

BMJ open, **Spatiotemporal distribution characteristics and impact factors of hepatitis C in Chongqing, China, 2014-2020**, Saijuan Chen, Qiuting Wang, Yunyi An, Ying Chen, Hua Liu, Weijie Tan, Xinyun Zhou, Dianguo Xing, and Yan Zhang

Supplementary Material

Supplementary Table S1 Information on each region of Chongqing

Variable	Chongqing	Main	New urban	The northeast	The southeast
GDP per capita (1000 yuan)	57.31	89.69	60.98	36.93	38.76
Disposable income of urban residents (1000 yuan)	31.85	36.40	32.72	28.72	29.00
Population density (thousand people/km ²)	60.37	91.70	59.50	44.53	44.14
Urbanization rate (%)	1418.93	4859.49	515.46	276.41	159.67
The proportion of tertiary industry (%)	70.58	80.78	62.21	60.91	63.18
Number of beds in health institutions per 1,000 population (pcs)	6.60	9.05	5.83	5.66	6.22
Health expenditure (billion yuan)	8.06	6.64	9.73	8.67	5.72

Supplementary Table S2 Occupational distribution of hepatitis C patients in Chongqing from 2014 to 2020

Occupation	n	%
Peasants	11294	33.32
Housekeeping and Pending work	10518	31.03
Retirees	2610	7.70
Workers	1758	5.19
Others	7720	22.77

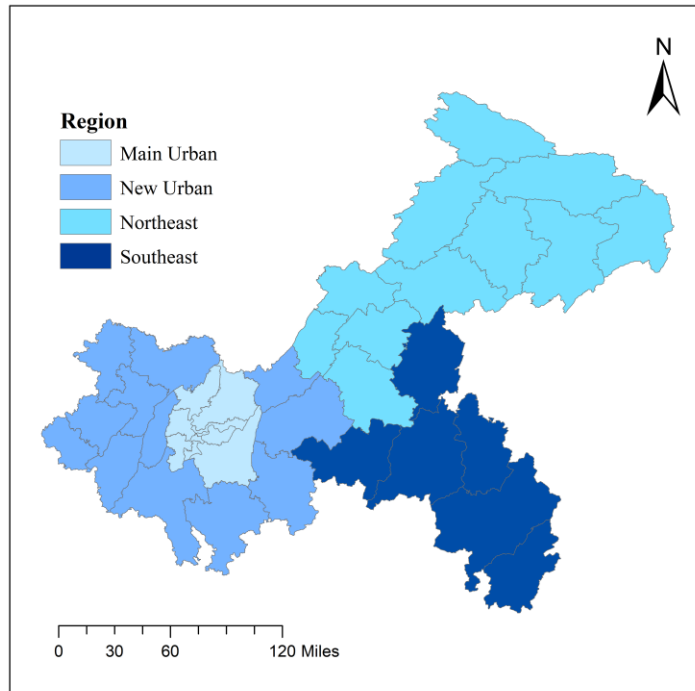
Supplementary Table S3 Global spatial autocorrelation results of hepatitis C

