UNITED STATES DISTRICT COURT FOR THE DISTRICT OF PUERTO RICO

TROPICAL CHILL CORP. et al.

Plaintiffs,

CIVIL NO. 21-1411 (RAM)

v.

HON. PEDRO R. PIERLUISI URRUTIA et al.

Defendants.

JOINT MOTION IN COMPLIANCE WITH ORDER

I. FACTUAL STIPULATIONS

- 1. According to the CDC, as of October 7, 2021, Puerto Rico was second among U.S. jurisdictions (Palau is again first) in "Percent of Total Pop Fully Vaccinated by State of Residency" of those reported. Refer to Appendix 2. CDC, COVID-19 Vaccinations in the United States (View: Total Doses, Show: Administered, Metric: Rate per 100,000, Population: Total Population), *Data Table for COVID-19 Vaccinations in the United States*, https://covid.cdc.gov/covid-data-tracker/#vaccinations_vacc-people-fully-percent-total
- 2. According to the Puerto Rico Health Dept. COVID-19 dashboard, as of October 8, 2021, Puerto Rico had, of the eligible population, 79.8% fully vaccinated and 88% with one dose, while on August 16, 2021, when EO 2021-062 became effective, Puerto Rico had 72.4% fully vaccinated and 82.3% with one dose, and on August 5, 2021, when EO 2021-062 was announced, Puerto Rico had 71.3% fully vaccinated and 79.8% with one dose. Refer to Appendixes 3A and 3B. Puerto Rico Health Department COVID-19 Dashboard, *Vacunacion*, https://covid19datos.salud.gov.pr/#vacunacion
- 3. According to U.S. Census, Puerto Rico's population in 2020 was 3,285,874. United States Census, *Puerto Rico: 2020 Census*, https://www.census.gov/library/stories/state-by-state/puerto-rico-population-change-between-census-decade.html
- 4. According to the Puerto Rico Health Dept. COVID-19 dashboard, of the total population able to be vaccinated, from August 6, 2021, the day after the EO 2021-062 was announced, to October 8, 2021, a total of 8.5% were fully vaccinated and 8.2%

received one dose. From August 6 to September 3, 2021 (28 days), 4% were fully vaccinated and from September 4 to October 2, 2021 (28 days), 4.1% were fully vaccinated. From July 8 to August 5, 2021 (28 days), 3.6% were fully vaccinated. Refer to Appendixes 5A and 5B. Puerto Rico Health Department COVID-19 Dashboard, *Vacunacion*, https://covid19datos.salud.gov.pr/#vacunacion

- 5. According to the Puerto Rico Health Dept. COVID-19 dashboard, as of October 8, 2021, of the people with at least one dose, 364,512 people are 60-69 years old, 277,285 are 70-79 years old and 143,000 are 80+ years old. These numbers total 784,797 people aged 60 or higher who have received at least one dose. Refer to Appendix 6. Puerto Rico Health Department COVID-19 Dashboard, *Vacunacion*, https://covid19datos.salud.gov.pr/#vacunacion
- 6. According to the Puerto Rico Health Dept. COVID-19 dashboard, on October 8, 2021, the numbers of vaccinated people by age and sex were as follows. In the 60-69 years old group, males: 150,233 fully vaccinated, 163,601 with at least one dose, and 17,800 not vaccinated; females: 183,708 fully vaccinated, 199,943 with at least one dose, and 17,719 not vaccinated. In the 70-79 years old group, males 108,341 fully vaccinated, 118,488 with one dose, and 18,553 not vaccinated; females 144,388 fully vaccinated, 157,908 with at least one dose, and 12,934 not vaccinated. In the 80+ years old group, males 49,162 fully vaccinated, 54,404 with at least one dose, and 18,121 not vaccinated; females 78,844 fully vaccinated, 88,073 with at least one dose, and 21,242 not vaccinated. Refer to Appendix 7A, 7B, 7C, 7D, 7E, 7F. Puerto Rico Health Department COVID-19 Dashboard, Vacunacion, https://covid19datos.salud.gov.pr/#vacunacion
- 7. According to the Puerto Rico Health Dept. COVID-19 dashboard, as of October 8, 2021, among the 80+ year-old population, there have been 985 deaths (30.8% of total COVID-19 related deaths), among 70-79 year-olds, 832 deaths (26.1%), and among 60-69 year-olds, 614 deaths (19.2%). At the same time, among 50-59 year-olds, 451 deaths (14.1%); among 40-49 year-olds, 202 deaths (6.3%); among 30-39 year-olds, 73 deaths (2.3%); among 20-29 year-olds, 28 deaths (0.9%); among 10-19 year-olds, 6 deaths (0.2%), and among 0-9 year-olds, 2 deaths (0.1%). The total accumulated deaths related to COVID are 3,193. Refer to Appendix 9. Puerto Rico Health Department COVID-19 Dashboard, *Defunciones*, https://covid19datos.salud.gov.pr/#defunciones
- 8. According to the CDC, as of October 9, 2021, Puerto Rico, with 50,375.93 "cumulative tests performed per 100K" is second to last (ahead only of the U.S. Virgin Islands), listed number 49 of 50 of U.S. jurisdictions reported. Refer to Appendix 12. CDC, Cases, Deaths and Testing (View: Tests Performed, Time Period: All Time, Metric: Rate per 100,000), Data Table for Cumulative COVID-19 Nucleic Acid Amplification Tests (NAATs) Performed per 100k by State/Territory, https://covid.cdc.gov/covid-data-tracker/#cases_testsper100k
- 9. According to the CDC, as of October 9, 2021, Puerto Rico, with 5,533.12 "# tests performed last 30 days per 100K" is fifth to last (ahead only of the U.S. Virgin Islands,

Mississippi, Nebraska and Oklahoma), listed number 46 of 50 of U.S. jurisdictions reported. Refer to Appendix 13. CDC, Cases, Deaths and Testing (View: Tests Performed, Time Period: Last 30 Days, Metric: Rate per 100,000), *Data Table for COVID-19 Nucleic Acid Amplification Tests (NAATs) Performed in Last 30 Days per 100k* by State/Territory, https://covid.cdc.gov/covid-data-tracker/#cases_testsper100k30day

- 10. According to the Puerto Rico Health Department COVID-19 dashboard, as of October 8, 2021, there were a total of 150,569 accumulated confirmed cases and 32,210 accumulated probable cases accumulated. This totalizes 182,779 (150,569 + 32,210) accumulated cases. Refer to Appendix 14. Puerto Rico Health Department COVID-19 Dashboard, *Casos*, https://covid19datos.salud.gov.pr/#casos
- 11. According to the Puerto Rico Health Department COVID-19 dashboard as of October 8, 2021, from July 1, 2020 to June 15, 2021, there were 120,590 accumulated confirmed cases and 2,067,324 accumulated molecular tests administered and, from June 16, after the Delta variant was first confirmed in Puerto Rico, to October 7, 2021, there were 27,760 accumulated confirmed cases and 578,994 accumulated molecular tests administered. Refer to Appendixes 18A and 18B. Puerto Rico Health Department COVID-19 Dashboard, *Casos*, https://covid19datos.salud.gov.pr/#casosPuerto Rico Health Department Covid-19 Dashboard, *Pruebas*, https://covid19datos.salud.gov.pr/#pruebas
- 12. According to the CDC, since January 21, 2020 to October 9, 2021, Puerto Rico has had 5,711 "case rate per 100,000", listing it the 53rd of 58 U.S. states and territories (including New York City and the District of Columbia) reported. Refer to Appendix 21. Cases, Deaths and Testing (View: Cases, Time Period: Since Jan 21, 2020, Metric: Rate per 100,000), Data Table for Case Rate by State/Territory, https://covid.cdc.gov/covid-data-tracker/#cases_casesper100k
- 13. According to the US Census, as of July 1, 2019, the population of Puerto Rico was 3,193,694, for Connecticut was 3,565,287, for Nevada was 3,080,156, for Iowa was 3,155,070, for Utah was 3,205,958, and for Arkansas was 3,017,804. United States Census, *Table 1. Annual Estimates of the Resident Population for the United States, Regions, States, and Puerto Rico: April 1, 2010 to July 1, 2019*, https://www.census.gov/data/tables/time-series/demo/popest/2010s-state-total.html
- 14. According to the US Census, as of 2020, the population density of Puerto Rico was 959.6/sq mi, for Connecticut was 744.7/sq mi, for Nevada was 28.3/sq mi, for Iowa was 57.1/sq mi, for Utah 39.7/sq mi, and for Arkansas 57.9 sq mi. United States Census, Historical Population Density Data (1910-2020), https://www.census.gov/data/tables/time-series/dec/density-data-text.html
- 15. According to the CDC, on August 5, 2021, the 7-day moving average of daily "new admissions of patients with confirmed with COVID-19" in Puerto Rico was 21 new admissions. On August 16, 2021, it was 27 new admissions, on September 7, 2021, it

- was 21 new admissions and on October 6, 2021 it was 5 new admissions. Refer to Appendixes 22A and 22B. CDC, New Hospital Admissions (By Jurisdiction, Select Jurisdiction: Puerto Rico), https://covid.cdc.gov/covid-data-tracker/#new-hospital-admissions
- 16. According to the CDC, on March 28, 2021, the 7-day moving average of daily "new admissions of patients with confirmed with COVID-19" was 20 new admissions, on April 27, 2021, it was 47 new admissions and on May 17, 2021 it was 16 new admissions. Refer to Appendixes 23A and 23B. CDC, New Hospital Admissions (By Jurisdiction, Select Jurisdiction: Puerto Rico), https://covid.cdc.gov/covid-data-tracker/#new-hospital-admissions
- 17. According to the CDC, on October 19, 2020, the 7-day moving average of daily "new admissions of patients with confirmed with COVID-19" was 17 new admissions, on November 10, 2020, it was 189 new admissions and on December 29, 2020, it was 25 new admissions. Refer to Appendixes 24A and 24B. CDC, New Hospital Admissions (By Jurisdiction, Select Jurisdiction: Puerto Rico), https://covid.cdc.gov/covid-data-tracker/#new-hospital-admissions
- 18. Puerto Rico, of the population able to be vaccinated, reached 60% fully vaccinated on June 4, 2021 and reached 70.1% fully vaccinated on July 27, 2021. Puerto Rico Health Department COVID-19 Dashboard, *Vacunacion*, https://covid19datos.salud.gov.pr/#vacunacion
- 19. According to the World Health Organization, "The number of hospital beds available in public and private hospitals. Hospital beds are regularly maintained and staffed for the accommodation and full-time care of a succession of inpatients and situated in wards or a part of a hospital where continuous medical care for inpatients is provided. The total number of such beds constitutes the normally available bed complement of the hospital." World Health Organization, The Global health Observatory, https://www.who.int/data/gho/indicator-metadata-registry/imr-details/3409
- 20. According to the United States Census (v2019), the population 65 years and older is 21.3% of the overall population in Puerto Rico. According to the Population Reference Bureau, as reported on March 16, 2021, under the article "Which U.S. States Have The Oldest Population", the "States Ranked by Percent of Population Age 65 or Older, 2018" listed Maine as #1 with 20.6% of the population of its population 65 years or older. Population Reference Bureau (PRB), Which U.S. States Have The Oldest Population, https://www.prb.org/resources/which-us-states-are-the-oldest/
- 21. According to the CDC, the "death rate per 100,000", "Since January 21, 2020" to October 9, 2021, listed Puerto Rico with 99 deaths, as number 48th of 58 listed states and territories (including New York City and the District of Columbia) that reported. Refer to Appendix 27. CDC, Cases, Deaths and Testing (View: Deaths, Time Period:

- Since Jan 21, 2020, Metric: Rate per 100,000), *Data Table for Death Rate by State/Territory*, https://covid.cdc.gov/covid-data-tracker/#cases_deathsper100k
- 22. According to the Puerto Rico Health Department COVID-19 dashboard, as of October 8, 2021, Puerto Rico has a total of 3,193 accumulated deaths related to COVID since March 17, 2020. Refer to Appendix 9. Puerto Rico Health Department COVID-19 Dashboard, *Defunciones*, https://covid19datos.salud.gov.pr/#defunciones
- 23. According to the Puerto Rico Health Department COVID-19 dashboard, certified deaths for COVID include confirmed and probable deaths. Puerto Rico Health Department COVID-19 Dashboard, Defunciones, https://covid19datos.salud.gov.pr/#defunciones
- 24. In early 2021, the Food and Drug Administration authorized three vaccines (Pfizer-BioNtech, Moderna, J&J/Janssen) for use in the United States (including Puerto Rico). WHO, Evaluation of COVID-19 vaccine effectiveness (17 March 2021), https://www.who.int/publications-detail-redirect/WHO-2019-nCoV-vaccine effectiveness-measurement-2021.1
- 25. On July 27, 2021, CDC released updated guidance on the need for urgently increasing COVID-19 vaccination coverage and a recommendation for everyone in areas of substantial or high transmission to wear a mask in public indoor places, even if they are fully vaccinated. CDC issued this new guidance due to several concerning developments and newly emerging data indicators. (https://www.cdc.gov/coronavirus/2019-ncov/variants/delta-variant.html).
- 26. On August 30, 2021, Puerto Rico was placed by the CDC in Level 4: Very High Level of COVID-19. (https://wwwnc.cdc.gov/travel/notices/covid-4/coronavirus-puerto-rico).
- 27. The CDC has stated that the Delta variant is highly contagious, more than 2x as contagious as previous variants. (https://www.cdc.gov/coronavirus/2019-ncov/variants/delta-variant.html).
- 28. The CDC has stated that COVID-19 vaccines approved or authorized in the United States are highly effective at preventing severe disease and death, including against the Delta variant. (https://www.cdc.gov/coronavirus/2019-ncov/variants/delta-variant.html).
- 29. On August 26, 2021, the CDC has stated that high vaccination coverage will reduce spread of the virus and help prevent new variants from emerging. (https://www.cdc.gov/coronavirus/2019-ncov/variants/delta-variant.html).
- 30. CDC recommends that everyone aged 12 years and older get vaccinated as soon as possible. (https://www.cdc.gov/coronavirus/2019-ncov/variants/delta-variant.html).

- 31. As of September 15, 2021, there have been 5 deaths due to COVID-19 in the age group of 10-19 years old. (https://www.salud.gov.pr/estadisticas_v2#casos).
- 32. Over 55,000 children have been hospitalized with Covid-19 since August 2020 in the United States. (https://covid.cdc.gov/covid-data-tracker/#new-hospital-admissions).
- 33. In 19 months since advent of the virus, 1 in 500 Americans have died of COVID-19. (See Johns Hopkins University data https://coronavirus.jhu.edu/)
- 34. The CDC has stated that COVID-19 vaccines are safe and effective. (https://www.cdc.gov/coronavirus/2019-ncov/vaccines/safety/safety-of-vaccines.html)
- 35. The CDC has stated that "If you are fully vaccinated, you can resume activities that you did prior to the pandemic." (https://www.cdc.gov/coronavirus/2019-ncov/vaccines/safety-of-vaccines.html)
- 36. The CDC has stated that over 403 million doses of COVID-19 vaccine have been given in the United States from December 14, 2020, through October 12, 2021. (https://www.cdc.gov/coronavirus/2019-ncov/vaccines/safety/safety-of-vaccines.html)
- 37. The CDC has stated that COVID-19 vaccines are safe and effective. COVID-19 vaccines were evaluated in tens of thousands of participants in clinical. The vaccines met the Food and Drug Administration's (FDA) rigorous scientific standards for safety, effectiveness, and manufacturing quality needed to support approval or authorization of a vaccine. (https://www.cdc.gov/coronavirus/2019-ncov/vaccines/safety/safety-of-vaccines.html).
- 38. The CDC has stated that Millions of people in the United States have received COVID-19 vaccines since they were authorized for emergency use by the FDA. These vaccines have undergone and will continue to undergo the most intensive safety monitoring in U.S. history. This monitoring includes using both established and new safety monitoring systems to make sure that COVID-19 vaccines are safe. (https://www.cdc.gov/coronavirus/2019-ncov/vaccines/safety/safety-of-vaccines.html).
- 39. The CDC has stated that the systems in place to monitor the safety of these vaccines have found only two serious types of health problems after vaccination, both of which are rare. These are anaphylaxis and thrombosis with thrombocytopenia syndrome (TTS) after vaccination with J&J/Janssen COVID-19 Vaccine. (https://www.cdc.gov/coronavirus/2019-ncov/vaccines/safety/safety-of-vaccines.html).

- 40. The CDC has stated that serious side effects that could cause a long-term health problem are extremely unlikely following any vaccination, including COVID-19 vaccination. (https://www.cdc.gov/coronavirus/2019-ncov/vaccines/safety/safety-of-vaccines.html)
- 41. At the time of the enactment of Executive Orders Nos. 2021-062 through 2021-064, Puerto Rico was in an increasing trend and a case rate of more than 50.98 per 100.00 person, being at the substantial level. (https://www.salud.gov.pr/estadisticas v2#casos).
- 42. The CDC has stated that COVID-19 vaccines do not change or interact with your DNA in any way. Both mRNA and viral vector COVID-19 vaccines deliver instructions (genetic material) to our cells to start building protection against the virus that causes COVID-19. However, the material never enters the nucleus of the cell, which is where our DNA is kept. (https://www.cdc.gov/coronavirus/2019-ncov/vaccines/facts.html).
- 43. The CDC has stated that COVID-19 vaccination is recommended for everyone 12 years of age or older, including people who are trying to get pregnant now or might become pregnant in the future, as well as their partners. (https://www.cdc.gov/coronavirus/2019-ncov/vaccines/facts.html).
- 44. The CDC has stated that currently no evidence shows that any vaccines, including COVID-19 vaccines, cause fertility problems (problems trying to get pregnant) in women or men. (https://www.cdc.gov/coronavirus/2019-ncov/vaccines/facts.html).
- 45. The CDC has stated that COVID-19 vaccination helps protect people from getting sick or severely ill with COVID-19 and might also help protect people around them. (https://www.cdc.gov/coronavirus/2019-ncov/vaccines/effectiveness.html)_
- 46. The CDC has stated that all COVID-19 vaccines currently available in the United States are effective at preventing COVID-19 as seen in clinical trial settings. (https://www.cdc.gov/coronavirus/2019-ncov/vaccines/effectiveness.html).
- 47. The CDC has stated that some people who are fully vaccinated against COVID-19 will still get sick because no vaccine is 100% effective. (https://www.cdc.gov/coronavirus/2019-ncov/vaccines/effectiveness.html).
- 48. The CDC has stated that experts continue to monitor and evaluate how often people who are fully vaccinated against COVID-19 will still get sick, how severe their illness is, and how likely a vaccinated person is to spread COVID-19 to others. (https://www.cdc.gov/coronavirus/2019-ncov/vaccines/effectiveness.html).
- 49. The CDC has stated that vaccine breakthrough infections are expected. (https://www.cdc.gov/coronavirus/2019-ncov/vaccines/effectiveness/why-measure-effectiveness/breakthrough-cases.html).

- 50. The CDC has stated that vaccines remain effective in protecting most people from COVID-19 infection and its complications. (https://www.cdc.gov/coronavirus/2019-ncov/vaccines/effectiveness/why-measure-effectiveness/breakthrough-cases.html).
- 51. CDC has multiple surveillance systems and ongoing research studies to monitor the performance of vaccines in preventing infection, disease, hospitalization, and death. (https://www.cdc.gov/coronavirus/2019-ncov/vaccines/effectiveness/why-measure-effectiveness/breakthrough-cases.html).
- 52. CDC also collects data on vaccine breakthrough infections through outbreak investigations. (https://www.cdc.gov/coronavirus/2019-ncov/vaccines/effectiveness/why-measure-effectiveness/breakthrough-cases.html).
- 53. One important system that CDC uses to track vaccine breakthrough infections is COVID-NET (the Coronavirus Disease 2019 [COVID-19]-Associated Hospitalization Surveillance Network). (https://www.cdc.gov/coronavirus/2019-ncov/vaccines/effectiveness/why-measure-effectiveness/breakthrough-cases.html).
- 54. The CDC has stated that efforts to increase vaccination coverage are critical to reducing the risk for COVID-19–related hospitalization, particularly in older adults. (https://www.cdc.gov/mmwr/volumes/70/wr/mm7032e3.htm?s cid=mm7032e3 w).

