

**Table S1.** Result of two regression models in 500 m × 500 m

Variables	Model results (coefficients and significance)	
	Model 1	
	(Resilience in June 2020)	(Resilience in December 2020)
<b>COVID-19</b>		
Case number	0.029	0.010 **
<b>Population characteristics</b>		
Elder density	0.107	-0.056
<b>Urban built environment components</b>		
Accessibility		
Road density	0.193 ***	0.160
MTR station number	0.027	0.034 *
Land Use characteristics		
Land use index	1.047 ***	0.803 ***
Building coverage ratio	0.544 ***	0.592 ***
Private residential	-0.067	-0.018
Public residential	0.166 ***	0.191 ***
Rural Settlement	-0.106 **	-0.097 ***
Agglomeration		
Commercial area	0.044	-0.028
Shopping Mall number	0.175 ***	0.124 ***
Market number	0.303 **	0.423 ***
Amenity		
Hospital number	-0.290	-0.389 **
Park number	0.091	0.175 *
Intercept	1.496 ***	0.630 ***
Observations	496	793
Adjusted R-squared	0.520	0.555
Moran's I for residuals	0.047	0.038

Note: \* p&lt;0.10. \*\* p&lt;0.05. \*\*\* p&lt;0.01.

**Table S2.** Robustness test results for two regression models in 1 km × 1 km using the bootstrap percentile method.

Variables	95% confidence interval	
	Model 1	
	(Resilience in June 2020)	(Resilience in December 2020)
<b>COVID-19</b>		
Case number	(-0.0543, 0.0662 )	(-0.0058, 0.0084 )
<b>Population characteristics</b>		
Elder density	(-0.1614, 0.1966 )	(-0.2687, 0.1529 )
<b>Urban built environment components</b>		
Accessibility		
Road density	(-0.1331, 0.1206 )	(-0.0644, 0.1037 )
MTR station number	( 0.0118, 0.0874 )	(-0.0155, 0.0686 )
Land Use characteristics		
Land use index	( 0.518, 2.458 )	( 0.478, 1.849 )
Building coverage ratio	( 0.3218, 0.8624 )	( 0.4163, 0.8503 )

Private residential	(-0.1656, 0.1078)	(-0.0659, 0.1652 )
Public residential	( 0.0938, 0.3922 )	( 0.2570, 0.5766 )
Rural Settlement	(-0.2250, 0.0643 )	(-0.1984, 0.0434 )
<b>Agglomeration</b>		
Commercial area	(-0.2691, 0.1615 )	(-0.0737, 0.1892 )
Shopping Mall number	( 0.0004, 0.1769 )	(-0.0230, 0.1559 )
Market number	( 0.0173, 0.4876 )	( 0.0253, 0.4661 )
<b>Amenity</b>		
Hospital number	(-0.2223, 0.4277 )	(-0.4569, 0.0340 )
Park number	(-0.0543, 0.0662 )	(-0.1015, 0.2151 )
Intercept	( 0.449, 1.810 )	( 0.0885, 1.0782 )

**Table S3.** Robustness test results for two regression models in 500 m × 500 m using the bootstrap percentile method.

Variables	95% confidence interval	
	Model 1 (Resilience in June 2020)	Model 2 (Resilience in December 2020)
<b>COVID-19</b>		
Case number	(-0.0367, 0.1041 )	(-0.0020, 0.0259 )
<b>Population characteristics</b>		
Elder density	(-0.0242, 0.2529 )	(-0.2355, 0.2575 )
<b>Urban built environment components</b>		
Accessibility		
Road density	( 0.0503, 0.3260 )	( 0.0536, 0.2997 )
MTR station number	(-0.0181, 0.0860 )	(-0.0199, 0.0927 )
Land Use characteristics		
Land use index	( 0.434, 1.677 )	( 0.2806, 1.1950 )
Building coverage ratio	( 0.3981, 0.6883 )	( 0.4295, 0.7099 )
Private residential	(-0.1702, 0.0335 )	(-0.1234, 0.0600 )
Public residential	( 0.0551, 0.2723 )	( 0.0285, 0.2890 )
Rural Settlement	(-0.2183, 0.0098 )	(-0.1641, -0.0021 )
Agglomeration		
Commercial area	(-0.0452, 0.1531 )	(-0.0926, 0.0580 )
Shopping Mall number	( 0.0865, 0.2853 )	( 0.0355, 0.2232 )
Market number	( 0.0762, 0.5570 )	( 0.1883, 0.6204 )
Amenity		
Hospital number	(-0.7825, 0.2456 )	(-0.7302, -0.0129 )
Park number	(-0.1011, 0.3254 )	(-0.0148, 0.3620 )
Intercept	( 1.060, 1.949 )	( 0.3373, 1.0034 )