prevalence in Chongqing from 2014 to 2020

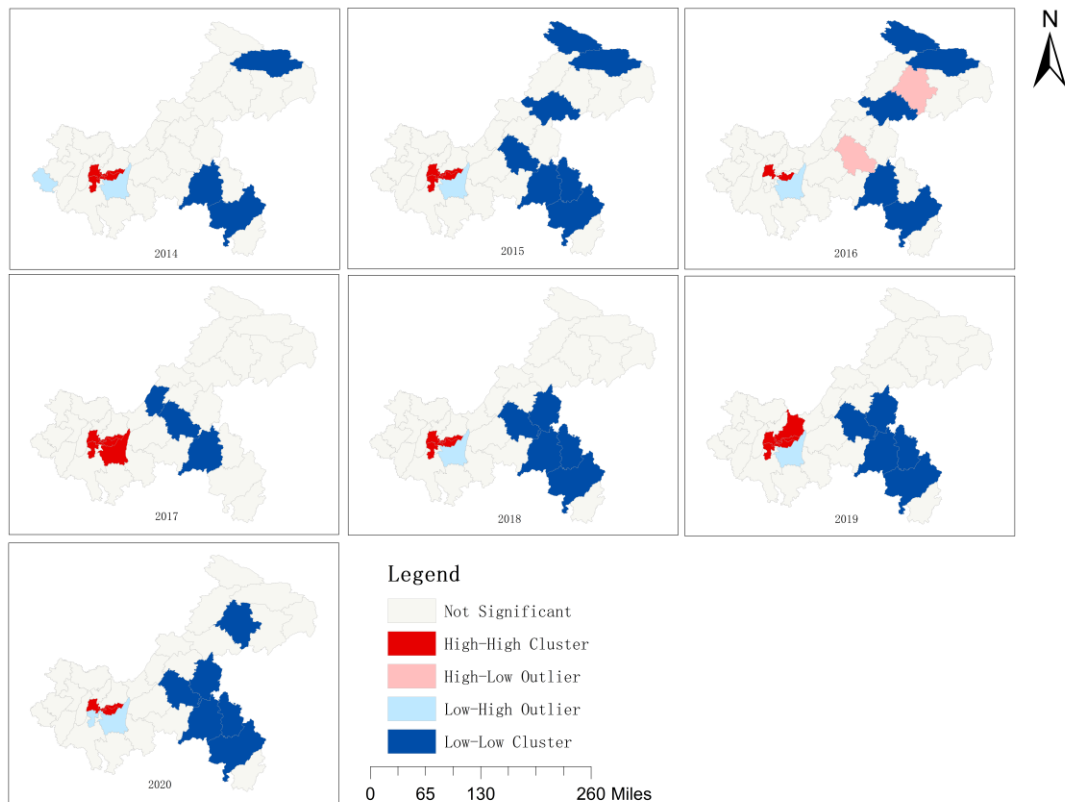
Year	Moran 's I	Z	P	E[I]	SD
2014	0.2707	2.7944	0.0052	-0.0270	0.0113
2015	0.3410	3.5183	0.0004	-0.0270	0.0109
2016	0.3101	3.1051	0.0019	-0.0270	0.0118
2017	0.4104	4.1677	0.0000	-0.0270	0.0110
2018	0.4339	4.3721	0.0000	-0.0270	0.0112
2019	0.3823	3.8962	0.0001	-0.0270	0.0110
2020	0.3347	3.7075	0.0002	-0.0270	0.0095

Supplementary Table S4 Comparison of the goodness of fit of three models

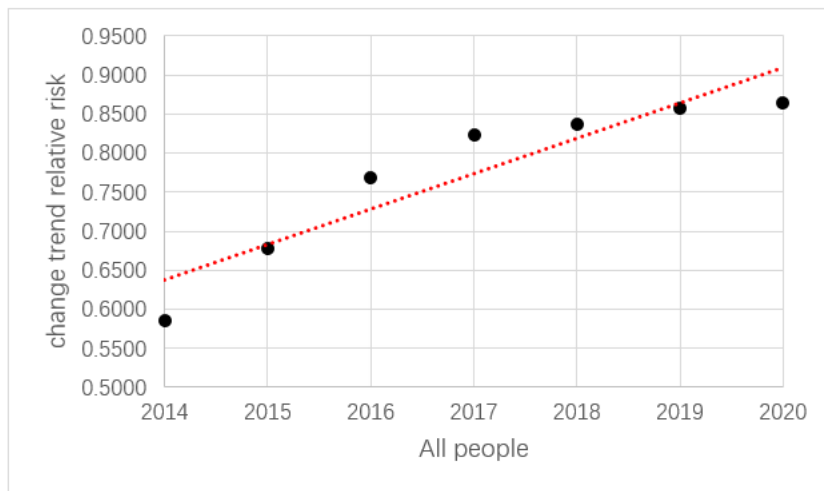
Model form	Expression	DIC value
Spatial effect model	$\alpha_0 + u_i + v_i$	4418.06
Space-time effect model	$\alpha_0 + u_i + v_i + \Phi_t$	4412.38
Spatiotemporal interaction effect model	$\alpha_0 + u_i + v_i + \Phi_t + \delta_{it}$	2170.49



