

Appendix: A Partisan Pandemic

Table 1: NPIs to Contain COVID-19

Identifier	Name	Description	Coding
I ₁	School Closure	Record of School and University Closures	0: No Closure; 0.5: Partial Closure; 1: Complete Closure
I ₂	Workplace Closure	Record of Work-Place Closures	0: No Closure; 0.5: Partial Business Closure 1: Complete Closure
I ₃	Cancellation of Public Events	Record of the Cancellation of Public Events	0: No Closure; 0.5: Partial Closure; 1: Complete Closure
I ₄	Restrictions on Gatherings	Record of Legal Restrictions on Private Gatherings	0: No Restrictions; 0.25: Bans on Gatherings of More than 1000 People; 0.5: Bans Restricting Gatherings between 100 and 1000; 0.75: Bans Restricting Gatherings between 50 and 100; 1: Bans on Gatherings of More than 10 People
I ₅	Stay at Home Order	Record of "Shelter in Place" and other Orders Instructing Individuals to Stay at Home	0: No Order; 0.5: Partial Order; 1: Full Order
I ₆	Public Transit Suspensions	Record of Suspension of Public Transit	0: No Closure; 0.5: Partial Closure;

			1: Full Closure
I ₇	Information Campaigns	Record of Public Information/Health Campaigns	0: No Campaign; 0.5: Very Limited Campaign 1: Full Campaign
I ₈	Internal Travel Controls	Record of Restrictions on Internal Travel	0: No Closure; 0.5: Partial Closure; 1: Full Closure
I ₉	International Travel Controls	Record of Restrictions on International Travel	0: No Closure; 0.5: Partial Closure; 1: Full Closure
I ₁₀	Use of Face Masks	Record of Mask Mandates	0: No Masks Required 0.5: Masks Recommended 1: Masks Required in Public

Table 2
Sociodemographic, Economic, and Political Statistics by State

	Population (2020)	Percentage of Pop. Below Poverty Line	GDP per capita (2018)	Governor's Party (2020)
Acre	881,935	42	4,827	PP
Alagoas	3,337,357	49	4,221	MDB
Amapá	845,731	46	5,255	PDT
Amazonas	4,144,597	46	6,377	PSC
Bahia	14,873,064	44	4,854	PT
Ceará	9,132,078	43	4,426	PT
Distrito Federal	3,015,268	11	22,677	MDB
Espírito Santo	4,018,650	19	7,880	PSB
Goiás	7,018,354	17	7,779	DEM
Maranhão	7,075,181	53	3,515	PCdoB
Mato Grosso	21,168,791	15	10,740	DEM
Mato Grosso do Sul	2,778,986	16	9,818	PSDB
Minas Gerais	3,484,466	18	7,436	NOVO
Pará	8,602,865	45	4,784	MDB
Paraíba	4,018,127	40	4,235	PSB
Paraná	11,433,957	14	10,242	PSD
Pernambuco	9,557,071	42	5,096	PSB
Piauí	3,273,227	43	3,695	PT
Rio de Janeiro	17,264,943	19	11,032	PSC

Rio Grande do Norte	3,506,853	38	4,922	PT
Rio Grande do Sul	11,377,239	11	10,379	PSDB
Rondônia	1,777,225	25	6,327	PSL
Roraima	605,761	33	6,138	PSL
Santa Catarina	7,164,788	9	10,648	PSL
São Paulo	45,919,049	13	13,056	PSDB
Sergipe	2,298,696	45	4,918	PSD
Tocantins	1,572,866	33	5,905	PHS
National	210,147,125		8,717	PSL

Table 3

Descriptive statistics of the 10 NPI variables and the number of days of implementation at the state level.
February 25 to October 29, 2020.

		School Closure	Workplace Closure	Cancellation of Public Events	Restrictions on Gatherings	Stay at Home Order	Public Transit Suspensions	Information Campaigns	Internal Travel Controls	International Travel Controls	Use of Face Masks
Acre	Mean	0.91	0.67	0.00	0.59	0.00	0.00	0.72	0.21	0.00	0.77
	Days of Implementation	226	227	0	192	0	0	179	105	0	192
Alagoas	Mean	0.89	0.55	0.82	0.42	0.00	0.00	0.89	0.52	0.21	0.74
	Days of Implementation	220	227	202	226	0	0	220	133	107	192
Amapá	Mean	0.91	0.66	0.64	0.06	0.06	0.24	0.91	0.03	0.00	0.78
	Days of Implementation	225	222	166	61	18	75	224	19	0	194
Amazonas	Mean	0.69	0.58	0.77	0.59	0.00	0.00	0.92	0.09	0.00	0.68
	Days of Implementation	227	220	195	211	0	0	227	47	0	169
Bahia	Mean	0.91	0.00	0.68	0.63	0.00	0.39	0.92	0.67	0.00	0.82
	Days of Implementation	225	0	169	225	0	192	227	192	0	210
Ceará	Mean	0.79	0.61	0.86	0.43	0.13	0.00	0.91	0.23	0.00	0.74
	Days of Implementation	224	225	225	224	68	0	225	113	0	193
Distrito Federal	Mean	0.73	0.59	0.77	0.47	0.00	0.00	0.92	0.00	0.00	0.73
	Days of Implementation	227	223	192	231	0	0	227	0	0	182
	Mean	0.83	0.56	0.91	0.40	0.00	0.00	0.91	0.00	0.00	0.74

