,120,328	49,569.05	85,476,708	26,461.35	346	0.11	2,171,382	672.20	19,057	5.90	2,152,324	666.30
		2019	175,139,182	49,883.08	93,905,959	26,746.26	112	0.03	2,277,382	648.64	5,654	1.61	2,271,728	647.03
		Increase (%)	9.38	0.63	9.86	1.08	-67.73	-70.31	4.88	-3.50	-70.33	-72.71	5.55	-2.89
	50-69	1990	43,031,108	57,944.37	19,434,464	26,169.85	476	0.64	421,056	566.98	13,649	18.38	407,407	548.60
		2019	108,384,018	58,780.94	50,233,993	27,243.88	351	0.19	1,012,801	549.28	9,985	5.42	1,002,817	543.87
		Increase (%)	151.87	1.44	158.48	4.10	-26.16	-70.26	140.54	-3.12	-26.84	-70.54	146.15	-0.86
	≥70	1990	20,187,095	92,812.64	7,780,960	35,773.91	1,815	8.34	159,175	731.83	21,687	99.71	137,488	632.12
		2019	57,611,102	98,103.27	22,227,585	37,850.32	2,284	3.89	392,706	668.72	23,472	39.97	369,234	628.75
		Increase (%)	185.39	5.70	185.67	5.80	25.81	-53.40	146.71	-8.62	8.23	-59.91	168.56	-0.53
Total	<5	1990	59,552,127	51,608.15	22,527,355	19,522.31	1,039	0.90	653,906	566.68	91,199	79.03	562,708	487.65
		2019	41,179,323	50,532.44	16,410,098	20,137.35	65	0.08	409,531	502.55	5,651	6.94	403,880	495.61
		Increase (%)	-30.85	-2.08	-27.15	3.15	-93.79	-91.20	-37.37	-11.32	-93.80	-91.23	-28.23	1.63
	5-14	1990	90,663,848	43,689.83	50,924,361	24,539.85	151	0.07	1,383,937	666.90	12,027	5.80	1,371,910	661.11
		2019	63,652,741	44,423.22	37,472,611	26,152.12	21	0.01	1,002,061	699.34	1,641	1.15	1,000,420	698.19
		Increase (%)	-29.79	1.68	-26.42	6.57	-86.32	-80.19	-27.59	4.86	-86.36	-80.24	-27.08	5.61
	15-49	1990	332,513,305	49,743.09	165,117,523	24,701.14	936	0.14	4,031,587	603.11	51,041	7.64	3,980,547	595.48
		2019	359,702,071	49,908.36	180,306,093	25,017.32	374	0.05	4,186,147	580.82	18,812	2.61	4,167,336	578.21
		Increase (%)	8.18	0.33	9.20	1.28	-60.05	-62.95	3.83	-3.70	-63.14	-65.82	4.69	-2.90

TABLE S1. (Continued)

Gender	Age group (years)	Year	Incidence		Prevalence		Deaths		DALYs		YLLs		YLDs	
			Number of cases	Rate (1/100,000)	Number of cases	Rate (1/100,000)	Number of cases	Rate (1/100,000)	Number of person-years	Rate (1/100,000)	Number of person-years	Rate (1/100,000)	Number of person-years	Rate (1/100,000)
	50-69	1990	88,562,718	57,488.63	38,283,753	24,851.09	1,165	0.76	860,233	558.40	33,954	22.04	826,279	536.36
		2019	215,126,937	58,318.56	95,444,298	25,873.90	913	0.25	1,967,105	533.26	26,341	7.14	1,940,764	526.12
		Increase (%)	142.91	1.44	149.31	4.12	-21.63	-67.27	128.67	-4.50	-22.42	-67.60	134.88	-1.91
	≥70	1990	35,217,567	92,052.23	13,271,082	34,688.16	3,088	8.07	272,753	712.93	38,753	101.29	234,001	611.63
		2019	104,734,189	97,007.66	39,494,290	36,580.69	4,020	3.72	699,858	648.23	44,580	41.29	655,278	606.94
		Increase (%)	197.39	5.38	197.60	5.46	30.19	-53.87	156.59	-9.08	15.04	-59.24	180.03	-0.77

Note: Percentage change (%) was calculated as the difference value between 2019 and 1990 divided by the amount in 1990.
Abbreviations: DALYs=disability-adjusted life years; YLLs=years of life lost; YLDs=years lived with disability.

