

Content

Supplementary Tabel 1. The lexis diagram of GBD data for the APC model.....	2
Supplementary Tabel 2. All-age cases and age-standardized incidence, prevalence, DALY rates in 2021 for depressive disorders in China	3
Supplementary Table 3. APC model analysis of depressive disorders incidence among females, males and both sexes in China.....	4
Supplementary Table 4. APC model analysis of depressive disorders prevalence among females, males and both sexes in China.....	6
Supplementary Table 5. APC model analysis of depressive disorders DALYs among females, males and both sexes in China.....	8
Supplementary Figure 1. Incidence rates of depressive disorders in China	10
Supplementary Figure 2. Prevalence rates of depressive disorders in China	11
Supplementary Figure 3. DALY rates of depressive disorders in China.....	12
Supplementary Figure 4. Prediction of depressive disorders incidence among different sexes and age groups in China from 2022 to 2030 based on the Bayesian age-period-cohort model.....	13

Supplementary Tabel 1. The lexis diagram of GBD data for the APC model

Cohort group		Period group					
		1992-1996 (1994)	1997-2001 (1999)	2002-2006 (2004)	2007-2011 (2009)	2012-2016 (2014)	2017-2021 (2019)
Age group	5-9	1985-1989	1990-1994	1995-1999	2000-2004	2005-2009	2010-2014
	10-14	1980-1984	1985-1989	1990-1994	1995-1999	2000-2004	2005-2009
	15-19	1975-1979	1980-1984	1985-1989	1990-1994	1995-1999	2000-2004
	20-24	1970-1974	1975-1979	1980-1984	1985-1989	1990-1994	1995-1999
	25-29	1965-1969	1970-1974	1975-1979	1980-1984	1985-1989	1990-1994
	30-34	1960-1964	1965-1969	1970-1974	1975-1979	1980-1984	1985-1989
	35-39	1955-1959	1960-1964	1965-1969	1970-1974	1975-1979	1980-1984
	40-44	1950-1954	1955-1959	1960-1964	1965-1969	1970-1974	1975-1979
	45-49	1945-1949	1950-1954	1955-1959	1960-1964	1965-1969	1970-1974
	50-54	1940-1944	1945-1949	1950-1954	1955-1959	1960-1964	1965-1969
	55-59	1935-1939	1940-1944	1945-1949	1950-1954	1955-1959	1960-1964
	60-64	1930-1934	1935-1939	1940-1944	1945-1949	1950-1954	1955-1959
	65-69	1925-1929	1930-1934	1935-1939	1940-1944	1945-1949	1950-1954
	70-74	1920-1924	1925-1929	1930-1934	1935-1939	1940-1944	1945-1949
	75-79	1915-1919	1920-1924	1925-1929	1930-1934	1935-1939	1940-1944
	80-84	1910-1914	1915-1919	1920-1924	1925-1929	1930-1934	1935-1939
	85-89	1905-1909	1910-1914	1915-1919	1920-1924	1925-1929	1930-1934
	90-94	1900-1904	1905-1909	1910-1914	1915-1919	1920-1924	1925-1929

Supplementary Tabel 2. All-age cases and age-standardized incidence, prevalence, DALY rates in 2021 for depressive disorders in China

Measure	1990		2021	
	All-ages cases	Age-standardized rates per 100,000 people	All-ages cases	Age-standardized rates per 100,000 people
Incidence				
Both	30491036 (26775058 - 35440156)	2628.67 (2315.01 - 3014.83)	42360181 (36991764 - 49036060)	2345.08 (2070.08 - 2722.3)
Male	10775714 (9451462 - 12537294)	1838.07 (1625.99 - 2116.3)	15901978 (13835439 - 18437418)	1765.37 (1549.4 - 2048.61)
Female	19715322 (17252811 - 22870671)	3449.63 (3033.91 - 3956.08)	26458202 (23021065 - 30510795)	2934.55 (2587.88 - 3398.24)
Prevalence				
Both	34479390 (31145102 - 38431728)	3071.84 (2779.1 - 3404.49)	53114656 (47435176 - 59334613)	2875.68 (2589.96 - 3203.43)
Male	12935414 (11591163 - 14451662)	2277.12(2037.51 - 2538.67)	20610589 (18371775 - 23115572)	2222.58 (1992.07 - 2475.33)
Female	21543976 (19447809 - 24046534)	3900.99 (3528.46 - 4325.69)	32504067 (29097248 - 36150365)	3543.44 (3194.80 - 3960.41)
DALYs				
Both	5426669 (3756629 - 7330296)	473.32 (331.33 - 639.58)	7865943 (5560591 - 10696833)	430.61(305.24 - 586.21)
Male	1994352 (1381739 - 2689935)	343.83 (242.01 - 468.06)	3028508 (2136876 - 4116004)	330.60 (233.39 - 450.37)
Female	3432317 (2382223 - 4634670)	608.67 (425.43 - 818.52)	4837434 (3418220 - 6553138)	533.04 (378.22 - 723.93)

Supplementary Table 3. APC model analysis of depressive disorders incidence among females, males and both sexes in China