Espíritu Santo	Days of Implementation	226	223	226	199	0	0	226	0	0	194
Goiás	Mean	0.91	0.55	0.45	0.47	0.00	0.00	0.92	0.00	0.00	0.77
	Days of Implementation	225	223	223	231	0	0	227	0	0	192
Maranhão	Mean	0.74	0.58	0.59	0.15	0.03	0.00	0.92	0.21	0.00	0.76
	Days of Implementation	226	222	148	77	16	0	227	54	0	189
Mato Grosso	Mean	0.89	0.44	0.63	0.14	0.00	0.00	0.91	0.00	0.00	0.77
	Days of Implementation	220	220	157	139	0	0	225	0	0	190
Mato Grosso do Sul	Mean	0.89	0.00	0.00	0.00	0.00	0.00	0.91	0.05	0.00	0.52
	Days of Implementation	220	0	0	0	0	0	224	16	0	129
Minas Gerais	Mean	0.85	0.55	0.91	0.69	0.00	0.00	0.91	0.00	0.00	0.78
	Days of Implementation	220	220	224	229	0	0	224	0	0	194
Pará	Mean	0.80	0.45	0.82	0.43	0.04	0.00	0.92	0.14	0.30	0.68
	Days of Implementation	226	225	223	226	21	0	227	38	77	168
Paraíba	Mean	0.91	0.62	0.90	0.00	0.00	0.00	0.91	0.00	0.00	0.73
	Days of Implementation	224	221	224	0	0	0	224	0	0	180
Paraná	Mean	0.90	0.57	0.89	0.68	0.00	0.00	0.91	0.09	0.00	0.74
	Days of Implementation	223	220	220	223	0	0	225	48	0	184
Pernambuco	Mean	0.81	0.60	0.71	0.59	0.04	0.16	0.92	0.18	0.00	0.72
	Days of Implementation	225	222	177	226	23	81	227	89	0	189
Piauí	Mean	0.84	0.65	0.71	0.10	0.00	0.13	0.91	0.03	0.00	0.77
	Days of Implementation	226	218	176	51	0	66	226	10	0	190
	Mean	0.83	0.46	0.64	0.04	0.00	0.00	0.92	0.32	0.45	0.59

Rio de Janeiro	Days of Implementation	227	227	159	46	0	0	227	82	224	147
Rio Grande do Norte	Mean	0.87	0.63	0.83	0.41	0.08	0.00	0.92	0.44	0.00	0.73
	Days of Implementation	225	227	206	205	23	0	227	116	0	189
Rio Grande do Sul	Mean	0.81	0.48	0.91	0.68	0.00	0.00	0.91	0.11	0.00	0.69
	Days of Implementation	224	225	224	225	0	0	224	57	0	171
Rondônia	Mean	0.91	0.64	0.89	0.89	0.00	0.00	0.91	0.35	0.27	0.73
	Days of Implementation	226	228	221	223	0	0	226	93	93	195
Roraima	Mean	0.91	0.45	0.90	0.00	0.00	0.00	0.91	0.39	0.00	0.69
	Days of Implementation	226	212	223	0	0	0	226	97	0	189
Santa Catarina	Mean	0.68	0.51	0.75	0.00	0.00	0.34	0.91	0.48	0.00	0.80
	Days of Implementation	224	225	187	0	0	85	225	153	0	203
São Paulo	Mean	0.85	0.59	0.88	0.45	0.00	0.00	0.91	0.00	0.00	0.73
	Days of Implementation	220	220	227	222	0	0	225	0	0	189
Sergipe	Mean	0.91	0.62	0.83	0.02	0.00	0.00	0.91	0.12	0.25	0.77
	Days of Implementation	225	215	214	14	0	0	225	38	64	195
Tocantins	Mean	0.93	0.16	0.45	0.00	0.03	0.00	0.93	0.00	0.00	0.73
	Days of Implementation	230	34	225	0	10	0	230	0	0	184
National	Mean	0.85	0.51	0.71	0.35	0.02	0.05	0.91	0.17	0.06	0.73
	Days of Implementation	224.52	198.11	93.63	136.37	0.00	0.00	223.93	0.00	12.15	184.93

