



Figure S1 Distribution and population density of 188 cancer registries.

Table S1 Indicators of data quality by area and sex for the 188 cancer registries in China

Areas	Sex	MV%	DCO%	M/I	Unknown subtype%
All areas	Total	37.5	3.3	0.9	50.8
	Male	38.1	3.1	0.9	50.5
	Female	35.9	3.9	0.9	51.5
Urban areas	Total	37.2	3.7	0.9	52.4
	Male	37.6	3.5	0.9	52.4
	Female	36.1	4.2	0.9	52.1
Rural areas	Total	37.8	3.0	0.9	49.5
	Male	38.5	2.7	0.9	49.0
	Female	35.7	3.7	0.9	51.1

MV%, the percentage of cases morphologically verified; DCO%, the percentage of death certificate-only cases; M/I, mortality to incidence ratio; Unknown subtype %, the percentage of cancer with unknown subtype.

Table S2 Estimated incidence rate of HCC in China overall, by sex and age group between 2006–2010 and 2011–2015

Group	2006–2010		2011–2015	
	Crude rate (per 100,000)	ASR World (per 100,000)	Crude rate (per 100,000)	ASR World (per 100,000)
Total	21.7	14.0	20.5	11.4
Sex				
Male	33.2	22.2	31.7	18.3
Female	10.0	6.0	9.2	4.7
Age group				
0–14	0.14	–	0.07	–
15–24	0.4	–	0.3	–
25–34	2.7	–	1.8	–
35–44	12.5	–	9.7	–
45–54	30.5	–	24.7	–
55–64	47.5	–	40.2	–
≥65	72.5	–	60.8	–

ASR world, age-standardized incidence rates based on world segi's standard population.

Table S3 Estimated incidence rate of ICC in China overall and by sex between 2006–2010 and 2011–2015

Group	2006–2010		2011–2015	
	Crude rate (per 100,000)	ASR World (per 100,000)	Crude rate (per 100,000)	ASR World (per 100,000)
Total	3.4	2.0	4.5	2.2
Male	3.7	2.4	5.1	2.7
Female	3.1	1.7	3.8	1.7

ASR world, age-standardized incidence rates based on world segi's standard population.

Table S4 Trend analysis for incidence of HCC and ICC using dataset with known subtype in China, 2006–2015

Type	Group	Segment1	APC (95% CI)	Segment2	APC (95% CI)	AAPC (95% CI)	
HCC	Total	2006–2015	-3.9* (-4.7, -3.0)			-3.9* (-4.7, -3.0)	
	Age group						
	0–14	2006–2015	-18.3* (-30.0, -4.7)			-18.3* (-30.0, -4.7)	
	15–24	2006–2015	-9.2 (-18.5, 1.3)			-9.2 (-18.5, 1.3)	
	25–34	2006–2015	-8.9* (-11.0, -6.7)			-8.9* (-11.0, -6.7)	
	35–44	2006–2015	-3.9* (-5.9, -1.9)			-3.9* (-5.9, -1.9)	
	45–54	2006–2015	-4.8* (-5.9, -3.6)			-4.8* (-5.9, -3.6)	
	55–64	2006–2015	-3.2* (-4.1, -2.2)			-3.2* (-4.1, -2.2)	
	≥65	2006–2015	-3.1* (-4.3, -1.7)			-3.1* (-4.3, -1.7)	
	Sex						
	Male	2006–2015	-4.0* (-4.7, -3.2)			-4.0* (-4.7, -3.2)	
	Female	2006–2008	4.9 (-11.7, 24.5)	2008–2015	-4.8* (-7.0, -2.6)	-2.7 (-5.8, 0.4)	
	Area						
	Urban	2006–2015	-3.9* (-5.0, -2.9)			-3.9* (-5.0, -2.9)	
Rural	2006–2015	-4.0* (-7.0, -0.9)			-4.0* (-7.0, -0.9)		
ICC	Total	2006–2015	3.1* (0.2, 6.1)			3.1* (0.2, 6.1)	
	Age group						
	0–44	2006–2015	2.3 (-3.5, 8.5)			2.3 (-3.5, 8.5)	
	45–54	2006–2015	1.9 (-2.9, 6.9)			1.9 (-2.9, 6.9)	
	55–64	2006–2015	3.4* (0.5, 6.3)			3.4* (0.5, 6.3)	
	≥65	2006–2015	3.8* (1.1, 6.7)			3.8* (1.1, 6.7)	
	Sex						
	Male	2006–2015	3.9* (0.6, 7.2)			3.9* (0.6, 7.2)	
	Female	2006–2015	2.1 (-0.5, 4.7)			2.1 (-0.5, 4.7)	
	Area						
Urban	2006–2015	2.8 (-0.4, 6.0)			2.8 (-0.4, 6.0)		
Rural	2006–2015	5.8 (-1.8, 13.9)			5.8 (-1.8, 13.9)		

*, The APC or AAPC is significantly different from zero ($P < 0.05$). HCC, hepatocellular carcinoma; ICC, intrahepatic cholangiocarcinoma; APC, annual percentage change; AAPC, average annual percentage change.