Group	Both		Male		Female	
	RR (95%CI)	p value	RR (95%CI)	p value	RR (95%CI)	p value
Age (years)						
5-9	0.059 (0.054 - 0.064)	<0.001	0.059 (0.054 - 0.065)	<0.001	0.06 (0.056 - 0.065)	<0.001
10-14	0.491 (0.477 - 0.504)	<0.001	0.453 (0.438 - 0.468)	<0.001	0.528 (0.516 - 0.541)	<0.001
15-19	1.032 (1.011 - 1.053)	0.003	1.015 (0.991 - 1.04)	0.221	1.062 (1.043 - 1.082)	<0.001
20-24	1.146 (1.124 - 1.168)	<0.001	1.188 (1.162 - 1.215)	<0.001	1.139 (1.119 - 1.158)	<0.001
25-29	1.021 (1.002 - 1.041)	0.029	1.081 (1.058 - 1.104)	<0.001	1.005 (0.988 - 1.022)	0.559
30-34	0.964 (0.947 - 0.982)	<0.001	1.014 (0.993 - 1.036)	0.192	0.954 (0.939 - 0.97)	<0.001
35-39	0.96 (0.943 - 0.977)	<0.001	0.981 (0.961 - 1.001)	0.060	0.97 (0.954 - 0.985)	<0.001
40-44	0.993 (0.977 - 1.01)	0.410	0.998 (0.979 - 1.017)	0.824	1.012 (0.997 - 1.028)	0.104
45-49	1.064 (1.047 - 1.081)	<0.001	1.061 (1.042 - 1.081)	<0.001	1.088 (1.073 - 1.104)	<0.001
50-54	1.142 (1.125 - 1.159)	<0.001	1.131 (1.112 - 1.15)	<0.001	1.171 (1.156 - 1.186)	<0.001
55-59	1.228 (1.211 - 1.245)	<0.001	1.209 (1.19 - 1.228)	<0.001	1.261 (1.245 - 1.276)	<0.001
60-64	1.305 (1.288 - 1.322)	<0.001	1.287 (1.268 - 1.307)	<0.001	1.335 (1.32 - 1.35)	<0.001
65-69	1.379 (1.362 - 1.396)	<0.001	1.37 (1.351 - 1.389)	<0.001	1.396 (1.381 - 1.412)	<0.001
70-74	1.465 (1.448 - 1.482)	<0.001	1.463 (1.444 - 1.483)	<0.001	1.466 (1.451 - 1.481)	<0.001
75-79	1.559 (1.542 - 1.577)	<0.001	1.561 (1.541 - 1.582)	<0.001	1.536 (1.52 - 1.552)	<0.001
80-84	1.643 (1.624 - 1.662)	<0.001	1.641 (1.619 - 1.663)	<0.001	1.58 (1.564 - 1.597)	<0.001
85-89	1.716 (1.695 - 1.737)	<0.001	1.701 (1.677 - 1.725)	<0.001	1.597 (1.58 - 1.615)	<0.001
90-94	1.803 (1.779 - 1.827)	<0.001	1.765 (1.738 - 1.793)	<0.001	1.617 (1.598 - 1.637)	<0.001
Period (year)						
1994	0.984 (0.977 - 0.992)	<0.001	0.989 (0.98 - 0.997)	0.011	0.986 (0.98 - 0.993)	<0.001
1999	0.942 (0.935 - 0.948)	<0.001	0.953 (0.945 - 0.961)	<0.001	0.938 (0.932 - 0.944)	<0.001
2004	0.955 (0.948 - 0.961)	<0.001	0.967 (0.96 - 0.975)	<0.001	0.946 (0.94 - 0.952)	<0.001
2009	0.965 (0.958 - 0.972)	<0.001	0.969 (0.961 - 0.977)	<0.001	0.96 (0.954 - 0.966)	<0.001
2014	1.061 (1.054 - 1.069)	<0.001	1.039 (1.03 - 1.047)	<0.001	1.073 (1.066 - 1.08)	<0.001
2019	1.104 (1.096 - 1.112)	<0.001	1.089 (1.08 - 1.099)	<0.001	1.11 (1.103 - 1.118)	<0.001
Cohort (year)						
1900-1904	1.317 (1.282 - 1.352)	<0.001	1.277 (1.237 - 1.317)	<0.001	1.306 (1.274 - 1.339)	<0.001
1905-1909	1.336 (1.309 - 1.363)	<0.001	1.3 (1.269 - 1.331)	<0.001	1.32 (1.295 - 1.345)	<0.001
1910-1914	1.333 (1.31 - 1.357)	<0.001	1.302 (1.276 - 1.328)	<0.001	1.314 (1.293 - 1.335)	<0.001
1915-1919	1.337 (1.316 - 1.358)	<0.001	1.321 (1.297 - 1.345)	<0.001	1.316 (1.297 - 1.335)	<0.001
1920-1924	1.317 (1.299 - 1.336)	<0.001	1.321 (1.299 - 1.344)	<0.001	1.3 (1.283 - 1.317)	<0.001
1925-1929	1.316 (1.298 - 1.334)	<0.001	1.335 (1.314 - 1.356)	<0.001	1.301 (1.285 - 1.317)	<0.001
1930-1934	1.333 (1.314 - 1.351)	<0.001	1.363 (1.342 - 1.386)	<0.001	1.32 (1.304 - 1.337)	<0.001
1935-1939	1.343 (1.324 - 1.363)	<0.001	1.386 (1.362 - 1.409)	<0.001	1.333 (1.315 - 1.35)	<0.001
1940-1944	1.347 (1.326 - 1.368)	<0.001	1.387 (1.362 - 1.412)	<0.001	1.335 (1.317 - 1.353)	<0.001
1945-1949	1.345 (1.323 - 1.367)	<0.001	1.378 (1.352 - 1.405)	<0.001	1.333 (1.314 - 1.353)	<0.001
1950-1954	1.324 (1.301 - 1.347)	<0.001	1.346 (1.32 - 1.374)	<0.001	1.309 (1.289 - 1.329)	<0.001
1955-1959	1.271 (1.248 - 1.294)	<0.001	1.285 (1.259 - 1.313)	<0.001	1.265 (1.245 - 1.286)	<0.001
1960-1964	1.2 (1.178 - 1.224)	<0.001	1.2 (1.173 - 1.227)	<0.001	1.2 (1.18 - 1.22)	<0.001

