

The COVID-19 outbreak and the municipal administration responses: resource munificence, social vulnerability, and the effectiveness of public actions

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Facing the unprecedented situation of the COVID-19 pandemic, public officials at the municipality-level have no clear benchmarks or tested policies. In this situation, decision-making becomes a controversial process. This article provides insights for public agents in the Brazilian municipalities to deal with the initial stages of the COVID-19 pandemic. We analyzed the actions taken by city halls of the 52 Brazilian municipalities at least thirty days since the first confirmed case of COVID-19. We used a fuzzy-set Qualitative Comparative Analysis (fsQCA) to identify the combinations of contextual factors and public actions that reduced COVID-19 transmission during the critical initial stage. The empirical results show three main paths to guide policy-making: (1) a plural collaboration path involving public and private sectors, operating in a fragile health system; (2) a public action path providing aid programs through intense collaboration inside public bureaucracy; and (3) a resource-based path relying on a well-structured health system.

Keywords: COVID-19; municipality; public action.

O surto da COVID-19 e as respostas da administração municipal: munificência de recursos, vulnerabilidade social e eficácia de ações públicas

Diante de uma situação sem precedentes do surto da doença do coronavírus 2019 (COVID-19), os agentes públicos no nível do município não têm referências claras ou políticas testadas. Nessa situação, a tomada de decisão pode se tornar um processo controverso. Este artigo fornece subsídios para gestores municipais lidarem com os estágios iniciais do surto de COVID-19. Analisamos as ações das prefeituras de todos os 52 municípios brasileiros com pelo menos trinta dias desde o primeiro caso confirmado da COVID-19. Utilizamos a fuzzy-set Qualitative Comparative (fsQCA) para identificar as combinações de fatores contextuais e ações públicas que reduziram a transmissão da COVID-19 durante o estágio inicial crítico. Os resultados empíricos mostram três caminhos principais para orientar a formulação de políticas: (1) um caminho de colaboração plural que envolve os setores público e privado na presença de um sistema de saúde frágil; (2) um caminho de ação pública que forneça programas de ajuda através de intensa colaboração dentro da burocracia pública; e (3) um caminho baseado nos recursos de um sistema de saúde bem estruturado.

Palavras-chave: COVID-19; municípios; ação pública.

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El brote de COVID-19 y las respuestas de la administración municipal: munificencia de recursos, vulnerabilidad social y efectividad de las acciones públicas

Ante una situación sin precedentes de brote de la enfermedad por coronavirus 2019 (COVID-19), los funcionarios públicos a nivel municipal no tienen puntos de referencia claros ni políticas probadas. En esta situación, la toma de decisiones se convierte en un proceso controvertido. Este documento proporciona información para que los agentes municipales brasileños puedan hacer frente a las etapas iniciales del brote de COVID-19. Analizamos las acciones tomadas por los ayuntamientos de los 52 municipios brasileños que llevaban al menos treinta días desde el primer caso confirmado de COVID-19. Utilizamos un análisis cualitativo comparativo de conjunto difuso (fsQCA) para identificar las combinaciones de factores contextuales y acciones públicas que redujeron la transmisión de la COVID-19 durante la etapa inicial crítica. Los resultados empíricos muestran tres caminos principales para guiar la formulación de políticas: (1) un camino de colaboración plural que involucre a los sectores público y privado en presencia de un sistema de salud frágil; (2) una vía de acción pública que proporcione programas de ayuda a través de una intensa colaboración dentro de la burocracia pública; y (3) una ruta basada en los recursos de un sistema de salud bien estructurado.

Palabras clave: COVID-19; municipios; acción pública.

1. INTRODUCTION

What is the best response from a local government in the early stages of a pandemic? The pandemic of the coronavirus disease 2019 (henceforth COVID-19) is an unprecedented situation in modern times. The serious threat to public health promotes the debate about actions taken by government officials. However, without consolidated and tested policies, decision-making becomes a controversial process. In this context, specific information or action can be considered either exaggerated, worrying, or insufficient, depending on the perspective of the analyst (Melo & Cabral, Forthcoming). Despite the great number of studies regarding the epidemiological aspect of COVID-19, the evidence of the effectiveness of government acts is still scarce.

Until April 16th, 2020, when we started the data collection process for this study, Brazil had almost 29,000 confirmed cases of COVID-19 and more than 1,700 reported deaths. The first case appeared in the city of São Paulo on February 25th. Since then, 1,152 municipalities have been dealing with at least one confirmed case of COVID-19. It took 51 days for coronavirus spread to more than 20% of the municipalities in a country of continental size. Brazil is large and heterogeneous, and the municipal governments face the COVID-19 outbreak in quite different contexts and possess a diverse set of resources and capabilities. This article is an attempt to identify which public administration actions, at the municipality level, have reduced the spread of COVID-19 more successfully.

To do this, we collected data from 52 Brazilian municipalities where at least thirty days had passed since the first COVID-19 case was confirmed on April 16th. We focused on the first 30-day period because we understand that acts taken during this initial phase would have a lasting impact, given the exponential spread of the disease. In the data collection process, we developed measurements to capture two broad conditions in each municipality, namely: (i) the contextual features of the municipality; and (ii) the governance structures and actions taken by the city halls in the fight against the disease. As one could imagine, there is not a silver-bullet to succeed in the fight against COVID-19. Therefore, it would be naïve to search for a unique solution for public administration efforts. Thus, instead of

relying on econometric techniques, we used the fuzzy-set Qualitative Comparative Analysis (fsQCA), which identifies the different possible paths leading to success. In other words, fsQCA enables us to arrive at different combinations of conditions (aka. solutions) that simultaneously lead to a successful outcome, in our case, a reduction in the spread of COVID-19.

The empirical evidence identifies three main paths consistent with the reduction in transmission of COVID-19 during the initial stages of the outbreak. The first path taken to avoid the spread of the virus was developing plural collaboration across public units and involving private sector partners to compensate for the lack of specialized resources. We call this path the *plural collaboration path*. The second path is the implementation of government aid programs through collaboration within the public sector to overcome the lack of health resources and the social vulnerability of the local population. We call this path the *public action path*. Finally, the third path is the reliance on the well-structured public-health system and coordination settings within a single public unit. We call this the *resource-based path*.

2. PUBLIC ADMINISTRATION AND THE RESPONSES TO COVID-19 OUTBREAK

Although COVID-19 is a still new disease of little-known parameters, the medical and scientific communities quickly reached consensus on practical measures to reduce transmission and react to the outbreak¹. Until now, some principles are guiding government officials, including: (i) isolation of confirmed and suspected cases as well as tracing who had contact with a potential virus carrier (Hellewell et al., 2020); (ii) mobilization of human and material health resources, given that the quick proliferation of the disease leads to an overwhelming number of hospitalizations, and the possible subsequent collapse of the health system (Remuzzi & Remuzzi, 2020); and (iii) generalized social distancing or quarantine, to prevent the proliferation of the disease and to alleviate the burden on the health system, i.e. flattening the spread over time (Lazzerini & Putoto, 2020). From the public administration standpoint, these principles are converted into practical actions, under locational specific conditions.

Contextual conditions. In the public administration literature, the context interacts with the management practices to impact the performance (O'Toole & Meier, 2015). The availability of resources in the surroundings is called *environmental resource munificence*. When resources are abundantly found, a larger number of opportunities are in place, and this increases the organization's performance (Andrews, 2009). In the COVID-19 outbreak, more specifically, the availability of health resources is critical not only to identify and monitor the suspected cases but also to care for critically ill patients (Armocida et al., 2020; Ji et al., 2020).

Another relevant contextual condition in the COVID-19 outbreak is the *social vulnerability* of the local population. Public health problems are frequently more severe in locations where high percentages of citizens live in socially vulnerable conditions (Ahmed, Ahmed, Pissarides, & Stiglitz, 2020). For

¹ World Health Organization: all technical guidance documents regarding COVID-19 can be found here <https://www.who.int/emergencies/diseases/novel-coronavirus-2019/technical-guidance>.

instance, there is a current debate in England and in the USA investigating if ethnic minorities are dying of COVID-19 in disproportionately higher numbers than white people². Furthermore, the vulnerable population is living in densely populated areas with poor infrastructure, which hinders disease prevention (Snyder, Marlow, Phuphanich, Riley, & Maciel, 2016). Thus, social vulnerability should also affect the results of policies to contain the spread of COVID-19.

Public administration actions. The first governmental responses to the COVID-19 outbreak are restrictions on the movement of the population in order to decrease virus transmission (Chen, Yang, Yang, Wang, & Bärnighausen, 2020). Subsequently, public administrations have to address a second-order impact of massive social distancing. As mentioned, social vulnerability can play an essential role during the outbreak. However, the informal economy is significant in Brazil, and suddenly poor people have their income flow interrupted by staying at home for a few days. Thus, it can be harder to keep a social distance in the presence of social vulnerability³, hindering the prevention of the disease dissemination. During the COVID-19 outbreak, the provision of *government aid programs* to meet the basic needs of the vulnerable population⁴.

Governance for public administration actions. More recently, the perspective of a unilateral policymaking process is increasingly being replaced by collective decision-making involving public and private sectors (Ansell & Gash, 2007). In this scenario, public administration has to find ways to achieve collaboration across multiple public units through *collaboration within the public sector* (Cabral & Krane, 2018; Sedgwick, 2017). Notwithstanding, the solutions are not only concentrated within public bureaucracies. *Collaboration with the private sector* is critical to deal with the complexity of the COVID-19 outbreak (Lazzarini & Musacchio, Forthcoming). Inter-sector collaborations work effectively under a myriad of possible configurations (Lazzarini, Pongeluppe, Ito, Oliveira, & Ovanessoff, Forthcoming). On the one hand, inter-sectorial collaborations are efficient under conditions of resource munificence and a stable environment (Provan & Milward, 1995; Raab, Mannak, & Cambre, 2013). On the other hand, while the COVID-19 outbreak does not create a stable environment, network-based organizations can also respond efficiently to situations of crisis and disasters (Kapucu & Garayev, 2011).

3. DATA AND METHOD

This is a multiple case study of Brazilian municipalities facing COVID-19. The benefit of a multiple case study analysis relies on two main factors. First, it allows us to find common patterns amid different observations considering them deterministically, not probabilistically. In other words, every single case contributes to improve our understanding of the phenomena (Bansal, Smith, & Vaara, 2018; Kahwati et al., 2016). Second, the validity of multiple case studies relies on the selection of cases that share similar a set of characteristics that are anchored on theoretical constructs. Moreover, the possibility of

² Retrieved from <https://www.theguardian.com/world/2020/apr/22/racial-inequality-in-britain-found-a-risk-factor-for-covid-19>.

³ Retrieved from <https://valor.globo.com/mundo/blog-do-fmi/post/2020/04/a-politica-economica-na-al-e-caribe-em-tempos-de-covid-19.ghtml>.

⁴ Retrieved from <https://www.gov.br/casacivil/pt-br/assuntos/noticias/2020/abril/solicitar-auxilio-emergencial-de-r-600-coronavirus-covid-19>.

replication of the analysis using similar occurrences validates the empirical effort (Eisenhardt, 1989; Pratt, Kaplan, & Whittington, 2020).

Given that different alternative successful paths are possible, and the interactive nature of public actions, governance mechanisms, and contextual factors, we used a fsQCA method (Rihoux & Lobe, 2009). The fsQCA applies fuzzy set algebra to construct multiple combinations of conditions consistent with a certain outcome (Crilly, Zollo, & Hansen, 2012; Fiss, 2007). In other words, fsQCA maps the different possible paths leading to a similar outcome.

Case selection process and dataset. We identify all Brazilian municipalities with at least 30 days since the first confirmed COVID-19 case until April 16th, 2020. This cutoff date constructed a dataset of 52 municipalities. As municipalities were at different stages of coping with the outbreak on the cutoff date, only statistics and actions that occurred within the first thirty days in each municipality were considered. Box 1 provides a list of selected municipalities. It is important to note that a thirty-day threshold delimits the initial stages of the outbreak. Below, we describe the outcome and conditions we used in the model specification.