II. STIPULATIONS SUGGESTED BY PLAINTIFFS AND REJECTED BY DEFENDANTS

A. Plaintif	ffs' Suggested	B. Defendants' Reason to
Stipulation	n	Reject Suggestion
8, 2021, Pud second amo (Republic o "Doses Adra State where reported. Re COVID-19 United State Show: Adm per 100,000 Population) 19 Vaccinata (Doses Adma State where https://covid	to the CDC, as of October erto Rico was listed ong the U.S. jurisdictions of Palau is listed 1st) in ministered per 100k by Administered" of those effer to Appendix 1. CDC, Vaccinations in the es (View: Total Doses, ministered, Metric: Rate 19, Population: Total 19, Data Table for COVIDations in the United States ministered per 100k by Administered), d.cdc.gov/covid-data-ecinations_vacc-total-total	The Proposed stipulation is speculative, flawed, and contains legal conclusions that follow the narrative and compilation of Plaintiffs' view and legal theories with their own interpretation of scientific statistical data.

2.	Palau is a U.S. protectorate with a	The Proposed stipulation is
	free-association agreement with the	speculative, flawed, and contains
	United States, not a U.S. territory as	legal conclusions that follow the
	such, so Puerto Rico is first among	narrative and compilation of
	U.S. states and territories.	Plaintiffs' view and legal theories
		with their own interpretation of
		scientific statistical data.
3.		
4.		
5.		
6.	According to Our World in Data, as	The Proposed stipulation is
	of October 8, 2021, the top 11	speculative, flawed, and contains
	countries in the world with the	legal conclusions that follow the
	highest percentage of fully vaccinated	narrative and compilation of
	population, among all its people, are	Plaintiffs' view and legal theories
	Portugal with 86%, United Arab	with their own interpretation of
	Emirates 84%, Spain 79%, Singapore	scientific statistical data.
	78%, Denmark 75%, Chile 74%,	
	Uruguay 74%, Ireland 74%, Canada	
	72%, China 71%, Italy 69%.45	
	Puerto Rico, as of October 8, 2021,	
	has 2,273,035 people fully vaccinated	
	among a total population of	
	3,285,874, meaning it has 69% of its	
	total population fully vaccinated,	
	which is comparable to worldwide-	
	11th-place Italy. Refer to Appendixes	
	3A and 4	
	Puerto Rico Health Department COVII	
	Dashboard, Vacunacion,	
	https://covid19datos.salud.gov.pr/#vacu	
	I Inited States Communication Discourse	
	United States Census, Puerto Rico:	
	2020 Census, https://www.census.gov/library/storie	
	s/state-by-state/puerto-rico-	
	population-change-between-census-	
	decade.html	
	Our World in Data, Coronavirus	
	(COVID-19) Vaccinations, (Metric:	
	People vaccinated (by dose)), Share	
	of People Vaccinated (by dose)), Share	
	19, October 8, 2021,	
	https://ourworldindata.org/covid-	
	vaccinations	
L	vaccinations	1

7		
7. 8.	The increase in the percentage of fully vaccinated people after EO 2021-062 was announced, considering the rate of vaccination in Puerto Rico during the 28 days prior to the announcement, has been 0.4% for the first 28 days after the mandate announcement and 0.5% in the following 28 days, so there is an average of 0.45% increase per 28	The Proposed stipulation is speculative, flawed, and contains legal conclusions that follow the narrative and compilation of Plaintiffs' view and legal theories with their own interpretation of scientific statistical data.
	days since the mandate was	
	announced.	
9.		
10.		
11.	The total number of fully vaccinated Puerto Ricans aged 60 years or older (150,233 + 183,708 + 108,341 + 144,388 + 49,162 + 78,844) is 714,676, which represents 80.4% (714,676 / 888,786) of this age group. The total number of Puerto Ricans aged 60 and older with at least one dose (163,601 + 199,943 + 118,488 + 157,908 + 54,404 + 88,073) is 782,417, which represents 88% (782,417 / 888,786).	The Proposed stipulation is speculative, flawed, and contains legal conclusions that follow the narrative and compilation of Plaintiffs' view and legal theories with their own interpretation of scientific statistical data.
12.	12. According to the Puerto Rico Health Dept. COVID-19 dashboard, as of October 8, 2021, the 7-day moving average (7dMA) of daily confirmed cases was 78.6 and of daily probable cases was 57.9. There were 100 adults hospitalized and 33 ICU adult hospitalizations due to COVID-19. With 2,690 adult beds available and 188 ICU adult beds available, the percentage of total adult beds occupied related to COVID-19 was 1% and total adult ICU beds occupied due to COVID-19 was 5%. The 7dMA of daily deaths was 3.1. Refer to Appendixes 8A, 8B, 8C and 8D Puerto Rico Health Department COVID-19 Dashboard, Defunciones,	The Proposed stipulation is speculative, flawed, and contains legal conclusions that follow the narrative and compilation of Plaintiffs' view and legal theories with their own interpretation of scientific statistical data.

	https://covid19datos.salud.gov.pr/#de funciones Puerto Rico Health Department COVID-19 Dashboard, Casos, https://covid19datos.salud.gov.pr/#ca sos Puerto Rico Health Department COVID-19 Dashboard, Sistema de Salud (Hoy, Historico), https://covid19datos.salud.gov.pr/#sis temas salud	
13.		
14.	As of October 8, 2021, the total of the deaths related to COVID 19 of people 60 years or older totaled 2,431 (985 + $832 + 614$) and among those 59 years or younger totaled 762 (451 + 202 + $73 + 28 + 6 + 2$). That means that 76.1% of deaths (2,431 / 3,193) are among people 60 years or older. Id.	The Proposed stipulation is speculative, flawed, and contains legal conclusions that follow the narrative and compilation of Plaintiffs' view and legal theories with their own interpretation of scientific statistical data.
15.	According to the covidestim: COVID-19 nowcasting website, a project collaboration between Yale School of Public Health, Harvard School of Public Health and Stanford Medical School (supported by Cooperative Agreement NU38OT000297 from the Centers for Disease Control and Prevention (CDC) and the Council of State and Territorial Epidemiologists (CSTE)), as of October 6, 2021, the Effective Transmission Rate (Rt), for Puerto Rico was 0.91. On July 28, 2021, it was 1.40, on August 11, 2021, 5 days prior to EO 2021-058 going into effect, it was below 1 at 0.98 and on August 16, 2021, when it went into effect, it was 0.88. "Rt is the average number of people that an individual infected on day t is expected to go on to infect. When Rt is above 1, we expect cases to increase in the near future. When Rt is below one, we expect cases to decrease in the near future." Refer to Appendix 10	The Proposed stipulation is speculative, flawed, and contains legal conclusions that follow the narrative and compilation of Plaintiffs' view and legal theories with their own interpretation of scientific statistical data.

	covidestim COVID-19 nowcasting,	
	Effective reproduction number (Rt),	
	https://covidestim.org/	
16.	According to HealthData.gov, on their Territory Profile Report dated October 1, 2021, Puerto Rico's Community Transmission Level is "Moderate Transmission" and the "change from previous week" on Rate of New Covid-19 Cases per 100,000 was -7%, New Confirm Covid-19 Hospital Admissions / 100 beds was -51%, Rate of New COVID-19 Deaths per 100,000 was -29%, while Number of Hospitals with Staff Shortages (Percent) was -17%. Refer to Appendixes 11A and 11B HealthData.gov, COVID-19 State Profile Report - Puerto Rico (October 1, 2021), https://healthdata.gov/Community/COVID-19-State-Profile-Report-	The Proposed stipulation is speculative, flawed, and contains legal conclusions that follow the narrative and compilation of Plaintiffs' view and legal theories with their own interpretation of scientific statistical data.
	Puerto-Rico/dfc5-i6nj	
17.	Tuesto rueo, uses song	
18.		
19.	According to the CDC, in "Using Percent Positivity Calculation for Public Health Surveillance", "Percent positivity can vary depending on the volume of testing and the population tested. A high NAAT percent positivity occurs when many of the test results among those being tested and reported in a community are positive. This can mean the following: There are widespread infections in the community tested. Only those at greatest risk of infection within a community are being tested. There are reporting processes or delays that skew the results CDC, Calculating SARS-CoV-2 Laboratory Test Percent Positivity: CDC Methods and Considerations for Comparisons and Interpretation,	The Proposed stipulation is speculative, flawed, and contains legal conclusions that follow the narrative and compilation of Plaintiffs' view and legal theories with their own interpretation of scientific statistical data.

https://www.cdc.gov/coronavirus/201	
9-ncov/lab/resources/calculating-	
percent-positivity.html	

20. According to the Intelligencer (a New Yorker feature), in a December 7, 2020, report titled "The Problem With the Positivity Rate," "the positivity rate statistic is so inconsistently calculated and reported across U.S. states that the COVID Tracking Project, one of the nation's trusted aggregators and reporters of coronavirus data and trends, doesn't publish it, says Jessica Malaty Rivera, the science communication lead with the project. An October blog post co-authored by Malaty Rivera called positivity rate figures in the U.S. "a mess" and stated that she and her team "emphatically recommend against over-reliance" on it to justify changes in policy." It also discussed the issue of introducing antigen tests by saying "COVID Tracking Project data collectors have noticed that states are including the results of less accurate, less expensive so-called antigen tests, which look for pieces of the virus, not the whole virus, instead of the results of widely used PCR tests for the entire virus, Malaty Rivera says. "For that reason, I feel especially pessimistic about the future of this calculation," Malaty Rivera says. "Because if we do see testing increase dramatically, it will be because of an influx in antigen testing. It really should just be PCR testing to determine this. And when we combine units, it's going back to basic fractions, right? You don't combine your apples and oranges when you're doing a math equation. Intelligencer, The Problem With the Positivity Rate,

https://nymag.com/intelligencer/202	0
/12/the-problem-with-the-covid-19-	
positivity-rate.html	

- 21. According to the Families First Coronavirus Response Act, which became public law No. 116-127 on March 18, 2020, under "Division F – Health Provisions, Sec. 6001. Coverage of Testing for COVID-19," "a group health plan and a health insurance issuer offering group or individual health insurance coverage. . . shall provide coverage, and shall not impose any cost sharing (including deductibles, copayments, and coinsurance) requirements or prior authorization or other medical management requirements, for the following items and services furnished during any portion of the emergency period . . . beginning on or after the date of the enactment of this Act:
 - (1) In vitro diagnostic products (as defined in section 809.3(a) of title 21, Code of Federal Regulations) for the detection of SARS—CoV—2 or the diagnosis of the virus that causes COVID—19 that are approved, cleared, or authorized under section 510(k), 513, 515 or 564 of the Federal Food, Drug, and Cosmetic Act, and the administration of such in vitro diagnostic products.

 (2) Items and services furnished to an
 - individual during health care provider office visits (which term in this paragraph includes in-person visits and telehealth visits), urgent care center visits, and emergency room visits that result in an order for or administration of an in vitro diagnostic product described in paragraph (1), but only to the extent such items and services relate to the furnishing or administration of such

	product or to the evaluation of such	
	individual for purposes of	
	determining the need of such	
	individual for such product.	
	Congress.gov, H.R.6201 - Families	
	First Coronavirus Response Act,	
	https://www.congress.gov/bill/116th-	
	congress/house-bill/6201/text	
22.	According to the U.S. Department of Health and Human Services (HHS), a system called "Community-Based Testing Sites was created" which provides "COVID-19 tests available at no cost nationwide at health centers and select pharmacies. The Families First Coronavirus Response Act ensures that COVID-19 testing is free to anyone in the U.S., including the uninsured."	The Proposed stipulation is speculative, flawed, and contains legal conclusions that follow the narrative and compilation of Plaintiffs' view and legal theories with their own interpretation of scientific statistical data.
	HHS.gov, Community-Based Testing Sites for COVID-19, https://www.hhs.gov/coronavirus/community-based-testing-	
	sites/index.html	
23.	According to the office of U.S. Congresswoman Jennifer González-Colón, on January 7, 2021 it was reported that "Puerto Rico will receive \$183,823,862 to support COVID-19 test administration efforts. Office of U.S. Congresswoman Jennifer González-Colón, Jenniffer González Colón anuncia \$212 millones para pruebas y vacunas de COVID-19 en Puerto Rico, https://gonzalez-col-n-anuncia-212-millones-para-pruebas-y-vacunas-de-covid	The Proposed stipulation is speculative, flawed, and contains legal conclusions that follow the narrative and compilation of Plaintiffs' view and legal theories with their own interpretation of scientific statistical data.
24.	According the Puerto Rico Health	The Proposed stipulation is
	Department, on October 19, 2020, the	speculative, flawed, and contains
1	l =	speculative, flawed, and contains
	Administrative Order #467, titled "To	legal conclusions that follow the
	l =	-

administration of tests to detect coronavirus (COVID-19) classified as "exempt" by the federal Food and Drug Administration (FDA, for its acronym in English) during the validity of the existing state of emergency," was signed by the Secretary of Health ordering that "the clinical laboratories of Puerto Rico that are duly licensed and certified, may perform COVID-19 exempt tests without the need for a prior medical order. This applies both to molecular exempt tests, as well as antigen-free tests that have the corresponding authorization from the FDA." (Emphasis added.) Source: Puerto Rico Health Department, OA 467 Aclaración requisito de obtener orden médica para detectar COVID-19, https://www.salud.gov.pr/CMS/DOW NLOAD/3728

with their own interpretation of scientific statistical data.

25. The "EL VOCERO" newspaper reported on September 2, 2021, that the "[Puerto Rico] Health Department limits covid-19 testing due to lack of supplies." It reported that "The Secretary of Health, Carlos Mellado, admitted to EL VOCERO that the number of tests carried out in the 37 fixed centers, where people can perform them for free and obtain the result in a short time, have increased in recent weeks and they have had to start limiting them in some places. We had to limit tests to 175 because there is a national testing shortage. They are guaranteeing us a number of tests, but at least in the Health [Department] tent we limit it. El VOCERO, El Departamento de Salud limita las pruebas de covid-19 por falta de suministros, https://www.elvocero.com/gobierno/a gencias/el-departamento-de-salud-

	limita-las-pruebas-de-covid-19-por-	
	falta-de-	
	suministros/article 83407cda-0ba0-	
	11ec-a3da-53146f9e24d0.html	
26.	The "El VOCERO" newspape	The Proposed stipulation is
	reported, on September 7, 2021, that	speculative, flawed, and contains
	"Mayors' Association warns of	legal conclusions that follow the
	shortage of covid-19 antigen testing."	narrative and compilation of
	It reported that the president of the	Plaintiffs' view and legal theories
	Mayors' Association ("Asociación de	with their own interpretation of
	Alcaldes"), Hon. Luis Javier	scientific statistical data.
	Hernández, "made a claim to the	
	Puerto Rico Health Department to	
	activate an action plan under the	
	apparent limitation of antigen tests of	
	COVID-19 ON PENIS'." It also	
	reported that "the mayor of Isabela,	
	Hon. Miguel Méndez Pérez, pointed	
	out that the participants of the Vital	
	Health Plan of his municipality are	
	being charged \$30 for the Covid-19	
	antigen test, which results onerous.	
	Source: El VOCERO, , La	
	Asociación de Alcaldes advierte la	
	escasez de pruebas de antígenos de	
	covid-19,	
	https://www.elvocero.com/gobierno/	
	municipal/la-asociaci-n-de-alcaldes-	
	advierte-la-escasez-de-pruebas-de-	
	ant-genos-de-covid/article_9604ceaa-	
	<u>0fd5-11ec-b055-d7a1425e973b.html</u>	
27.	The "El Nuevo Dia" newspaper	The Proposed stipulation is
	reported on June 15, 2021, the first	speculative, flawed, and contains
	case of the COVID-19 Delta variant	legal conclusions that follow the
	in Puerto Rico.	narrative and compilation of
	Source: El Nuevo Dia, Confirman el	Plaintiffs' view and legal theories
	primer caso de la variante Delta del	with their own interpretation of
	COVID-19 en una niña de cuatro	scientific statistical data.
	años,	
	https://www.elnuevodia.com/noticias/	
	locales/notas/confirman-el-primer-	
	caso-de-la-variante-delta-del-covid-	
20	19-en-una-nina-de-cuatro-anos/	
28.	20 A = £0 - 4-1	The Door and with 1 di
29.	29. As of October 8, 2021, 4.6%	The Proposed stipulation is
	(150,569 / 3,285,874) of the total	speculative, flawed, and contains

population of Puerto Rico has had a confirmed case of COVID-19 and 0.98% (32,210 / 3,285,874) has had a probable case of COVID-19. That is, since the first confirmed case in Puerto Rico on March 9, 2020 and up to October 8, 2021, almost 19 months, 95.4% of the population in Puerto Rico has not had a recorded confirmed case of COVID-19 and 99.02% of the population in Puerto Rico has not had a recorded probable case of COVID-19. Id. According to the Puerto Rico Health Department COVID-19 dashboard, on November 23, 2020 we had the

legal conclusions that follow the narrative and compilation of Plaintiffs' view and legal theories with their own interpretation of scientific statistical data.

30. According to the Puerto Rico Health Department COVID-19 dashboard, on November 23, 2020 we had the highest 7-day Moving Average (7dMA) of confirmed cases in 2020 with 847.6 confirmed cases. In 2021, the highest 7dMA of confirmed cases occurred in April 15 with a 7dMA of 827. In the month of August 2021, the highest 7dMA occurred in August 14 with 620 confirmed cases. Refer to Appendix 15.

Puerto Rico Health Department COVID-19 Dashboard, Casos, https://covid19datos.salud.gov.pr/#casos

The Proposed stipulation is speculative, flawed, and contains legal conclusions that follow the narrative and compilation of Plaintiffs' view and legal theories with their own interpretation of scientific statistical data.

According to the Puerto Rico Health 31. Department COVID-19 dashboard, on August 14, 2021, two days prior to EO 2021-062 becoming effective, the 7dMA of daily confirmed cases was 620 confirmed cases. On August 16, 2021 it was 603.1 confirmed cases, on August 31, 2021 was 453.4 confirmed cases, on September 12, 2021 was 284 confirmed cases, on September 27, 2021 was 131.4 confirmed cases and October 6, 2021 was 72.6 confirmed cases. Refer to Appendixes 16A, 16B and 16C Puerto Rico Health Department COVID-19 Dashboard, Casos,

	https://covid19datos.salud.gov.pr/#casos	
32.	According to the Puerto Rico Health Department COVID-19 dashboard, on August 14, 2021, two days prior to EO 2021-062 becoming effective, the 7dMA of daily probable cases was 331.4 probable cases. On August 16, 2021 it was 319.9 probable cases, on August 31, 2021 was 233 probable cases, on September 12, 2021 was 120.4 probable cases, on September 27, 2021 was 63.6 probable cases and on October 6, 2021 was 58 probable cases. Refer to Appendixes 17A, 17B and 17C Puerto Rico Health Department COVID-19 Dashboard, Casos, https://covid19datos.salud.gov.pr/#casos	The Proposed stipulation is speculative, flawed, and contains legal conclusions that follow the narrative and compilation of Plaintiffs' view and legal theories with their own interpretation of scientific statistical data.
33.	The positivity rate for molecular tests prior to the Delta variant, from July 1, 2020 to June 15, 2021, in Puerto Rico was 5.8% (120,590 / 2,067,324) and with the Delta variant, from June 16 to October 7, 2021, it has been 4.8% (27,760 / 578,994).	The Proposed stipulation is speculative, flawed, and contains legal conclusions that follow the narrative and compilation of Plaintiffs' view and legal theories with their own interpretation of scientific statistical data.
35.	According to the Puerto Rico Health Department COVID-19 dashboard, from July 1, 2020 to June 15, 2021, there were 16,853 accumulated probable cases and 1,222,046 accumulated antigen tests administered and, from June 16 to October 7, 2021, there were 15,314 accumulated probable cases and 1,048,449 accumulated antigen tests administered. Refer to Appendixes 19A and 19B. Puerto Rico Health Department COVID-19 Dashboard, Casos, https://covid19datos.salud.gov.pr/#casos	The Proposed stipulation is speculative, flawed, and contains legal conclusions that follow the narrative and compilation of Plaintiffs' view and legal theories with their own interpretation of scientific statistical data.