Table 4

Correlation Matrix for Public Policy Index (lagged two weeks) and Mortality Variables in Brazil
February 25 to October 29

		Policy index	Policy index (Lagged 2 weeks)	Total Deaths (7- day moving average)	Total Deaths per 100k population (7-day moving average)	Total Deaths lagged 2 weeks (7-day moving average)
Policy index (Lagged 2 weeks)	Coefficient	0.66				
	Stat. Sig.	0.00				
Total Deaths (7-day moving average)	Coefficient	0.08	0.03			
	Stat. Sig.	0.70	0.89			
Total Deaths per 100k population (7-day moving average)	Coefficient	0.12	-0.06	0.14		
	Stat. Sig.	0.56	0.78	0.48		
Total Deaths (Lagged 2 weeks, 7-day moving average)	Coefficient	0.11	-0.06	0.14	1.00	0.14
	Stat. Sig.	0.57	0.76	0.49	0.00	0.48

Table 5

Correlation Matrix for Public Policy Index Weighted by Time (Column 1) and Unweighted (Row 1)

	Unweighted Policy Index Variables	Workplace Closures	School Closures	Cancellation of Public Events	Restrictions on Gatherings	Stay at Home Order	Public Transit Suspensions	Information Campaigns	Internal Travel Controls	International Travel Controls	Use of Face Masks
Policy Index Variables, Weighted by Time											
Workplace Closures	Coef.	0.92									
	Stat. Sig.	0.00									
School Closures	Coef.	0.51	0.88								
	Stat. Sig.	0.00	0.00								
Cancellation of Public Events	Coef.	0.19	0.26	0.94							
	Stat. Sig.	0.00	0.00	0.00							
Restrictions on Gatherings	Coef.	0.09	0.16	0.10	0.93						
	Stat. Sig.	0.00	0.00	0.00	0.00						
Stay at Home Order	Coef.	0.15	0.08	0.18	-0.01	0.91					
	Stat. Sig.	0.00	0.00	0.00	0.18	0.00					
Public Transit Suspensions	Coef.	0.59	0.38	0.31	0.25	0.03	0.87				
	Stat. Sig.	0.00	0.00	0.00	0.00	0.00	0.00				
Information Campaigns	Coef.	0.26	0.21	0.31	0.12	0.14	0.37	0.89			
	Stat. Sig.	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Internal Travel Controls	Coef.	0.10	0.17	0.15	-0.06	0.03	-0.05	0.06	0.93		
	Stat. Sig.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

International Travel Controls	Coef.	0.19	0.02	0.01	0.21	0.04	-0.03	0.55	-0.28	0.96	
	Stat. Sig.	0.00	0.09	0.29	0.00	0.00	0.01	0.00	0.00	0.00	
Use of Face Masks	Coef.	0.19	0.02	0.01	0.21	0.04	-0.03	0.55	-0.28	0.19	0.94
	Stat. Sig.	0.00	0.09	0.29	0.00	0.00	0.01	0.00	0.00	0.00	0.00

List of Sources:

Legislation database

Legisweb https://www.legisweb.com.br/legislacao_ultimas/?data=6&abr=estado&estado=2&acao=Filtrar#resultado

State websites

AC <http://acre.gov.br>
 AL <http://www.agenciaalagoas.al.gov.br>
 AM <http://www.amazonas.am.gov.br>
 AP <https://saude.portal.ap.gov.br>
 BA <http://www.bahia.ba.gov.br>
 CE <https://www.ceara.gov.br>
 DF <http://www.df.gov.br>
 ES <https://coronavirus.es.gov.br/#noticias>
 GO <https://www.saude.go.gov.br>
 MA <https://www3.ma.gov.br>
 MG <https://www.mg.gov.br>
 MS <http://www.ms.gov.br>
 MT <http://www.mt.gov.br>
 PA <https://www.pa.gov.br>
 PB <https://paraiba.pb.gov.br>
 PE <http://www.sdscj.pe.gov.br/sedsdh-abre-inscricoes-para-curso-sobre-a-cultura-e-a-lingua-yorubana/>

PI	https://www.pi.gov.br
PR	http://www.parana.pr.gov.br
RJ	http://www.rj.gov.br
RN	http://www.diariooficial.rn.gov.br
RO	http://www.rondonia.ro.gov.br
RR	http://portal.rr.gov.br
RS	https://estado.rs.gov.br/inicial
SC	https://www.sc.gov.br
SE	https://www.se.gov.br
SP	https://www.saopaulo.sp.gov.br
TO	https://portal.to.gov.br

National news sites

Globo	https://g1.globo.com
Diario de Transporte	https://diariodetransporte.com
Agencia Brasil	https://agenciabrasil.ebc.com.br
UOL Educação	https://educacao.uol.com.br