1965-1969	1.111 (1.089 - 1.133)	<0.001	1.099 (1.074 - 1.125)	<0.001	1.116 (1.097 - 1.136)	<0.001
1970-1974	1.002 (0.981 - 1.022)	0.876	0.984 (0.961 - 1.008)	0.196	1.014 (0.996 - 1.032)	0.138
1975-1979	0.88 (0.861 - 0.899)	<0.001	0.867 (0.846 - 0.888)	<0.001	0.887 (0.871 - 0.904)	<0.001
1980-1984	0.763 (0.746 - 0.78)	<0.001	0.764 (0.744 - 0.784)	<0.001	0.763 (0.748 - 0.778)	<0.001
1985-1989	0.69 (0.673 - 0.706)	<0.001	0.697 (0.678 - 0.717)	<0.001	0.685 (0.67 - 0.7)	<0.001
1990-1994	0.628 (0.611 - 0.645)	<0.001	0.636 (0.616 - 0.656)	<0.001	0.63 (0.615 - 0.645)	<0.001
1995-1999	0.574 (0.556 - 0.592)	<0.001	0.574 (0.554 - 0.595)	<0.001	0.585 (0.57 - 0.601)	<0.001
2000-2004	0.543 (0.522 - 0.564)	<0.001	0.537 (0.512 - 0.562)	<0.001	0.561 (0.543 - 0.58)	<0.001
2005-2009	0.535 (0.503 - 0.569)	<0.001	0.523 (0.485 - 0.564)	<0.001	0.553 (0.524 - 0.583)	<0.001
2010-2014	0.522 (0.425 - 0.641)	<0.001	0.519 (0.408 - 0.659)	<0.001	0.532 (0.444 - 0.637)	<0.001
Model fitting						
AIC	14.042		12.065		16.332	
BIC	66.165		-116.165		290.491	

Supplementary Table 4. APC model analysis of depressive disorders prevalence among females, males and both sexes in China