BOX 1 LIST OF MUNICIPALITIES IN THE DATASET

Municipality Name		
Anápolis-GO	Fortaleza-CE	Porto Alegre-RS
Aquiraz-CE	Foz do Iguaçu-PR	Porto Seguro-BA
Barra Mansa-RJ	Goiânia-GO	Prado-BA
Belo Horizonte-MG	Guarulhos-SP	Rancho Queimado-SC
Belo Jardim-PE	Ipatinga-MG	Recife-PE
Braço do Norte-SC	Jaboatão dos Guararapes-PE	Rio Branco-AC
Campo Bom-RS	Joinville-SC	Rio de Janeiro-RJ
Campo Grande-MS	Juiz de Fora-MG	Rio Verde-GO
Campo Largo-PR	Londrina-PR	Salvador-BA
Carapicuíba-SP	Maceió-AL	Santana de Parnaíba-SP
Caxias do Sul-RS	Manaus-AM	Santo André-SP
Cianorte-PR	Maringá-PR	São Bernardo do Campo-SP
Coronel Fabriciano-MG	Mauá-SP	São Caetano do Sul-SP
Curitiba-PR	Natal-RN	São Paulo-SP
Divinópolis-MG	Niterói-RJ	Sete Lagoas-MG
Feira de Santana-BA	Nova Lima-MG	Uberlândia-MG
Ferraz de Vasconcelos-SP	Patrocínio-MG	
Florianópolis-SC	Pinhais-PR	

Note: Table A1 in the appendix provides additional information.

Source: Elaborated by the authors.

Outcome: The low spread of COVID-19. The outcome is the number of confirmed COVID-19 cases per 100 thousand inhabitants in the municipality by the thirtieth day after the first confirmed COVID-19 case. We used the negated form of the outcome, which means that more successful municipalities are those with lower levels of confirmed cases. The source is the “brasil.io” website, which is an independent initiative, and it consolidates daily data from the state-level health departments.

Resource munificence. The first contextual condition measures the availability of resources to respond to the outbreak. We used the number of physicians per 100 thousand inhabitants in the municipality in January of 2020 to capture the size of the health system in place. We also measured the number of hospital beds in the specialty of pulmonology per 100 thousand inhabitants in the municipality to evaluate the specialized resources. The data is available from the DATASUS website, which is a data repository of the Federal Health Department.

Social vulnerability. Another contextual condition has to do with the social structure in the municipality. We collected the social vulnerability index for each municipality, which is available from the “Atlas da Vulnerabilidade Social,” elaborated by *Instituto de Pesquisa Econômica Aplicada* (IPEA).

Government aid programs. We identified public action related to the provision of emergency aid programs for the population. By reading municipal laws and newspaper articles, we have identified three types of programs: (i) provision of meals for public school students at home; (ii) distribution of basic food baskets; (iii) other programs to reduce taxes, subsidized credit for small businesses, or offering financial assistance directly. In addition to official sources from municipalities, we used Google to search for evidence of aid programs in newspapers.⁵

Collaboration within the public sector. This variable identifies the creation of multi-departmental entities within the public bureaucracy set up to deal with the disease outbreak, according to official sources from municipalities and searches in the newspapers.⁶

Collaboration with the private sector. This refers to the presence of a relevant initiative with the joint participation of the city hall and organizations outside the public sector. The sources are also municipal laws and searches in the newspapers.⁷

The measurements of variables concerning government aid and collaborations are influenced by the judgment about the content of law and newspaper articles. We selected policies initiated at municipality-level, not federal or state-level programs distributed by the city halls. We also excluded specific public initiatives or private sector initiatives without the participation of the city halls or only recognized by city halls⁸.

Analytical procedures. The critical initial step of fsQCA is to calibrate whether the outcome or a condition is present or not in a case. Box A7 in the appendix describes the calibration criteria for each variable. Then, following the established criteria in the fsQCA literature, after analyzing the truth table, we adopted a 0.8 consistency threshold (Ragin, 2006; Schneider & Wagemann, 2012). We also

⁵ In this search we used Google with the following description in: “coronavírus + <<city name>> + prefeitura + auxílio OR bolsa OR cesta básica”.

⁶ Similarly: coronavírus + <<city name>> + prefeitura + comitê OR comissão OR gabinete OR centro de operações OR campanha OR convênio.

⁷ Similarly: coronavírus + <<city name>> + prefeitura + parceria OR colaboração OR campanha OR convênio OR empresários OR empresas OU ONG OR força-tarefa.

⁸ The tables and boxes from A2 to A6 in the appendix detail the content of public action and governance measurements, as well as its sources, in order to make the results and limitation more transparent.

considered a frequency threshold of at least one case in the solution, given the small sample (Rhioux & Ragin, 2009). Finally, we reported the intermediate solutions provided by the fsQCA software (Fiss, 2011; Misangyi & Acharya, 2014).

Analyzing the sample regarding public action, 26.9% of the municipalities did not offer any government aid to the population. The percentages of those that provided one, two, and three aid programs, respectively, are 51.9%, 19.2%, and 1.9%. Looking at governance mechanisms, in turn, we found that 50% of the city halls used only collaboration within the public sector, 7.7% established collaboration with the private sector only, and 25% created collaboration both within the public sector and with the private sector. Thus, 17.3% of city halls had no collaboration. Table A8 in the appendix presents the descriptive statistics for the contextual factors.

4. RESULTS

Box 2 presents the results of fuzzy-set qualitative comparative analysis, showing three solutions consistent with preventing COVID-19 transmission in the initial stages of the outbreak. We interpret the results considering that “●” indicates the presence of a condition and “⊗” indicates the absence of a condition. The blank spaces, in fsQCA jargon, mean “don’t care” situation; i.e. the condition can be either present or absent for the solution. For instance, solution 1a is characterized by the presence of both collaboration within the public sector and collaboration with the private sector, as well as by the absence of hospital beds. In the first solution, resource munificence in terms of physicians and social vulnerability is a “don’t care” condition, which means that these characteristics may be present or not to prevent COVID-19 transmission in this solution.

BOX 2 **QCA RESULTS ON THE COMBINATIONS OF CONDITIONS TO AVOID THE TRANSMISSION OF COVID-19 IN ITS INITIAL STAGES**

	Solutions		
	1a	1b	2
Initial Contextual Conditions			
- Resource munificence (physicians)		⊗	●
- Resource munificence (hospital beds)	⊗	⊗	●
- Social vulnerability		●	
Governance and Public Actions			
- Governmental aids	⊗	●	⊗
- Collaboration within the public sector	●	●	⊗
- Collaboration with the private sector	●		⊗

Continue

	Solutions		
	1a	1b	2
Consistency	0.845	0.867	0.873
Raw Coverage	0.141	0.166	0.090
Unique Coverage	0.090	0.115	0.090
Number of Cases	4	2	3
Cases	Belo Jardim-PE Curitiba-PR Mauá-SP Rio Verde-GO	Campo Bom-RS Pinhais-PR	Divinópolis-MG Belo Horizonte-MG Goiânia-GO
Overall solution consistency	0.843		
Overall solution coverage	0.345		

Notes: Black circles (“●”) indicate the presence of a condition, and open circles (“⊗”) indicate its absence. Blank spaces indicate “don’t care”; that is, the condition is not relevant to that particular configuration.

Source: Elaborated by the authors.

Solution 1b has an absence of all conditions of resource munificence, and the presence of social vulnerability. These contextual factors interact with the presence of government aid and collaboration within the public sector, and collaboration with the private sector is a don’t care condition. Finally, solution 2 has both dimensions of resource munificence present in it, whereas all public action and governance conditions are absent.

Before the discussion, it is worthwhile commenting on the social distancing procedures taken in the municipalities. First of all, despite its importance, social distancing laws were not explored in the model, because this was mainly a decision taken at the state-level rather than at the level of municipality. Second, all municipalities adopted social distancing laws, and it seems reasonable to assume that social distancing is a ubiquitous practice in the sample. However, it is possible to track how many days it took from the first case to the closure of shops and schools in each municipality. In general, comparing the number of days per solution, only municipalities in solution 1b seems to take longer to close the schools than the sample’s average behavior. Box A9 in the appendix summarizes the analysis⁹.

5. DISCUSSION

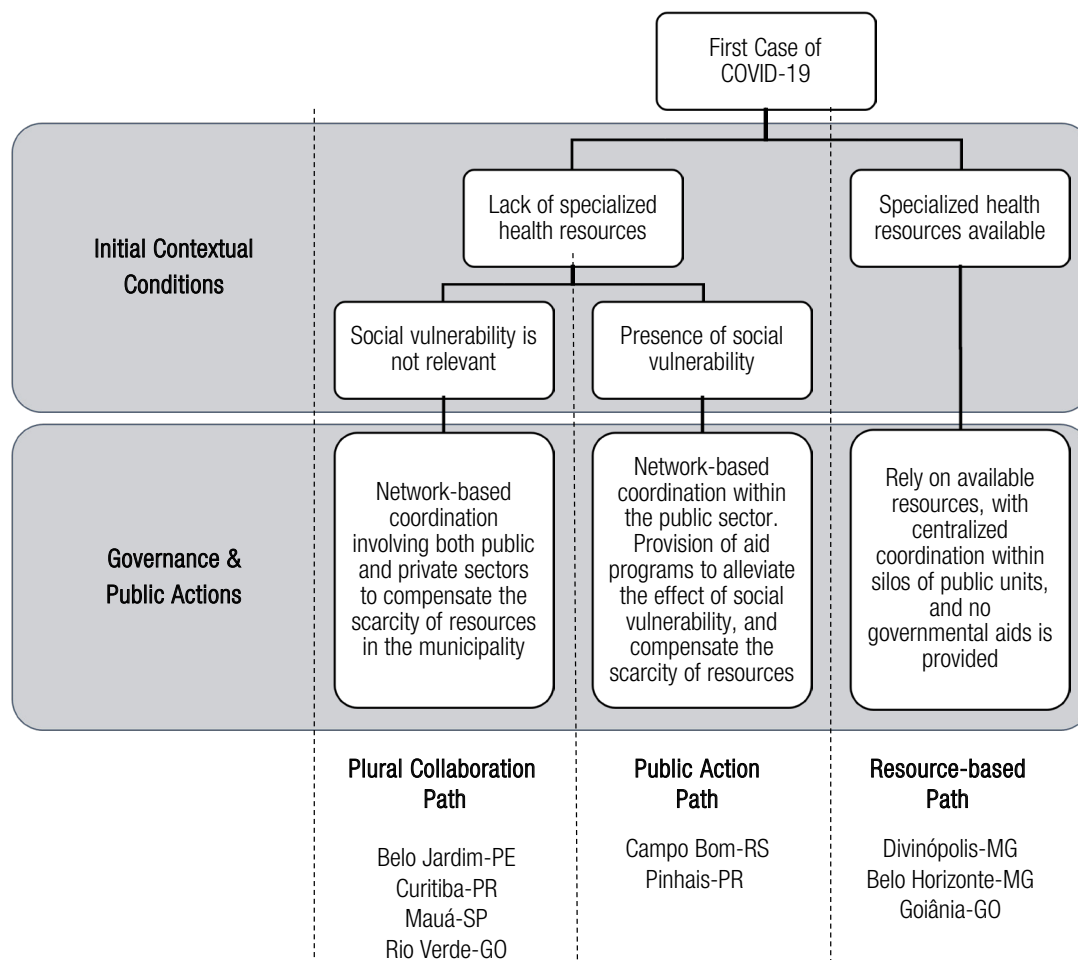
Insights for municipality-level government officials. The results demonstrate that public action options are limited by contingent conditions in the municipality’s environment, and there are three possible paths for policymaking. Figure 1 presents a visual representation of the decision-making process based on the results¹⁰. This can serve as a reference for public officials coping with the initial stage of COVID-19 outbreaks in their locations.

⁹ In the appendix, Box A10, Table A11 and Figure A12 analyze the association between solutions and other case characteristics. Solution 1b presents association with Southern region and small cities.

¹⁰ During the reviewing process we took the opportunity to perform a robustness check. In the figure A13 of the appendix, it is possible to see that municipalities outside our solutions presented a faster spread of COVID-19 compared to municipalities participating in our solutions.

The first path (solution 1a) is limited by the lack of specialized resources, therefore, to avoid the spread of COVID-19, the local government has to develop plural collaboration across the public and private sectors. An example is a public-private partnership between the city hall of Mauá, in the state of São Paulo, and a private hospital to increase the number of hospital beds available in the public universal healthcare system. This path shows that in the absence of resources, collaborations might be the best strategy for local government. Additionally, the Mauá’s city hall created the called “Specialized Coronavirus Combat Center”, integrating different departments. Therefore, we call this the *plural collaboration path*. The second path (solution 1b) is constrained by the lack of available resources and threats from social vulnerability. The best strategy for local government is to design public actions such as the provision of aid and coordination with other public units to attenuate the spread of COVID-19. For example, the city hall of Pinhais, in the state of Paraná, provided financial aid to informal workers of recyclable garbage collection. Therefore, we call this the *public action path*. Finally, the third path (solution 2) relies on the well-structured health system. In this case, the presence of healthcare resources guarantees a successful fight against the spread of COVID-19. Therefore, we call it the *resource-based path*.