	Puerto Rico Health Department	
	Covid-19 Dashboard, Pruebas,	
	https://covid19datos.salud.gov.pr/#pr	
	<u>uebas</u>	
36.	The positivity rate for antigen tests	The Proposed stipulation is
	prior to the Delta variant, from July	speculative, flawed, and contains
	1, 2020 to June 15, 2021, in Puerto	legal conclusions that follow the
	Rico was 1.4% (16,853 / 1,222,046),	narrative and compilation of
	and with the Delta variant, from June	Plaintiffs' view and legal theories
	16 to October 7, 2021, it has been	with their own interpretation of
	1.5% (15,314 / 1,048,449). <i>Id</i> .	scientific statistical data.
37.	According to the Puerto Rico Health	The Proposed stipulation is
	Department COVID-19 dashboard,	speculative, flawed, and contains
	from July 1, 2020 to June 15, 2021,	legal conclusions that follow the
	there were 137,443 accumulated	narrative and compilation of
	confirmed and probable cases and	Plaintiffs' view and legal theories
	3,289,370 accumulated molecular	with their own interpretation of
	and antigen tests administered and,	scientific statistical data.
	from June 16 to October 7, 2021,	
	there were 43,074 accumulated	
	confirmed and probable cases and	
	1,627,443 accumulated molecular	
	and antigen tests administered. Refer	
	to Appendixes 20A and 20B	
	Puerto Rico Health Department	
	COVID-19 Dashboard, Casos,	
	https://covid19datos.salud.gov.pr/#ca	
	SOS	
	Puerto Rico Health Department	
	Covid-19 Dashboard, Pruebas,	
	https://covid19datos.salud.gov.pr/#pr	
	<u>uebas</u>	
38.	The positivity rate for total	The Proposed stipulation is
	(molecular and antigen) tests prior to	speculative, flawed, and contains
	the Delta variant, from July 1, 2020	legal conclusions that follow the
	to June 15, 2021, in Puerto Rico was	narrative and compilation of
	4.2% (137,443 / 3,289,370) and with	Plaintiffs' view and legal theories
	the Delta variant, from June 16 to	with their own interpretation of
	October 7, 2021, it has been 2.6%	scientific statistical data.
20	(43,074 / 1,627,443). <i>Id</i> .	TI D 1 (1 1 (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
39.	The empirical data shows that the	The Proposed stipulation is
	virus in Puerto Rico, even with the	speculative, flawed, and contains
	Delta variant, did not spread any	legal conclusions that follow the
	faster among the population than	narrative and compilation of
	before. In fact, the empirical data	Plaintiffs' view and legal theories
	shows that the spreading, when	with their own interpretation of

	looking at the positivity rate for total	scientific statistical data.
	tests, was almost 40% less during the	Selentific Statistical data.
	Delta variant than before.	
40.	Betta variant than before.	
41.	According to the CDC, Puerto Rico's	The Proposed stipulation is
	"case rate per 100,000", since Jan 21,	speculative, flawed, and contains
	2020, as of October 9, 2021, were	legal conclusions that follow the
	Puerto Rico 5,711 cases, Connecticut	narrative and compilation of
	11,051 cases, Nevada 14,163 cases,	Plaintiffs' view and legal theories
	Iowa 14,732 cases, Utah 16,226 cases	with their own interpretation of
	and 16,619 deaths. Refer to Appendix	scientific statistical data.
	21	
	Cases, Deaths and Testing (View:	
	Cases, Time Period: Since Jan 21,	
	2020, Metric: Rate per 100,000), <i>Data</i>	
	Table for Case Rate by	
	State/Territory,	
	https://covid.cdc.gov/covid-data-	
	tracker/#cases_casesper100k	
42.		
43.		
44.	Puerto Rico case rate per 100,000	The Proposed stipulation is
	since Jan 21, 2020, as of October 9,	speculative, flawed, and contains
	2021, has been between 50% and	legal conclusions that follow the
	75% less than the case rate per	narrative and compilation of
	100,000 of Connecticut, Nevada,	Plaintiffs' view and legal theories
	Iowa, Utah and Arkansas, all of these	with their own interpretation of scientific statistical data.
	states have a similar population to Puerto Rico with population density	scientific statistical data.
	that is from 23% lower to 34x lower	
	than the one in Puerto Rico.	
45.	When using the Predicted Active	The Proposed stipulation is
1 3.	Cases model from California State	speculative, flawed, and contains
	Polytechnic University, as of October	legal conclusions that follow the
	9, 2021, Puerto Rico's Predictive	narrative and compilation of
	Active Cases up to October 7, 2021	Plaintiffs' view and legal theories
	was estimated to be 706 active cases.	with their own interpretation of
	California State Polytechnic	scientific statistical data.
	University, COVID-19 Total Cases	
	and Estimated of Active Cases in	
	Southern California, 4 Predictive	
	Southern California, 4 Predictive Active Cases	
	Active Cases https://www.cpp.edu/~clange/covid1	
	Active Cases https://www.cpp.edu/~clange/covid1 9/Covid19ReportCaliforniaComp.ht	
46.	Active Cases https://www.cpp.edu/~clange/covid1	

47.		
48.		
49.	According to the CDC, as of October 6, 2021, the 7-day moving average of daily "new admissions of patients with confirmed with COVID-19" the	The Proposed stipulation is speculative, flawed, and contains legal conclusions that follow the narrative and compilation of
	highest it has been in August 2021 was August 21 with 33 new admissions. The highest it has been in 2021 was in April 27 with 47 new admissions and the highest it has been in 2020 was on November 10, with 189 new admissions. CDC, New Hospital Admissions (By Jurisdiction, Select Jurisdiction: Puerto Rico), https://covid.cdc.gov/covid-datatracker/#new-hospital-admissions	Plaintiffs' view and legal theories with their own interpretation of scientific statistical data.
50.	According to the Puerto Rico Health	The Proposed stipulation is
	Department COVID-19 dashboard,	speculative, flawed, and contains
	since November 21, 2021 until	legal conclusions that follow the
	October 7, 2021, the highest	narrative and compilation of
	percentage of adult hospital beds occupied due to COVID was 10% on	Plaintiffs' view and legal theories with their own interpretation of
	December 11 and 12, 2020 followed	scientific statistical data.
	by April 21 to 27, 2021 with 8% and	scientific statistical data.
	then August 19 to 31, 2021 with 7%.	
	On adult ICU beds occupied due to	
	COVID, the highest percentage in	
	2020 was November 24, with 15%	
	and in 2021 was August 30 with 21%	
	followed by August 20 and	
	September 7 with 20%. The	
	percentage of adults' beds not	
	occupied has never been less than	
	35% and of ICU adult beds has never been less than 20%. Refer to	
	Appendix 25	
	Puerto Rico Health Department	
	Covid-19 Dashboard, Sistema de	
	Salud (Historico),	
	https://covid19datos.salud.gov.pr/#sis	
	temas salud	
51.	There have been three "waves" in	The Proposed stipulation is
	Puerto Rico, two before the Delta	speculative, flawed, and contains
	variant and one after it. In the first	legal conclusions that follow the

wave, between the end of October 2020 and the end of January 2021, the peak of the 7dMA of confirmed cases was on November 23, 2020 with 847.6 cases, the peak of 7dMA of New Admissions of Patients with Confirmed COVID-19 was on November 10, 2020 with 189 admissions, the peak of adult hospitalizations was on December 10, 2020 with 657 hospitalizations with 2,776 adult beds available, the peak of ICU adult hospitalizations was November 24, 2020 with 110 ICU hospitalizations with 182 ICU adult beds available, the peak of percentage of total adult beds occupied due to COVID-19 was on December 10 and 11, 2021 with 10% and of total ICU adult beds occupied due to COVID-19 was on November 24, 2020 with 15% and the peak of 7dMA of deaths related to COVID was on December 12, 2020 with 16.7 deaths. For the second wave, between the end of March and the end of May 2021, the peak of the 7dMA of confirmed cases was on April 15, 2021 with 827 cases, the peak of 7dMA of New Admissions of Patients with Confirmed COVID-19 was on April 27, 2021 with 47 admissions, the peak of adult hospitalizations was on April 27, 2021 with 520 hospitalizations with 2,885 adult beds available, the peak of ICU adult hospitalizations was April 26, 2021 with 111 ICU hospitalizations with 204 ICU adult beds available, the peak of percentage of total adult beds occupied due to COVID-19 was on April 21 through 27, 2021 with 8% and of total ICU adult beds occupied due to COVID-19 was on April 21, 22, 25 and 26, 2021 with 14% and the peak of

narrative and compilation of Plaintiffs' view and legal theories with their own interpretation of scientific statistical data. 7dMA of deaths related to COVID was on April 22, 2021 with 9.9 deaths.

For the third wave, between the end of July and the middle of September 2021, the peak of the 7dMA of confirmed cases was on August 14, 2021 with 620 cases, the peak of 7dMA of New Admissions of Patients with Confirmed COVID-19 was on August 21, 2021 with 33 admissions, the peak of adult hospitalizations was on August 25, 2021 with 515 hospitalizations with 2,507 adult beds available, the peak of ICU adult hospitalizations was August 30, 2021 with 130 ICU hospitalizations with 176 ICU adult beds available, the peak of percentage of total adult beds occupied due to COVID-19 was on August 19 through 31, 2021 and then on September 2 and 3, 2021 with 7% and of total ICU adult beds occupied due to COVID-19 was on August 30, 2021 with 21% and the peak of 7dMA of deaths related to COVID was on August 31, 2021 with 14.3 deaths.

Puerto Rico Health Department COVID-19 Dashboard, Defunciones, https://covid19datos.salud.gov.pr/#de funciones

Puerto Rico Health Department COVID-19 Dashboard, Casos, https://covid19datos.salud.gov.pr/#casos

Puerto Rico Health Department COVID-19 Dashboard, Sistema de Salud (Hoy, Historico), https://covid19datos.salud.gov.pr/#sis

nttps://covid19datos.saiud.gov.pr/#sis

CDC, New Hospital Admissions (By Jurisdiction, Select Jurisdiction: Puerto Rico),

https://covid.cdc.gov/covid-data-

	tracker/#new-hospital-admissions	
	Puerto Rico Health Department	
	Covid-19 Dashboard, Sistema de	
	Salud (Historico),	
	, , , , , , , , , , , , , , , , , , ,	
	https://covid19datos.salud.gov.pr/#sis	
	temas salud	
52.	For third "wave", between end of	The Proposed stipulation is
	July and middle of September, which	speculative, flawed, and contains
	includes the Delta variant, the peak of	legal conclusions that follow the
	the 7dMA of confirmed cases was	narrative and compilation of
	27% less than in the first wave and	Plaintiffs' view and legal theories
	25% less than in the second wave, the	with their own interpretation of
	peak of 7dMA of New Admissions of	scientific statistical data.
	Patients with Confirmed COVID-19	
	was 83% less than in the first wave	
	and 30% less than in the second	
	wave, the peak of adult	
	hospitalizations was 22% less than in	
	the first wave and 1% less than in the	
	second wave, the peak of ICU adult	
	hospitalizations was 15% more than	
	in the first wave and second wave,	
	the peak of percentage of total adult	
	beds occupied due to COVID-19 was	
	30% less than in the first wave and	
	13% less than in the second wave and	
	of total ICU adult beds occupied due	
	to COVID-19 was 6% more than in	
	the first wave and 7% more than in	
	the second wave and the peak of	
	7dMA of deaths related to COVID	
	was 15% less than in the first wave	
	and 30% more than in the second	
	wave. Id.	
53.	The fact that our hospitals have not	The Proposed stipulation is
	exceeded, since vaccination started at	speculative, flawed, and contains
	the beginning of December 2020, 8%	legal conclusions that follow the
	utilization in adult beds and 21%	narrative and compilation of
	utilization in ICU beds and total adult	Plaintiffs' view and legal theories
	beds availability has been maintained	with their own interpretation of
	at over 30% and total ICU adult bed	scientific statistical data.
	availability has been maintained at	
	over 20%, provides empirical data to	
	demonstrate that non-vaccinated	
	individuals are risking the public's	
	health system capability or that	

	causes a threat of collapse to the	
	healthcare system. Refer to Appendix	
	25.	
	Puerto Rico Health Department	
	Covid-19 Dashboard, Sistema de	
	Salud (Historico),	
	https://covid19datos.salud.gov.pr/#sis	
	temas salud	
54.	tomas_surad	
55.	According to Trilliant Health in its	The Drop and stimulation is
33.	According to Trilliant Health, in its	The Proposed stipulation is
	Trilliant Blog, under an opinion titled	speculative, flawed, and contains
	"Farr's Law: It's Happening", stated	legal conclusions that follow the
	that "In 1840, the British	narrative and compilation of
	epidemiologist William Farr	Plaintiffs' view and legal theories
	submitted a letter to the Registrar-	with their own interpretation of
	General Mr. Farr observed that	scientific statistical data.
	"diseases of the epidemic class	
	follow laws of their own; they remain	
	nearly stationary during months,	
	years, and, as we learn from medical	
	history, centuries; then suddenly rise,	
	like a mist from the earth, and shed	
	desolation on nations – to disappear	
	as rapidly or insensibly as they	
	came." It continues saying that	
	"According to Farr's Law, epidemics	
	rise and fall at a mathematically	
	predictable rate that can be calculated	
	by a single mathematical formula	
	approximated by a bell-shaped	
	curve." It also states that according to	
	Mr. Farr, "epidemics have furnished	
	much matter for discussion, and still	
	offer large scope for	
	inquiryEpidemics appear to be	
	generated at intervals in unhealthy	
	places, spread, go through a regular	
	course, and decline; but of the cause	
	of their evolutions no more is known	
	than of the periodical paroxysms of	
	ague.	
	Trillian Health. Farr's Law: It's	
	Happening (October 1, 2020),	
	https://blog.trillianthealth.com/farrs-	
	law-its-happening	
56.	The "El VOCERO" newspaper	The Proposed stipulation is

published, on August 16, 2021, an speculative, flawed, and contains article titled "En estado de alerta los legal conclusions that follow the hospitals" that the president of the narrative and compilation of "Hospital Association of Puerto Plaintiffs' view and legal theories Rico," Attorney Jaime Plá said, "The with their own interpretation of reality is that hospitals have not been scientific statistical data. able to recover and return to the censuses they had prior to the pandemic. Before, hospitals could be 100% and others had less. The normal average was between 77% and 82% occupancy. Now they are still at 60%, about 20% less. EL VOCERO, En estado de alerta los hospitales, https://www.elvocero.com/economia/ otros/en-estado-de-alerta-loshospitales/article 3363670c-fe00-11eb-97f1-fb8badc7ec5d.html According to the HHS Protect The Proposed stipulation is Inpatient Dashboard, as of October 8, speculative, flawed, and contains 2021, the overall Inpatient Bed legal conclusions that follow the narrative and compilation of Utilization in the United States is 77.87% and in Puerto Rico 61.85% Plaintiffs' view and legal theories with their own interpretation of and the overall Inpatient Beds In Use for Covid-19 in the United States is scientific statistical data. 8.76% and in Puerto Rico is 1.42%. The overall ICU Bed Utilization in the United States is 78.19% and in Puerto Rico is 73.74% and the overall ICU Beds In Use for Covid-19 in the United States is 21.47% and in Puerto Rico is 5.6%. Refer to Appendixes 26A and 26B. HHS, HHS Protect Inpatient Bed Dashboard, https://protectpublic.hhs.gov/pages/hospitalutilization The "Medicina y Salud Publica" The Proposed stipulation is digital paper, on November 12, 2021, speculative, flawed, and contains published an article titled "They legal conclusions that follow the advocate for the elimination of the narrative and compilation of requirement for a referral in Plaintiffs' view and legal theories telemedicine service and the COVIDwith their own interpretation of

57. 58.

59.

scientific statistical data.

19 test," that, "at the beginning of the

1	pandemic during the month of March,	
	it had been established that it was not	
	a requirement to implement the	
	referral to receive medical,	
	laboratory, or medical services,	
	radiology and hospital services.	
	However, on October 9, the Puerto	
	Rican government reported that it	
	1	
	will be necessary and reestablishes	
	the aforementioned requirement to be	
	able to care for Vital Plan patients.	
	Medicina y Salud Publica, Abogan	
	para que se elimine requisito de	
	referido en servicio de telemedicina y	
	la prueba de COVID-19,	
	https://medicinaysaludpublica.com/n	
	oticias/administracion-y-gerencia-	
	medicina/abogan-para-que-se-	
	elimine-requisito-de-referido-en-	
	servicio-de-telemedicina-y-la-prueba-	
	de-covid-19/7244	
60.		
61.		
62.		
63.		
64.	According to the CDC, for	The Proposed stipulation is
	cumulative deaths related to COVID	speculative, flawed, and contains
1		
	per 100,000, as of October 9, 2021,	legal conclusions that follow the
	per 100,000, as of October 9, 2021, Utah has 93 deaths, Puerto Rico has	narrative and compilation of
	Utah has 93 deaths, Puerto Rico has 99 deaths, Iowa has 210 deaths,	_
	Utah has 93 deaths, Puerto Rico has	narrative and compilation of
	Utah has 93 deaths, Puerto Rico has 99 deaths, Iowa has 210 deaths,	narrative and compilation of Plaintiffs' view and legal theories
	Utah has 93 deaths, Puerto Rico has 99 deaths, Iowa has 210 deaths, Nevada has 236 deaths, Connecticut	narrative and compilation of Plaintiffs' view and legal theories with their own interpretation of
	Utah has 93 deaths, Puerto Rico has 99 deaths, Iowa has 210 deaths, Nevada has 236 deaths, Connecticut has 243 deaths and Arkansas has 258	narrative and compilation of Plaintiffs' view and legal theories with their own interpretation of
	Utah has 93 deaths, Puerto Rico has 99 deaths, Iowa has 210 deaths, Nevada has 236 deaths, Connecticut has 243 deaths and Arkansas has 258 deaths. Refer to Appendix 26.	narrative and compilation of Plaintiffs' view and legal theories with their own interpretation of
	Utah has 93 deaths, Puerto Rico has 99 deaths, Iowa has 210 deaths, Nevada has 236 deaths, Connecticut has 243 deaths and Arkansas has 258 deaths. Refer to Appendix 26. CDC, Cases, Deaths and Testing	narrative and compilation of Plaintiffs' view and legal theories with their own interpretation of
	Utah has 93 deaths, Puerto Rico has 99 deaths, Iowa has 210 deaths, Nevada has 236 deaths, Connecticut has 243 deaths and Arkansas has 258 deaths. Refer to Appendix 26. CDC, Cases, Deaths and Testing (View: Deaths, Time Period: Since	narrative and compilation of Plaintiffs' view and legal theories with their own interpretation of
	Utah has 93 deaths, Puerto Rico has 99 deaths, Iowa has 210 deaths, Nevada has 236 deaths, Connecticut has 243 deaths and Arkansas has 258 deaths. Refer to Appendix 26. CDC, Cases, Deaths and Testing (View: Deaths, Time Period: Since Jan 21, 2020, Metric: Rate per	narrative and compilation of Plaintiffs' view and legal theories with their own interpretation of
	Utah has 93 deaths, Puerto Rico has 99 deaths, Iowa has 210 deaths, Nevada has 236 deaths, Connecticut has 243 deaths and Arkansas has 258 deaths. Refer to Appendix 26. CDC, Cases, Deaths and Testing (View: Deaths, Time Period: Since Jan 21, 2020, Metric: Rate per 100,000), Data Table for Death Rate	narrative and compilation of Plaintiffs' view and legal theories with their own interpretation of
	Utah has 93 deaths, Puerto Rico has 99 deaths, Iowa has 210 deaths, Nevada has 236 deaths, Connecticut has 243 deaths and Arkansas has 258 deaths. Refer to Appendix 26. CDC, Cases, Deaths and Testing (View: Deaths, Time Period: Since Jan 21, 2020, Metric: Rate per 100,000), Data Table for Death Rate by State/Territory,	narrative and compilation of Plaintiffs' view and legal theories with their own interpretation of
65.	Utah has 93 deaths, Puerto Rico has 99 deaths, Iowa has 210 deaths, Nevada has 236 deaths, Connecticut has 243 deaths and Arkansas has 258 deaths. Refer to Appendix 26. CDC, Cases, Deaths and Testing (View: Deaths, Time Period: Since Jan 21, 2020, Metric: Rate per 100,000), Data Table for Death Rate by State/Territory, https://covid.cdc.gov/covid-data-	narrative and compilation of Plaintiffs' view and legal theories with their own interpretation of
65.	Utah has 93 deaths, Puerto Rico has 99 deaths, Iowa has 210 deaths, Nevada has 236 deaths, Connecticut has 243 deaths and Arkansas has 258 deaths. Refer to Appendix 26. CDC, Cases, Deaths and Testing (View: Deaths, Time Period: Since Jan 21, 2020, Metric: Rate per 100,000), Data Table for Death Rate by State/Territory, https://covid.cdc.gov/covid-data-tracker/#cases_deathsper100k	narrative and compilation of Plaintiffs' view and legal theories with their own interpretation of scientific statistical data.
65.	Utah has 93 deaths, Puerto Rico has 99 deaths, Iowa has 210 deaths, Nevada has 236 deaths, Connecticut has 243 deaths and Arkansas has 258 deaths. Refer to Appendix 26. CDC, Cases, Deaths and Testing (View: Deaths, Time Period: Since Jan 21, 2020, Metric: Rate per 100,000), Data Table for Death Rate by State/Territory, https://covid.cdc.gov/covid-data-tracker/#cases_deathsper100k According to the Puerto Rico Health	narrative and compilation of Plaintiffs' view and legal theories with their own interpretation of scientific statistical data. The Proposed stipulation is
65.	Utah has 93 deaths, Puerto Rico has 99 deaths, Iowa has 210 deaths, Nevada has 236 deaths, Connecticut has 243 deaths and Arkansas has 258 deaths. Refer to Appendix 26. CDC, Cases, Deaths and Testing (View: Deaths, Time Period: Since Jan 21, 2020, Metric: Rate per 100,000), Data Table for Death Rate by State/Territory, https://covid.cdc.gov/covid-data-tracker/#cases_deathsper100k According to the Puerto Rico Health Department COVID-19 dashboard, as	narrative and compilation of Plaintiffs' view and legal theories with their own interpretation of scientific statistical data. The Proposed stipulation is speculative, flawed, and contains
65.	Utah has 93 deaths, Puerto Rico has 99 deaths, Iowa has 210 deaths, Nevada has 236 deaths, Connecticut has 243 deaths and Arkansas has 258 deaths. Refer to Appendix 26. CDC, Cases, Deaths and Testing (View: Deaths, Time Period: Since Jan 21, 2020, Metric: Rate per 100,000), Data Table for Death Rate by State/Territory, https://covid.cdc.gov/covid-data-tracker/#cases_deathsper100k According to the Puerto Rico Health Department COVID-19 dashboard, as of October 8, 2021, the highest	narrative and compilation of Plaintiffs' view and legal theories with their own interpretation of scientific statistical data. The Proposed stipulation is speculative, flawed, and contains legal conclusions that follow the