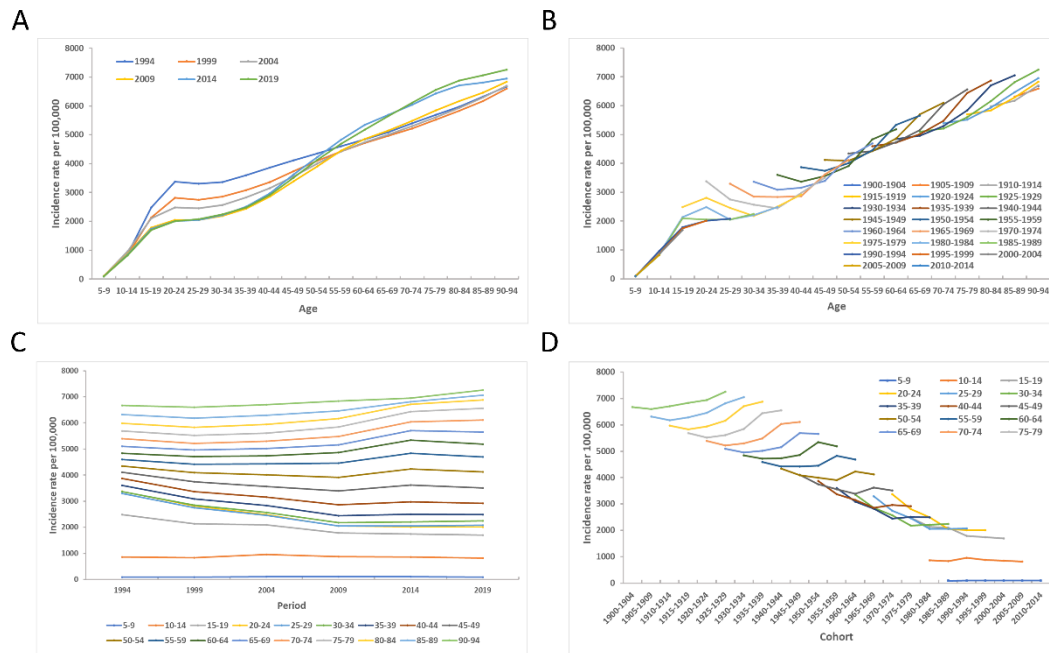
Group	Both		Male		Female	
	RR (95%CI)	p value	RR (95%CI)	p value	RR (95%CI)	p value
Age (years)						
5-9	0.034 (0.031 - 0.038)	<0.001	0.035 (0.032 - 0.039)	<0.001	0.035 (0.032 - 0.038)	<0.001
10-14	0.304 (0.294 - 0.314)	<0.001	0.284 (0.273 - 0.295)	<0.001	0.325 (0.315 - 0.334)	<0.001
15-19	0.78 (0.762 - 0.798)	<0.001	0.748 (0.728 - 0.769)	<0.001	0.815 (0.798 - 0.832)	<0.001
20-24	1.035 (1.014 - 1.056)	0.001	1.045 (1.02 - 1.07)	<0.001	1.044 (1.025 - 1.064)	<0.001
25-29	1.083 (1.062 - 1.105)	<0.001	1.109 (1.085 - 1.134)	<0.001	1.086 (1.068 - 1.105)	<0.001
30-34	1.145 (1.124 - 1.166)	<0.001	1.17 (1.145 - 1.194)	<0.001	1.152 (1.133 - 1.171)	<0.001
35-39	1.238 (1.217 - 1.26)	<0.001	1.243 (1.219 - 1.267)	<0.001	1.262 (1.243 - 1.281)	<0.001
40-44	1.339 (1.318 - 1.36)	<0.001	1.328 (1.304 - 1.352)	<0.001	1.373 (1.354 - 1.393)	<0.001
45-49	1.433 (1.412 - 1.454)	<0.001	1.422 (1.398 - 1.446)	<0.001	1.468 (1.449 - 1.488)	<0.001
50-54	1.507 (1.487 - 1.528)	<0.001	1.502 (1.479 - 1.526)	<0.001	1.537 (1.518 - 1.556)	<0.001
55-59	1.575 (1.555 - 1.595)	<0.001	1.58 (1.557 - 1.603)	<0.001	1.596 (1.578 - 1.615)	<0.001
60-64	1.625 (1.605 - 1.644)	<0.001	1.645 (1.623 - 1.667)	<0.001	1.633 (1.616 - 1.651)	<0.001
65-69	1.608 (1.59 - 1.626)	<0.001	1.637 (1.616 - 1.658)	<0.001	1.602 (1.586 - 1.618)	<0.001
70-74	1.553 (1.536 - 1.57)	<0.001	1.582 (1.562 - 1.601)	<0.001	1.535 (1.52 - 1.551)	<0.001
75-79	1.488 (1.471 - 1.504)	<0.001	1.508 (1.489 - 1.528)	<0.001	1.456 (1.441 - 1.471)	<0.001
80-84	1.428 (1.411 - 1.444)	<0.001	1.434 (1.415 - 1.453)	<0.001	1.373 (1.359 - 1.388)	<0.001
85-89	1.399 (1.382 - 1.416)	<0.001	1.39 (1.37 - 1.41)	<0.001	1.308 (1.293 - 1.322)	<0.001
90-94	1.41 (1.391 - 1.429)	<0.001	1.384 (1.362 - 1.406)	<0.001	1.274 (1.258 - 1.29)	<0.001
Period (year)						
1994	0.9130.9060.919	<0.001	0.922 (0.914 - 0.929)	<0.001	0.912 (0.906 - 0.918)	<0.001
1999	0.949 (0.943 - 0.955)	<0.001	0.951 (0.944 - 0.958)	<0.001	0.95 (0.945 - 0.956)	<0.001
2004	0.988 (0.982 - 0.994)	<0.001	0.988 (0.981 - 0.995)	0.001	0.986 (0.98 - 0.992)	<0.001
2009	1.014 (1.007 - 1.02)	<0.001	1.01 (1.003 - 1.017)	0.007	1.013 (1.007 - 1.019)	<0.001
2014	1.047 (1.04 - 1.054)	<0.001	1.039 (1.031 - 1.047)	<0.001	1.05 (1.044 - 1.057)	<0.001
2019	1.101 (1.093 - 1.108)	<0.001	1.1 (1.091 - 1.109)	<0.001	1.1 (1.093 - 1.106)	<0.001
Cohort (year)						
1900-1904	1.559 (1.517 - 1.603)	<0.001	1.551 (1.502 - 1.602)	<0.001	1.536 (1.496 - 1.576)	<0.001
1905-1909	1.5441.5111.577	<0.001	1.527 (1.49 - 1.565)	<0.001	1.515 (1.485 - 1.545)	<0.001
1910-1914	1.513 (1.486 - 1.541)	<0.001	1.491 (1.46 - 1.522)	<0.001	1.483 (1.458 - 1.507)	<0.001
1915-1919	1.487 (1.463 - 1.511)	<0.001	1.473 (1.445 - 1.501)	<0.001	1.459 (1.437 - 1.481)	<0.001
1920-1924	1.447 (1.425 - 1.469)	<0.001	1.45 (1.425 - 1.475)	<0.001	1.427 (1.407 - 1.447)	<0.001
1925-1929	1.413 (1.393 - 1.434)	<0.001	1.431 (1.407 - 1.454)	<0.001	1.398 (1.38 - 1.416)	<0.001
1930-1934	1.387 (1.367 - 1.408)	<0.001	1.413 (1.39 - 1.437)	<0.001	1.377 (1.359 - 1.395)	<0.001
1935-1939	1.352 (1.332 - 1.373)	<0.001	1.385 (1.361 - 1.41)	<0.001	1.344 (1.326 - 1.363)	<0.001
1940-1944	1.308 (1.288 - 1.329)	<0.001	1.338 (1.314 - 1.362)	<0.001	1.301 (1.283 - 1.32)	<0.001
1945-1949	1.261 (1.24 - 1.282)	<0.001	1.284 (1.26 - 1.309)	<0.001	1.254 (1.236 - 1.273)	<0.001
1950-1954	1.205 (1.184 - 1.226)	<0.001	1.219 (1.195 - 1.244)	<0.001	1.196 (1.177 - 1.215)	<0.001
1955-1959	1.133 (1.113 - 1.155)	<0.001	1.146 (1.122 - 1.17)	<0.001	1.129 (1.111 - 1.148)	<0.001
1960-1964	1.061 (1.041 - 1.082)	<0.001	1.067 (1.044 - 1.092)	<0.001	1.058 (1.039 - 1.076)	<0.001