FIGURE 1 PATHS TO AVOID TRANSMISSION OF COVID-19 AT MUNICIPALITY-LEVEL DURING THE INITIAL STAGES OF THE OUTBREAK



Note: The figure aims to illustrate the results building upon the interpretation of the QCA solutions. Therefore, the objective here is to facilitate the interpretation but not necessarily to be exhaustive.

Source: Elaborated by the authors.

Contributions to the current public administration literature. Comparing the solutions 1 (1a + 1b) and 2, there is an interplay between resource munificence and network-based governance. Resource munificence interacts with the lack of network-based organizations, which contradicts a current public administration framework (e.g., Provan & Milward, 1995), but supports findings of collaborative decision-making in emergency management (e.g., Kapucu & Garayev, 2011). Thus, these findings contribute to a still understudied topic of crisis and disaster management in the field of Public Administration. The role of social vulnerability in the explanations for strategies to cope with public health emergencies can provide new insights into this debate.

Limitations. Taking into account the characteristics of the dataset and the methodological choices, the results are not generalizable. Instead of generalization, the results enable the elaboration of a mid-range theory applied to Brazilian municipality-level during the initial stages of the outbreak in the country. Furthermore, solution 1b highlights the interaction between social vulnerability and government aid programs. However, this solution is also characterized by its location in the Southern Brazilian region and the small population size. Thus, it is important to note that arguing that aid programs are a response to social vulnerability is rather fragile, as the solution 1a shows a don't care situation to social vulnerability in the absence of government aid.

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APPENDIX

BOX A1 LIST OF MUNICIPALITIES IN THE DATASET AND OTHER RELEVANT INFORMATION

Municipality	Date of the first confirmed COVID-19 case	Date of the thirtieth day after the first confirmed COVID-19 case	Number of confirmed COVID-19 cases per 100,000 inhabitants at the thirtieth day	Death rate from COVID-19 at the thirtieth day
Anápolis-GO	16-Mar-2020	14-Apr-2020	5.2	0%
Aquiraz-CE	16-Mar-2020	14-Apr-2020	37.4	0%
Barra Mansa-RJ	5-Mar-2020	3-Apr-2020	1.6	0%
Belo Horizonte-MG	16-Mar-2020	14-Apr-2020	14.8	2%
Belo Jardim-PE	17-Mar-2020	15-Apr-2020	2.6	0%
Braço do Norte-SC	15-Mar-2020	13-Apr-2020	74.7	0%
Campo Bom-RS	10-Mar-2020	8-Apr-2020	6.0	0%
Campo Grande-MS	14-Mar-2020	12-Apr-2020	5.7	0%
Campo Largo-PR	17-Mar-2020	15-Apr-2020	9.1	17%
Carapicuíba-SP	14-Mar-2020	12-Apr-2020	8.2	6%
Caxias do Sul-RS	12-Mar-2020	10-Apr-2020	6.7	0%
Cianorte-PR	12-Mar-2020	10-Apr-2020	15.7	8%
Coronel Fabriciano-MG	17-Mar-2020	15-Apr-2020	2.7	0%
Curitiba-PR	12-Mar-2020	10-Apr-2020	13.0	2%
Divinópolis-MG	8-Mar-2020	6-Apr-2020	6.3	0%
Feira de Santana-BA	6-Mar-2020	4-Apr-2020	3.7	0%
Ferraz de Vasconcelos-SP	12-Mar-2020	10-Apr-2020	18.0	0%
Florianópolis-SC	12-Mar-2020	10-Apr-2020	33.3	2%
Fortaleza-CE	16-Mar-2020	14-Apr-2020	67.2	5%
Foz do Iguaçu-PR	18-Mar-2020	16-Apr-2020	13.9	0%
Goiânia-GO	12-Mar-2020	10-Apr-2020	7.2	5%
Guarulhos-SP	17-Mar-2020	15-Apr-2020	18.3	9%
Ipatinga-MG	12-Mar-2020	10-Apr-2020	1.9	0%
Jaboatão dos Guararapes-PE	17-Mar-2020	15-Apr-2020	14.7	10%
Joinville-SC	13-Mar-2020	11-Apr-2020	8.8	2%
Juiz de Fora-MG	14-Mar-2020	12-Apr-2020	10.5	2%
Londrina-PR	17-Mar-2020	15-Apr-2020	13.0	5%

Continue

Municipality	Date of the first confirmed COVID-19 case	Date of the thirtieth day after the first confirmed COVID-19 case	Number of confirmed COVID-19 cases per 100,000 inhabitants at the thirtieth day	Death rate from COVID-19 at the thirtieth day
Maceió-AL	8-Mar-2020	6-Apr-2020	2.2	9%
Manaus-AM	13-Mar-2020	11-Apr-2020	42.7	5%
Maringá-PR	18-Mar-2020	16-Apr-2020	7.6	16%
Mauá-SP	16-Mar-2020	14-Apr-2020	11.0	2%
Natal-RN	12-Mar-2020	10-Apr-2020	13.2	3%
Niterói-RJ	12-Mar-2020	10-Apr-2020	22.8	4%
Nova Lima-MG	17-Mar-2020	15-Apr-2020	46.4	0%
Patrocínio-MG	14-Mar-2020	12-Apr-2020	6.6	0%
Pinhais-PR	17-Mar-2020	15-Apr-2020	9.8	8%
Porto Alegre-RS	11-Mar-2020	9-Apr-2020	20.4	2%
Porto Seguro-BA	16-Mar-2020	14-Apr-2020	7.4	0%
Prado-BA	17-Mar-2020	15-Apr-2020	14.2	0%
Rancho Queimado-SC	14-Mar-2020	12-Apr-2020	69.5	0%
Recife-PE	12-Mar-2020	10-Apr-2020	25.1	8%
Rio Branco-AC	17-Mar-2020	15-Apr-2020	18.7	4%
Rio de Janeiro-RJ	6-Mar-2020	4-Apr-2020	14.6	4%
Rio Verde-GO	12-Mar-2020	10-Apr-2020	4.7	0%
Salvador-BA	13-Mar-2020	11-Apr-2020	12.4	3%
Santana de Parnaíba-SP	7-Mar-2020	5-Apr-2020	17.2	0%
Santo André-SP	16-Mar-2020	14-Apr-2020	22.3	3%
São Bernardo do Campo-SP	16-Mar-2020	14-Apr-2020	24.0	5%
São Caetano do Sul-SP	16-Mar-2020	14-Apr-2020	47.8	4%
São Paulo-SP	25-Feb-2020	25-Mar-2020	5.9	6%
Sete Lagoas-MG	17-Mar-2020	15-Apr-2020	1.3	0%
Uberlândia-MG	17-Mar-2020	15-Apr-2020	8.8	7%

Source: Elaborated by the authors.

BOX A2 SOURCE OF QUALITATIVE DATA**Source of Qualitative Data by Municipality****Anápolis-GO**

<https://www.jornalopcao.com.br/ultimas-noticias/roberto-naves-divulga-acoes-de-prevencao-ao-novo-coronavirus-em-anapolis-241579/>

<https://sagresonline.com.br/noticias/saude-e-ciencias/100388-prefeitura-de-anapolis-decreta-situacao-de-emergencia-por-cao-do-novo-coronavirus>

<https://portal6.com.br/2020/04/03/decreto-de-calamidade-publica-em-anapolis-e-aprovado-pela-camara-municipal/>

<http://www.diario.anapolis.go.gov.br:8124/dowebans/page/diarioOficial.jsf>

<http://g1.globo.com/goias/videos/t/todos-os-videos/v/comercio-em-anapolis-deve-fechar-para-evitar-disseminacao-do-coronavirus/8408695/>

<https://portal6.com.br/2020/04/18/geolab-doa-respiradores-para-ajudar-no-combate-ao-coronavirus-em-anapolis/>

<https://portal6.com.br/2020/04/18/cestas-basicas-da-prefeitura-de-anapolis-ja-estao-sendo-entregues-as-familias/>

<https://portal6.com.br/2020/04/04/familias-carentes-em-anapolis-poderao-solicitar-cestas-basicas-por-whatsapp/>

Aquiraz-CE

<https://epoca.globo.com/brasil/cidade-do-ceara-tem-escalada-de-coronavirus-apos-propagacao-em-comunidade-catolica-24345034>

<http://www.aquiraz.ce.gov.br/aviso-2/>

<http://www.aquiraz.ce.gov.br/governo-municipal-inaugura-nesta-quinta-feira-16-hospital-de-campanha/>

<http://www.aquiraz.ce.gov.br/refis-2/>

<https://www.opovo.com.br/noticias/ceara/iguatu/2020/04/16/coronavirus--aquiraz-inaugura-primeiro-hospital-de-campanha-no-ceara.html>

<http://www.aquiraz.ce.gov.br/coronavirus-cestas-basicas-sao-distribuidas-no-municipio/>

<https://www.facebook.com/PrefeituraMunicipaldeAquiraz>

Barra Mansa-RJ

<https://diariodovale.com.br/tempo-real/barra-mansa-suspende-temporariamente-aulas-a-partir-de-segunda-dia-16/>

<https://exame.abril.com.br/brasil/mais-de-60-municipios-do-rio-entram-em-calamidade-publica-por-coronavirus/>

<https://diariodovale.com.br/politica/rodrigo-drable-fecha-comercio-em-barra-mansa/>

<http://barramansa.rj.gov.br/index.php/imprensa/noticias/1901-parceria-entre-prefeitura-e-iniciativa-privada-possibilita-a-distribuicao-de-refeicoes-em-comunidades-carentes-de-barra-mansa>

<http://www.barramansa.rj.gov.br/index.php/imprensa/noticias/1889-coronavirus-prefeitura-de-barra-mansa-orienta-populacao-sobre-distribuicao-de-cestas-basicas>

Belo Horizonte-MG

<http://portal6.pbh.gov.br/dom/iniciaEdicao.do?method=DetalheArtigo&pk=1226967>

<http://portal6.pbh.gov.br/dom/iniciaEdicao.do?method=DetalheArtigo&pk=1227069>

<http://portal6.pbh.gov.br/dom/iniciaEdicao.do?method=DetalheArtigo&pk=1227534>

Continue

Source of Qualitative Data by Municipality

<https://prefeitura.pbh.gov.br/smasac/cestas-basicas-para-familias-de-alunos-da-rede-municipal-de-educacao>

<https://g1.globo.com/mg/minas-gerais/noticia/2020/03/31/coronavirus-escolas-publicas-estudam-alternativas-para-repor-aulas-particulares-aderem-ao-ensino-online-em-minas.ghtml>

<https://g1.globo.com/mg/minas-gerais/noticia/2020/03/24/coronavirus-cerca-de-150-mil-familias-de-bh-vao-receber-cestas-basicas-da-prefeitura.ghtml>

<https://g1.globo.com/mg/minas-gerais/noticia/2020/04/01/coronavirus-cobranca-de-impostos-municipais-a-comerciantes-e-suspensa-em-bh.ghtml>

https://www.em.com.br/app/noticia/gerais/2020/03/19/interna_gerais,1130618/coronavirus-pbh-adia-cobranca-de-impostos-para-nao-sufocar-empresas.shtml

Belo Jardim-PE

<https://belojardim.pe.gov.br/portal-transparencia/visualizar/index/legislacoes/2020-03-23-191313/decreto-n-18-calamidade-publica-20200323151108.pdf>

<https://belojardim.pe.gov.br/portal-transparencia/visualizar/index/legislacoes/2020-03-21-000053/decreto-n-17-covid-19-20200320203455.pdf>

<https://belojardim.pe.gov.br/portal-transparencia/visualizar/index/legislacoes/2020-03-21-000053/decreto-n-17-covid-19-20200320203455.pdf>

<https://www.facebook.com/pg/PMBJOficial/posts/>

<https://www.bj1.com.br/empresarios-unem-forcas-e-dao-inicio-a-uma-acao-de-solidariedade-pela-populacao-de-pe/>

Braço do Norte-SC

https://static.fecam.net.br/uploads/591/arquivos/1738029_Diario_Oficial_do_dia_18032020.pdf

https://static.fecam.net.br/uploads/591/arquivos/1740187_II_Diario_Oficial_do_dia_20032020.pdf