	September 1, 2021, with 14.3 deaths. On October 8, the 7dMA of daily deaths was 3.1 deaths. Refer to Appendix 29A and 29B. Puerto Rico Health Department COVID-19 Dashboard, Defunciones, https://covid19datos.salud.gov.pr/#defunciones	scientific statistical data.
66.	According to the Puerto Rico Health Department's data, three of the deaths among the ages of 10 and 19 happened after vaccine availability. (June, August and October 2021). Puerto Rico Health Department COVID-19 Dashboard, Defunciones, https://covid19datos.salud.gov.pr/#de-funciones	The Proposed stipulation is speculative, flawed, and contains legal conclusions that follow the narrative and compilation of Plaintiffs' view and legal theories with their own interpretation of scientific statistical data.
67.	Noticel reported, on September 29, 2021, under the news article "Forensic Sciences has certified 140 deaths from Covid-19 since the pandemic began" that "the Institute of Forensic Sciences (ICF) confirmed today that in August they certified 15 cases of deaths from covid-19, which brings to 140 certified cases since the pandemic began. In that statistic, the cases of this month of September are not yet added, which has not yet ended, said Dr. María Conte Miller, director of the ICF today. Noticel, Ciencias Forenses ha certificado 140 muertes por covid-19 desde que empezó la pandemia, https://www.noticel.com/salud/ahora/top-stories/20210929/ciencias-forenses-ha-certificado-140-muertes-por-covid-19-desde-que-empezo-la-pandemia/	The Proposed stipulation is speculative, flawed, and contains legal conclusions that follow the narrative and compilation of Plaintiffs' view and legal theories with their own interpretation of scientific statistical data.
68.	According to the American Academy of Pediatrics, "among states reporting, children ranged from 1.6%-4.1% of their total cumulated hospitalizations, and 0.1%-2.0% of all their child COVID-19 cases resulted in hospitalization" and	The Proposed stipulation is speculative, flawed, and contains legal conclusions that follow the narrative and compilation of Plaintiffs' view and legal theories with their own interpretation of scientific statistical data.
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	"among states reporting, children were 0.00%-0.27% of all COVID-19 deaths, and 7 states reported zero child deaths. In states reporting, 0.00%-0.03% of all child COVID-19 cases resulted in death. American Academy of Pediatrics, Children and COVID-19: State-Level Data Report, https://www.aap.org/en/pages/2019-novel-coronavirus-covid-19-infections/children-and-covid-19-infections/children-and-covid-19-	
69.	Primera Hora reported on September 13, 2021, under the article "ICF delivers to Health a report that confirms that a five-year-old girl died of COVID-19" that "the minor, a resident of the southern area and who had a history of chronic asthma, died at an area hospital before receiving a diagnosis from an emergency room doctor." Also stated, "this [chronic asthma] is an underlying condition that aggravates the clinical picture in patients with COVID-19 disease." Primera Hora, ICF entrega a Salud informe que confirma que niña de cinco años murió por COVID-19, https://www.primerahora.com/noticia s/gobierno-politica/notas/icf-entrega-a-salud-informe-que-confirma-que-nina-de-cinco-anos-murio-por-covid-19/	The Proposed stipulation is speculative, flawed, and contains legal conclusions that follow the narrative and compilation of Plaintiffs' view and legal theories with their own interpretation of scientific statistical data.
70.	According to the National Vaccine Information Center, search results for the CDC VAERS system, it found 97 adverse event cases for pregnancy and breast feeding. National Vaccine Information Center, Vaccine targets COVID-19 (COVID19) and Symptom is Breast feeding, https://medalerts.org/vaersdb/findfield.php?TABLE=ON&SYMPTOMS=Bre	The Proposed stipulation is speculative, flawed, and contains legal conclusions that follow the narrative and compilation of Plaintiffs' view and legal theories with their own interpretation of scientific statistical data.

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71. According to The Israeli Public Emergency Council For The Covid19 Crisis, "the implicit message that emerges from the existing discourse, suggesting that unvaccinated people, unlike vaccinated people, pose a risk to others, is actually most dangerous to the vaccinated persons themselves, as it fosters the illusion that vaccination protects against contagion, and thus encourages careless behaviors of vaccinated persons in public spaces shared with high-risk populations. Medicine is not only a science; it is also intertwined into the social, ethical and moral fabric. The right of society to protection prevails over the right of the individual to freedom only when there is a real danger (as is done in the case of violent psychotic patients, or in the very different case of prisoners). It is wrong to restrict a person's liberty due to a remote potential risk (for example, the case of an AIDS patient, a person returning from a country with a high rate of tuberculosis or tropical diseases, or, to give a very different example, a released prisoner with a high chance of reoffending). We call for continued effort to persuade and make information accessible to members of the elderly population or those who are at high risk but have not yet been vaccinated with the first two doses. The choice of whether to get vaccinated should remain in the hands of every person, according to their understanding and values." The Israeli Public Emergency Council for the Covid19 Crisis. Position Paper - The Science And

Posed By Non-Vaccinated Individuals, https://pecc-il.org/docs/position-paperthe-science-and-the-ethics-regarding-the-risk-posed-by-non-vaccinated-individuals/ 72. According to The Lancet, on the research paper titled "Transmission, viral kinetics and clinical characteristics of the emergent SARS-CoV-2 Delta VOC in Guangzhou, China" published on September 12, 2021, "the Delta VOC	The Proposed stipulation is speculative, flawed, and contains legal conclusions that follow the narrative and compilation of Plaintiffs' view and legal theories with their own interpretation of scientific statistical data.
il.org/docs/position-paperthe-science-and-the-ethics-regarding-the-risk-posed-by-non-vaccinated-individuals/ 72. According to The Lancet, on the research paper titled "Transmission, viral kinetics and clinical characteristics of the emergent SARS-CoV-2 Delta VOC in Guangzhou, China" published on	speculative, flawed, and contains legal conclusions that follow the narrative and compilation of Plaintiffs' view and legal theories with their own interpretation of
and-the-ethics-regarding-the-risk-posed-by-non-vaccinated-individuals/ 72. According to The Lancet, on the research paper titled "Transmission, viral kinetics and clinical characteristics of the emergent SARS-CoV-2 Delta VOC in Guangzhou, China" published on	speculative, flawed, and contains legal conclusions that follow the narrative and compilation of Plaintiffs' view and legal theories with their own interpretation of
72. According to The Lancet, on the research paper titled "Transmission, viral kinetics and clinical characteristics of the emergent SARS-CoV-2 Delta VOC in Guangzhou, China" published on	speculative, flawed, and contains legal conclusions that follow the narrative and compilation of Plaintiffs' view and legal theories with their own interpretation of
72. According to The Lancet, on the research paper titled "Transmission, viral kinetics and clinical characteristics of the emergent SARS-CoV-2 Delta VOC in Guangzhou, China" published on	speculative, flawed, and contains legal conclusions that follow the narrative and compilation of Plaintiffs' view and legal theories with their own interpretation of
research paper titled "Transmission, viral kinetics and clinical characteristics of the emergent SARS-CoV-2 Delta VOC in Guangzhou, China" published on	speculative, flawed, and contains legal conclusions that follow the narrative and compilation of Plaintiffs' view and legal theories with their own interpretation of
viral kinetics and clinical characteristics of the emergent SARS-CoV-2 Delta VOC in Guangzhou, China" published on	legal conclusions that follow the narrative and compilation of Plaintiffs' view and legal theories with their own interpretation of
characteristics of the emergent SARS-CoV-2 Delta VOC in Guangzhou, China" published on	narrative and compilation of Plaintiffs' view and legal theories with their own interpretation of
SARS-CoV-2 Delta VOC in Guangzhou, China" published on	Plaintiffs' view and legal theories with their own interpretation of
Guangzhou, China" published on	with their own interpretation of
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September 12, 2021, "the Delta VOC	scientific statistical data.
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yielded a significantly shorter	
incubation period (4.0 vs. 6.0 days),	
higher viral load (20.6 vs. 34.0, cycle	
threshold of the ORF1a/b gene), and	
a longer duration of viral shedding in	
pharyngeal swab samples (14.0 vs.	
8.0 days) compared with the wild-	
type strain."	
The Lancet, Transmission, viral	
kinetics and clinical characteristics of	
the emergent SARS-CoV-2 Delta	
VOC in Guangzhou, China	
(September 12, 2021),	
https://www.thelancet.com/journals/e	
clinm/article/PIIS2589-	
5370(21)00409-0/fulltext	TTI D 1 (1 1 (1 1)
73 According to JAMA Internal	The Proposed stipulation is
Medicine, in the original	speculative, flawed, and contains
investigation paper titled "COVID-19 Transmission Dynamics Among	legal conclusions that follow the
Close Contacts of Index Patients	narrative and compilation of
With COVID-19: A Population-	Plaintiffs' view and legal theories with their own interpretation of
Based Cohort Study in Zhejiang	scientific statistical data.
Province, China", published on	scientific statistical data.
August 23, 2021, "contacts were at	
highest risk of COVID-19 if they	
 	
1 1 1	
Close Contacts of Index Patients	
With COVID-19: A Population-	
were exposed between 2 days before and 3 days after the index patient's symptom onset, peaking at day 0". JAMA Internal Medicine, COVID-19 Transmission Dynamics Among Close Contacts of Index Patients	

	Based Cohort Study in Zhejiang Province, China (August 23, 2021), https://jamanetwork.com/journals/jamainternalmedicine/fullarticle/27830 99	
74.	According to the CDC, "Cycle threshold values were similar among specimens from patients who were fully vaccinated and those who were not." It further says in the discussion, "there was no significant difference between the Ct values of samples collected from breakthrough cases and the other cases. This might mean that the viral load of vaccinated and unvaccinated persons infected with SARS-CoV-2 is also similar. CDC, MMWR Outbreak of SARS-CoV-2 Infections, Including COVID-19 Vaccine Breakthrough Infections, Associated with Large Public Gatherings — Barnstable County, Massachusetts, July 2021, https://www.cdc.gov/mmwr/volumes/70/wr/mm7031e2.htm	The Proposed stipulation is speculative, flawed, and contains legal conclusions that follow the narrative and compilation of Plaintiffs' view and legal theories with their own interpretation of scientific statistical data.
75.	According to the CDC, on a "Statement from CDC Director Rochelle P. Walensky, MD, MPH on Today's MMWR" published on July 30, 2021, it says "today, some of those data were published in CDC's Morbidity and Mortality Weekly Report (MMWR), demonstrating that Delta infection resulted in similarly high SARS-CoV-2 viral loads in vaccinated and unvaccinated people. High viral loads suggest an increased risk of transmission and raised concern that, unlike with other variants, vaccinated people infected with Delta can transmit the virus. CDC Newsroom, Statement from CDC Director Rochelle P. Walensky, MD, MPH on Today's MMWR (July 30, 2021), https://www.cdc.gov/media/releases/	The Proposed stipulation is speculative, flawed, and contains legal conclusions that follow the narrative and compilation of Plaintiffs' view and legal theories with their own interpretation of scientific statistical data.

2021/s0730-mmwr-covid-19.html

76. According to medRxiv, in the study "Virological and serological kinetics of SARS-CoV-2 Delta variant vaccine-breakthrough infections: a multi-center cohort study", published on July 31, 2021, "the initial median Ct value did not differ between unvaccinated and fully vaccinated patients (unvaccinated median Ct 18.8 (14.9-22.7), vaccinated 19.2 (15.2-22.2), p=0.929). However, fully vaccinated patients had a faster rate of increase in Ct value over time compared with unvaccinated individuals, suggesting faster viral load decline (coefficient estimates for interaction terms ranged from 9.12 (standard error 3.75) to 12.06 (standard error 3.03); p-value < 0.05 for each interaction terms) (Figure 1)." It said, "initial viral load indicated by PCR Ct values was similar between vaccinated and unvaccinated patients with B.1.617.2". It was denoted as the day one of illness "for symptomatic patients, from the day of symptom onset or the day of confirmatory COVID-19 diagnosis, whichever earlier. medRxiv, Virological and serological kinetics of SARS-CoV-2 Delta variant vaccine-breakthrough infections: a multi-center cohort study (July 31, 2021), https://www.medrxiv.org/content/10. 1101/2021.07.28.21261295v1

The Proposed stipulation is speculative, flawed, and contains legal conclusions that follow the narrative and compilation of Plaintiffs' view and legal theories with their own interpretation of scientific statistical data.

77. For the first 7 days, viral load in vaccinated patients and unvaccinated individuals remains similar with Ct<25. Therefore, during the time of most contagiousness, 2 days before and 3 days after, both unvaccinated and vaccinated carry the same viral load.

	JAMA Internal Medicine, COVID-19	
	Transmission Dynamics Among	
	Close Contacts of Index Patients	
	With COVID-19: A Population-	
	Based Cohort Study in Zhejiang	
	Province, China (August 23, 2021),	
	https://jamanetwork.com/journals/ja	
	mainternalmedicine/fullarticle/27830	
	99	
	medRxiv, Virological and serological	
	kinetics of SARS-CoV-2 Delta	
	variant vaccine-breakthrough	
	infections: a multi-center cohort	
	study (July 31, 2021),	
	https://www.medrxiv.org/content/10.	
	1101/2021.07.28.21261295v1	
78.	According to medRxiv, in the study	The Proposed stipulation is
	titled "Shedding of Infectious SARS-	speculative, flawed, and contains
	CoV-2 Despite Vaccination"	legal conclusions that follow the
	published on August 24, 2021, they	narrative and compilation of
	"observed low Ct values (<25) in 212	Plaintiffs' view and legal theories
	of 310 fully vaccinated (68%) and	with their own interpretation of
	246 of 389 (63%) unvaccinated	scientific statistical data.
	individuals. Testing a subset of low-	
	Ct samples revealed infectious	
	SARS-CoV-2 in 15 of 17 specimens	
	(88%) from unvaccinated individuals	
	and 37 of 39 (95%) from vaccinated	
	people. Low Ct values were detected	
	in vaccinated people regardless of	
	symptoms at the time of testing."	
	Moreover, "time from symptom onset	
	to testing did not vary by vaccination	
	status." and "although few	
	asymptomatic individuals were	
	sampled, these results indicate that	
	even asymptomatic, fully vaccinated	
	people might shed infectious virus."	
	medRxiv, Shedding of Infectious	
	SARS-CoV-2 Despite Vaccination	
	(August 24, 2021),	
	https://www.medrxiv.org/content/10.	
	<u>1101/2021.07.31.21261387v4.full</u>	
79.	According to The New England	The Proposed stipulation is
	Journal of Medicine, on the research	speculative, flawed, and contains
1	article titled "Waning of BNT162b2	legal conclusions that follow the

Vaccine Protection against SARS-CoV-2 Infection in Qatar" published October 6, 2021, stated in their results that the "estimated BNT162b2 effectiveness against any SARS-CoV-2 infection...reached its peak at 77.5% in the first month after the second dose. Effectiveness declined gradually thereafter, with the decline accelerating after the fourth month to reach approximately 20% in months 5 through 7 after the second dose." It concluded that "BNT162b2-induced protection against SARS-COV-2 infection appeared to wane rapidly following its peak after the second dose, but protection against hospitalization and death persisted at a robust level for 6 months after the second dose."

narrative and compilation of Plaintiffs' view and legal theories with their own interpretation of scientific statistical data.

New England Journal of Medicine, Waning of BNT162b2 Vaccine Protection against SARS-CoV-2 Infection in Qatar (October 6, 2021), https://www.nejm.org/doi/full/10.105 6/NEJMoa2114114

According to Nature, on the scientific

80.

study "Rates of SARS-CoV-2 transmission and vaccination impact the fate of vaccine-resistant strains", published on July 30, 2021, "the emergence of vaccine-resistant strains may come too rapidly for current vaccine developments to alleviate the health, economic and social consequences of the pandemic." In its discussion it states "By contrast, a counterintuitive result of our analysis is that the highest risk of resistant strain establishment occurs when a large fraction of the population has already been vaccinated but the transmission is not controlled. Indeed, it seems likely that when a large fraction of the

population is vaccinated, especially

	the high right fraction of the	
	the high-risk fraction of the	
	population (aged individuals and	
	those with specific underlying	
	conditions) policy makers and	
	individuals will be driven to return to	
	pre-pandemic guidelines59 and	
	behaviours conducive to a high rate	
	of virus transmission60,61. However,	
	the establishment of a resistant strain	
	at that time may lead to serial rounds	
	of resistant strain evolution with	
	vaccine development playing catch	
	up in the evolutionary arms race	
	against novel strains."	
	Nature, Rates of SARS-CoV-2	
	transmission and vaccination impact	
	the fate of vaccine-resistant strains,	
	https://www.nature.com/articles/s415	
	<u>98-021-95025-3</u>	
81.	According to medRxiv, the article	The Proposed stipulation is
	titled "Comparing SARS-CoV-2	speculative, flawed, and contains
	natural immunity to vaccine-induced	legal conclusions that follow the
	immunity: reinfections versus	narrative and compilation of
	breakthrough infections", published	Plaintiffs' view and legal theories
	on August 25, 2021, states that	with their own interpretation of
	"SARS-CoV-2-naïve vaccinees had a	scientific statistical data.
	13.06-fold increased risk for	
	breakthrough infection with the Delta	
	variant compared to those previously	
	infected". It concluded that the study	
	"demonstrated that natural immunity	
	confers longer lasting and stronger	
	protection against infection,	
	symptomatic disease and	
	hospitalization caused by the Delta	
	variant of SARS-CoV-2, compared to	
	the BNT162b2 two-dose vaccine-	
	induced immunity.	
	medRxiv, Comparing SARS-CoV-2	
	natural immunity to vaccine-induced	
	immunity: reinfections versus	
	breakthrough infections (August 25,	
	2021),	
	https://www.medrxiv.org/content/10.	
	<u>1101/2021.08.24.21262415v1</u>	
82.	According to the European Journal of	The Proposed stipulation is

Immunology, the research article titled "Persistence of neutralizing antibodies a year after SARS-CoV-2 infection in humans" published September 27, 2021, natural immunity could last at least 13 months, "the proportion of subjects with neutralizing antibodies (NAb) were assessed. We found that NAb against the wild-type virus persisted in 89% and S-IgG in 97% of subjects for at least 13 months after infection. Subjects with severe infection had markedly higher IgG and NAb levels and are expected to remain seropositive for longer." European Journal of Immunology, Persistence of neutralizing antibodies a year after SARS-CoV-2 infection in humans (September 27, 2021), https://onlinelibrary.wiley.com/doi/ab s/10.1002/eji.202149535

speculative, flawed, and contains legal conclusions that follow the narrative and compilation of Plaintiffs' view and legal theories with their own interpretation of scientific statistical data.