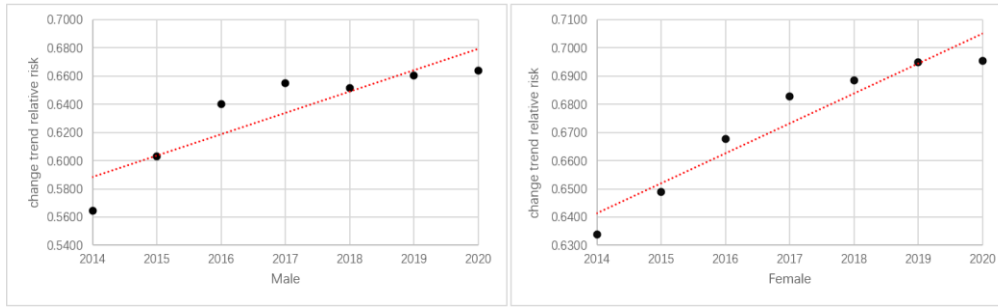
Supplementary Figure 1 Regional distribution of Chongqing



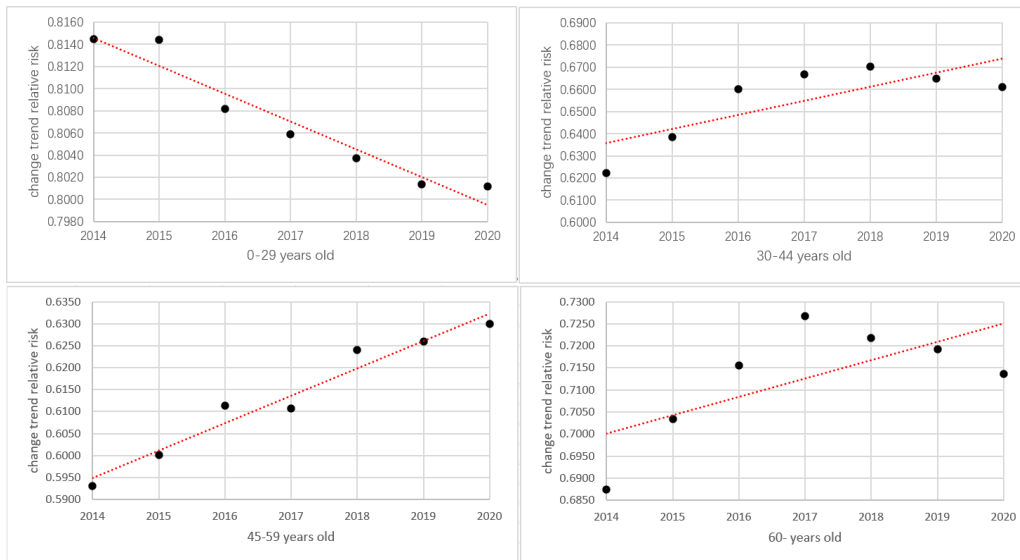
Supplementary Figure 2 Spatial distribution of hepatitis C incidence in Chongqing, 2014–2020