SUPPLEMENTARY TABLE S2. Disease burden by age group and skin disease in China, 1990 and 2019.

Age group (years)	Name of disease	DALYs		DALY rate		YLLs		YLL rate		YLDs		YLD rate	
		1990	2019	1990	2019	1990	2019	1990	2019	1990	2019	1990	2019
<5	Viral skin diseases	145,832	105,866	126.38	129.91	-	-	-	-	145,832	105,866	126.38	129.91
	Scabies	145,518	101,351	126.11	124.37	-	-	-	-	145,518	101,351	126.11	124.37
	Dermatitis	123,694	90,382	107.19	110.91	-	-	-	-	123,694	90,382	107.19	110.91
	Urticaria	71,845	51,083	62.26	62.69	-	-	-	-	71,845	51,083	62.26	62.69
	Other skin diseases	41,791	33,286	36.22	40.85	2,373	1,256	2.06	1.54	39,418	32,030	34.16	39.31
5-14	Viral skin diseases	342,676	238,625	165.13	166.54	-	-	-	-	342,676	238,625	165.13	166.54
	Acne vulgaris	250,397	232,490	120.66	162.25	-	-	-	-	250,397	232,490	120.66	162.25
	Dermatitis	252,691	174,975	121.77	122.12	-	-	-	-	252,691	174,975	121.77	122.12
	Scabies	258,973	174,780	124.80	121.98	-	-	-	-	258,973	174,780	124.80	121.98
	Urticaria	113,030	77,519	54.47	54.10	-	-	-	-	113,030	77,519	54.47	54.10
15-49	Dermatitis	932,108	1,064,399	139.44	147.68	-	-	-	-	932,108	1,064,399	139.44	147.68
	Scabies	841,859	815,752	125.94	113.18	-	-	-	-	841,859	815,752	125.94	113.18
	Acne vulgaris	622,315	640,193	93.10	88.83	-	-	-	-	622,315	640,193	93.10	88.83
	Viral skin diseases	434,253	423,647	64.96	58.78	-	-	-	-	434,253	423,647	64.96	58.78
	Psoriasis	322,404	299,176	48.23	41.51	-	-	-	-	322,404	299,176	48.23	41.51
50-69	Dermatitis	263,624	636,608	171.13	172.58	-	-	-	-	263,624	636,608	171.13	172.58
	Scabies	119,613	282,625	77.64	76.62	-	-	-	-	119,613	282,625	77.64	76.62
	Psoriasis	143,758	260,602	93.32	70.65	-	-	-	-	143,758	260,602	93.32	70.65
	Other skin diseases	68,987	193,016	44.78	52.32	1,381	2,459	0.90	0.67	67,606	190,557	43.89	51.66
	Viral skin diseases	76,616	182,333	49.73	49.43	-	-	-	-	76,616	182,333	49.73	49.43
≥70	Dermatitis	72,207	202,583	188.74	187.64	-	-	-	-	72,207	202,583	188.74	187.64
	Scabies	31,093	88,233	81.27	81.72	-	-	-	-	31,093	88,233	81.27	81.72
	Fungal skin diseases	28,945	86,131	75.66	79.78	-	-	-	-	28,945	86,131	75.66	79.78
	Psoriasis	34,727	73,871	90.77	68.42	-	-	-	-	34,727	73,871	90.77	68.42
	Other skin diseases	22,861	72,807	59.75	67.44	1,824	3,179	4.77	2.94	21,037	69,628	54.99	64.49

Abbreviations: DALYs=disability-adjusted life years; YLLs=years of life lost; YLDs=years lived with disability.