1965-1969	0.986 (0.966 - 1.007)	0.184	0.988 (0.965 - 1.012)	0.326	0.983 (0.966 - 1.002)	0.073
1970-1974	0.904 (0.885 - 0.924)	<0.001	0.906 (0.883 - 0.928)	<0.001	0.905 (0.888 - 0.922)	<0.001
1975-1979	0.815 (0.797 - 0.834)	<0.001	0.818 (0.797 - 0.84)	<0.001	0.812 (0.796 - 0.829)	<0.001
1980-1984	0.73 (0.713 - 0.748)	<0.001	0.739 (0.719 - 0.76)	<0.001	0.725 (0.71 - 0.741)	<0.001
1985-1989	0.671 (0.654 - 0.689)	<0.001	0.679 (0.659 - 0.7)	<0.001	0.666 (0.651 - 0.682)	<0.001
1990-1994	0.62 (0.602 - 0.638)	<0.001	0.622 (0.601 - 0.643)	<0.001	0.624 (0.608 - 0.64)	<0.001
1995-1999	0.577 (0.558 - 0.597)	<0.001	0.569 (0.547 - 0.592)	<0.001	0.594 (0.576 - 0.612)	<0.001
2000-2004	0.551 (0.528 - 0.576)	<0.001	0.536 (0.509 - 0.564)	<0.001	0.576 (0.554 - 0.598)	<0.001
2005-2009	0.54 (0.502 - 0.582)	<0.001	0.519 (0.475 - 0.567)	<0.001	0.564 (0.529 - 0.601)	<0.001
2010-2014	0.53 (0.412 - 0.683)	<0.001	0.512 (0.383 - 0.685)	<0.001	0.55 (0.44 - 0.688)	<0.001
Model fitting						
AIC	13.796		11.855		16.035	
BIC	29.727		-150.937		249.793	

Supplementary Table 5. APC model analysis of depressive disorders DALYs among females, males and both sexes in China