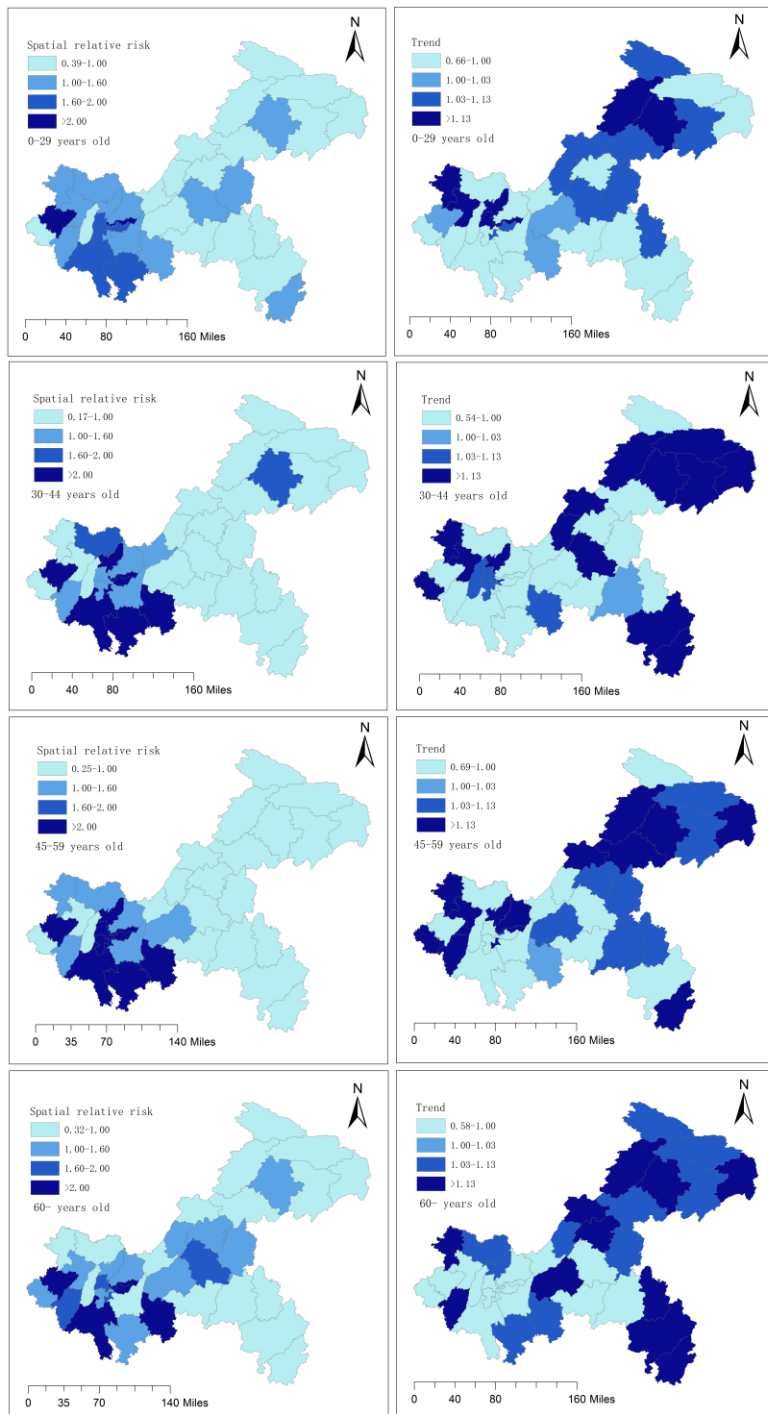
Supplementary Figure 3 Annually temporal RR $\exp(\Phi_t)$ in Chongqing from 2014 to 2020. $\exp(\Phi_t)$ described the overall time trend common to all districts/counties.



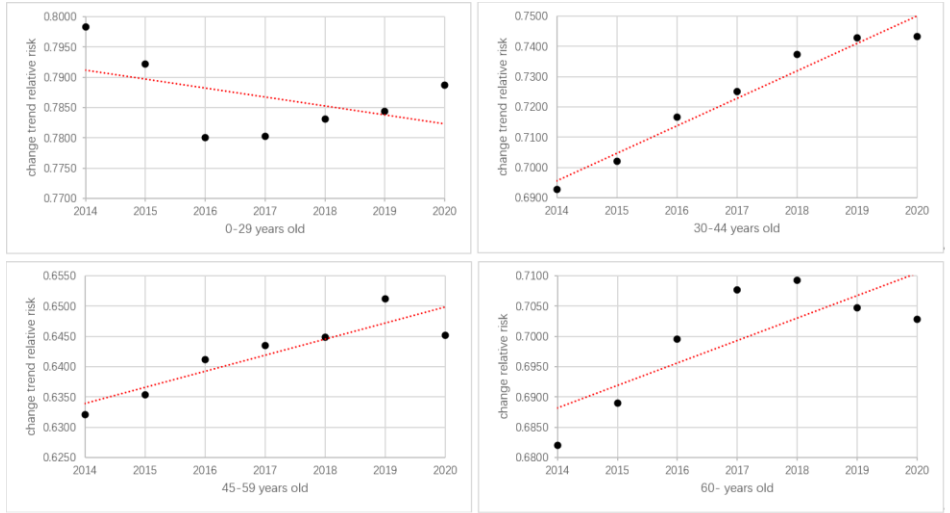
Supplementary Figure 4 Annually temporal RR among different genders in Chongqing from 2014 to 2020