<http://www.engeplus.com.br/noticia/geral/2020/prefeito-de-braco-do-norte-suspende-aulas-e-eventos-no-municipio>

https://static.fecam.net.br/uploads/591/arquivos/1744234_Diario_Oficial_do_dia_31032020.pdf

<https://notisul.com.br/geral/acao-bn-disponibilizara-10-tonelada-alimentos-para-familias-carentes-coronavirus/>

<https://www.bracodonorte.sc.gov.br/noticias/index/ver/codMapaltem/14640/codNoticia/610527>

Campo Bom-RS

<https://www.campobom.rs.gov.br/pt-br/prefeitura-de-campo-bom-distribui-500-kits-de-alimentos-para-alunos-da-rede-municipal>

<https://leismunicipais.com.br/a/rs/c/campo-bom/decreto/2020/679/6783/decreto-n-6783-2020-dispoe-sobre-decretacao-de-emergencia-e-medidas-temporarias-de-prevencao-ao-contagio-pelo-covid-19-novo-coronavirus-no-ambito-do-municipio-de-campo-bom-no-que-se-refere-ao-funcionamento-de-restaurantes-bares-casas-noturnas-templos-religiosos-dentre-outros>

<https://leismunicipais.com.br/a/rs/c/campo-bom/decreto/2020/679/6783/decreto-n-6783-2020-dispoe-sobre-decretacao-de-emergencia-e-medidas-temporarias-de-prevencao-ao-contagio-pelo-covid-19-novo-coronavirus-no-ambito-do-municipio-de-campo-bom-no-que-se-refere-ao-funcionamento-de-restaurantes-bares-casas-noturnas-templos-religiosos-dentre-outros?q=covid-19>

<https://www.campobom.rs.gov.br/pt-br/prefeitura-de-campo-bom-triplica-distribuicao-de-cestas-basicas>

Continue

Source of Qualitative Data by Municipality

<https://leismunicipais.com.br/a/rs/c/campo-bom/decreto/2020/679/6781/decreto-n-6781-2020-dispoe-sobre-medidas-temporarias-de-prevencao-ao-contagio-pelo-covid-19-novo-coronavirus-no-ambito-do-municipio-de-campo-bom?q=covid-19>

<https://www.campobom.rs.gov.br/pt-br/prefeitura-de-campo-bom-triplica-distribuicao-de-cestas-basicas>

<https://www.campobom.rs.gov.br/pt-br/prefeitura-higieniza-locais-publicos-para-prevenir-coronavirus>

<https://www.campobom.rs.gov.br/pt-br/coronavirus-campo-bom-cria-comite-publico-privado-para-gerenciar-crise>

<https://www.campobom.rs.gov.br/pt-br/mais-uma-semana-de-solidariedade-no-combate-ao-coronavirus-em-campo-bom>

<https://www.campobom.rs.gov.br/pt-br/tag/noticias?page=1>

<https://www.campobom.rs.gov.br/pt-br/mais-de-1600-atendimentos-na-central-de-informacoes-sobre-o-coronavirus>

https://www.jornalnh.com.br/cotidiano/blogs/bom_exemplo/2020/04/18/campanha--eucrioeeuso-vai-mostrar-mascaras-criativas-em-campo-bom.html

https://www.jornalvs.com.br/noticias/especial_coronavirus/2020/04/09/prefeitura-de-campo-bom-busca-costureiras-voluntarias-para-produzir-25-mil-mascaras.html

<https://www.campobom.rs.gov.br/pt-br/coronavirus-prefeitura-adquire-seis-respiradores-hospitalares>

https://www.jornalvs.com.br/noticias/especial_coronavirus/2020/03/26/prefeitura-de-campo-bom-compra-1-mil-kits-de-testagem-do-novo-coronavirus.html

Campo Grande-MS

<https://g1.globo.com/ms/mato-grosso-do-sul/noticia/2020/03/15/para-prevenir-o-coronavirus-prefeitura-de-campo-grande-suspende-as-aulas-de-escolas-e-creches-por-15-dias.ghtml>

<https://www.campograndenews.com.br/cidades/capital/prefeitura-manda-comercio-e-casas-noturnas-fecharem-as-portas-contra-coronavirus>

<http://www.campogrande.ms.gov.br/cgnoticias/noticias/prefeitura-vai-entregar-kit-merenda-para-20-mil-alunos-do-programa-bolsa-familia/>

<http://www.campogrande.ms.gov.br/cgnoticias/noticias/prefeitura-cria-comite-municipal-de-enfrentamento-e-prevencao-a-covid-19/>

<http://g1.globo.com/mato-grosso-do-sul/videos/t/todos-os-videos/v/campo-grande-decreta-estado-de-emergencia-para-o-novo-coronavirus/8410785/>

<https://www.campograndenews.com.br/cidades/capital/hospital-de-campanha-da-cassems-contra-coronavirus-comeca-a-funcionar-na-segunda>

<http://www.campogrande.ms.gov.br/cgnoticias/noticias/prefeitura-declara-situacao-de-emergencia-em-campo-grande/>

<http://www.campogrande.ms.gov.br/cgnoticias/galerias/utr/>

<http://www.campogrande.ms.gov.br/cgnoticias/noticias/prefeitura-entrega-cestas-basicas-as-familias-de-autonomos-que-prestam-servico-na-utr/>

<http://www.campogrande.ms.gov.br/cgnoticias/noticias/decreto-abre-caminho-para-reabertura-dos-shoppings-e-mantem-suspensas-aulas-e-eventos-com-aglomeracao/>

<http://www.campogrande.ms.gov.br/cgnoticias/noticias/instituicoes-e-orgaos-publicos-se-unem-no-enfrentamento-e-prevencao-do-coronavirus-covid-19/>

<http://www.ms.gov.br/juntos-contra-o-coronavirus-empresarios-associacoes-e-instituicoes-realizam-doacoes-e-servicos/>

Continue

Source of Qualitative Data by Municipality

Campo Largo-PR

<https://leismunicipais.com.br/a/pr/c/campo-largo/decreto/2020/11/104/decreto-n-104-2020-institui-o-comite-de-gestao-de-crise-para-o-covid-19-no-municipio-de-campo-largo-e-da-outras-providencias?q=covid-19>

<https://leismunicipais.com.br/a/pr/c/campo-largo/decreto/2020/9/81/decreto-n-81-2020-dispoe-sobre-as-medidas-para-enfrentamento-da-emergencia-de-saude-publica-de-importancia-internacional-decorrente-da-infeccao-humana-pelo-novo-coronavirus-covid-19?q=covid-19>

<https://leismunicipais.com.br/a/pr/c/campo-largo/decreto/2020/9/84/decreto-n-84-2020-sumula-declara-situacao-de-emergencia-no-ambito-da-saude-publica-no-municipio-de-campo-largo-decorrente-do-coronavirus-covid-19-e-da-outras-providencias?q=covid-19>

<https://leismunicipais.com.br/a/pr/c/campo-largo/decreto/2020/12/111/decreto-n-111-2020-declara-estado-de-calamidade-publica-no-ambito-da-saude-publica-no-municipio-de-campo-largo-decorrente-do-coronavirus-covid-19-e-da-outras-providencias?q=covid-19>

<https://leismunicipais.com.br/a/pr/c/campo-largo/decreto/2020/12/115/decreto-n-115-2020-dispoe-sobre-a-distribuicao-de-alimentos-pereciveis-da-agricultura-familiar-e-nao-pereciveis-da-alimentacao-escolar-aos-alunos-da-rede-publica-municipal-de-ensino-conforme-especifica?q=covid-19>

<https://leismunicipais.com.br/a/pr/c/campo-largo/decreto/2020/12/117/decreto-n-117-2020-dispoe-sobre-a-prorrogacao-dos-prazos-de-vencimentos-dos-tributos-municipais-que-especifica-diante-da-situacao-de-emergencia-em-saude-publica-de-importancia-internacional-pela-disseminacao-do-coronavirus-covid-19-e-da-outras-providencias?q=covid-19>

<https://leismunicipais.com.br/a/pr/c/campo-largo/decreto/2020/12/118/decreto-n-118-2020-regulamenta-a-lei-n-2922-de-05-de-marco-de-2018-disciplinando-a-concessao-dos-beneficios-eventuais-na-modalidade-auxilio-calamidade-publica-como-medida-de-enfrentamento-a-pandemia-covid-19?q=covid-19>

Carapicuíba - SP

<http://www.carapicuiiba.sp.gov.br/uploads/imgfck/Decreto%20-%20declarando%20Estado%20de%20Calamidade-convertido.pdf>

<http://www.carapicuiiba.sp.gov.br/uploads/imgfck/Decreto%20-%20Comissão%20Coronav%20C3%ADrus.pdf>

<http://www.carapicuiiba.sp.gov.br/uploads/imgfck/Decreto%20-%20Suspensão%20Serviços%20Coronav%20C3%ADrus%20ALTERADO.pdf>

<http://www.carapicuiiba.sp.gov.br/index.php/carapicuiiba/noticias/detalle/prefeitura-de-carapicuiiba-antecipa-recesso-escolar-da-rede-municipal>

<http://www.carapicuiiba.sp.gov.br/index.php/educacao/noticias/detalle/prefeitura-de-carapicuiiba-distribui-kit-merenda-aos-alunos-da-rede-municipal>

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Source of Qualitative Data by Municipality

Santana de Parnaíba-SP

<https://leismunicipais.com.br/a/sp/s/santana-de-parnaiba/decreto/2020/436/4354/decreto-n-4354-2020-declara-estado-de-calamidade-publica-no-municipio-de-santana-de-parnaiba-e-dispoe-sobre-a-adocao-de-novas-medidas-para-intensificar-o-combate-ao-novo-coronavirus-covid-19?q=covid-19>

<https://leismunicipais.com.br/a/sp/s/santana-de-parnaiba/decreto/2020/436/4353/decreto-n-4353-2020-autoriza-os-as-secretarios-as-municipais-com-o-suporte-dos-diretores-dos-departamentos-vinculados-a-suas-respectivas-secretarias-a-adotarem-imediatamente-planos-de-trabalhos-que-estipulem-as-providencias-necessarias-para-execucao-de-atividades-a-distancia-por-meio-virtual-telefonico-escritorio-remoto-home-office-qualquer-outro-modelo-nao-presencial-ou-sistema-de-revezamento-por-todos-os-servidores-publicos-cujas-atribuicoes-possam-ser-exercidas-dessa-forma-em-decorrencia-do-novo-coronavirus-covid-19?q=covid-19>

<https://leismunicipais.com.br/a/sp/s/santana-de-parnaiba/decreto/2020/435/4350/decreto-n-4350-2020-dispoe-sobre-a-adocao-no-ambito-da-administracao-publica-direta-e-indireta-de-medidas-temporarias-e-emergenciais-de-prevencao-de-contagio-pelo-coronavirus-covid-19?q=covid-19>

<https://leismunicipais.com.br/a/sp/s/santana-de-parnaiba/decreto/2020/435/4347/decreto-n-4347-2020-declara-estado-de-emergencia-na-saude-publica-no-municipio-de-santana-de-parnaiba-em-razao-de-surto-da-doenca-respiratoria-coronavirus-covid-19?q=covid-19>

<https://correiopaulista.com/santana-de-parnaiba-tera-tres-hospitais-de-campanha/>

Santo André-SP

<https://www.abcdabc.com.br/santo-andre/noticia/covid-19-boletim-santo-andre-30-3-99238>

<http://www3.santoandre.sp.gov.br/parquetecnologico/index.php/especial-coronavirus/>

<https://www.abcdabc.com.br/santo-andre/noticia/santo-andre-lanca-comite-contingencia-coronavirus-98481>

<https://g1.globo.com/sp/sao-paulo/noticia/2020/04/15/coronavirus-abc-amplia-funcionamento-de-postos-de-combustiveis-e-autoriza-bancas-de-jornais-na-quarentena.ghtml>

<https://g1.globo.com/sp/sao-paulo/noticia/2020/04/18/coronavirus-prefeitura-de-santo-andre-restringe-acesso-a-vila-de-paranapiacaba-no-abc.ghtml>

<https://g1.globo.com/sp/sao-paulo/noticia/2020/03/22/prefeitura-de-santo-andre-determina-fechamento-de-comercio-na-cidade-a-partir-desta-segunda.ghtml>