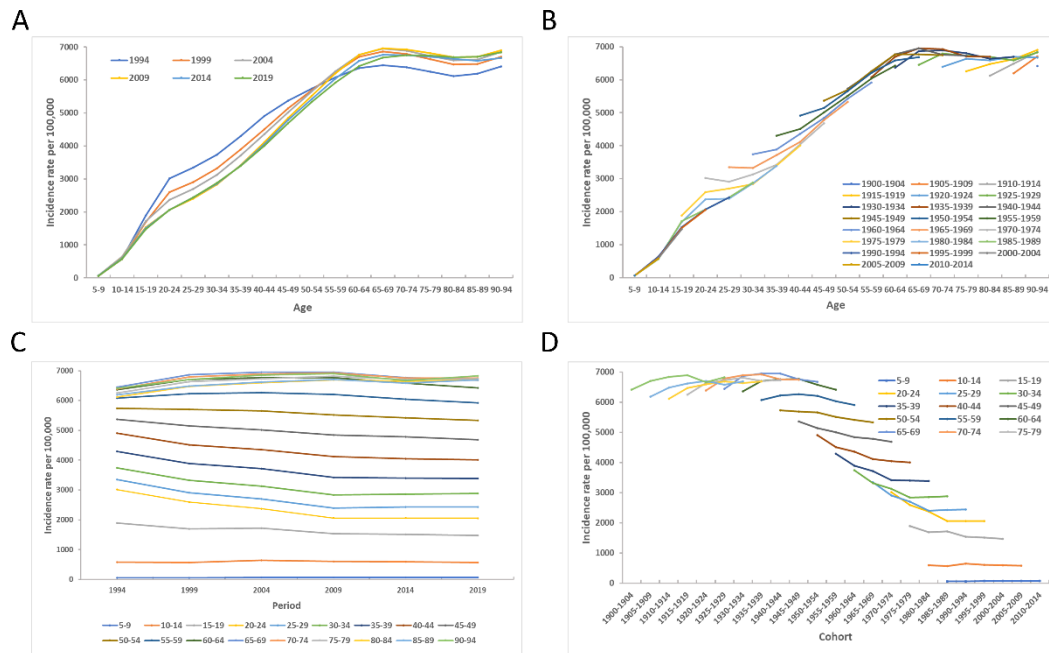
Group	Both		Male		Female	
	RR (95%CI)	p value	RR (95%CI)	p value	RR (95%CI)	p value
Age (years)						
5-9	0.04 (0.031 - 0.05)	<0.001	0.04 (0.031 - 0.052)	<0.001	0.04 (0.033 - 0.049)	<0.001
10-14	0.362 (0.335 - 0.391)	<0.001	0.335 (0.305 - 0.367)	<0.001	0.389 (0.364 - 0.416)	<0.001
15-19	0.913 (0.864 - 0.964)	0.001	0.877 (0.823 - 0.935)	<0.001	0.953 (0.908 - 1)	0.048
20-24	1.151 (1.096 - 1.209)	<0.001	1.174 (1.11 - 1.243)	<0.001	1.154 (1.104 - 1.206)	<0.001
25-29	1.117 (1.065 - 1.171)	<0.001	1.16 (1.099 - 1.225)	<0.001	1.11 (1.064 - 1.158)	<0.001
30-34	1.112 (1.063 - 1.164)	<0.001	1.155 (1.097 - 1.216)	<0.001	1.107 (1.063 - 1.153)	<0.001
35-39	1.158 (1.11 - 1.209)	<0.001	1.176 (1.119 - 1.234)	<0.001	1.172 (1.129 - 1.218)	<0.001
40-44	1.225 (1.177 - 1.275)	<0.001	1.223 (1.168 - 1.281)	<0.001	1.252 (1.208 - 1.297)	<0.001
45-49	1.311 (1.263 - 1.361)	<0.001	1.305 (1.25 - 1.362)	<0.001	1.341 (1.297 - 1.386)	<0.001
50-54	1.387 (1.34 - 1.437)	<0.001	1.378 (1.324 - 1.434)	<0.001	1.418 (1.375 - 1.463)	<0.001
55-59	1.458 (1.412 - 1.507)	<0.001	1.451 (1.398 - 1.506)	<0.001	1.486 (1.443 - 1.53)	<0.001
60-64	1.514 (1.469 - 1.561)	<0.001	1.515 (1.463 - 1.569)	<0.001	1.534 (1.492 - 1.577)	<0.001
65-69	1.518 (1.475 - 1.563)	<0.001	1.528 (1.478 - 1.579)	<0.001	1.523 (1.484 - 1.564)	<0.001
70-74	1.496 (1.454 - 1.539)	<0.001	1.509 (1.461 - 1.559)	<0.001	1.487 (1.449 - 1.525)	<0.001
75-79	1.466 (1.425 - 1.508)	<0.001	1.478 (1.43 - 1.527)	<0.001	1.439 (1.402 - 1.477)	<0.001
80-84	1.43 (1.389 - 1.473)	<0.001	1.433 (1.386 - 1.483)	<0.001	1.376 (1.34 - 1.414)	<0.001
85-89	1.404 (1.361 - 1.448)	<0.001	1.398 (1.348 - 1.449)	<0.001	1.31 (1.273 - 1.348)	<0.001
90-94	1.407 (1.359 - 1.456)	<0.001	1.394 (1.339 - 1.452)	<0.001	1.265 (1.225 - 1.307)	<0.001
Period (year)						
1994	0.949 (0.932 - 0.966)	<0.001	0.956 (0.937 - 0.976)	<0.001	0.949 (0.934 - 0.965)	<0.001
1999	0.949 (0.933 - 0.966)	<0.001	0.955 (0.937 - 0.974)	<0.001	0.948 (0.934 - 0.963)	<0.001
2004	0.975 (0.959 - 0.991)	0.003	0.981 (0.963 - 1)	0.046	0.97 (0.956 - 0.985)	<0.001
2009	0.991 (0.975 - 1.008)	0.302	0.991 (0.972 - 1.01)	0.343	0.989 (0.974 - 1.004)	0.137
2014	1.049 (1.032 - 1.067)	<0.001	1.035 (1.015 - 1.055)	0.001	1.056 (1.04 - 1.073)	<0.001
2019	1.095 (1.076 - 1.114)	<0.001	1.088 (1.066 - 1.111)	<0.001	1.097 (1.08 - 1.115)	<0.001
Cohort (year)						
1900-1904	1.425 (1.327 - 1.531)	<0.001	1.401 (1.29 - 1.522)	<0.001	1.408 (1.317 - 1.506)	<0.001
1905-1909	1.426 (1.351 - 1.505)	<0.001	1.401 (1.317 - 1.492)	<0.001	1.403 (1.335 - 1.475)	<0.001
1910-1914	1.411 (1.348 - 1.478)	<0.001	1.387 (1.315 - 1.463)	<0.001	1.386 (1.328 - 1.446)	<0.001
1915-1919	1.403 (1.347 - 1.462)	<0.001	1.39 (1.326 - 1.458)	<0.001	1.378 (1.327 - 1.431)	<0.001
1920-1924	1.378 (1.326 - 1.431)	<0.001	1.383 (1.324 - 1.445)	<0.001	1.358 (1.312 - 1.406)	<0.001
1925-1929	1.362 (1.314 - 1.412)	<0.001	1.383 (1.327 - 1.441)	<0.001	1.346 (1.302 - 1.39)	<0.001
1930-1934	1.358 (1.309 - 1.409)	<0.001	1.388 (1.331 - 1.448)	<0.001	1.346 (1.302 - 1.391)	<0.001
1935-1939	1.346 (1.295 - 1.398)	<0.001	1.384 (1.325 - 1.446)	<0.001	1.335 (1.291 - 1.382)	<0.001
1940-1944	1.324 (1.272 - 1.377)	<0.001	1.358 (1.298 - 1.421)	<0.001	1.314 (1.268 - 1.361)	<0.001
1945-1949	1.296 (1.243 - 1.351)	<0.001	1.323 (1.261 - 1.388)	<0.001	1.287 (1.24 - 1.336)	<0.001
1950-1954	1.254 (1.201 - 1.31)	<0.001	1.272 (1.21 - 1.337)	<0.001	1.243 (1.195 - 1.292)	<0.001
1955-1959	1.19 (1.136 - 1.246)	<0.001	1.203 (1.141 - 1.269)	<0.001	1.185 (1.138 - 1.235)	<0.001
1960-1964	1.12 (1.067 - 1.176)	<0.001	1.123 (1.063 - 1.188)	<0.001	1.118 (1.071 - 1.167)	<0.001

