

**Table S10: Relationship between Temperature, Relative Humidity, and *R* Value: Check with spatial random effect of Chinese cities.**

Spatial random effects are introduced in first step of Fama-Macbeth regression to account for spatial correlation. The neighborhood structure is calculated from the Earth distances between cities.

	Overall	Before Lockdown (Jan 24)	After Lockdown (Jan 24)
<b>Temperature</b>			
coef	-0.0212	-0.0269	-0.0196
95%CI	[-0.0361, -0.0063]	[-0.0429, -0.0108]	[-0.0377, -0.0016]
std.err	0.0072	0.0058	0.0085
t-stat	-2.96	-4.65	-2.30
p-value	0.007	0.010	0.034
<b>Relative Humidity</b>			
coef	-0.0045	-0.0074	-0.0037
95%CI	[-0.0090, -0.00003]	[-0.0103, -0.0044]	[-0.0091, 0.0017]
std.err	0.0022	0.0011	0.0026
t-stat	-2.09	-6.90	-1.46
p-value	0.049	0.002	0.162
<b>Population Density</b>			
coef	0.0257	0.1059	0.0034
95%CI	[-0.0197, 0.0711]	[0.0208, 0.1911]	[-0.0200, 0.0268]
std.err	0.0219	0.0307	0.0111
t-stat	1.17	3.45	0.31
p-value	0.253	0.026	0.764
<b>Percentage over 65</b>			
coef	0.0783	0.2110	0.0415
95%CI	[-1.5748, 1.7315]	[-1.1675, 1.5894]	[-2.0603, 2.1432]
std.err	0.7971	0.4965	0.9962
t-stat	0.10	0.42	0.04

	Overall	Before Lockdown (Jan 24)	After Lockdown (Jan 24)
p-value	0.923	0.693	0.967
<b>GDP per capita</b>			
coef	-0.0022	-0.0155	0.0015
95%CI	[-0.0203, 0.0159]	[-0.0262, -0.0048]	[-0.0187, 0.0218]
std.err	0.0087	0.0038	0.0096
t-stat	-0.25	-4.04	0.16
p-value	0.805	0.016	0.876
<b>No. of doctors</b>			
coef	-0.0056	-0.0101	-0.0044
95%CI	[-0.0083, -0.0030]	[-0.0163, -0.0039]	[-0.0059, -0.0029]
std.err	0.0013	0.0022	0.0007
t-stat	-4.40	-4.52	-6.10
p-value	0.0003	0.011	0.0002
<b>Drop of BMI</b>			
coef	0.2327	-0.3903	0.4057
95%CI	[-0.3638, 0.8291]	[-0.6699, -0.1106]	[-0.2111, 1.0225]
std.err	0.2876	0.1007	0.2924
t-stat	0.81	-3.87	1.39
p-value	0.427	0.018	0.183
<b>Inflow population from Wuhan</b>			
coef	-0.0028	-0.0001	-0.0035
95%CI	[-0.0055, -0.00004]	[-0.0011, 0.0008]	[-0.0063, -0.0007]
std.err	0.0013	0.0003	0.0013
t-stat	-2.11	-0.43	-2.62
p-value	0.047	0.688	0.018
<b>Latitude</b>			
coef	0.0063	0.0076	0.0059
95%CI	[-0.0161, 0.0286]	[-0.0191, 0.0343]	[-0.0221, 0.0339]
std.err	0.0108	0.0096	0.0133

	<b>Overall</b>	<b>Before Lockdown (Jan 24)</b>	<b>After Lockdown (Jan 24)</b>
t-stat	0.58	0.79	0.44
p-value	0.566	0.472	0.662
<b>Longitude</b>			
coef	-0.0100	-0.0258	-0.0056
95%CI	[-0.0195, -0.0006]	[-0.0514, -0.0003]	[-0.0141, 0.0028]
std.err	0.0046	0.0092	0.0040
t-stat	-2.20	-2.81	-1.40
p-value	0.039	0.048	0.178
<b>const</b>			
coef	1.1002	2.1148	0.8183
95%CI	[0.5229, 1.6774]	[1.5587, 2.6710]	[0.5551, 1.0815]
std.err	0.2784	0.2003	0.1247
t-stat	3.95	10.56	6.56
p-value	0.001	0	0.0002