<https://g1.globo.com/sp/sao-paulo/noticia/2020/04/15/santo-andre-inaugura-hospital-de-campanha-com-180-leitos-em-centro-esportivo.ghtml>

<https://www.abcdabc.com.br/santo-andre/noticia/covid-19-boletim-santo-andre-22-4-100376>

<https://www.abcdabc.com.br/santo-andre/noticia/santo-andre-prorroga-suspensao-aulas-fechamento-parques-ate-19-abril-99522>

<https://www.abcdabc.com.br/santo-andre/noticia/santo-andre-levara-alimento-produtos-limpeza-familias-alunos-rede-municipal-99130>

<https://www2.santoandre.sp.gov.br/index.php/noticias/item/13482-santo-andre-cria-fundo-especial-de-combate-ao-coronavirus>

São Caetano do Sul-SP

<http://diariooficial.saocaetanodosul.sp.gov.br/download/VisualizadorDocumento.aspx?docID=798>

<http://diariooficial.saocaetanodosul.sp.gov.br/download/VisualizadorDocumento.aspx?docID=778>

<http://diariooficial.saocaetanodosul.sp.gov.br/download/VisualizadorDocumento.aspx?docID=776>

Continue

Source of Qualitative Data by Municipality

<http://diariooficial.saocaetanodosul.sp.gov.br/download/VisualizadorDocumento.aspx?docID=774>

<https://abcreporter.com.br/2020/03/30/sao-caetano-entregara-alimentos-a-alunos-de-baixa-renda/>

<http://diariooficial.saocaetanodosul.sp.gov.br/download/VisualizadorDocumento.aspx?docID=773>

<https://www.abcdoabc.com.br/sao-caetano/noticia/prefeitura-sao-caetano-entregara-cestas-alimentos-alunos-baixa-renda-99096>

http://www.informaabc.com.br/regional/id-903032/kit_merenda_sera_entregue_em_casa._confira_quem_pode_receber_o_beneficio

<https://www.abcdoabc.com.br/sao-caetano/noticia/entenda-por-que-sao-caetano-se-tornou-exemplo-enfrentamento-pandemia-99914>

<https://abcreporter.com.br/2020/04/20/prefeitura-de-sao-caetano-cria-hospital-de-campanha-para-receber-pacientes-com-covid-19/>

<https://www.abcdoabc.com.br/sao-caetano/noticia/sao-caetano-intensifica-acoes-controle-covid-19-utilizacao-drones-100172>

<https://www.abcdoabc.com.br/sao-caetano/noticia/sao-caetano-recebe-doacoes-empresas-enfrentamento-coronavirus-99690>

São Paulo -SP

<https://g1.globo.com/sp/sao-paulo/noticia/2020/03/16/escolas-publicas-e-particulares-de-sp-comecam-suspensao-de-aulas-nesta-segunda-feira-16.ghtml>

<https://leismunicipais.com.br/a/sp/s/sao-paulo/decreto/2020/5929/59283/decreto-n-59283-2020-declara-situacao-de-emergencia-no-municipio-de-sao-paulo-e-define-outras-medidas-para-o-enfrentamento-da-pandemia-decorrente-do-coronavirus?q=covid-19>

<https://leismunicipais.com.br/a/sp/s/sao-paulo/decreto/2020/5929/59285/decreto-n-59285-2020-suspende-o-atendimento-presencial-ao-publico-em-estabelecimentos-comerciais-e-o-funcionamento-de-casas-noturnas-e-outras-voltados-a-realizacao-de-festas-eventos-ou-recepcoes?q=covid-19>

<https://leismunicipais.com.br/a/sp/s/sao-paulo/decreto/2020/5929/59285/decreto-n-59285-2020-suspende-o-atendimento-presencial-ao-publico-em-estabelecimentos-comerciais-e-o-funcionamento-de-casas-noturnas-e-outras-voltados-a-realizacao-de-festas-eventos-ou-recepcoes?q=covid-19>

<https://leismunicipais.com.br/a/sp/s/sao-paulo/decreto/2020/5932/59313/decreto-n-59313-2020-oficializa-a-camara-de-integracao-institucional-que-objetiva-integrar-os-representantes-dos-poderes-constituídos-e-minimizar-os-impactos-decorrentes-da-situacao-de-emergencia-e-do-estado-de-calamidade-publica-resultantes-da-pandemia-da-covid-19?q=covid-19>

<https://saude.estadao.com.br/noticias/geral,doria-e-covas-decretam-calamidade-publica-em-sp-por-coronavirus,70003241481>

<https://exame.abril.com.br/brasil/estadio-do-pacaembu-vira-hospital-para-atender-vitimas-da-covid-19/>

<https://g1.globo.com/sp/sao-paulo/noticia/2020/03/25/prefeituras-empresarios-e-populacao-se-unem-em-meio-a-crise-do-coronavirus-para-ajudar-populacao-carente.ghtml>

Sete Lagoas-MG

<https://leismunicipais.com.br/a/mg/s/sete-lagoas/decreto/2020/624/6235/decreto-n-6235-2020-prorroga-em-carater-excepcional-o-vencimento-dos-creditos-municipais-no-periodo-que-menciona-para-reducao-dos-impactos-sobre-a-atividade-economica-do-municipio-de-sete-lagoas-em-virtude-das-medidas-de-enfrentamento-para-contencao-da-pandemia-ocasionada-pelo-covid-19?q=covid-19>

Continue

Source of Qualitative Data by Municipality

<https://leismunicipais.com.br/a/mg/s/sete-lagoas/decreto/2020/624/6232/decreto-n-6232-2020-institui-o-gabinete-gestor-da-crise-do-coronavirus-covid-19-no-municipio-de-sete-lagoas?q=covid-19>

<https://leismunicipais.com.br/a/mg/s/sete-lagoas/decreto/2020/624/6231/decreto-n-6231-2020-dispoe-sobre-medidas-de-emergencia-em-saude-publica-no-municipio-de-sete-lagoas-em-complemento-ao-decreto-n-6227-2020-que-declara-situacao-de-emergencia-em-saude-publica-no-municipio-de-sete-lagoas-e-dispoe-sobre-medidas-de-enfrentamento-da-pandemia-provocada-pelo-coronavirus-covid-19?q=covid-19>

<https://leismunicipais.com.br/a/mg/s/sete-lagoas/decreto/2020/623/6227/decreto-n-6227-2020-declara-situacao-de-emergencia-em-saude-publica-no-municipio-de-sete-lagoas-e-dispoe-sobre-medidas-de-enfrentamento-da-pandemia-provocada-pelo-coronavirus-covid-19?q=covid-19>

<https://g1.globo.com/mg/minas-gerais/noticia/2020/04/01/coronavirus-sete-lagoas-reabre-comercio-em-bh-funcionamento-continua-suspenso.ghtml>

<https://setelagoas.com.br/noticias/cidade/61456-assistencia-social-de-sete-lagoas-orienta-sobre-entrega-de-cestas-basicas-e-possivel-beneficio-da-uniao>

<https://leismunicipais.com.br/a/mg/s/sete-lagoas/decreto/2020/622/6227/decreto-n-6227-2020-declara-situacao-de-emergencia-em-saude-publica-no-municipio-de-sete-lagoas-e-dispoe-sobre-medidas-de-enfrentamento-da-pandemia-provocada-pelo-coronavirus-covid-19>

<http://www.setelagoas.mg.gov.br/detalhe-da-materia/info/prefeitura-fiscaliza-estabelecimentos-comerciais-para-cumprimento-de-medidas-contra-o-coronavirus/57532>

Uberlândia-MG

<https://leismunicipais.com.br/a/mg/u/uberlandia/decreto/2020/1853/18523/decreto-n-18523-2020-institui-o-comite-municipal-de-enfrentamento-ao-covid-19-e-designa-membros?q=covid-19>

<https://leismunicipais.com.br/a/mg/u/uberlandia/decreto/2020/1856/18553/decreto-n-18553-2020-declara-situacao-de-emergencia-no-municipio-de-uberlandia-e-define-outras-medidas-para-o-enfrentamento-ao-novo-coronavirus-covid-19?q=covid-19>

<https://leismunicipais.com.br/a/mg/u/uberlandia/decreto/2020/1859/18582/decreto-n-18582-2020-dispoe-sobre-forca-tarefa-temporaria-e-integrada-para-o-exercicio-da-fiscalizacao-de-estabelecimentos-e-atividades-quanto-ao-cumprimento-de-normas-e-diretrizes-estabelecidas-para-o-enfrentamento-do-novo-coronavirus-covid-19-no-ambito-do-municipio-de-uberlandia?q=covid-19>

<https://leismunicipais.com.br/a/mg/u/uberlandia/decreto/2020/1859/18583/decreto-n-18583-2020-declara-estado-de-calamidade-publica-no-municipio-de-uberlandia-em-decorrencia-da-pandemia-do-novo-coronavirus-covid-19?q=covid-19>

<https://g1.globo.com/mg/triangulo-mineiro/noticia/2020/03/20/coronavirus-prefeitura-determina-fechamento-de-parte-do-comercio-em-uberlandia.ghtml>

<https://g1.globo.com/mg/triangulo-mineiro/noticia/2020/03/24/prefeitura-de-uberlandia-volta-atras-e-fecha-totalmente-as-escolas.ghtml>

<https://www.uberlandia.mg.gov.br/2020/04/06/estudantes-cadastrados-no-bolsa-familia-recebem-kit-alimentacao/>

<https://g1.globo.com/mg/triangulo-mineiro/noticia/2020/03/23/combate-ao-coronavirus-empresarios-de-uberlandia-se-unem-para-doar-equipamentos-e-dinheiro-a-hospitais.ghtml>

Note: All links were accessed between April 16th, 2020 and April 18th, 2020.

Source: Elaborated by the authors.

BOX A3 PRESENCE OF SCHOOL LUNCH DISTRIBUTION BY MUNICIPALITY

City	School Lunch
Anápolis-GO	No
Aquiraz-CE	No
Barra Mansa-RJ	No
Belo Horizonte-MG	Yes
Belo Jardim-PE	Yes
Braço do Norte-SC	No
Campo Bom-RS	Yes
Campo Grande-MS	Yes
Campo Largo-PR	Yes
Carapicuíba-SP	Yes
Caxias do Sul-RS	Yes
Cianorte-PR	No
Coronel Fabriciano-MG	No
Curitiba-PR	Yes
Divinópolis-MG	No
Feira de Santana-BA	No
Ferraz de Vasconcelos-SP	Yes
Florianópolis-SC	Yes
Fortaleza-CE	Yes
Foz do Iguaçu-PR	Yes
Goiânia-GO	Yes
Guarulhos-SP	Yes
Ipatinga-MG	Yes
Jaboatão dos Guararapes-PE	Yes
Joinville-SC	No
Juiz de Fora-MG	No
Londrina-PR	Yes
Maceió-AL	No
Manaus-AM	Yes
Maringá-PR	No
Mauá-SP	No
Natal-RN	Yes

Continue

City	School Lunch
Niterói-RJ	Yes
Nova Lima-MG	Yes
Patrocínio-MG	No
Pinhais-PR	Yes
Porto Alegre-RS	Yes
Porto Seguro-BA	No
Prado-BA	Yes
Rancho Queimado-SC	No
Recife-PE	Yes
Rio Branco-AC	No
Rio de Janeiro-RJ	Yes
Rio Verde-GO	No
Salvador-BA	Yes
Santana de Parnaíba-SP	No
Santo André-SP	Yes
São Bernardo do Campo-SP	Yes
São Caetano do Sul-SP	Yes
São Paulo -SP	No
Sete Lagoas-MG	No
Uberlândia-MG	Yes

Source: Elaborated by the authors.

BOX A4 PRESENCE OF OTHER GOVERNMENTAL AID PROGRAMS BY MUNICIPALITY

Description of other governmental aid programs
<p>Anápolis-GO</p> <p>[Distribution of food baskets.]</p>
<p>Aquiraz-CE</p> <p>[Due to the COVID-19 pandemic, with information from Law No. 1,355, of April 7, 2020, which established the Special Tax Debt Installment Concession - REFIS.][Only last Monday (6), the teams distributed 125 food baskets to families affected by the pandemic. This time, an action took place in Caponga da Bernarda, Vila Cabral, Sítios Novos, Barreiras Community and Conjunto Vitória.]</p>

Continue

Description of other governmental aid programs

Barra Mansa-RJ

[The Municipality of Barra Mansa, through the Secretariat for Social Assistance and Human Rights, advises the population on the distribution of 13,000 basic food baskets, which will be delivered to the most vulnerable families due to the quarantine caused by the new coronavirus.]