1965-1969	1.04 (0.989 - 1.094)	0.129	1.036 (0.977 - 1.098)	0.234	1.041 (0.995 - 1.089)	0.081
1970-1974	0.949 (0.9 - 1)	0.049	0.942 (0.886 - 1.001)	0.052	0.954 (0.911 - 1)	0.049
1975-1979	0.845 (0.8 - 0.892)	<0.001	0.841 (0.789 - 0.896)	<0.001	0.846 (0.806 - 0.889)	<0.001
1980-1984	0.748 (0.705 - 0.793)	<0.001	0.753 (0.704 - 0.805)	<0.001	0.745 (0.707 - 0.784)	<0.001
1985-1989	0.684 (0.642 - 0.729)	<0.001	0.692 (0.643 - 0.744)	<0.001	0.679 (0.642 - 0.718)	<0.001
1990-1994	0.628 (0.585 - 0.673)	<0.001	0.631 (0.582 - 0.685)	<0.001	0.631 (0.593 - 0.672)	<0.001
1995-1999	0.581 (0.536 - 0.63)	<0.001	0.575 (0.523 - 0.632)	<0.001	0.597 (0.556 - 0.641)	<0.001
2000-2004	0.556 (0.502 - 0.616)	<0.001	0.543 (0.48 - 0.614)	<0.001	0.579 (0.529 - 0.633)	<0.001
2005-2009	0.546 (0.459 - 0.65)	<0.001	0.529 (0.429 - 0.652)	<0.001	0.568 (0.489 - 0.659)	<0.001
2010-2014	0.535 (0.293 - 0.976)	0.042	0.523 (0.261 - 1.049)	0.068	0.55 (0.323 - 0.935)	0.027
Model fitting						
AIC	9.380		8.840		9.914	
BIC	-245.395		-274.380		-209.714	



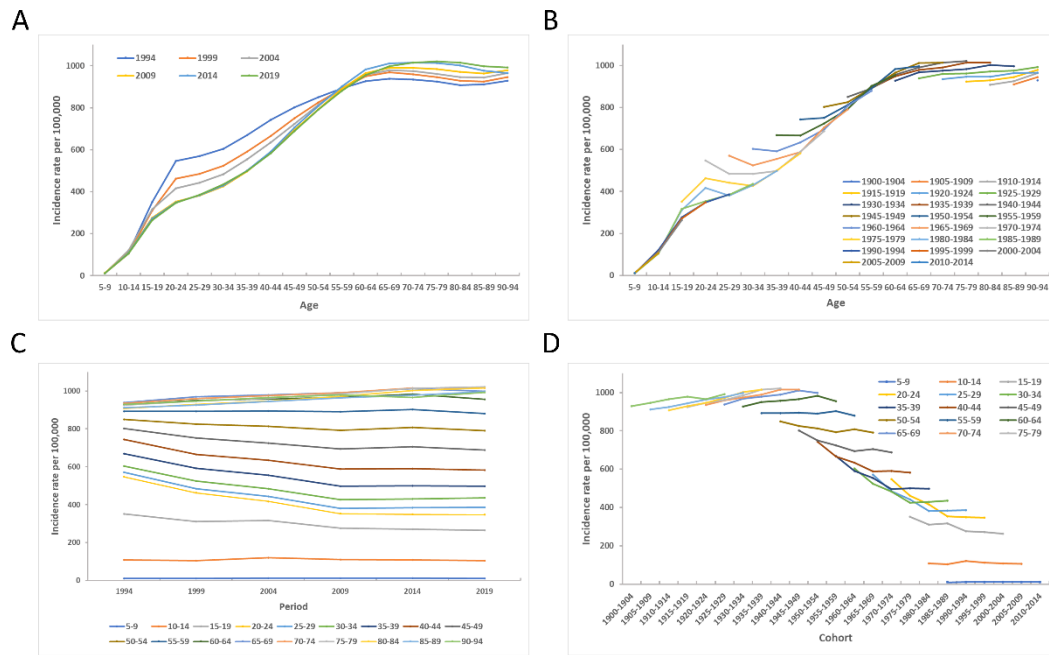
Supplementary Figure 1. Incidence rates of depressive disorders in China

(A) The age-specific incidence rates of depressive disorders according to time periods; each line connects the age-specific incidence for a 5-year period. (B) The age-specific incidence rates of depressive disorders according to cohorts; each line connects the age-specific incidence for a 5-year cohort. (C) The period-specific incidence rates of depressive disorders according to age group; each line connects the cohort-specific incidence for a 5-year age group. (D) The cohort-specific incidence rates of depressive disorders according to age groups; each line connects the cohort-specific incidence for a 5-year age group.



