	Autoregressive	Stringency random effects	New COVID-19 cases random effects
Predictors	*Estimates*	*Estimates*	*Estimates*
Intercept	11.83 *** (9.43 – 14.24)	10.21 *** (8.32 – 12.10)	13.84 *** (9.89 – 17.79)
Stringency t	4.69 *** (3.85 – 5.52)	4.02 *** (2.64 – 5.41)	3.62 *** (2.67 – 4.57)
New Cases t	1.62 *** (1.13 – 2.12)	1.26 *** (1.04 – 1.49)	7.42 * (0.39 – 14.45)
Stringency t-1	2.73 *** (2.02 – 3.45)	3.57 *** (2.73 – 4.41)	3.20 *** (2.31 – 4.10)
Spline 1st degree	3.34 * (0.73 – 5.95)	3.59 *** (2.75 – 4.43)	5.06 *** (4.17 – 5.95)
Spline 2nd degree	13.56 *** (7.43 – 19.69)	16.33 *** (13.95 – 18.71)	15.60 *** (13.11 – 18.09)
Spline 3rd degree	-6.61 *** (-8.57 – -4.65)	-6.46 *** (-7.02 – -5.90)	-6.27 *** (-6.98 – -5.57)
New cases t-1			0.57 (-0.81 – 1.96)
Random Effects			
σ^2		27.21	29.83
τ_{00}		26.40 $_{City}$	136.03 $_{City}$
τ_{11}		11.71 $_{City.z\_stringency\_index}$	429.73 $_{City.z\_cases}$
ρ_{01}		0.69 $_{City}$	0.91 $_{City}$
ICC		0.58	0.95
N	42 $_{City}$	42 $_{City}$	42 $_{City}$
Observations	5225	5225	5203
Marginal R^2 / Conditional R^2	NA	0.577 / 0.824	0.209 / 0.961
AIC	30905.205	32422.366	32821.233

** p<0.05 ** p<0.01 *** p<0.001*