Belo Horizonte-MG

Not found.

Belo Jardim-PE

Not found.

Braço do Norte-SC

[As of this Tuesday, March 31, the Municipality of Braço do Norte will have an increase in food aid for low-income families and people momentarily deprived of their jobs due to the COVID-19 pandemic.]

Campo Bom-RS

[Basic basket. The delivery of items is a permanent action of the city, but due to the quarantine of the Coronavirus, its demand has more than tripled. Most of the beneficiaries are families already enrolled in the social registry of the city hall and also unemployed, self-employed, informal workers as well as employed people who have lost their purchasing potential in view of the reduction of working hours in some companies.][The first action established by the committee is the donation of 10,000 basic food baskets to the community of Campinas. Mayor Luciano Orsi chaired the conference call with the director of Arezzo & Co.]

Campo Grande-MS

Not found.

Campo Largo-PR

[Disaster relief for the distribution of basic food baskets.]

Carapicuíba_SP

Not found.

Caxias do Sul-RS

Not found.

Cianorte-PR

Not found.

Coronel Fabriciano-MG

Not found.

Curitiba-PR

Not found.

Divinópolis-MG

Not found.

Continue

Description of other governmental aid programs

Feira de Santana-BA

[Feira de Santana City Hall, 100 km from Salvador, will distribute basic food and hygiene and cleaning supplies to families in poverty and extreme poverty, who are registered in the Single Registry (CADÚNICO).][It was started by the City Hall of Feira de Santana. On the last day of March 30, the distribution of about eight thousand basic food baskets for families in extreme poverty. The emergency food aid initiative aims to alleviate the difficulties faced by thousands of people from Feira de Santana, which have worsened due to the need for social isolation due to the coronavirus pandemic (COVID-19).]

Ferraz de Vasconcelos-SP

Not found.

Florianópolis-SC

[The amount earmarked for the Juro Zero Floripa Program will be increased, to serve individual micro entrepreneurs - MEI and micro entrepreneurs - ME.]

Fortaleza-CE

[The measure seeks to help self-employed professionals with R\$ 100,00, such as street vendors, street vendors, permit holders and artisans registered with the City Hall of Fortaleza. A total of 31,917 professionals will benefit from the help for two months.][Box holders or public markets will be exempt from payment of the place, retroactive to the day of the announcement of the closing of the trade decree, on March 19] For the next three months, 138 thousand basic food baskets will be distributed to the most vulnerable families in Fortaleza, through the project "Comida em Casa".]

Foz do Iguaçu-PR

[Foz Juro Zero Microfinance Program.]

Goiânia-GO

Not found.

Guarulhos-SP

Not found.

Ipatinga-MG

Not found.

Jaboatão dos Guararapes-PE

Not found.

Joinville-SC

[Basic food baskets are being delivered to families enrolled in the Single Registry. Those who are not registered should contact us by phone (47) 3433-8659, (47) 3432-8544, (47) 3433-5975 or (47) 3432-8543.]

Juiz de Fora-MG

Not found.

Londrina-PR

Not found.

Maceió-AL

Not found.

Continue

Description of other governmental aid programs

Manaus-AM

[The Executive Branch is authorized to grant an emergency grant, supplementary and provisional, for a period of two months, with resources from the Municipal Treasury, to individuals acting as informal or mobile merchants and service providers of the Trade Centers Popular supported by the Manaus City Hall, in the monthly amount of R\$ 300,00 (three hundred reais), aimed at reducing the operational deficit of the suspension of the activities of the Popular Trade Centers, due to the pandemic caused by the new Coronavirus (COVID-19) in Manaus.][The interruption of the supply of public water and sanitation services provided by the Águas de Manaus Concessionaire, due to consumer default, is suspended for a period of 60 (sixty) days, counting from the date of publication of this Decree] [The amount of the emergency aid grant will be R\$ 300,00 (three hundred reais) monthly.]

Maringá-PR

[Card with R\$ 90,00; families that do not have a Single Registry must make the request by exclusive telephone (news of 04/14).]

Mauá-SP

Not found.

Natal-RN

Not found.

Niterói-RJ

[Financial assistance to be given for a period of three months to individual micro-entrepreneurs] [prohibited to suspend water service in the municipality of Niterói.][Provides for the creation of temporary basic income for citizens of the municipality of Niterói enrolled in CadÚnico] [Provides for the granting of emergency assistance to taxi service licensees and their assistants, as well as to school transport service providers due to the social and economic impacts of the COVID-19 pandemic.]

Nova Lima-MG

Not found.

Patrocínio-MG

Not found.

Pinhais-PR

[The Temporary Social Financial Benefit Program is established for individual waste pickers in the Municipality of Pinhais, affected by the temporary preventive measure to suspend home collection of recyclable waste, due to the emergency situation arising from the Coronavirus Pandemic (COVID-19).]

Porto Alegre-RS

Not found.

Porto Seguro-BA

Not found.

Prado-BA

Not found.

Rancho Queimado-SC

Not found.

Continue

Description of other governmental aid programs
<p>Recife-PE</p> <p>Not found.</p>
<p>Rio Branco-AC</p> <p>Not found.</p>
<p>Rio de Janeiro-RJ</p> <p>Not found.</p>
<p>Rio Verde-GO</p> <p>Not found.</p>
<p>Salvador-BA</p> <p>[Establishes “Salvador Assistance for All”, within the scope of Social Assistance, with the objective of guaranteeing citizens who do not have formal employment the minimum conditions of survival, in the face of the coronavirus pandemic.][Payment of R\$ 270,00 begins this Monday fair (6). In this first stage, the benefit will be paid to more than 14 thousand people, but the expectation is that more than 20 thousand informal workers will be served. They are on the list of the city hall, street vendors, baleiros, baianas de acarajé, drivers by application, recyclers , guards and taxi drivers and motorcycle taxi drivers over 60 years old.][The help of R\$ 270,00 per month for each worker will be offered for three months (April, May and June), during the pandemic caused by the new coronavirus. The program was named Salvador Por Todos.] [Taxi drivers, assistants and application drivers from Salvador over 40 years old will be entitled to R\$ 270,00 assistance offered by the city.]</p>
<p>Santana de Parnaíba-SP</p> <p>Not found.</p>
<p>Santo André-SP</p> <p>Not found.</p>
<p>São Bernardo do Campo-SP</p> <p>Not found.</p>
<p>São Caetano do Sul-SP</p> <p>Not found.</p>
<p>São Paulo-SP</p> <p>Not found.</p>
<p>Sete Lagoas-MG</p> <p>Not found.</p>
<p>Uberlândia-MG</p> <p>Not found.</p>

Note: These are transcriptions from websites.

Source: Elaborated by the authors [translated by the authors; the original is in Portuguese].

BOX A5 PRESENCE OF COLLABORATION WITHIN PUBLIC SECTOR

Description of collaborations within Public Sector
<p>Anápolis-GO</p> <p>Not found.</p>
<p>Aquiraz-CE</p> <p>Not found.</p>
<p>Barra Mansa-RJ</p> <p>Not found.</p>
<p>Belo Horizonte-MG</p> <p>Not found.</p>
<p>Belo Jardim-PE</p> <p>[Municipal Coronavirus Rapid Response Committee.]</p>
<p>Braço do Norte-SC</p> <p>[COVID-19 Crisis Management Advisory Committee.][Representatives of the City Hall, Public Ministry, Judiciary, Civil and Military Police, Brazilian Bar Association and Fire Brigade met on Tuesday afternoon, 17, at the Cabinet Mayor for the creation of a management committee. The idea is to maintain integration between the agencies to optimize the fight against COVID-19 (Coronavírus).]</p>
<p>Campo Bom-RS</p> <p>[COVID-19 Risk Control Committee, which will be of mixed composition between employees of the Municipality and members of society.]</p>
<p>Campo Grande-MS</p> <p>[Creates the municipal committee to confront and prevent COVID-19.]</p>
<p>Campo Largo-PR</p> <p>[Interinstitutional Crisis Management Committee to define an action, prevention and contingency plan in response to the coronavirus pandemic - COVID-19, based on the health department.]</p>
<p>Carapicuíba-SP</p> <p>[The Administrative Commission for Confronting the Coronavirus is hereby established, with the task of advising the Chief Executive in matters of an administrative nature related to the Coronavirus pandemic – COVID-19, which will initially be composed of members of the Secretariats of Security, Health, Legal Affairs and Revenue and Income.]</p>
<p>Caxias do Sul-RS</p> <p>[Mayor Flávio Cassina and Deputy Mayor and Secretary of Planning, Edio Elói Frizzo created this Thursday (12/03) the Crisis Office to closely monitor the progress of Coronavirus cases in the city. In addition to them, the group comprises the Chief of Staff and Government Secretary, Grégora Fortuna dos Passos and the Secretaries of Health, Jorge Castro, of Education, Flávia Vergani, of Human Resources and Logistics, Valéria Wormann and of Management and Finance, Paulo Dahmer , in addition to FAS President Marlês Sebben.]</p>
<p>Cianorte-PR</p> <p>[The Technical Committee for Confronting Coronavirus and Medical Ethics is created, chaired by the Municipal Secretary of Health.]</p>

Continue

Description of collaborations within Public Sector

Coronel Fabriciano-MG

[The Crisis Committee with the objective of centralizing and integrating actions of the Municipality to guarantee protection and assistance to the population.]

Curitiba-PR

[New Coronavirus Epidemic Monitoring Office (Giac-COVID-19) in the State of Paraná. In addition to the Public Ministry of Paraná, the Federal Public Ministry, the Public Ministry of Labor, the National Council of Municipal Health Secretariats (Conasems / PR) and the National Council of State Health Secretaries (Conass / PR) are part of the integrated cabinet. macro-regions (Curitiba, Cascavel, Londrina and Maringá).]

Divinópolis-MG

Not found.

Feira de Santana-BA

[Municipal Coronavirus Control Steering Committee.]

Ferraz de Vasconcelos-SP

[A committee composed of all municipal secretaries and the director of Social Communication, Fernando Felipe, was created by a Health team in the city and chaired by the chief executive of Ferraz, who should direct actions in this direction.]

Florianópolis-SC

Not found.

Fortaleza-CE

Not found.

Foz do Iguaçu-PR

[Municipal Committee for Dengue Control and Prevention and COVID-19.]

Goiânia-GO

Not found.

Guarulhos-SP

Not found.

Ipatinga-MG

[At the initiative of the Ipatinga municipal administration, the first meeting of the Crisis Management Committee was held during the morning of this Tuesday (17th), a body created to discuss with the city authorities effective preventive measures to contain the progress of the new Coronavirus in the municipality, considering the risks of spreading the disease through local and community transmission. The formation of the Committee is based on Decree nº 9273/2020, published last Monday (16), which also established a state of emergency in the municipality.]

Jaboatão dos Guararapes-PE

[Emergency and Strategic Intersectoral Action Plan to comply with the COVID-19 Contingency Plan.]

Joinville-SC

[Creates a Special Commission to examine, monitor and give an opinion on the public health emergency of international importance related to the coronavirus (COVID-19).]

Continue

Description of collaborations within Public Sector

Juiz de Fora-MG

[The Coronavirus Prevention and Confrontation Committee (COVID-19) is created, under the coordination of the Mayor, with the objective of establishing and disseminating actions to prevent the transmission of the virus, composed of representatives of the following bodies:

- I - Mayor's Office;
- II - Health Department;
- III - Secretariat of Education;
- IV - Secretariat for Social Development;
- V - Secretariat for Administration and Human Resources;
- VI - Government Secretariat and;
- VII - Attorney General of the Municipality.]

[In view of the concern with the pandemic of the new coronavirus (SARS-CoV-2), the Federal University of Juiz de Fora (UFJF) and the city hall announced, on Wednesday (15), the collaboration agreement between the parties in combating the spread of the virus.][PJF and State Government create task force for voluntary fundraising.]

Londrina-PR

[Different municipal bodies participate in Coesp.][[Integrated Office for Monitoring the New Coronavirus Epidemic (Giac-COVID-19) in the State of Paraná. In addition to the Public Ministry of Paraná, the Federal Public Ministry, the Public Ministry of Labor, the National Council of Municipal Health Secretariats (Conasems / PR) and the National Council of State Health Secretaries (Conass / PR) are part of the integrated cabinet. macro-regions (Curitiba, Cascavel, Londrina and Maringá).]