According to The Lancet, on the 83. research article titled "Effectiveness of mRNA BNT162b2 COVID-19 vaccine up to 6 months in a large integrated health system in the USA: a retrospective cohort study" published October 4, 2021, "for fully vaccinated individuals, effectiveness against SARS-CoV-2 infections was 73%". However, "effectiveness against infections declined from 88% (95% CI 86–89) during the first month after full vaccination to 47% (43–51) after 5 months. Among sequenced infections, vaccine effectiveness against infections of the delta variant was high during the first month after full vaccination (93%) but declined to 53% after 4 months." It interprets in the study, among other things, that "reduction in vaccine effectiveness against SARS-CoV-2 infections over time is probably primarily due to waning immunity

The Proposed stipulation is speculative, flawed, and contains legal conclusions that follow the narrative and compilation of Plaintiffs' view and legal theories with their own interpretation of scientific statistical data.

with time rather than the delta variant escaping vaccine protection.
The Lancet, Effectiveness of mRNA BNT162b2 COVID-19 vaccine up to 6 months in a large integrated health system in the USA: a retrospective cohort study (October 4, 2021), https://www.thelancet.com/journals/lancet/article/PIIS0140-6736(21)02183-8/fulltext

According to The New England 84. Journal of Medicine, on the research article title "Waning Immune Humoral Response to BNT162b2 Covid-19 Vaccine over 6 Months" published October 6, 2021, a "study was conducted from December 19, 2020, to July 9, 2021. Of the 12,603 vaccinated health care workers who were eligible for the study, 4868 were recruited for study participation". It concluded that "six months after receipt of the second dose of the BNT162b2 vaccine, humoral response was substantially decreased, especially among men, among persons 65 years of age or older, and among persons with immunosuppression." It adds that "published work about many vaccines, such as those against measles, mumps, and rubella, has shown a small decrease each year of 5 to 10% in the neutralizing antibody levels.13,14 We found that a significant and rapid decrease in humoral response to the BNT162b2 vaccine was observed within months after vaccination." As to natural immunity it stated, "several studies on the durability of humoral response in persons who have recovered from SARS-CoV-2 infection showed that both IgG and neutralizing antibody levels decrease only modestly at 8 to 10 months after the infection. This

The Proposed stipulation is speculative, flawed, and contains legal conclusions that follow the narrative and compilation of Plaintiffs' view and legal theories with their own interpretation of scientific statistical data.

striking difference in antibody kinetics between convalescent persons and vaccinated persons may be the reason for the substantially lower incidence of breakthrough infection among previously infected persons than among vaccinated persons.24,25 Overall, the accumulating evidence from our study and others shows that longterm humoral response and vaccine effectiveness in previously infected persons were superior to that in recipients of two doses of vaccine. New England Journal of Medicine, Waning Immune Humoral Response to BNT162b2 Covid-19 Vaccine over 6 Months (October 6, 2021), https://www.nejm.org/doi/full/10.105 6/NEJMoa2114583

85. According to the Foundation for Economic Education (FEE), on an article title "Stanford Epidemiologist Says COVID Vaccination Is Primarily a Matter of Personal Health, Not Public Health" published October 8, 2021, and written by Eric Brakey, Maine state senator from 2014 to 2018, who served as senate chairman for the Maine Health and Human Services Committee. It says, "Studies from multiple countries now indicate that vaccination alone is less effective than the acquired immunity many already possess and unable to prevent transmission in the mediumto-long term." It discusses herd immunity by stating, "before the advent of vaccination, herd immunity relied on the development of natural immunity through widespread exposure to a virus. Since vaccination became common, many viruses once plaguing society are now virtually eradicated. To maintain herd immunity for subsequent generations

The Proposed stipulation is speculative, flawed, and contains legal conclusions that follow the narrative and compilation of Plaintiffs' view and legal theories with their own interpretation of scientific statistical data.

and prevent the return of our old viral enemies, widespread vaccination is widely regarded as essential. For COVID vaccination, however, this does not appear to be the case." It also says that "According to Dr. Jay Bhattacharya, a professor of medicine who studies epidemiology at Stanford University, recent studies indicate that the mRNA vaccines produced by Moderna and Pfizer do not contribute to herd immunity. During a September 2021 interview with New York Times best-selling author Tom Woods, Bhattacharya, one of the authors of the Great Barrington Declaration, cited a study from Qatar with important findings on vaccine effectiveness. While vaccinated individuals were up to 95 percent safer from severe disease six months after vaccination, protection against infection and transmission was fleeting. Immunity began to diminish after five weeks. At 20 weeks, the vaccinated were as likely to become infected and transmit the virus as those unvaccinated." Continues with "At the same time, Bhattacharya concludes that, without contributing to herd immunity, COVID vaccination is a matter of personal health, not public health. As the benefits rest primarily with the individual, not society, government officials have no greater moral authority to prescribe vaccination than they do to prescribe chemotherapy. These are decisions for the individual to decide in consultation with their own physician.". The article concludes by saying "Mandatory COVID vaccination oversteps the bounds of public health, violating long-standing Western principles of bodily

	autonomy and individual rights. Lacking even the clear positive externalities often used to justify past vaccination requirements, these mandates should be opposed at all levels of policymaking." FEE, Stanford Epidemiologist Says COVID Vaccination Is Primarily a Matter of Personal Health, Not Public Health (October 8, 2021), https://fee.org/articles/stanford- epidemiologist-says-covid- vaccination-is-primarily-a-matter-of- personal-health-not-public-health/	
86.	personar-nearm-not-puone-nearm/	
87.	There is no Vaccine Mandate by for the private sector by a state government in any of the United States.	The Proposed stipulation is speculative, flawed, and contains legal conclusions that follow the narrative and compilation of Plaintiffs' view and legal theories with their own interpretation of scientific statistical data.
88.	According to the National Center for Biotechnology Information (NCBI), on an article title "Increases in COVID-19 are unrelated to levels of vaccination across 68 countries and 2947 counties in the United States", published on September 30, 2021, says that comparing among 68 countries, it found that "there appears to be no discernable relationship between percentage of population fully vaccinated and new COVID-19 cases in the last 7 days. In fact, the trend line suggests a marginally positive association such that countries with higher percentage of population fully vaccinated have higher COVID-19 cases per 1 million people. Notably, Israel with over 60% of their population fully vaccinated had the highest COVID-19 cases per 1 million people in the last 7 days. The lack of a meaningful association between percentage	The Proposed stipulation is speculative, flawed, and contains legal conclusions that follow the narrative and compilation of Plaintiffs' view and legal theories with their own interpretation of scientific statistical data.

population fully vaccinated and new COVID-19 cases is further exemplified, for instance, by comparison of Iceland and Portugal. Both countries have over 75% of their population fully vaccinated and have more COVID-19 cases per 1 million people than countries such as Vietnam and South Africa that have around 10% of their population fully vaccinated." Comparing across the 2,947 counties within the United States it found that "the median new COVID-19 cases per 100,000 people in the last 7 days is largely similar across the categories of percent population fully vaccinated. Notably there is also substantial county variation in new COVID-19 cases within categories of percentage population fully vaccinated. There also appears to be no significant signaling of COVID-19 cases decreasing with higher percentages of population fully vaccinated." Moreover, it adds that "of the top 5 counties that have the highest percentage of population fully vaccinated (99.9-84.3%), the US Centers for Disease Control and Prevention (CDC) identifies 4 of them as "High" Transmission counties. Chattahoochee (Georgia), McKinley (New Mexico), and Arecibo (Puerto Rico) counties have above 90% of their population fully vaccinated with all three being classified as "High" transmission. Conversely, of the 57 counties that have been classified as "low" transmission counties by the CDC, 26.3% (15) have percentage of population fully vaccinated below 20%." It concludes by saying that "even as efforts should be made to encourage populations to get

vaccinated it should be done so with humility and respect. Stigmatizing populations can do more harm than good. Importantly, other nonpharmacological prevention efforts (e.g., the importance of basic public health hygiene with regards to maintaining safe distance or handwashing, promoting better frequent and cheaper forms of testing) needs to be renewed in order to strike the balance of learning to live with COVID-19 in the same manner we continue to live a 100 years later with various seasonal alterations of the 1918 Influenza virus. NCBI, Increases in COVID-19 are unrelated to levels of vaccination across 68 countries and 2947 counties in the United States (September 30, 2021),https://www.ncbi.nlm.nih.gov/ pmc/articles/PMC8481107/

According to the CATO Institute, in a The Proposed stipulation is report titled "Society Will Never Be speculative, flawed, and contains Free of COVID-19—It's Time to legal conclusions that follow the Embrace Harm Reduction", narrative and compilation of published August 26, 2021, it states Plaintiffs' view and legal theories that "Policymakers should accept the with their own interpretation of fact that COVID-19 will become scientific statistical data. endemic and adopt the vision of the

89. harm reduction movement that grew up in response to the crisis created by drug prohibition.". It continues by saying "The COVID-19 virus will not be eradicated. The only human virus ever to be eradicated was smallpox, and that took 200 years. COVID-19 will become endemic. It likely will continue mutating and developing variants.". It continues by comparing COVID-19 fatality rate to other viruses, "unlike smallpox, which had a 30 percent fatality rate; or Ebola, which has a 50 percent fatality rate; or respiratory syncytial virus (RSV), which has up to a 1.7 percent fatality

rate in children and over an 11 percent fatality rate in adults, COVID-19 appears to average a 0.3 to 0.4 percent infection fatality rate in Europe and the Americas and a 0.2 percent fatality rate among people not living in institutions.". It also looks at the impact of the age groups, "In the United States, 80 percent of fatalities have occurred in people over age 65, and 39 percent of all COVID-19 deaths in 2020 occurred in nursing homes. As of July 29, 2021, 358 U.S. children under age 17 had died from COVID-19 since the start of the pandemic. (For comparison, the average annual fatality rate for RSV in children is 500.) Martin A. Makary, a public health professor, and his team at Johns Hopkins University found that most of the children who died of COVID-19 had preexisting vulnerabilities such as leukemia. This tells us which populations need the most protection." It adds, "While vaccines are clearly advisable, state-mandated vaccination should be avoided. It is impossible to know if an unvaccinated person will become infected and spread the virus to others. There is no certainty that forcibly vaccinating someone won't cause that person serious or even lifethreatening harm. With COVID-19 downgraded to the status of a common respiratory virus for those who choose to get vaccinated, vaccinated people are less threatened by those who pass up the vaccine. On the other hand, neither is it justifiable for the state to prohibit private organizations, businesses, or workplaces from requiring customers, clients, or employees to get vaccinated. These are voluntary

associations. Just as places of
business have the right to state, "no
shirt, no shoes, no service," they have
the right to add "no vax" to the list of
conditions. For certain industries,
such as the hospitality industry, it
may make good business sense to do
so.CATO Institute, Society Will
Never Be Free of COVID-19—It's
Time to Embrace Harm Reduction
(August 26, 2021),
https://www.cato.org/pandemics-policy/society-will-never-be-free-covid-19-its-time-embrace-harm-reduction

III. STIPULATIONS SUGGESTED BY DEFENDANT AND REJECTED BY PLAINTIFFS

	A. Defendant's Suggested	B. Plaintiffs' Reason to Reject
	Stipulation	Suggestion
1.		
2.		
3.		
4.	(https://www.cdc.gov/coronavirus/2019-ncov/variants/delta-variant.html) and (https://www.elvocero.com/gobierno/agencias/el-departamento-de-salud-hadetectado-m-s-de-150-casos-de-la-variante-delta/article_e08d2cee-f8ae-11eb-9b7c-6b502bf1ef8a.html)	2021 and it says "Delta is currently the predominant variant of the virus in the United States." It does not mentioned Puerto Rico directly. The El Vocero article

		is on its way, which was first identified in South America."
5.	more severe illness than previous variants	said that in a statement in the past, but it is not taking into account duration of vaccine effectiveness nor natural immunity on unvaccinated people. Multiple recent scientific studies have demonstrated that vaccine effectiveness wanes over time and individuals who have been infected and acquire natural immunity have stronger protection that fully vaccinated people, regardless of time since vaccination, which also last longer.
		According to the article "Comparing SARS-CoV-2 natural immunity to vaccine-induced immunity: reinfections versus breakthrough infections," published on August 25, 2021, it states that "SARS-CoV-2-naïve vaccinees had a 13.06-fold increased risk for breakthrough infection with the Delta variant compared to those previously infected". It concluded that the study "demonstrated that natural immunity confers longer lasting and stronger protection against infection, symptomatic disease and hospitalization caused by the Delta variant of SARS-CoV-2, compared to the BNT162b2 two-dose vaccine-induced immunity." (https://www.medrxiv.org/content/10.1101/2021.08.24.21262415v1)
		Also, the European Journal of Immunology, the research article title "Persistence of neutralizing antibodies a year after SARS-CoV-2 infection in humans" published September 27, 2021, natural immunity could last at least 13 months, "the proportion of subjects with neutralizing antibodies (NAb) were assessed. We found that NAb against the wild-type virus persisted in 89% and S-IgG in 97% of subjects for at least 13

months after infection. Subjects with severe infection had markedly higher IgG and NAb levels and are expected to remain seropositive for longer."

(https://onlinelibrary.wiley.com/doi/abs/10
(https://onlinelibrary.wile

As to the vaccine effectiveness throughout time, the most recent study title "Effectiveness of mRNA BNT162b2 COVID-19 vaccine up to 6 months in a large integrated health system in the USA: a retrospective cohort study" published on October 4, 2021. It states that "for fully vaccinated individuals, effectiveness against SARS-CoV-2 infections was 73%". However, "effectiveness against infections declined from 88% (95% CI 86–89) during the first month after full vaccination to 47% (43–51) after 5 months. Among sequenced infections, vaccine effectiveness against infections of the delta variant was high during the first month after full vaccination (93%) but declined to 53% after 4 months." It interprets in the study, among other things, that "reduction in vaccine effectiveness against SARS-CoV-2 infections over time is probably primarily due to waning immunity with time rather than the delta variant escaping vaccine protection." (https://www.thelancet.com/journals/lance t/article/PIIS0140-6736(21)02183-8/fulltext)

Moreover, according to The New England Journal of Medicine, on the research article "Waning of BNT162b2 Vaccine Protection against SARS-CoV-2 Infection in Qatar" published October 6, 2021, stated in their results that the "estimated BNT162b2 effectiveness against any SARS-CoV-2 infection...reached its peak at 77.5% in the first month after the second dose. Effectiveness declined gradually thereafter, with the decline

accelerating after the fourth month to reach approximately 20% in months 5 through 7 after the second dose." It concluded that "BNT162b2-induced protection against SARS-COV-2 infection appeared to wane rapidly following its peak after the second dose, but protection against hospitalization and death persisted at a robust level for 6 months after the second dose." (https://www.nejm.org/doi/full/10.1056/N EJMoa2114114) Another study from Israel, "Waning immunity of the BNT162b2 vaccine: A nationwide study from Israel" published on August 30, 2021, stated that "The rates of both documented SARS-CoV-2 infections and severe COVID-19 exhibit a statistically significant increase as time from second vaccine dose elapsed." (https://www.medrxiv.org/content/10.1101 /2021.08.24.21262423v1) The CDC has stated that the vast majority See Response to Defendants' Suggested of hospitalizations and deaths caused by Stipulation 5. COVID-19 are in unvaccinated people. (https://www.cdc.gov/coronavirus/2019ncov/variants/delta-variant.html). The CDC has stated that the greatest risk See Response to Defendants' Suggested of transmission is among unvaccinated Stipulation 5. people who are much more likely to get infected, and therefore transmit the virus. (https://www.cdc.gov/coronavirus/2019ncov/variants/delta-variant.html). 8. The CDC has stated that fully vaccinated See Response to Defendants' Suggested people get COVID-19 less often than Stipulation 5. unvaccinated (https://www.cdc.gov/coronavirus/2019ncov/variants/delta-variant.html). The CDC has stated that fully vaccinated See Response to Defendants' Suggested people with Delta variant breakthrough Stipulation 5. infections can spread the virus to others. However, vaccinated people appear to In addition, a study cited by the CDC spread the virus for a shorter period suggests that the period for infected (https://www.cdc.gov/coronavirus/2019- vaccinated people to spread the virus is 7 ncov/variants/delta-variant.html). days. The study is titled "Virological and

serological kinetics of SARS-CoV-2 Delta variant vaccine-breakthrough infections: a multi-center cohort study", published on July 31, 2021 states that "fully vaccinated patients had a faster rate of increase in Ct value over time compared with unvaccinated individuals, suggesting faster viral load decline (coefficient estimates for interaction terms ranged from 9.12 (standard error 3.75) to 12.06 (standard error 3.03); p-value <0.05 for each interaction terms) (Figure 1)." (https://www.medrxiv.org/content/10.1101/2021.07.28.21261295v1)

Moreover, according to JAMA Internal Medicine, in the original investigation paper, "COVID-19 Transmission Dynamics Among Close Contacts of Index Patients With COVID-19: A Population-Based Cohort Study in Zhejiang Province, China", published on August 23, 2021, it states that "contacts were at highest risk of COVID-19 if they were exposed between 2 days before and 3 days after the index patient's symptom onset, peaking at day 0".

(https://jamanetwork.com/journals/jamainternalmedicine/fullarticle/2783099)

This means that for the first 7 days, viral load in vaccinated patients and unvaccinated individuals remains similar with Ct<25. Therefore, during the time of most contagiousness (2 days before and 3 days after), both unvaccinated and vaccinated carry the same viral load.

10. The CDC has stated that the amount of See Response to Defendants' Suggested viral genetic material may go down faster Stipulation 9. in fully vaccinated people when compared to unvaccinated people. This means fully vaccinated people will likely spread the virus for less time than unvaccinated people.

(https://www.cdc.gov/coronavirus/2019-ncov/variants/delta-variant.html).

11.		
12.	The CDC has stated that COVID-19 vaccines approved or authorized in the United States are playing a crucial role in limiting the spread of the virus and minimizing severe symptoms of the disease. (https://www.cdc.gov/coronavirus/2019-ncov/variants/delta-variant.html).	limiting spread of the virus and minimizing severe disease". It does not mention "symptoms of the disease".
13.		
14.		
15.	Puerto Rico.	The Proposed stipulation is speculative, flawed, and contains legal conclusions that follow the narrative and compilation of the defendants' view and legal theories with their own interpretation of scientific statistical data. As stated by the Puerto Rico Health Department in their "Informe de Casos COVID-19" deaths certified for COVID-19 can be either confirmed, probable or suspicious deaths. - Confirmed COVID-19 deaths are deaths of people with one or more positive molecular tests. - Probable COVID-19 deaths include deaths of: 1) People who meet clinical criteria and epidemiological evidence as defined by the Council of State and Territorial Epidemiologists (CSTE), without confirmatory tests for COVID-19; 2) People with a positive antigens test and meeting the clinical criteria or epidemiological evidence as defined by the CSTE; and 3) Deaths that meet the criteria for vital statistics in which no evidence of confirmation for COVID-19. - Suspicious deaths from COVID-19 include deaths of people in whom it is detected a specific antibody in serum, plasma, or blood, or a specific antigen is detected by immunocytochemistry in an autopsy specimen, which were not reported as confirmed or probable COVID-19 cases. This in accordance

with the provisional recommendations of the CSTE and the "National Center for Health Statistics" of the Centers for Disease Control and Prevention (CDC). Page 5, footnote 9. (https://www.salud.gov.pr/CMS/DOWN LOAD/5167). That is why you cannot say "died of COVID-19"; "death related to COVID-19"." is the correct term.

As of October 15, 2021, there are more As of October 15, 2021 there were 16 16. pediatric than (https://www.salud.gov.pr/estadisticas v if they are "for to COVID" or "with 2#sistemas salud).

hospitalizations, pediatric hospitalizations, but it's not clear COVID" as it is unclear if they were admitted for other reasons and have no COVID symptoms. In addition, it's not clear if the case is confirmed (molecular) or probable (antigen).

