

Table S5: Variant effect on Ct value for each capital and at the national level using a linear regression model (β). Two distinct viral targets (N and ORFab) and an internal process control (MS2) were analyzed. Positive β values indicate an increase in the Ct score in the period dominated by the Omicron VOC.

Capital	Number of Samples	N gene			ORF1ab gene			MS2 control		
		β	95% CI	p-value	β	95% CI	p-value	β	95% CI	p-value
Belém	2861	0.323	± 0.757	0.403	0.468	± 0.764	0.230	1.747	± 1.506	$6.47e-16^*$
Belo Horizonte	46266	1.077	± 0.161	$<2e-16^*$	1.172	± 0.160	$<2e-16^*$	0.123	± 0.085	0.004^*
Boa Vista	444	1.080	± 2.584	0.413	1.021	± 2.638	0.448	1.238	± 1.332	0.069
Brasília	2976	0.448	± 0.461	0.057	0.882	± 0.454	0.00014^*	0.621	± 0.206	$3.78e-09^*$
Fortaleza	337	-2.311	± 2.985	0.130	-2.545	± 3.006	0.098	-0.680	± 1.258	0.290
Goiânia	3093	1.612	± 0.702	$6.98e-06^*$	1.756	± 0.702	$1.02e-06^*$	-0.480	± 0.307	0.002^*
Macapá	1027	2.108	± 2.027	0.0418^*	2.151	± 2.057	0.0407^*	0.008	± 1.023	0.987
Manaus	565	-0.297	± 2.207	0.792	-0.272	± 2.246	0.813	2.129	± 1.129	0.0002^*
Palmas	1267	2.087	± 0.767	$1.15e-07^*$	2.148	± 0.777	$7.3e-08^*$	1.333	± 0.489	$1.1e-07^*$
Porto Velho	2895	0.736	± 0.784	0.066	0.886	± 0.791	0.0281^*	0.584	± 0.421	0.007^*
Rio de Janeiro	6383	1.382	± 0.380	$1.19e-12^*$	1.663	± 0.383	$<2e-16^*$	-0.178	± 0.189	0.066
São Paulo	4771	3.318	± 0.458	$<2e-16^*$	3.645	± 0.462	$<2e-16^*$	0.495	± 0.222	$1.23e-05^*$
Brazil	72885	1.114	± 0.125	$<2e-16^*$	1.304	± 0.124	$<2e-16^*$	0.267	± 0.064	$5.98e-16^*$

*Statistically significant values ($\alpha = 0.05$).