Maceió-AL

[The Crisis Office is comprised of the Municipal Management Secretariat (Semge), the Municipal Attorney General's Office (PGM), the Municipal Health Secretariat (SMS), the Municipal Education Secretariat (Semed), the Municipal Social Assistance Secretariat (Semas), Municipal Secretariat for Communication (Secom), Municipal Secretariat for Community Security and Social Living (Semscs) and Governance Office (GGov).]

Manaus-AM

Not found.

Maringá-PR

[The Municipal Health Department created at least four commissions focused on the coronavirus crisis in Maringá. They are: commission for receiving and validating donations; standard operating procedure validation commission; active epidemiological surveillance commission and review committee for requests for essential activities. [New Coronavirus Epidemic Monitoring Office (Giac-COVID-19) in the State of Paraná. In addition to the Public Ministry of Paraná, the Federal Public Ministry, the Public Ministry of Labor, the National Council of Municipal Health Secretariats (Conasems / PR) and the National Council of State Health Secretaries (Conass / PR) are part of the integrated cabinet. macro-regions (Curitiba, Cascavel, Londrina and Maringá).]

Mauá-SP

[baptized as Cecco (Specialized Center for Combating Coronavirus).]

Natal-RN

[The COVID-19 Crisis Office is hereby established, with the function of coordinating the actions of the Municipal Government in confronting and preventing the dissemination of COVID-19, composed of:

- I - Mayor, who will preside over it;
- II - Municipal Secretary of Government;
- III - Municipal Secretary of Social Communication;
- IV - Municipal Health Secretary;
- V - Municipal Secretary of Education;
- VI - Municipal Secretary of Public Security and Social Defense;
- VII - Municipal Secretary of Labor and Social Assistance;
- VIII - Municipal Secretary of Administration.]

Continue

Description of collaborations within Public Sector

Niterói-RJ

[Creates Crisis Office to centralize decision-making, integrate and align the initiatives of the Municipality in the prevention and assistance to the population in relation to the spread of the COVID-19 virus in the Municipality of Niterói and takes other measures.]

Nova Lima-MG

[Emergency Health Operations Center] [The Municipality of Nova Lima, through the Committee to Combat the New Coronavirus.][Crisis Office established, which will be responsible for monitoring and making decisions, aiming to face and combat the pandemic of the New Coronavirus.]

Patrocínio-MG

[Municipal Coronavirus Coping Committee. Public Ministry, Judiciary, Military Police, Civil Police, Santa Casa de Patrocínio, ACIP / CDL, SindComércio, Municipal Health Secretariat, Municipal Attorney's Office.]

Pinhais-PR

[Establishes the Special Municipal Committee for Infection Control of COVID-19 (COMECI-COVID), with the objective of proposing strategies and technical procedures in the sphere of municipal health to face the current epidemiological situation and takes other measures.] [Ica The Temporary Social Financial Benefit Program was established for members of the Association of Pinhais Recyclers - AREPI, affected by the temporary preventive measure to suspend home collection of recyclable waste, due to the emergency situation arising from the Coronavirus Pandemic (COVID-19).]

Porto Alegre-RS

[The Temporary Coronavirus Confrontation Committee (CTECOV) of the Municipality of Porto Alegre is hereby established as a municipal mechanism for coordinated management in response to the public health emergency.]

Porto Seguro-BA

[Coordinator of the Municipal Management Committee for Coronavirus Control in Feira de Santana.]

Prado-BA

Not found.

Rancho Queimado-SC

Not found.

Recife-PE

[Rapid response municipal committee to combat the prevention of the new coronavirus.]

Rio Branco-AC

[Emergency Coping and Monitoring Committee for Human Infection with the New Coronavirus (COVID-19) - CEME-COVID19.][Coronavirus prevention group. The working group is formed by representatives of the Federal University of Acre (UFAC), Collegiate of Public School Directors, Municipal Civil Defense Coordination, SEME and Municipal Health Secretariat (SEMSA).]

Rio de Janeiro-RJ

[Crisis Office. The cabinet, to be headed by the municipal secretary of Public Order, Gutemberg de Paula Faria, or by someone designated by him, will be responsible for integrating all the organs of the city government around actions against the disease.]

Continue

Description of collaborations within Public Sector

Rio Verde-GO

[Center for Emergency Health Operations (COE-COVID19), coordinated by the Health Department.]

Salvador-BA

[The Public Health Emergency Operations Center (COE-COVID-19) will act as a coordinated management mechanism for the response to the confrontation of the New coronavirus at the municipal level, with the management of the COE - COVID being under the responsibility of the Municipal Health Secretariat - SMS -19.][The Municipal Secretariat for Development and Urbanism (Sedur), with the support of the Municipal Civil Guard (GCM) and the Military Police (PM-BA), carried out 1,051 inspections and 91 interdictions in commercial establishments in Salvador last weekend. week. In all, five operating permits were revoked. Actions take place to monitor compliance with measures.]

Santana de Parnaíba-SP

Not found.

Santo André-SP

[The Municipality of Santo André created this Thursday (12th) the Coronavirus Contingency Management Committee, with the objective of monitoring the progress of COVID-19 in the municipality. The committee comprises representatives of the Health Secretariat, the Education Secretariat, the Citizenship and Social Assistance Secretariat, the Development and Employment Generation Secretariat, as well as the network of private hospitals and the academic community of the ABC Medical School and the Federal University of ABC.]

São Bernardo do Campo-SP

[The Municipality of São Bernardo anticipated the facts and created, as of this Friday (01/31), the “Committee to Combat Coronavirus”, which will have the participation of a multidisciplinary Health team and the other secretariats to, based on guidance from the State Health Secretariat and the Ministry of Health, outline the necessary guidelines for preventing and combating disease in the city.]

São Caetano do Sul-SP

[One of the requests of Mayor José Auricchio Júnior, during the meetings of the Committee for the Emergency and Combat of Coronavirus, is that we have all the possible and available tools for this war against the COVID-19.]

São Paulo-SP

[The Institutional Integration Chamber, which aims to integrate the representatives of the Constituted Powers and to minimize the impacts resulting from the emergency situation and the state of public calamity resulting from the COVID-19 pandemic, officializes.]

Sete Lagoas-MG

[Coronavirus Crisis Management Office (COVID-19) in the municipality of Sete Lagoas, due to the state of emergency in public health] [The Emergency Health Operations Center - COE-SETELAGOAS-COVID-19 is installed, coordinated by Municipal Health Secretariat, to monitor the declared public health emergency.][This Sunday, 15, the Special Health Operations Operations Committee began in partnership with several municipal secretariats in order to determine emergency actions to prevent the spread of the new Coronavirus in Sete Lagoas.]

Uberlândia-MG

[The Municipal Committee for Confronting COVID-19 is hereby established in order to implement preventive actions in public health in the Municipality of Uberlândia.][TEMPORARY and integrated Task Force for the inspection of establishments and activities regarding compliance with standards and guidelines established for coping with the NEW CORONAVIRUS - COVID-19 within the municipality of Uberlândia.]

Note: These are transcriptions from websites.

Source: Elaborated by the authors [translated by the authors; the original is in Portuguese]

BOX A6 PRESENCE OF COLLABORATION BETWEEN PUBLIC AND PRIVATE SECTORS**Description of collaborations between public and private sectors****Anápolis-GO**

Not found.

Aquiraz-CE

Not found.

Barra Mansa-RJ

[The partnership established between the City Hall of Barra Mansa, the company Saint Gobain and the Itinerante Restaurant started to make it possible, starting this Friday, the 17th, to distribute marmitex to residents of needy areas of the municipality. The intention is to deliver food daily, including Saturdays, Sundays and holidays.]

Belo Horizonte-MG

Not found.

Belo Jardim-PE

[The companies Construtora Viana & Moura, Grupo Cornélio Brennand, Grupo Moura and Ferreira Costa enter with a donation. The NGO Novo Jeito e Transforma Brasil coordinates the activities. It has the support of city halls, the state government and the army. The website is Empresariosporpe.com.br.][Instituto Conceição Moura donated basic food baskets for schools and day care centers in the Municipal Education Network and was supported by Transportadora Bitury. 1000 families were distributed to the families of the day care centers of the Municipal Network Mocinha Moura, Samaritana, Vovó Maria, the Jurandir de Brito, Lucielma and Debora Valença Children's Centers.]

Braço do Norte-SC

Not found.

Campo Bom-RS

[Sixteen private companies, two class entities, the main union of Campo Bom, Legislative and Municipal Executive. All gathered in a conference call held today afternoon, 31 and which resulted in an unprecedented initiative: the implementation of a public-private committee that will discuss effective and preventive actions focused on the development of the city during and after COVID-19.][The community of Campo Bom continues to contribute and mobilize to help fight the coronavirus in the municipality. The Campo Bom City Hall received donations from companies, entities and volunteers throughout the week who are aware of the current pandemic scenario and go to great lengths to help others. Under the umbrella of the front Todos por Campo Bom - in which companies, entities and the union join efforts to maintain jobs and fight hunger in the city - the items donated this week made a difference in the community.]

Campo Grande-MS

Not found.

Campo Largo-PR

Not found.

Carapicuíba-SP

Not found.

Continue

Description of collaborations between public and private sectors

Caxias do Sul-RS

Not found.

Cianorte-PR

Not found.

Coronel Fabriciano-MG

Not found.

Curitiba-PR

[Curitiba joins the C40 task force, a worldwide network of cities that seeks solutions to problems arising from climate change, to reduce the economic impacts in the world resulting from the new coronavirus pandemic.][DOCTORALIA BRASIL SERVIÇOS ONLINE E SOFTWARE LTDA. a Streaming Platform, which is characterized by a form of distribution I (image by video) to improve the response time of service to SUS users to contribute to the fight against Coronavirus (COVID19) in the Municipality of Curitiba] [BOTICA COMERCIAL FARMACÊUTICA LTDA. Donation of 05 (five) thousand units of antiseptic cloud gel, the product of which is intended to contribute to the fight against the public health emergency of international importance resulting from the Coronavirus (COVID19) in the Municipality of Curitiba.]

Divinópolis-MG

Not found.

Feira de Santana-BA

Not found.

Ferraz de Vasconcelos-SP

Not found.

Florianópolis-SC

[In partnership with ACM (Associação Catarinense de Medicina) and Acate (Associação Catarinense de Tecnologia), the municipality draws up a master plan for information technologies to face the pandemic. The municipality has already started sending SMS to people who live within 200 meters of someone confirmed with a coronavirus.][The measure is possible thanks to a partnership with the Catarinense Technology Association, which crosses its database with those of the capital city government to identify the recipients. Started on March 31, the project had already sent 98,207 alerts by last Sunday.]

Fortaleza-CE

[Fortaleza is among the 70 cities on all continents that are part of an international task force to create strategies to combat the pandemic of the new coronavirus. The Partnership for Healthy Cities project, in English, is an initiative funded by the North American foundation Bloomberg Philanthropies with support from the World Health Organization (WHO) and Vital Strategies.][The objective of the public- between the Verdes Mares System and the City Hall of Fortaleza seeks to help collect food, cleaning items and cash donations to help people who are unable to provide services.][The City Hall of Fortaleza launched on Friday, 3, the program “Everyone with a Mask”, which aims to produce 2.5 million reusable fabric masks to distribute among the population. The project will be carried out in partnership with micro-enterprises and small seamstresses, who must sign up to participate through the public notice that will be launched until April 15th. There will be 300 individual vacancies and 24 for small companies.]

Continue

Description of collaborations between public and private sectors

Foz do Iguaçu-PR

[According to the coordinator, the purchase of the 28 thousand exams was done in two stages. In the first, the city and Unila invested, in total, almost R\$ 260,00 thousand with 8 thousand tests from COVID-19. In the second stage, according to the city, the Municipal Health Foundation bought 20 thousand tests, with the investment of R\$ 640k. The average cost of each test is R\$ 32,00. According to Itaipu Binacional, the plant is studying the creation of an agreement with the municipality for hiring up to 1,500 beds in Foz do Iguaçu hotels. The spaces would be used for the isolation of infected patients.][As of this Wednesday (18th), the agreement, in the amount of US\$ 3 million, signed between the Itaipu plant and the Itaipu Health Foundation, responsible for the management of the Ministro Costa Cavalcanti Hospital (HMCC), to deal with a possible coronavirus outbreak (COVID-19).][The City Hall of Foz do Iguaçu received, yesterday afternoon (13), the donation of 75 liters of glycerin alcohol 80% from the Federal University of Latin American Integration (UNILA). The product, manufactured by researchers from the institution, will be used by the Municipal Health Secretariat.][The Municipal Health Foundation, the manager of the Padre Germano Lauck Municipal Hospital (HMPGL), has already opened accreditation for hiring up to 1,500 beds in the hotel chain.]