> According to Hospital Pediatrics article, title ""For COVID" or "With COVID": Classification of SARS-CoV-2 Hospitalizations in Children" published in August 2021, states that "most public reporting of COVID-19 hospitalizations is based simply on detection of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) in hospitalized patients rather than the presence of a clinical syndrome. Hospitals have increasingly transitioned to universal screening for all hospitalizations to direct infection control precautions. Given the high proportion of asymptomatic or mild disease in children, pediatric SARS-CoV-2 hospitalization rates may be more reflective of community prevalence and lead to overestimation of the true burden of disease." In its discussion, the article states "Our findings reveal that most children hospitalized with SARS-CoV-2 have asymptomatic or mild or moderate disease, and nearly one-half of these hospitalizations were not caused by infection from the virus itself." It concludes by saying "reports of increased COVID-19 hospitalizations in children

17.	Testing in Puerto Rico has increased since the month of June 2021. (https://www.salud.gov.pr/estadisticas_v 2#pruebas)	does not state the amount of the increase
1.0		
18. 19.	As of August 8, 2021, at least 520 children have died in the United States due to COVID-19. (https://covid.cdc.gov/covid-data-tracker/#demographics)	
20.	,	
21.		
22.		
23. 24.	happen in only a small proportion of people who are fully vaccinated, even	We're Still Learning - How long COVID- 19 vaccines can protect people." Recent scientific studies demonstrate waning

infections of the delta variant was high during the first month after full vaccination (93%) but declined to 53% after 4 months." It interprets in the study, among other things, that "reduction in vaccine effectiveness against SARS-CoV-2 infections over time is probably primarily due to waning immunity with time rather than the delta variant escaping vaccine protection."

(https://www.thelancet.com/journals/lance t/article/PIIS0140-6736(21)02183-8/fulltext)

Moreover, according to The New England Journal of Medicine, on the research article "Waning of BNT162b2 Vaccine Protection against SARS-CoV-2 Infection in Qatar" published October 6 2021, stated in their results that the "estimated BNT162b2 effectiveness against any SARS-CoV-2 infection...reached its peak at 77.5% in the first month after the second dose. Effectiveness declined gradually thereafter, with the decline accelerating after the fourth month to reach approximately 20% in months 5 through 7 after the second dose." It concluded that "BNT162b2-induced protection against SARS-COV-2 infection appeared to wane rapidly following its peak after the second dose, but protection against hospitalization and death persisted at a robust level for 6 months after the second dose."

(https://www.nejm.org/doi/full/10.1056/N EJMoa2114114)

Another study from Israel, title "Waning immunity of the BNT162b2 vaccine: A nationwide study from Israel" published on August 30, 2021 stated that "The rates of both documented SARS-CoV-2 infections and severe COVID-19 exhibit a statistically significant increase as time from second vaccine dose elapsed." (https://www.medrxiv.org/content/10.1101

		/2021.08.24.21262423v1)
25.	Pope Francis said that "Being vaccinated	This is misleading. Pope Francis might have
	with vaccines authorized by the	said that, but that is not the Catholic Church's
	competent authorities is an act of love.	official position. In pertinent part, the Vatican's
	And contributing to ensure the majority	official position is that "practical reason makes
	of most people are vaccinated is an act of	
	love."(https://www.vaticannews.va/en/p	moral obligation and that, therefore, it must be
	ope/news/2021-08/pope-francis-appeal-	voluntary Those who, however, for
	covid-19-vaccines-act-of-love.html)	reasons of conscience, refuse vaccines
		produced with cell lines from aborted fetuses,
		must do their utmost to avoid, by other
		prophylactic means and appropriate behavior,
		becoming vehicles for the transmission of the
		infectious agent. In particular, they must avoid
		any risk to the health of those who cannot be
		vaccinated for medical or other reasons, and
		who are the most vulnerable." Congregation for the Doctrine of the Faith, <i>Note on the morality</i>
		of using
		some anti-Covid-19 vaccines (Dec. 21, 2020),
		(https://www.vatican.va/roman_curia/congregat
		ions/cfaith/documents/rc con cfaith doc 2020
		1221 nota-vaccini-anticovid en.html)
26.	The Pfizer and Moderna vaccines were	
	found to be ethically uncontroversial by	1
	the pro-life policy organization the	
	Charlotte Lozier Institute.	And some tests conducted by Pfizer and
	(https://s27589.pcdn.co/wp-	Moderna used abortion-derived cells.
	content/uploads/2020/06/An-Ethics-	(https://lozierinstitute.org/what-you-need-to-
	Assessment-of-COVID-19-Vaccine-	know-about-the-covid-19-vaccine/)
	Programs_On-Point-46.pdf)	
27.		This is misleading. The Secretariat of Pro-
		Life Activities, a committee within the
		United States Conference of Catholic
		Bishops, might have said that, but that is
		not the Catholic Church's official position.
	-	In pertinent part, the Vatican's official position is that "practical reason makes
		evident that vaccination is not, as a rule, a
	•	moral obligation and that, therefore, it must
	<u> </u>	be voluntary Those who, however, for
		reasons of conscience, refuse vaccines
	•	produced with cell lines from aborted
		fetuses, must do their utmost to avoid, by
	· ·	other prophylactic means and appropriate
	•	behavior, becoming vehicles for the
	•	·

	involve immoral cooperation in abortion (https://www.usccb.org/resources/Answ	transmission of the infectious agent. In particular, they must avoid any risk to the health of those who cannot be vaccinated for medical or other reasons, and who are the most vulnerable." Congregation for the Doctrine of the Faith, Note on the morality of using some anti-Covid-19 vaccines (Dec. 21, 2020), (https://www.vatican.va/roman_curia/congregations/cfaith/documents/rc_con_cfaith_doc_20201221_nota-vaccinianticovid_en.html)
28.	Infections happen in only a small proportion of people who are fully vaccinated, even with the Delta variant When these infections occur among vaccinated people, they tend to be mild (https://www.cdc.gov/coronavirus/2019-ncov/vaccines/fully-vaccinated.html)	The CDC may have said that, but the proposed stipulation does not indicate what it means by "small proportion."
29.		
30.		
31.		
32.		
33.		
34.		consider the significant reduction of molecular tests performed in Puerto Rico during that time. During that period, a
		Moreover, according to CDC, as of October 9, 2021, Puerto Rico, with 50,375.93 "cumulative tests performed per 100K" is second to last (ahead only of the U.S. Virgin Islands), listed #49 of 50, of U.S. jurisdictions reported. (https://covid.cdc.gov/covid-data-tracker/#cases_testsper100k)

In addition, according to the CDC, as of October 7, 2021, Puerto Rico, with 5,533.12 "# tests performed last 30 days per 100K" is fifth to last (ahead only of the U.S. Virgin Islands, Mississippi, Nebraska and Oklahoma), listed #46 of 50, of U.S. jurisdictions reported.

(https://covid.cdc.gov/covid-data-tracker/#cases testsper100k30day)

Moreover, according to the CDC, on "calculating SARS-CoV-2 laboratory test percent positivity", "[it] can vary depending on the volume of testing and the population tested. A high NAAT percent positivity occurs when many of the test results among those being tested and reported in a community are positive. This can mean the following: There are widespread infections in the community tested. Only those at greatest risk of infection within a community are being tested. There are reporting processes or delays that skew the results." (https://www.cdc.gov/coronavirus/2019ncov/lab/resources/calculating-percentpositivity.html)

The Intelligencer (The New Yorker), on a report titled "The Problem With the Positivity Rate", dated December 7, 2020, it stated "Meanwhile, the positivity rate statistic is so inconsistently calculated and reported across U.S. states that the COVID Tracking Project, one of the nation's trusted aggregators and reporters of coronavirus data and trends, doesn't publish it, says Jessica Malaty Rivera, the science communication lead with the project. An October blog post co-authored by Malaty Rivera called positivity rate figures in the U.S. "a mess" and stated that she and her team "emphatically recommend against over-reliance" on it to justify changes in policy. COVID

		Tracking Project data collectors have
		9
		noticed that states are including the results
		of less accurate, less expensive so-called
		antigen tests, which look for pieces of the
		virus, not the whole virus, instead of the
		results of widely used PCR tests for the
		entire virus, Malaty Rivera says. "For that
		reason, I feel especially pessimistic about
		the future of this calculation," Malaty
		Rivera says. "Because if we do see testing
		increase dramatically, it will be because of
		an influx in antigen testing. It really
		should just be PCR testing to determine
		this. And when we combine units, it's
		going back to basic fractions, right? You
		don't combine your apples and oranges
		when you're doing a math equation."
		(https://nymag.com/intelligencer/2020/12/t
		he-problem-with-the-covid-19-positivity-
		rate.html)
35.		iate.iitiii)
36.	The CDC has stated that at the time of	The link does not state what Defendants
50.	•	
	the enactment of Executive Orders Nos	
	2021-062 through 2021-064, Puerto Ricc	
	was in an increasing trend of more than	
	113 hospitalizations and 28 people in	1
	ICU.	
	(https://www.salud.gov.pr/estadisticas_v	
	2#sistemas_salud)	
37.	The CDC has stated that VAERS data	This is misleading. The CDC may have
	alone cannot determine if the reported	stated that, but the U.S. Department of
	adverse event was caused by a COVID-	-Health & Human Services (HHS) says that
	vaccination vaccination	"healthcare providers are required by law
	(https://www.cdc.gov/coronavirus/2019-	to report to VAERS any adverse event
	ncov/vaccines/facts.html)	listed in the VAERS Table of Reportable
		Events Following Vaccination that occurs
		within the specified time period after
		vaccinations."
		In addition, it says that "vaccine
		manufacturers are required to report to
		VAERS all adverse events that come to
		their attention. Online reporting is strongly
		encouraged." Moreover, it states that
		"knowingly filing a false VAERS report is
1		a violation of Federal law (18 U.S. Code §

	1	1001) pypichahla by fina and
		1001) punishable by fine and
		imprisonment."
2.0	TI CDC 1	(https://vaers.hhs.gov/reportevent.html)
38.	The CDC has stated that anyone can	
	report events to VAERS, even if it is not	
	clear whether a vaccine caused the	
	problem.	
	(https://www.cdc.gov/coronavirus/2019-	
	ncov/vaccines/facts.html)	
39.	The CDC has stated that some VAERS	-
	reports may contain information that is	=
	incomplete, inaccurate, coincidental, or	
	unverifiable.	
	(https://www.cdc.gov/coronavirus/2019-	
	ncov/vaccines/facts.html)	
40.	The CDC has stated that recently, the	See Response to Defendants' Suggested
	number of deaths reported to VAERS	Stipulation 37.
	following COVID-19 vaccination has	
	been misinterpreted and misreported as it	
	this number means deaths that were	
	proven to be caused by vaccination	
	Reports of adverse events to VAERS	
	following vaccination, including deaths.	
	do not necessarily mean that a vaccine	
	caused a health problem	
	(https://www.cdc.gov/coronavirus/2019-	
	ncov/vaccines/facts.html)	
41.	,	
42.		
43.		
44.		
45.	The CDC has stated that COVID-19	This is misleading. The CDC may have
	vaccination is an important tool to help	
	_	more recent studies by the CDC and others
	1 1	have demonstrated that due to the fact that
	ncov/vaccines/effectiveness.html)	vaccine does not prevent transmission and
	ines vi vacemesi errecti venesis.nami)	the vaccine provides waning immunity, it
		is most likely that the virus will remain as
		an endemic disease.
		an enderme disease.
		In an article by The Guardian, "Delta
		=
		variant renders herd immunity from Covid
		'mythical,'" reported on August 10, 2021,
		it said about Sir Andrew Pollard, Head of
		Oxford Vaccine Group, "giving evidence
		to MPs on Tuesday, Prof Sir Andrew

Pollard said the fact that vaccines did not stop the spread of Covid meant reaching the threshold for overall immunity in the population was "mythical".

"The problem with this virus is [it is] not measles. If 95% of people were vaccinated against measles, the virus cannot transmit in the population," he told the all-party parliamentary group (APPG) on coronavirus.

"The Delta variant will still infect people who have been vaccinated. And that does mean that anyone who's still unvaccinated at some point will meet the virus ... and we don't have anything that will [completely] stop that transmission."

Although the existing vaccines are very effective at preventing serious Covid illness and death, they do not stop a fully vaccinated person from being infected by the virus that causes Covid-19."

(https://www.theguardian.com/world/2021/aug/10/delta-variant-renders-herd-immunity-from-covid-mythical)

Moreover, Dr. Yonatan Grad from the T.H. Chan School of Pubic Health said "the expectation that COVID-19 will become endemic essentially means that the pandemic will not end with the virus disappearing; instead, the optimistic view is that enough people will gain immune protection from vaccination and from natural infection such that there will be less transmission and much less COVID-19-related hospitalization and death, even as the virus continues to circulate."

(https://www.hsph.harvard.edu/news/features/what-will-it-be-like-when-covid-19-becomes-endemic/)

46.

47. The CDC has stated that to receive the This is misleading. The CDC may have most protection, people should receive all said that in a statement in the past, but it is

recommended doses of a COVID-19 not taking into account the protection vaccine.

ncov/vaccines/effectiveness.html)

provided by natural immunity on (https://www.cdc.gov/coronavirus/2019-unvaccinated people. Multiple recent scientific studies have demonstrated that individuals who have been infected and acquire natural immunity have stronger protection that fully vaccinated people, regardless of time since vaccination, which also last longer.

> According to the article title "Comparing SARS-CoV-2 natural immunity to vaccine-induced immunity: reinfections versus breakthrough infections", published on August 25, 2021, it states that "SARS-CoV-2-naïve vaccinees had a 13.06-fold increased risk for breakthrough infection with the Delta variant compared to those previously infected". It concluded that the study "demonstrated that natural immunity confers longer lasting and stronger protection against infection, symptomatic disease and hospitalization caused by the Delta variant of SARS-CoV-2, compared to the BNT162b2 two-dose vaccineinduced immunity."

> (https://www.medrxiv.org/content/10.1101 /2021.08.24.21262415v1)

> Also, the European Journal of Immunology, the research article title "Persistence of neutralizing antibodies a year after SARS-CoV-2 infection in humans" published September 27, 2021, natural immunity could last at least 13 months, "the proportion of subjects with neutralizing antibodies (NAb) were assessed. We found that NAb against the wild-type virus persisted in 89% and S-IgG in 97% of subjects for at least 13 months after infection. Subjects with severe infection had markedly higher IgG and NAb levels and are expected to remain seropositive for longer." (https://onlinelibrary.wiley.com/doi/abs/10 1002/eji.202149535)

48.		
49.		
50.	The CDC has stated that getting vaccinated is the best way to slow the spread of COVID-19 and to prevent infection by Delta or other variants. (https://www.cdc.gov/coronavirus/2019-ncov/vaccines/effectiveness/why-measure-effectiveness/breakthrough-cases.html)	Stipulation 47.
51.	,	
52.	The CDC has stated that the risk of infection remains much higher for unvaccinated than vaccinated people. (https://www.cdc.gov/coronavirus/2019-ncov/vaccines/effectiveness/why-measure-effectiveness/breakthrough-cases.html)	Stipulation 5.
53.	The CDC has stated that studies so far show that vaccinated people are 8 times less likely to be infected and 25 times less likely to experience hospitalization or death. (https://www.cdc.gov/coronavirus/2019-ncov/vaccines/effectiveness/why-measure-effectiveness/breakthrough-cases.html)	Stipulation 5.
54.		
55.		
57.		
58.		
59.	complete data on vaccine breakthrough in the general population. (https://www.cdc.gov/coronavirus/2019-	States. Other countries like England
60.	vaccines in preventing hospitalization	This is misleading. The CDC published the "Effectiveness of COVID-19 Vaccines in Preventing Hospitalization Among Adults Aged ≥65 Years — COVID-NET,

		0/wr/mm7032e3.htm?s_cid=mm7032e3	August 13, 2021 covering 13 states during
		Lw)	pre-Delta variant period, February to April
			2021.
	51.		
Ć	62.	A study from Umeå University in	Plaintiffs could not identify the alleged
		Sweden found that people without	facts from the provided study. The study,
		immunity were at a significantly reduced	however, stated that "family members
		risk of being infected if family members	without immunity had a 45% to 97%
		were vaccinated or had experienced a	lower risk of contracting COVID-19 as the
		previous coronavirus infection.	number of immune family members
		(https://jamanetwork.com/journals/jamai	increased."
		nternalmedicine/fullarticle/2785141)	
Ć	53	A study published in the journal The	The Proposed stipulation is speculative,
			flawed, and contains legal conclusions that
		were naturally infected early in the	follow the narrative and compilation of
		pandemic are increasingly likely to	Plaintiffs' view and legal theories with
		become reinfected in the near future.	their own interpretation of scientific
		(https://www.eurekalert.org/releaseguide	statistical data.
		lines)	
			See Response to Defendants' Suggested
			Stipulation 47.

LIST OF FACT WITNESSES, EXPERT WITNESSES AND DOCUMENTS <u>PLAINTIFFS</u> INTEND TO INTRODUCE AT A PRELIMINARY INJUNCTION HEARING

Witnesess

- 1. All Plaintiffs: They will testify about the facts included in the complaint.
- 2. Juan Carlos Fenollal: He will testify about the burdens he has faced to obtain a COVID test, and the hardships and undue burdens of living with the vaccine mandates.
- 3. Viviana Santos Perez: She will testify about the burdens he has faced to obtain a COVID test, and the hardships and undue burdens of living with the vaccine mandates.
- 4. Cynthia Avellanet: She will testify about the burdens she has faced to obtain a COVID test, and the hardships and undue burdens of living with the vaccine mandates.
- 5. Ofelia Otero: She will testify about her Covid-19 natural immunity status, the adverse effect of the Covid-19 vaccine because of her high antibody levels, and the hardships and undue burdens of living with the vaccine mandates.

- 6. A representative from the Auxiliar Secretary for the Regulation and Accreditation of Health Facilities, and/or other representative for the P.R. Health Department who will testify about,
 - a. The process of reporting bed and ICU availability
 - b. Process for Conducting COVID-19 tests in laboratories including CT Values.
 - c. Reasons why a medical referral is needed to obtain a CPVID test in a private laboratory.
 - d. The total number of COVID tests that can be performed in Puerto Rico in a day.
 - e. The total capacity of COVID testing in Puerto Rico and how the capacity is defined.
 - f. How federal funds received by the Department of Heath for managing COVID-19 have been spent during the pandemic.
 - g. Reasons why a medical referral is necessary for insurance companies to cover the costs of COVID tests.
 - h. The existence *vel non* of Health Department policies regarding reporting of Ct values in COVID rtPCR tests for private and public COVID tests.
 - i. The reasons why the Health Department experienced a supply shortage of COVID-19 tests.
 - j. Statistics of people who have had COVID-19 but have not been vaccinated.
 - k. Patient profiles of hospitals admissions, hospitalizations, and deaths due to COVID.
 - 1. How the Department of Health has censored physicians who argue against the measures taken by the Government regarding COVID.
 - m. Any other information within their expertise that may be pertinent to the case.
- 7. The plaintiffs may also call as a witness any person needed to authenticate documents.

Experts

- 1. Dr. Joel Hay: He will generally testify about COVID-related statistics. In essence, Dr. Hay will compare the Puerto Rico COVID situation with the COVID situation in other jurisdictions. He will also testify that, based on previous patterns, the so-called Delta Spike is over, and that the government overreacted thereto. Finally, Dr. Hay will testify about all the statistics and data mentioned in Plaintiffs' filings, including the amended complaint and the preliminary injunction motion.
- 2. Dr. Andrew Bostom: He will testify about potential adverse effects of COVID-19 vaccines; about the spread of COVID between vaccinated and unvaccinated people; about natural immunity from having had COVID; about why randomized tests need to be performed to properly measure the efficacy of a vaccine within a population; and about the proper threshold cycle (Ct) for performing COVID tests. Finally, Dr. Bostom will testify about all the COVID scientific studies and data mentioned in Plaintiffs' filings, including the amended complaint and the preliminary injunction motion.

- 3. Dr. Mark McDonald: He will testify about the psychological effects or damages of segregating the population among the vaccinated and unvaccinated. He will also testify about the stigma and other psychological harm inflected by the vaccine mandates at play.
- 4. Dr. Maria Carrascal Muñoz: She will testify about natural immunity, the potential adverse effects of the Covid-19 vaccines, and why the mandates do not correctly take natural immunity into account.

Documentary Evidence

- 1. Documents included and referenced in the amended complaint, the preliminaryinjunction motion, the stipulations and proposed stipulations included herein, and related filings.
- 2. Photographs showing the burdens that people endure to obtain free Covid tests.
- 3. The plaintiffs reserve the right to supplement these disclosures in consideration of new developments and of the evidence that the defendants disclose and otherwise present at the hearing.

