

RESEARCH ARTICLE

Dynamic transmission modeling of COVID-19 to support decision-making in Brazil: A scoping review in the pre-vaccine era

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Abstract

Brazil was one of the countries most affected during the first year of the COVID-19 pandemic, in a pre-vaccine era, and mathematical and statistical models were used in decision-making and public policies to mitigate and suppress SARS-CoV-2 dispersion. In this article, we intend to overview the modeling for COVID-19 in Brazil, focusing on the first 18 months of the pandemic. We conducted a scoping review and searched for studies on infectious disease modeling methods in peer-reviewed journals and gray literature, published between January 01, 2020, and June 2, 2021, reporting real-world or scenario-based COVID-19 modeling for Brazil. We included 81 studies, most corresponding to published articles produced in Brazilian institutions. The models were dynamic and deterministic in the majority. The predominant model type was compartmental, but other models were also found. The main modeling objectives were to analyze epidemiological scenarios (testing interventions' effectiveness) and to project short and long-term predictions, while few articles performed economic impact analysis. Estimations of the R_0 and transmission rates or projections regarding the course of the epidemic figured as major, especially at the beginning of the crisis. However, several other outputs were forecasted, such as the isolation/quarantine effect on transmission, hospital facilities required, secondary cases caused by infected children, and the economic effects of the pandemic. This study reveals numerous articles with shared objectives and similar methods and data sources. We observed a deficiency in addressing social inequities in the Brazilian context within the utilized models, which may also be

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100 Questions & Answers About Childhood Immunizations Thomas H. Belhorn, 2008-11-13 **Immunizations, An Issue of Primary Care Clinics in Office Practice** Marc Altshuler, 2011-10-28 This issue covers important topics to any primary care physician such as Immunology for the primary care physician Routine pediatric immunization special cases in pediatrics Routine adult immunization special cases in adult vaccination Foreign born individuals Travel medicine Immunoglobulins Pandemic illness flu Future vaccine development clinical trials immunization and cancer prevention treatment Ethics of vaccination refusal Vaccine administration Rules and regulations and Keeping current with vaccine recommendations **Your Baby, Your Way** Jennifer Margulis, 2013-04-16 A finalist for a Books for a Better Life Award this eye opening must read book arms parents with the information they need to make informed decisions about their own health and the health of their babies In *Your Baby Your Way* award winning journalist Jennifer Margulis explores our current cultural practices during pregnancy childbirth and the first year of a baby's life challenges advice given to new mothers and encourages parents to question what they're told about prenatal and infant care Margulis explains how financial interests often skew the treatment we give to mothers and infants investigating topics such as How the diaper industry perpetuates delays in potty training Why cesareans are increasingly prevalent Why more women don't breastfeed Based on meticulous research and in depth interviews with parents doctors midwives nurses health care administrators and scientists Margulis's impassioned and eloquent critique is shocking groundbreaking empowering and revelatory Going beyond the advice in the *What to Expect* books *Your Baby Your Way* inspires and empowers helping couples have a happier healthier pregnancy and childbirth and motivates women to ask why before blindly agreeing to everything their doctor orders Booklist *The Nursing Associate at a Glance* Ian Peate, 2021-07-06 Everything you need to know about *The Nursing Associate at a Glance* *The Nursing Associate at a Glance* is a comprehensive guide developed to support trainee nursing associates with revision and practice based learning helping readers to uphold and maintain their Code of Conduct promote healthy behaviours treat ill health and provide and monitor care effectively Aligned with the six Nursing and Midwifery Council standards of proficiency for nursing associates the book provides indispensable information about a range of areas of care including How to contribute to integrated care including how to be resilient and how to understand the various roles of health and social care teams How to improve the safety and quality of care including an examination of health and safety legislation and the use of risk assessment tools How to effectively work in teams including positive interaction with other members of the care team and how to manage data How to provide and monitor care including discussions of deteriorating anxious and confused patients Perfect for trainee nursing associates seeking to successfully graduate from the nursing associate programme *The Nursing Associate at a Glance* provides readers with the skills and knowledge required to be competent confident and compassionate nursing associates *Behind Closed Doors* Joanne Stanton, Christine O'Donnell, 2017-09-26 *Behind Closed*

Doors tells the story of two mothers who began investigating serious health issues in their own son and daughter and ended up writing an expose about the declining health of an entire generation of American children In their relentless attempts to improve the health of their own children they uncovered harmful trends in our food pharmaceuticals and environment all stemming from weak laws and conflicts of interest What they discovered shocked and ultimately empowered them to get actively involved in questioning and reforming these harmful out of balance practices and to inspire other moms to do the same Behind Closed Doors not only offers scientifically verified evidence of how declining industry practices are harming our kids but showcases solutions like environmental medicine and other integrative health practices shares personal success stories and provides tools and solutions parents can immediately implement equipping and inspiring us all to stand together for change

Vaccine Epidemic Louise Kuo Habakus, Mary Holland, Kim Mack Rosenberg, 2011-02-09 Public health officials state that vaccines are safe and effective but the truth is far more complicated Vaccination is a serious medical intervention that always carries the potential to injure and cause death as well as to prevent disease Coercive vaccination policies deprive people of free and informed consent the hallmark of ethical medicine Americans are increasingly concerned about vaccine safety and the right to make individual informed choices together with their healthcare practitioners Vaccine Epidemic focuses on the searing debate surrounding individual and parental vaccination choice in the United States Habakus Holland and Rosenberg edit and introduce a diverse array of interrelated topics concerning the explosive vaccine controversy including the ethics of vaccination mandates corrupting conflicts of interest in the national vaccine program and personal narratives of parents children and soldiers who have suffered vaccine injury Newly updated with additional chapters focusing on institutional scientific misconduct mandates for healthcare workers concerns about HPV vaccine development and the story behind the Supreme Court's recent vaccine decision Vaccine Epidemic remains the essential handbook for the vaccination choice movement and required reading for all people contemplating vaccination for themselves and their children

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