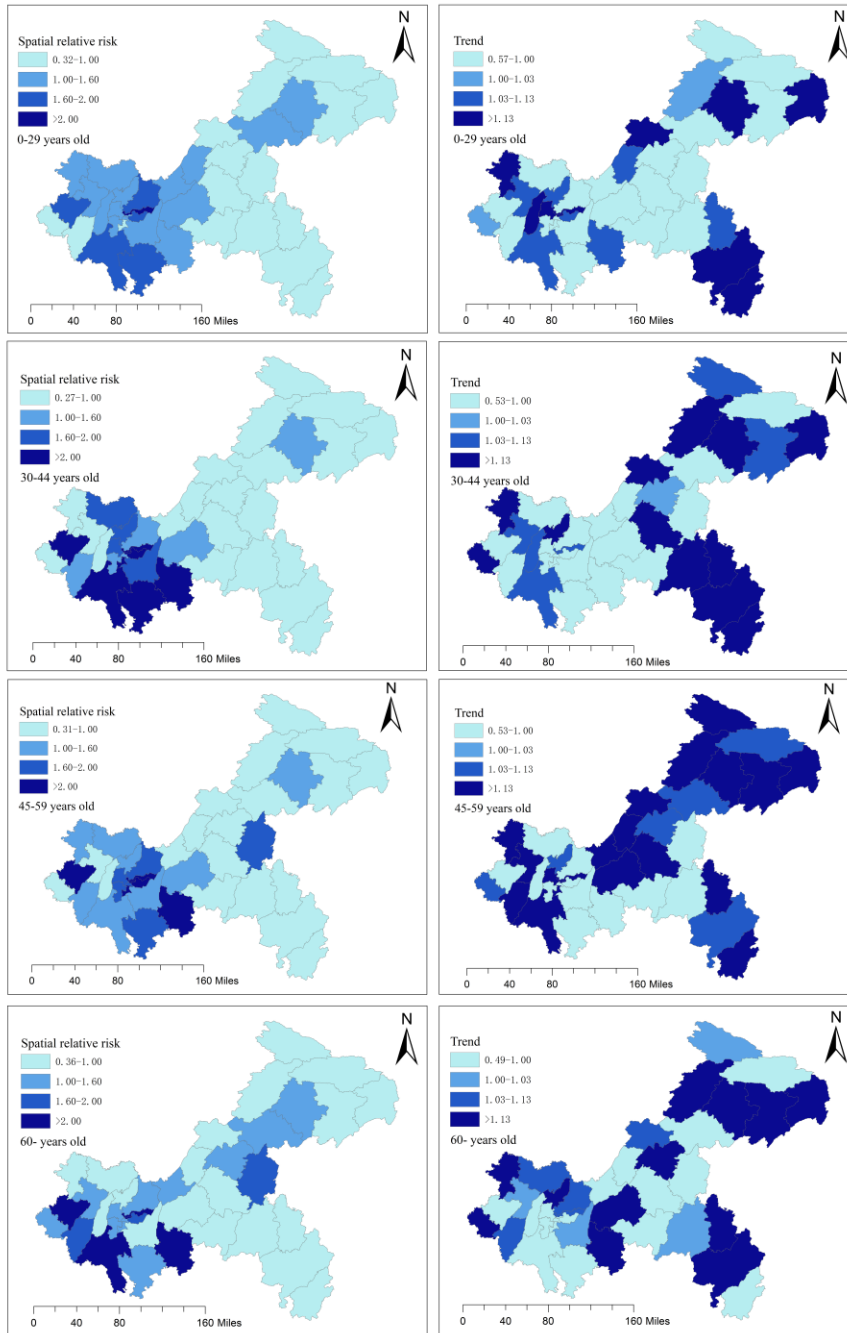
Supplementary Figure 5 Annually temporal RR in different age groups of men in Chongqing from 2014 to 2020



Supplementary Figure 6 Spatial effect and temporal trend of RR in different age groups of men



Supplementary Figure 7 Annually temporal RR in different age groups of women in Chongqing from 2014 to 2020



Supplementary Figure 8 Spatial effect and temporal trend of RR in different age groups of women