LIST OF DEFENDANTS

Expert witnesses

- 1. Dr. Melissa Marzán, Chief Epidemiology Officer of the Department of Health of Puerto Rico, will testify as an expert in epidemiology for the purpose of expressing her opinions about some of the allegations in the complaint regarding covid-19 health statistics in Puerto Rico and the fallacies in the conclusions and inferences plaintiffs draw from such statistics in support of their pleadings. she will also testify about the process of compiling information for official covid-19 statistics, and the reliability of the information, and the measures adopted by the government to stop or slow the spread of the virus.
- 2. Dr. Iris Cardona, Chief Medical Officer of The Department of Health of Puerto Rico, will testify as a representative of the department and as a member of the scientific coalition advising the governor of Puerto Rico on covid-19 policy. She will testify about the nature and characteristics of covid, its history, the vaccine developed to attack the virus, and the measures adopted by the government to stop or slow the spread of the virus.
- 3. Dr. Rafael Irizarry, Professor of the Biostatistics Department of Harvard University, Data Science Chair of Dana Farber Cancer Institute, and member of the scientific coalition advising the governor of Puerto Rico on COVID-19 policy. He will testify regarding the scientific data considered to advise the Governor on the public policy regarding COVID-19, and other relevant areas.

Documentary Evidence

- 1. SARS-CoV-2 Variants in PR, March-September 1, 2021.
- 2. FDA Vaccine Facts.
- 3. Covid-19 Confirmed and Probable Cases, and Vaccination status.
- 4. Covid-19 Hospitalizations and Vaccination Status, Puerto Rico.
- 5. Deaths per 100,000 habitants and vaccination status.
- 6. Curriculum vitae Dr. Iris Cardona.
- 7. Curriculum vitae Dr. Melissa Marzán.
- 8. Curriculum vitae Dr. Rafael Irizarry.
- 9. CDC-Vaccination offers strong protection against Covid-19. From CDC web page.
- 10. Growth rate (confirmed and probable cases) graphic: 7/1-9/25/2021.

Distribution of cases (confirmed and probable) graphic: 7/1-9/25/2021.

Dated: October 22, 2021 Respectfully Submitted

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Deputy Secretary in Charge of Litigation

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Counsel for Defendants

Appendix 1

DC Data as of: October 8, 2021 6:00am ET. Posted: Friday, October 8, 2021 3:26 PM ET					
State/Territory/Federal Entity	Total Doses Administered by State where Administered ‡	Doses Administered per 100k by State where Administered \$	18+ Doses Administered by State where Administered \$	18+ Doses Administered per 100K by State whe Administered ‡	
Republic of Palau	31,298	174,781	28,709	205,844	
Puerto Rico	4,764,407	149,182	4,388,289	167,430	
Vermont	917,788	147,084	856,780	168,001	
Guam	239,440	144,443	214,687	166,277	
Massachusetts	9,954,959	144,432	9,233,058	166,671	
Connecticut	5,138,344	144,121	4,749,594	167,366	
District of Columbia	1,016,129	143,979	976,817	169,122	
Rhode Island	1,489,433	140,597	1,389,982	162,596	
Maine	1,852,926	137,845	1,740,557	158,901	
New York State	26,331,713	135,357	24,646,165	159,778	
New Mexico	2,829,941	134,963	2,615,399	161,346	
Hawaii	1,906,531	134,654	1,784,337	159,886	
Maryland	8,116,338	134,250	7,493,436	159,063	
New Jersey	11,733,172	132,098	10,872,832	156,588	
New Hampshire	1,783,818	131,191	1,665,840	150,829	
California	51,583,481	130,551	47,607,867	155,492	
Virginia	11,097,362	130,014	10,247,378	153,526	
Pennsylvania	16,551,120	129,286	15,557,236	153,011	
Washington	9,798,601	128,677	9,132,370	153,438	
Florida	27,311,365	127,161	25,800,009	149,584	
Colorado	7,310,621	126,948	6,782,932	150,758	
Delaware	1,234,411	126,767	1,153,803	149,807	
Oregon	5,338,905	126,582	4,983,466	148,708	
Northern Mariana Islands	70,721	124,329	62,092	140,150	
Illinois	15,587,972	123,013	14,427,880	146,417	
Minnesota	6,802,645	120,622	6,302,166	145,329	
Wisconsin	6,936,268	119,130	6,508,057	142,851	
Arizona	8,370,474	114,999	7,799,318	138,323	
Nebraska	2,216,436	114.580	2.062.139	141,404	
Texas	32,939,626	113,601	30,246,541	140,056	
American Samoa	63,123	113,349	52,479	120,989	
Kentucky	5,053,351	113,109	4,752,729	137,172	
Nevada	3,464,385	112,474	3,245,201	135,924	
lowa	3,525,042	111,726	3,305,878	136,144	
North Carolina	11,640,273	110,986	10,897,706	133,104	
Alaska	810,238	110,757	751,795	136,303	
South Dakota	975,953	110,320	913,750	136,879	
Utah	3,504,509	109,312	3,172,436	139,462	
Michigan	10,837,674	108,519	10,206,715	130,139	
Kansas	3,149,155	108,095	2,936,538	132,691	
Oklahoma	4.247.608	107.345	3.983.914	132,588	
Ohio	12.336.137	105,535	11,632,216	127,671	
Missouri	6,440,676	104,941	6,059,249	127,112	
South Carolina	5,394,101	104,766	5,096,161	126,220	
Montana Montana	1,115,986	104,417	1,054,454	125,502	
Tennessee	7,049,724	103,230	6,693,942	125,847	
Indiana	6,889,662	102,339	6,480,661	125,491	
Georgia	10,855,933	102,246	10,179,204	125,459	
Arkansas	3,085,323	102,246	2,875,426	124,067	
North Dakota	762,221	100,021	720,978	123,903	
Virgin Islands	104,538 4,623,927	99,864 99,465	99,522	122,063 122,910	
Louisiana Mississippi		99,465	4,377,010		
Mississippi	2,840,936		2,674,30B	117,420	
Alabama	4,624,892	94,324	4,385,764	114,965	
Wyoming	534,368	92,330	506,586	113,833	
ldaho.	1,608,784	90,024	1,607,599	120,072	
West Virginia	1,567,789	87,481	1,494,241	104,304	
Indian Health Svc	1,667,794	80,074	1,526,540	N/A	
Federated States of Micronesia	73,545	70,960	72,349	89,623	
Marshall Islands	40,936	70,080	40,810	89,698	
Bureau of Prisons	231,428	N/A	231,426	N/A	
Dept of Defense	5,757,605	N/A	5,463,526	N/A	
Veterans Health	5,772,451	N/A	5,769,485	N/A	

CDC, COVID-19 Vaccinations in the United States (View: Total Doses, Show: Administered, Metric: Rate per 100,000, Population: Total Population), *Data Table for COVID-19 Vaccinations in the United States*, https://covid.cdc.gov/covid-data-tracker/#vaccinations-vacc-total-admin-rate-total

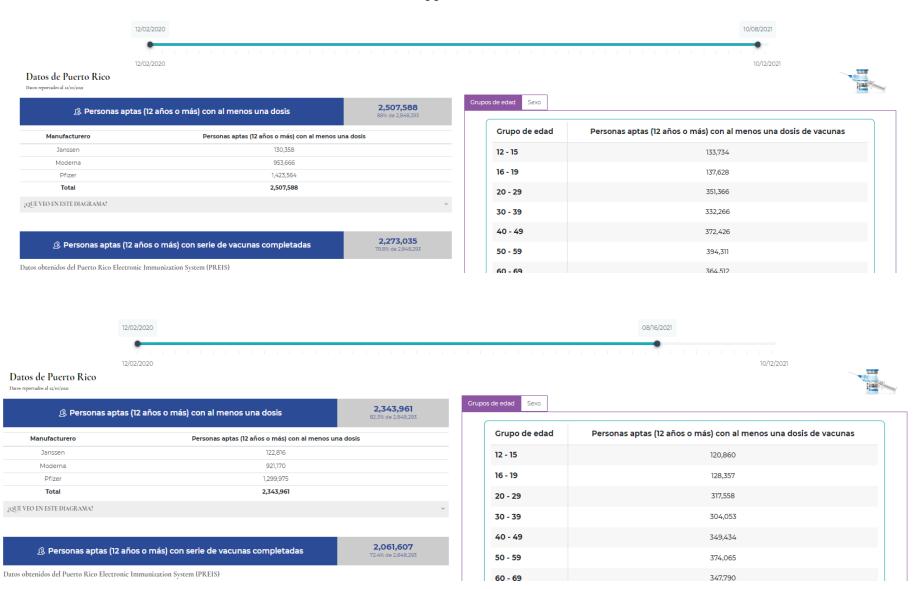
Appendix 2

DC Data as of: October 8, 2021 6:00am ET. Posted: Friday, October 8, 2021 3:26 PM ET						
tate/Territory/Federal Entity	People Fully Vaccinated by State of Residence \$	Percent of Total Pop Fully Vaccinated by State of Residence \$	People 18+ Fully Vaccinated by State of Residence \$	Percent of 18+ Pop Fully Vaccinated by State Residence \$		
epublic of Palau	15,561	86.9	14,308	99.9		
uerto Rico	2,282,713	71.5	2,107,589	80.4		
ermont	437,363	70.1	408,691	80.1		
uam	115,699	69.8	104,442	80.9		
onnecticut	2,472,337	69.3	2,295,271	80.9		
hode Island	732,505	69.1	684,922	80.1		
laine	927,554	69	875,184	79.9		
lassachusetts	4,714,276	68.4	4,382,206	79.1		
ew Jersey	5,769,707	65	5,368,254	77.3		
laryland	3,912,884	64.7	3,625,332	77		
ew York State	12,541,761	64.5	11,761,155	76.2		
ew Mexico	1,334,938	63.7	1,233,518	76.1		
ew Hampshire	842,004	61.9	793,554	71.9		
ashington	4,709,138	61.8	4,401,293	73.9		
regon	2,593,020	61.5	2,428,368	72.5		
rginia	5,231,142 428,769	61.3 60.8	4,842,821	72.6		
istrict of Columbia	428,769 34,341		411,203	71.2 68.1		
orthern Mariana Islands		60.4 60	30,172 3,209,990			
olorado alifornia	3,455,928	59.7	3,209,990 21,791,531	71.3		
innesota	23,572,618	58.6	3,069,463	71.2 70.8		
	3,307,486 7,497,640	58.6	7.075.314	69.6		
ennsylvania awaii	7,497,640 828,407	58.5	7,075,314 780,353	69.9		
awaii elaware	568,699	58.5	780,353 534,174	69.4		
elaware orida		58.1		68.6		
lorida /isconsin	12,485,973 3,322,774	57.1	11,823,870 3,126,415	68.6		
ebraska	1,067,098	55.2	995.059	68.2		
eoraska		55.2				
linois	1,717,770 6.857.894	54.1	1,616,283 6,375,423	66.6 64.7		
entucky	2,377,246	53.2	2.243,366	64.7		
merican Samoa	29,163	52.4	24,415	56.3		
nierican samoa lichigan	5,230,448	52.4	4,938,358	63		
outh Dakota	461,422	52.2	435,092	65.2		
exas	15,035,159	51.9	13,847,285	64.1		
ansas	1,507,919	51.8	1,409,958	63.7		
rizona	3,762,179	51.7	3,510,419	62.3		
tah	1,656,346	51.7	1,508,267	66.3		
evada	1,582,597	51.4	1,490,302	62.4		
laska	373,950	51.1	347,596	63		
orth Carolina	5,348,651	51	5,023,410	61.4		
hio	5,937,051	50.8	5,611,090	61.6		
ontána	523,509	49	496,355	59.1		
diana	3,292,596	48.9	3,106,600	60.2		
lissouri	2,978,294	48.5	2,809,254	58.9		
klahoma	1,911,983	48.3	1,795,280	59.7		
outh Carolina	2,478,549	48.1	2,344,824	58.1		
rkansas	1,395,671	46.2	1,304,156	56.3		
eorgia	4,902,669	46.2	4,616,249	56.9		
ennessee	3,155,230	46.2	3,002,019	56.4		
ouisiana	2,141,368	46.1	2,033,657	57.1		
irgin Islands	47,498	45.4	45,282	55.5		
orth Dakota	341,319	44.8	324,094	55.7		
lississippi	1,314,997	44.2	1,241,388	54.5		
abama	2,126,766	43.4	2,025,049	53.1		
aho	755,435	42.3	753,913	56.3		
yoming	244,957	42.3	232,967	52.3		
est Virginia	728,103	40.6	696,822	48.6		
derated States of Micronesia	39,164	37.8	38,627	47.8		
dian Health Svc	756,264	36.3	693,580	N/A		
arshall Islands	20,024	34.3	19,983	43.9		
ureau of Prisons	118,196	N/A	118,195	N/A		
ept of Defense	2,391,171	N/A	2,266,343	N/A		
eterans Health	2,838,825	N/A	2,837,513	N/A		

CDC, COVID-19 Vaccinations in the United States (View: People, Show: Fully Vaccinated, Metric: % of the Population, Population: Total Population), Data Table for COVID-19 Vaccinations in the United States | Percent of Total Pop Fully Vaccinated by State of Residence, https://covid.cdc.gov/covid-data-tracker/#vaccinations-vacc-people-fully-percent-total.

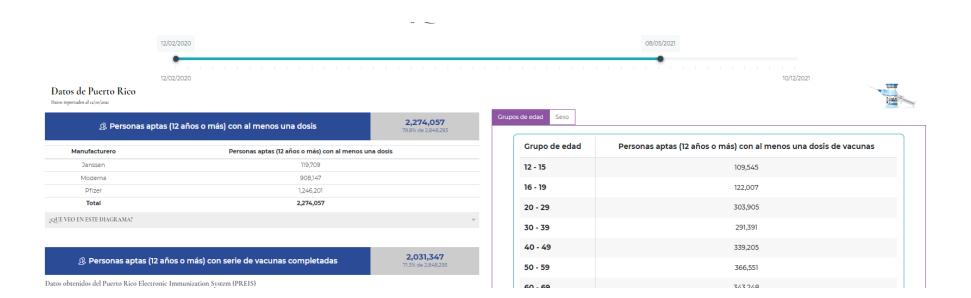
Case 3:21-cv-01411-RAM Document 51-1 Filed 10/22/21 Page 3 of 51

Appendix 3A



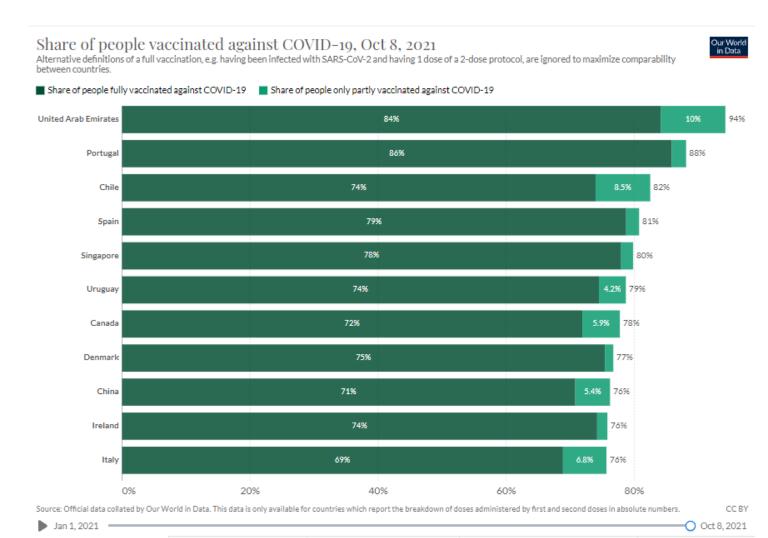
Puerto Rico Health Department COVID-19 Dashboard, Vacunacion, https://covid19datos.salud.gov.pr/#vacunacion

Appendix 3B



Puerto Rico Health Department COVID-19 Dashboard, Vacunacion, https://covid19datos.salud.gov.pr/#vacunacion

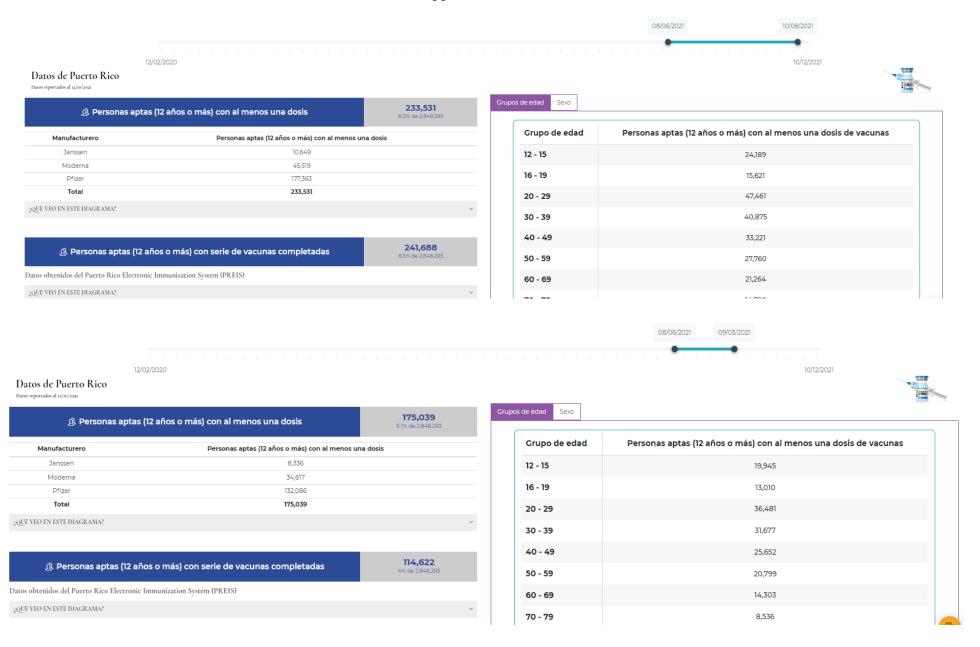
Appendix 4



Our World in Data, Coronavirus (COVID-19) Vaccinations, (Metric: People vaccinated (by dose)), *Share of People Vaccinated Against Covid-19*, *October 8*, 2021, https://ourworldindata.org/covid-vaccinations

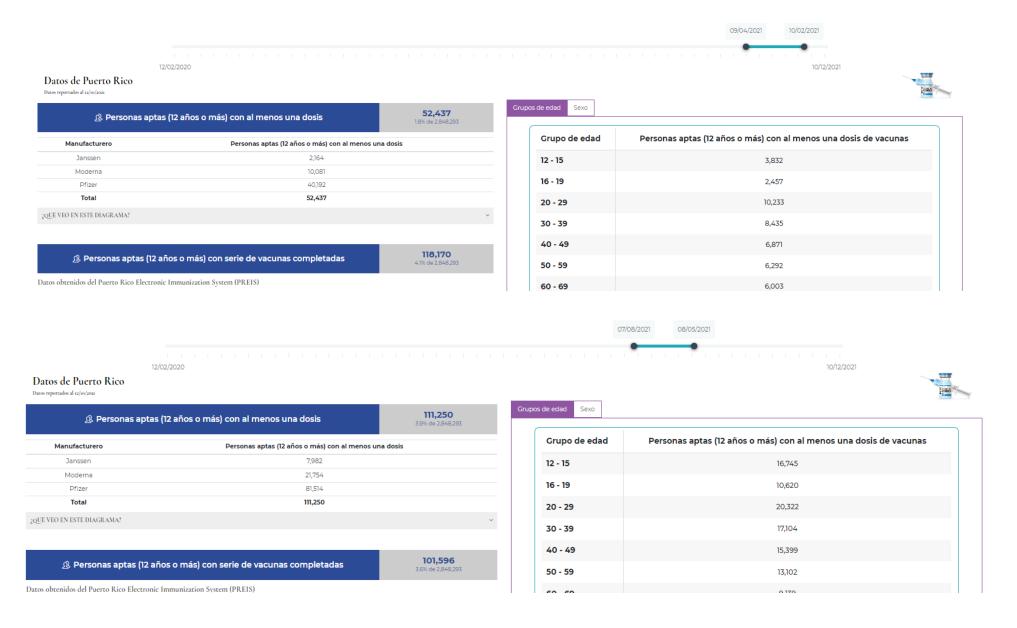
Case 3:21-cv-01411-RAM Document 51-1 Filed 10/22/21 Page 6 of 51

