

**Table S11: Relationship between Temperature, Relative Humidity, and *R* Value: Check with spatial random effect of the U.S. counties.**

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 counties.

	<b>Overall</b>	<b>Before Lockdown (April 7)</b>	<b>After Lockdown (April 7)</b>
<b>Temperature</b>			
coef	-0.0136	-0.0135	-0.0136
95%CI	[-0.0215, -0.0057]	[-0.0236, -0.0034]	[-0.0280, 0.0007]
std.err	0.0039	0.0049	0.0068
t-stat	-3.46	-2.78	-2.00
p-value	0.001	0.011	0.061
<b>Relative Humidity</b>			
coef	-0.0052	-0.0072	-0.0029
95%CI	[-0.0095, -0.0010]	[-0.0130, -0.0014]	[-0.0042, -0.0016]
std.err	0.0021	0.0028	0.0006
t-stat	-2.51	-2.57	-4.59
p-value	0.016	0.017	0.0003
<b>Population Density</b>			
coef	3.26e-8	2.98e-6	-3.54e-6
95%CI	[-0.00002, 0.00002]	[-0.00003, 0.00004]	[-5.13e-6, -1.95e-6]
std.err	8.58e-6	0.00002	7.57e-7
t-stat	0.00	0.18	-4.67
p-value	0.997	0.858	0.0002
<b>Percentage over 65</b>			
coef	-0.7988	-1.0894	-0.4471
95%CI	[-1.4330, -0.1647]	[-2.0771, -0.1017]	[-0.7620, -0.1322]
std.err	0.3140	0.4763	0.1499
t-stat	-2.54	-2.29	-2.98

	<b>Overall</b>	<b>Before Lockdown (April 7)</b>	<b>After Lockdown (April 7)</b>
p-value	0.015	0.032	0.008
<b>Gini</b>			
coef	-1.8186	-2.2916	-1.2460
95%CI	[-3.3837, -0.2534]	[-4.5288, -0.0543]	[-2.1425, -0.3495]
std.err	0.7750	1.0788	0.4267
t-stat	-2.35	-2.12	-2.92
p-value	0.024	0.045	0.009
<b>Socio-economic factor</b>			
coef	0.1131	0.1480	0.0708
95%CI	[0.0682, 0.1580]	[0.0903, 0.2056]	[0.0451, 0.0965]
std.err	0.0222	0.0278	0.0122
t-stat	5.08	5.32	5.78
p-value	0.0002	0.0002	0.0002
<b>No. of ICU beds per capita</b>			
coef	-0.0092	-0.0127	-0.0050
95%CI	[-0.0238, 0.0054]	[-0.0359, 0.0105]	[-0.0101, 0.0002]
std.err	0.0072	0.0112	0.0025
t-stat	-1.27	-1.14	-2.01
p-value	0.210	0.267	0.059
<b>Fraction of maximum moving distance over normal time</b>			
coef	0.0040	0.0024	0.0059
95%CI	[0.0012, 0.0068]	[-0.0014, 0.0063]	[0.0054, 0.0064]
std.err	0.0014	0.0019	0.0002
t-stat	2.93	1.30	25.03
p-value	0.005	0.207	0
<b>Home-stay minutes</b>			
coef	0.0003	0.0005	0.00002
95%CI	[0.00002, 0.0006]	[0.0001, 0.0009]	[-0.0002, 0.0002]
std.err	0.0001	0.0002	0.0001

	<b>Overall</b>	<b>Before Lockdown (April 7)</b>	<b>After Lockdown (April 7)</b>
t-stat	2.15	2.81	0.19
p-value	0.038	0.010	0.851
<b>Latitude</b>			
coef	-0.0152	-0.0278	-0.00004
95%CI	[-0.0308, 0.0003]	[-0.0423, -0.0133]	[-0.0208, 0.0207]
std.err	0.0077	0.0070	0.0099
t-stat	-1.98	-3.97	-0.00
p-value	0.055	0.001	0.997
<b>Longitude</b>			
coef	0.0060	0.0084	0.0032
95%CI	[0.0033, 0.0088]	[0.0064, 0.0104]	[0.0015, 0.0049]
std.err	0.0014	0.0010	0.0008
t-stat	4.45	8.78	3.86
p-value	0.0003	0	0.001
<b>const</b>			
coef	1.7377	2.2018	1.1759
95%CI	[1.1715, 2.3039]	[1.6623, 2.7413]	[1.1594, 1.1923]
std.err	0.2803	0.2601	0.0078
t-stat	6.20	8.46	150.10
p-value	0	0	0