Goiânia-GO

Not found.

Guarulhos-SP

Not found.

Ipatinga-MG

Not found.

Jaboatão dos Guararapes-PE

Not found.

Joinville-SC

Not found.

Juiz de Fora-MG

Not found.

Londrina-PR

[Coesp (Public Health Emergency Operations Center) to discuss the progressive resumption of the productive sector. The decision came out around 9:30 pm on Thursday (9). Participating in the meeting, in addition to representatives of the city, the prosecutor Suzana Lacerda, of Public Health Defense, members of Acil (Commercial and Industrial Association of Londrina), ACP (Commercial Association of Paraná) and the technical group that make up the Coesp, professionals and medical leaders in public and private health. This committee is responsible for managing actions and decision making regarding the coronavirus in Londrina.]

Maceió-AL

Not found.

Manaus-AM

[The field hospital was set up by the city of Manaus. The private network of hospitals Samel provided staff, equipment and will help with management.]

Maringá-PR

Not found.

Continue

Description of collaborations between public and private sectors

Mauá-SP

[In view of the advancement of the new coronavirus (COVID-19) in Brazil, the mayor of Mauá, Atila Jacomussi, signed this last Tuesday (31) an agreement that establishes a public-private partnership with Hospital Vital and Medical Health, the first such agreement between ABC municipalities. In all, there will be up to 29 beds for patients with the pathology, with 24 isolation spaces and five in the Intensive Care Unit (ICU), equipped with new respirators.]

Niterói-RJ

Not found.

Nova Lima-MG

Not found.

Patrocínio-MG

Not found.

Pinhais-PR

Not found.

Porto Alegre-RS

Not found.

Porto Seguro-BA

Not found.

Prado-BA

Not found.

Rancho Queimado-SC

Not found.

Recife-PE

[The companies Construtora Viana & Moura, Grupo Cornélio Brennand, Grupo Moura and Ferreira Costa enter with a donation. The NGO Novo Jeito e Transforma Brasil coordinates the activities. It has the support of city halls, the state government and the army. The website is Empresariosporpe.com.br.]

Rio Branco-AC

Not found.

Rio de Janeiro-RJ

Not found.

Rio Verde-GO

[Center for Emergency Health Operations (COE-COVID19), coordinated by the Health Secretariat. In addition to several government agencies, it involves companies, NGOs and religious entities. See organization chart in sources.]

Salvador-BA

[The Salvador Solidária campaign, created to help the population in combating the effects of the crisis caused by the new coronavirus, gained significant reinforcements: the Chamber of Shopkeepers (CDL) of Salvador and the Federation of Shopkeepers of the State of Bahia (FCDL-BA). Both joined the campaign launched by the City of Salvador.][An agreement between the City of Salvador and the Oswaldo Cruz Foundation (Fiocruz) increased the number of tests for coronaviruses to be carried out in the capital of Bahia.]

Continue

Description of collaborations between public and private sectors	
Santana de Parnaíba-SP	Not found.
Santo André-SP	Not found.
São Bernardo do Campo-SP	Not found.
São Caetano do Sul-SP	[As a way to create alternatives for city entrepreneurs during the coronavirus crisis, the Municipality of São Caetano do Sul has just closed a partnership with the startup Olist. Now, microentrepreneurs, small businesses, freelancers, professionals and artisans in the city can have their own virtual showcase for free in the app. Registration is now available on the Olist Shops online platform.][The initiative results from a partnership with the medical course at the Municipal University of São Caetano do Sul (USCS) and the Institute of Tropical Medicine at the University of São Paulo (USP). General Motors do Brasil loaned 18 cars for use in the program.]
São Paulo-SP	[Partnership for the construction of a field hospital.]
Sete Lagoas-MG	[The city of Sete Lagoas will have a field hospital with 20 beds of medium and low complexity. The structure will be made possible through a partnership between the Centro Universitário de Sete Lagoas (Unifemm), the civil organization Avante Social and the City Hall.][Unifemm will carry out the coronavirus testing. The test result will come out quickly, around 15 minutes. The test detects the virus from the seventh day of infection; there is this immunological window “, explains the dean.]
Uberlândia-MG	Not found.

Note: These are transcriptions from websites

Source: Elaborated by the authors [translated by the authors; the original is in Portuguese].

BOX A7 BRIEF DESCRIPTION OF CALIBRATION PROCESS

Variable	Calibration procedure (type os fuzzy scale)
Resource munificence (physicians)	Based on quantiles: 0 = “fully out”, .33 = “more out than in”, .67 = “more in than out”, and 1 = “fully in”
Resource munificence (hospital bed)	
Outcome variable	
Social vulnerability	Based on quantiles for the whole Brazilian municipalities: Outcome variable
Governmental aids	0 = no aid program available; 0.33 = one aid program available; .67 = two aid program available; 1 = three aid program available
Collaboration within public sector	0 = “fully in” to the presence of this collaboration type and 1 = “fully out” to the absence
Collaboration with private sector	

Note: The calibration procedure, which is the process of moving from a raw data matrix to a recoded matrix. The recoding method consisted in the application of a fuzzy scale.

Source: Elaborated by the authors.

BOX A8 DESCRIPTIVE STATISTICS OF CONTEXTUAL FACTORS

Variables	Mean	Standard Deviation	Sample Variance	Minimum	Maximum	Count
<i>Hospital bed per 100,00 inhabitants</i>	2.55	6.91	47.76	0	49.24	52
<i>Physicians per 100,00 inhabitants</i>	273.29	146.17	21365.34	34.75	665.94	52
<i>Social vulnerability index</i>	0.27	0.08	0.01	0.13	0.46	52

Source: Elaborated by the authors.

BOX A9 COMPARISON BETWEEN SOLUTIONS AND NUMBER OF DAYS BETWEEN TO FIRST CASE AND LAWS CLOSING SHOPS AND SCHOOLS

Solutions	Number of days between first case and shops closed	Number of days between first case and schools closed
1a	From 3 to 9 (average 7.0)	From 0 to 5 (average 4.5)
1b	From 4 to 8 (average 6.0)	From 6 to 13 (average 9.5)
2	From 4 to 7 (average 7.7)	From 3 to 10 (average 5.7)
Full sample	From 0 to 26 (average 6.88)	From 0 to 27 (average 5.85)

Source: Elaborated by the authors.

BOX A10 SOLUTIONS VERSUS DATE OF THE FIRST CASE

Solution	Municipality	Date of the first confirmed COVID-19 case
1a	Belo Jardim-PE	17-Mar-2020
1a	Curitiba-PR	12-Mar-2020
1a	Mauá-SP	16-Mar-2020
1a	Rio Verde-GO	12-Mar-2020
1b	Pinhais-PR	17-Mar-2020
1b	Campo Bom-RS	10-Mar-2020
2	Belo Horizonte-MG	16-Mar-2020
2	Divinópolis-MG	8-Mar-2020
2	Goiânia-GO	12-Mar-2020

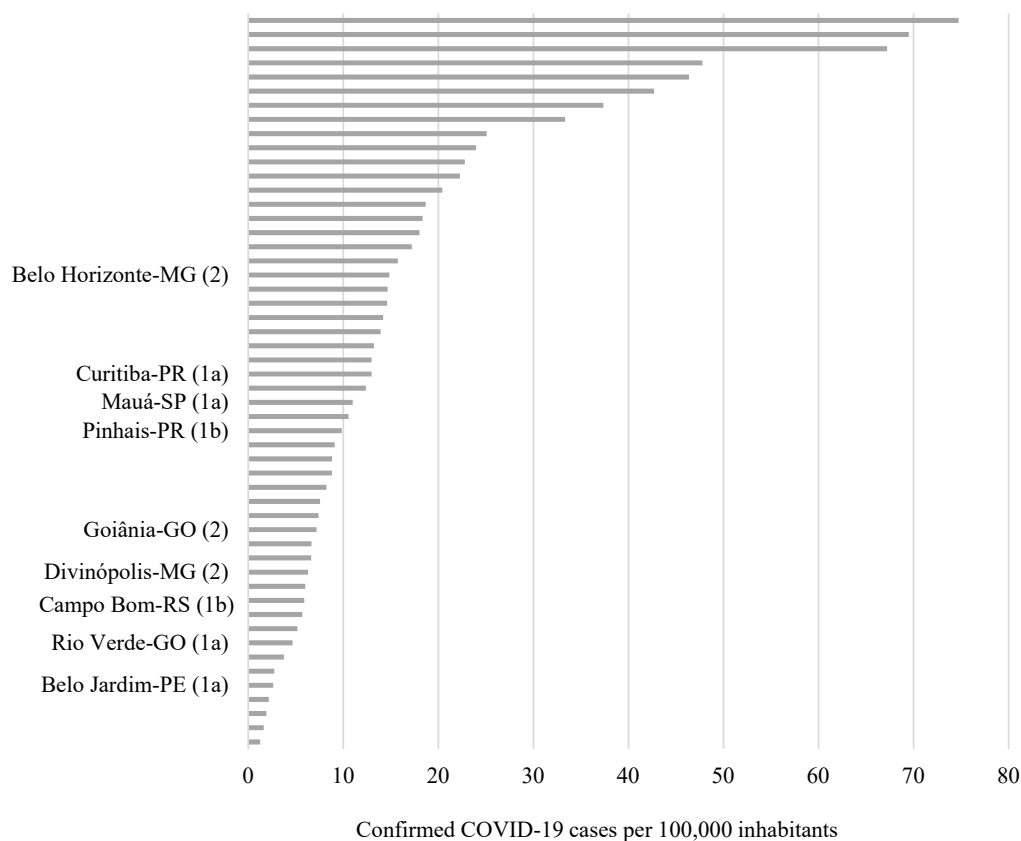
Source: Elaborated by the authors.

TABLE A11 SOLUTIONS VERSUS CITY SIZE

Solution	Municipality	Estimated population in 2019
1a	Belo Jardim-PE	76,439
1a	Curitiba-PR	1,933,105
1a	Mauá-SP	472,912
1a	Rio Verde-GO	235,647
1b	Pinhais-PR	132,157
1b	Campo Bom-RS	66,712
2	Belo Horizonte-MG	2,512,070
2	Divinópolis-MG	238,230
2	Goiânia-GO	1,516,113

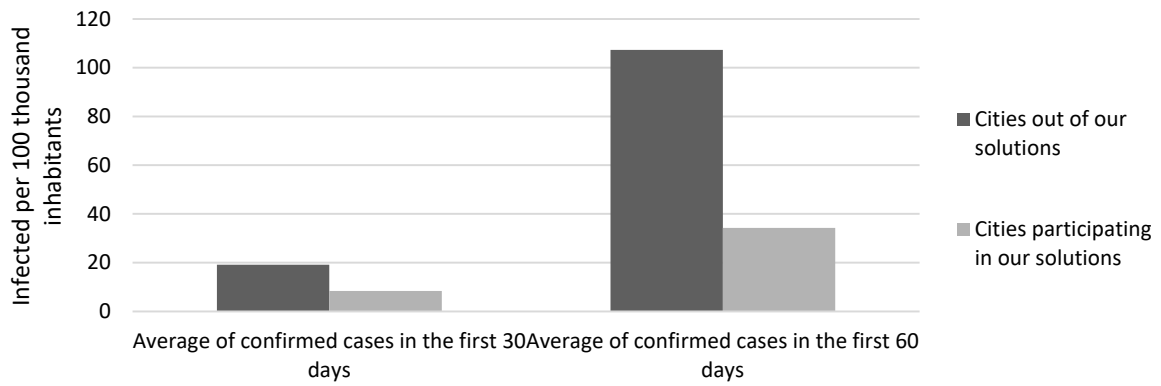
Source: Elaborated by the authors.

FIGURE A12 SOLUTIONS VERSUS NUMBER OF CONFIRMED CASES PER 100,000 INHABITANTS



Note: solution in the parentheses.
 Source: Elaborated by the authors.

FIGURE A13 ROBUSTNESS CHECK. COMPARING THE OUTCOMES OF CITIES WITHIN OUR SOLUTIONS AND CITIES OUT OF OUR SOLUTIONS, IT IS POSSIBLE TO SEE A FASTER SPREAD RATE IN CITIES OUT OF OUR SOLUTIONS



Source: Elaborated by the authors.