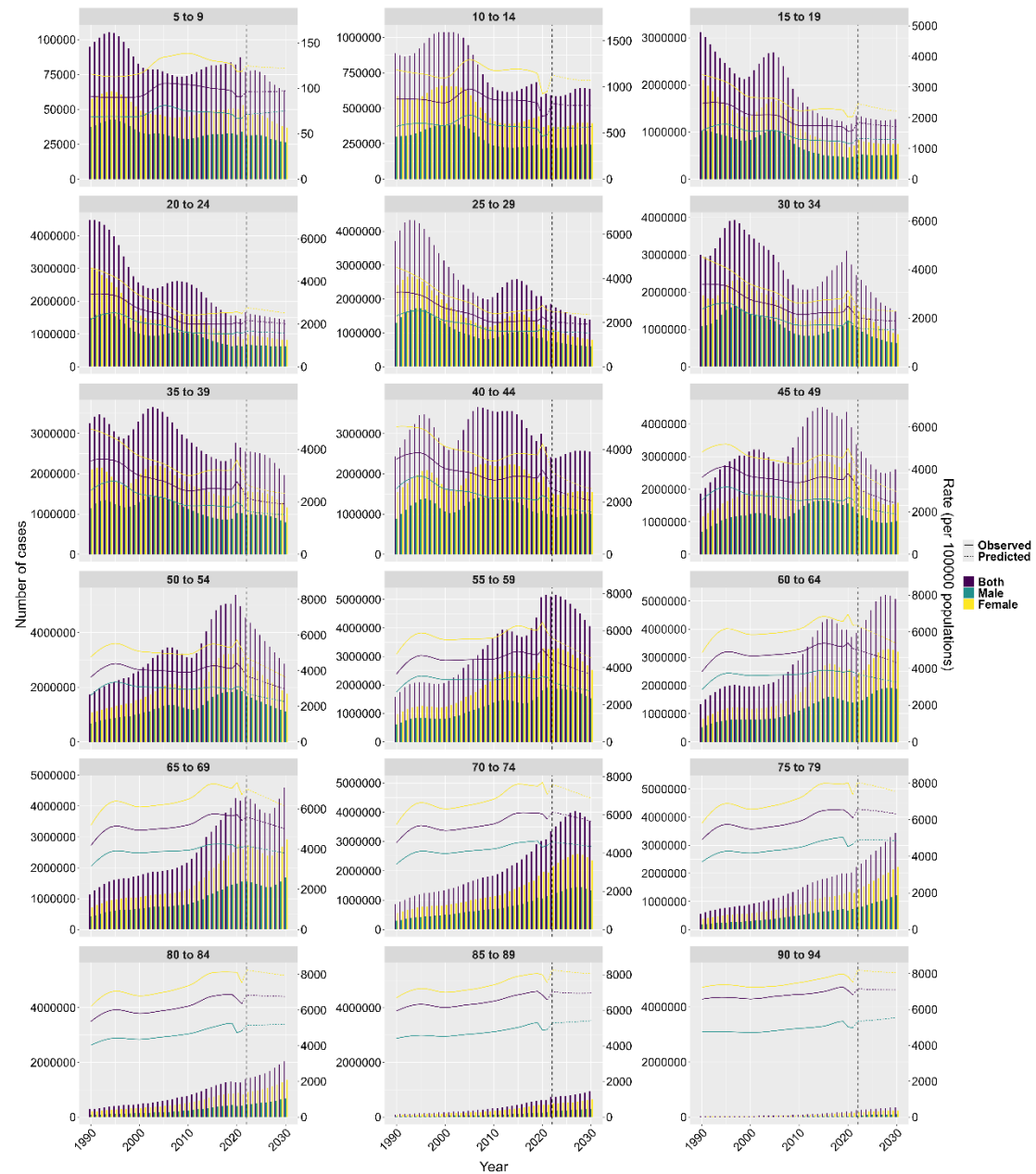
Supplementary Figure 2. Prevalence rates of depressive disorders in China

(A) The age-specific prevalence rates of depressive disorders according to time periods; each line connects the age-specific prevalence for a 5-year period. (B) The age-specific prevalence rates of depressive disorders according to cohorts; each line connects the age-specific prevalence for a 5-year cohort. (C) The period-specific prevalence rates of depressive disorders according to age group; each line connects the cohort-specific prevalence for a 5-year age group. (D) The cohort-specific prevalence rates of depressive disorders according to age groups; each line connects the cohort-specific prevalence for a 5-year age group.



Supplementary Figure 3. DALY rates of depressive disorders in China

(A) The age-specific DALY rates of depressive disorders according to time periods; each line connects the age-specific DALY for a 5-year period. (B) The age-specific DALY rates of depressive disorders according to cohorts; each line connects the age-specific DALY for a 5-year cohort. (C) The period-specific DALY rates of depressive disorders according to age group; each line connects the cohort-specific DALY rates for a 5-year age group. (D) The cohort-specific DALY rates of depressive disorders according to age groups; each line connects the cohort-specific DALY rates for a 5-year age group.



Supplementary Figure 4. Prediction of depressive disorders incidence among different sexes and age groups in China from 2022 to 2030 based on the Bayesian age-period-cohort model