Appendix 5A



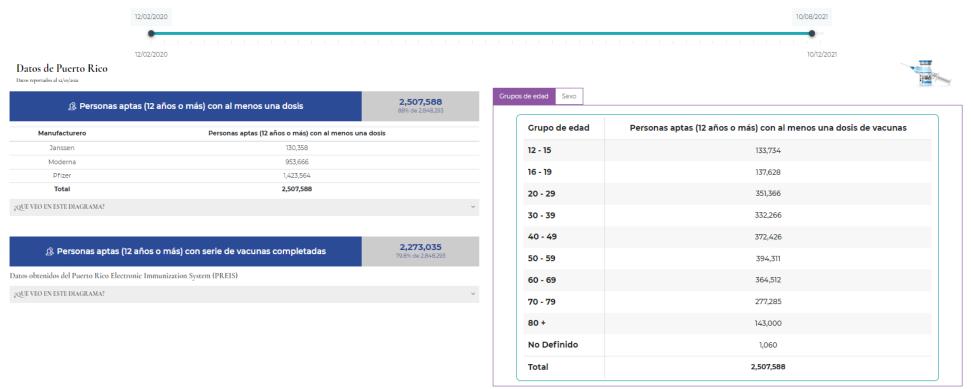
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Appendix 5B



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Appendix 6



Datos obtenidos del Puerto Rico Electronic Immunization System (PREIS)

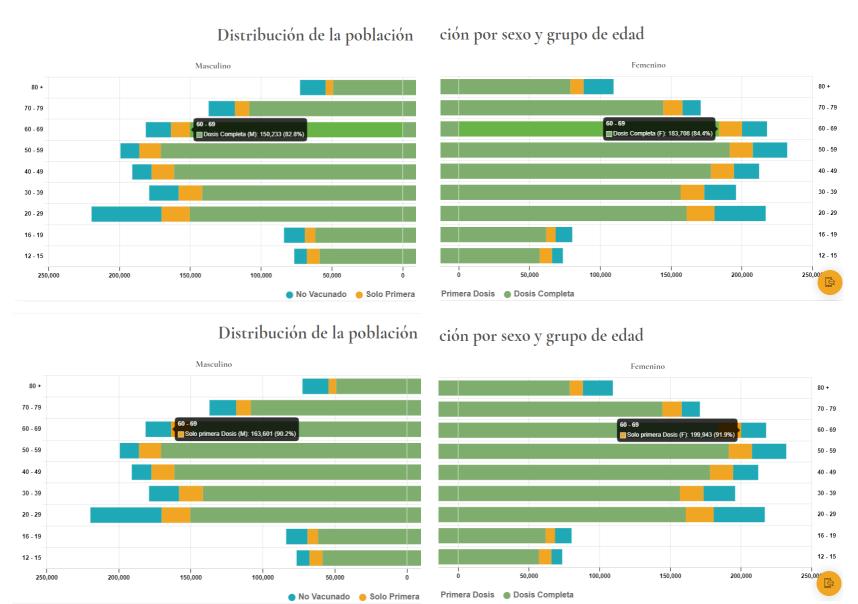
Appendix 7A



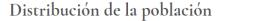
Puerto Rico Health Department COVID-19 Dashboard, Vacunacion, https://covid19datos.salud.gov.pr/#vacunacion

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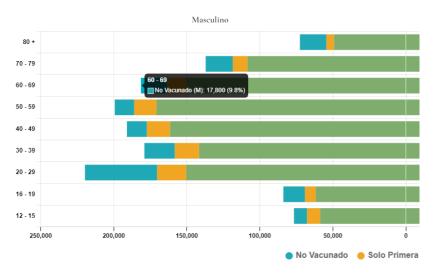
Appendix 7B

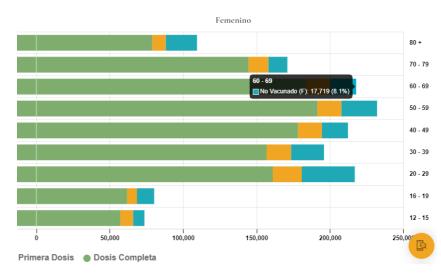


Appendix 7C



ción por sexo y grupo de edad





80 +

70 - 79

20 - 29

16 - 19

12 - 15

250,00

Distribución de la población

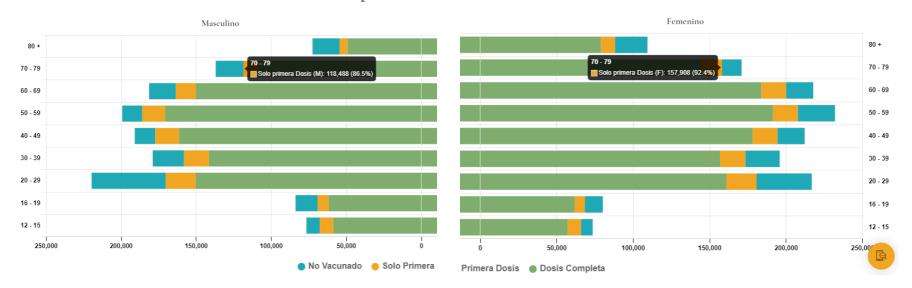
ción por sexo y grupo de edad



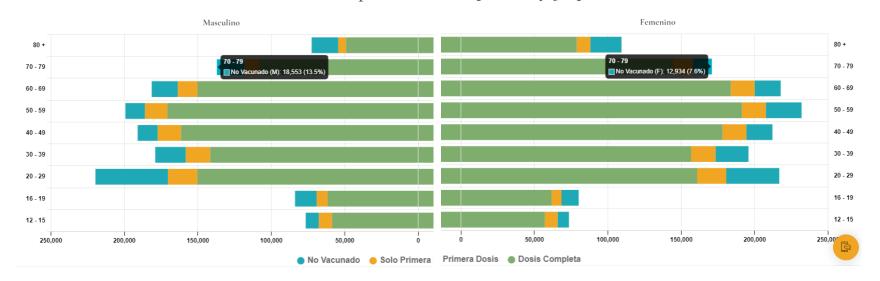
Case 3:21-cv-01411-RAM Document 51-1 Filed 10/22/21 Page 12 of 51

Appendix 7D

Distribución de la población ción por sexo y grupo de edad

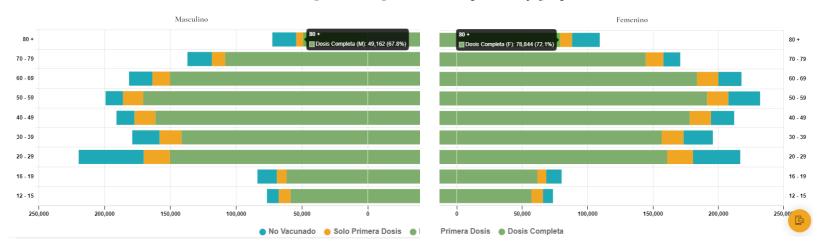


Distribución de la población ción por sexo y grupo de edad

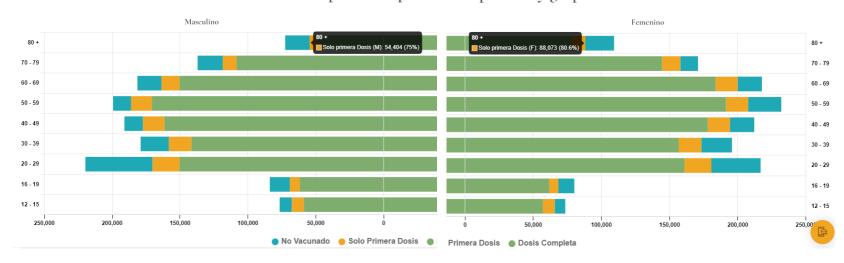


Appendix 7E

Distribución de la población por se ción por sexo y grupo de edad

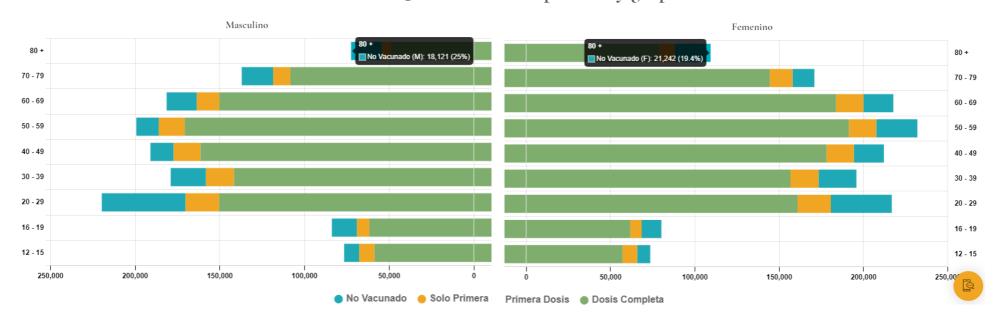


Distribución de la población por se ción por sexo y grupo de edad



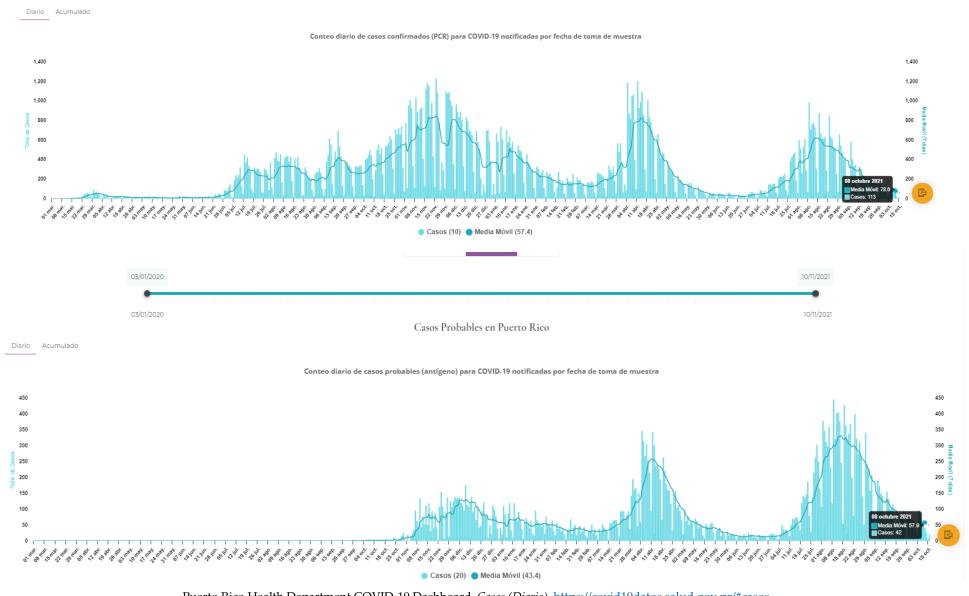
Appendix 7F

Distribución de la población ción por sexo y grupo de edad



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Appendix 8A



Puerto Rico Health Department COVID-19 Dashboard, Casos (Diario), https://covid19datos.salud.gov.pr/#casos

Appendix 8B



Actualizado el 10/08/2021

Datos de los Sistemas de Salud relacionados al COVID-19



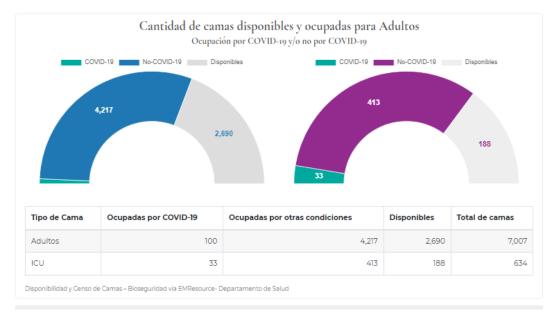




Sistemas de Salud en Puerto Ricc

Hospitalizaciones en Puerto Rico por COVID-1

Hoy Histórico



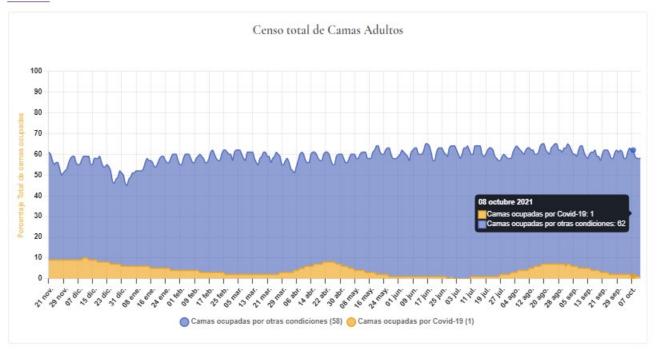


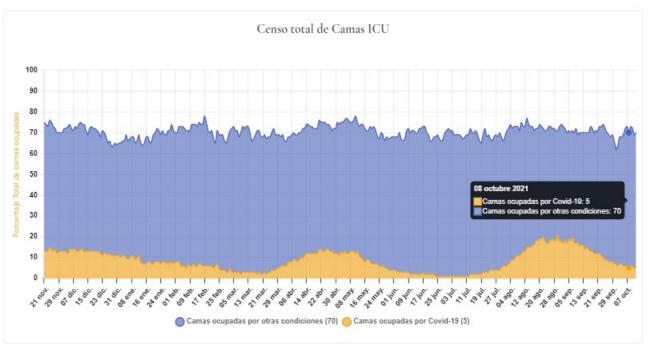
Puerto Rico Health Department COVID-19 Dashboard, Sistema de Salud (Hoy), https://covid19datos.salud.gov.pr/#sistemas_salud

Appendix 8C

Hoy Histórico

Adultos

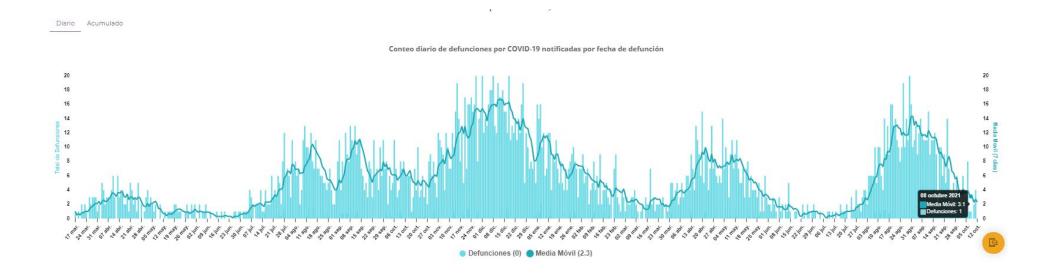




Puerto Rico Health Department Covid-19 Dashboard, *Sistema de Salud (Historico)*, https://covid19datos.salud.gov.pr/#sistemas_salud

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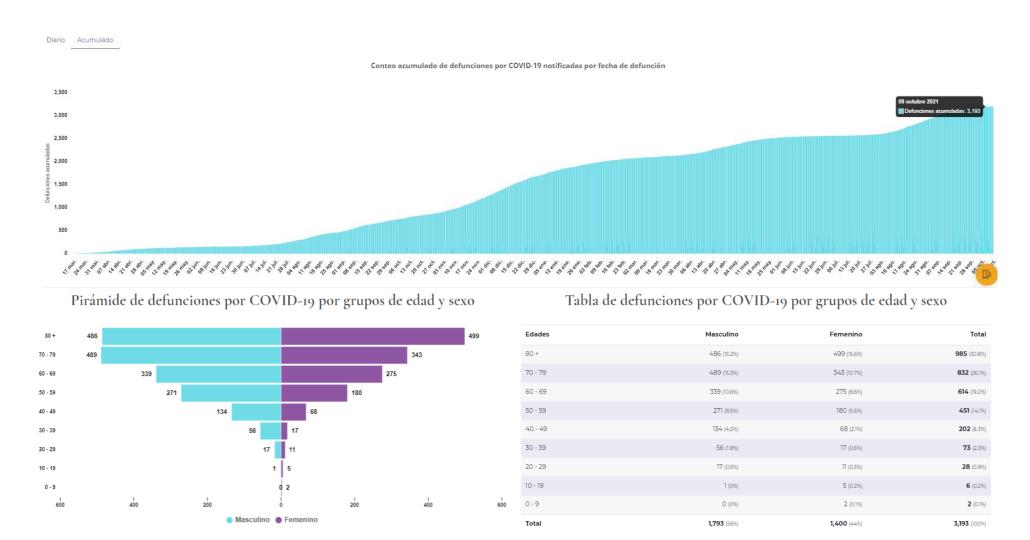
Appendix 8D



Puerto Rico Health Department COVID-19 Dashboard, Defunciones (Diario), https://covid19datos.salud.gov.pr/#defunciones

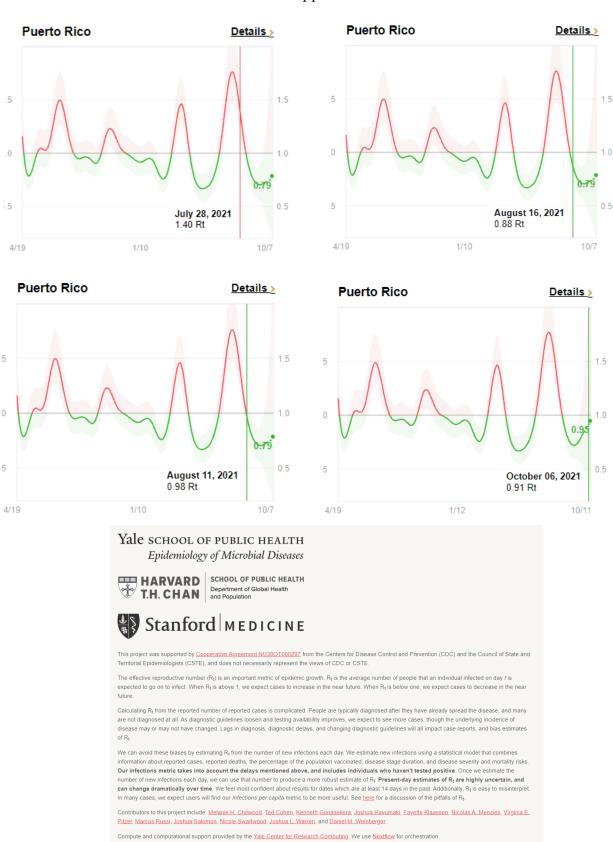
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Appendix 9



Puerto Rico Health Department COVID-19 Dashboard, Defunciones (Acumuladas), https://covid19datos.salud.gov.pr/#defunciones

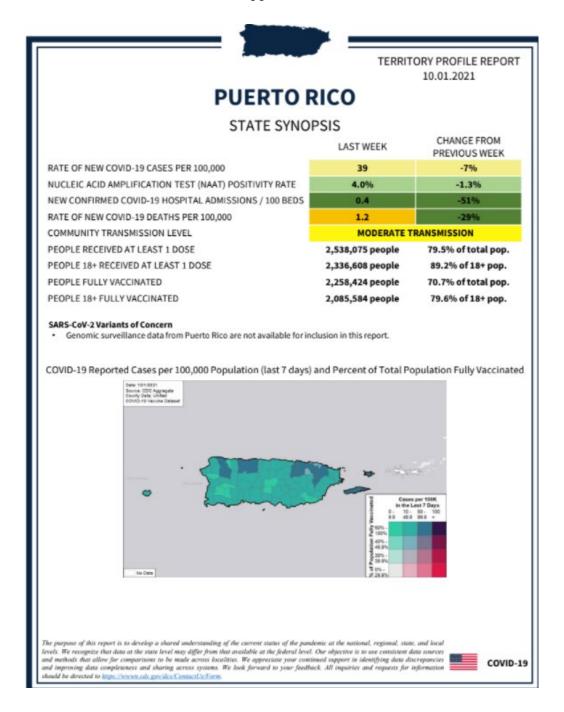
Appendix 10



Original site built by Mike Krieger, with thanks to Ryan O'Rourke and Thomas Dimson.

Visualizations built using $\underline{\text{d3}}$ and $\underline{\text{react-vis}};$ site built using $\underline{\text{Next.js}}.$

Appendix 11A



HealthData.gov, COVID-19 State Profile Report - Puerto Rico (October 1, 2021), https://healthdata.gov/Community/COVID-19-State-Profile-Report-Puerto-Rico/dfc5-i6nj

Appendix 11B



PUERTO RICO

TERRITORY PROFILE REPORT | 10.01.2021

	STATE	STATE, % CHANGE FROM PREVIOUS WEEK	FEMA/HHS REGION	UNITED STATES
NEW COVID-19 CASES (RATE PER 100,000)	1,257 (39)	-7%	49,051 (155)	732,548 (221)
NUCLEIC ACID AMPLIFICATION TEST (NAAT) POSITIVITY RATE	4.0%	-1.3%*	3.5%	6.4%
TOTAL NAAT VOLUME (TESTS PER 100,000)	38,604** (1,209**)	-14%**	1,416,868** (4,479**)	11,264,018** (3,393**)
NEW COVID-19 DEATHS (RATE PER 100,000)	37 (1.2)	-29%	477 (1.5)	10,423 (3.1)
CONFIRMED AND SUSPECTED NEW COVID-19 HOSPITAL ADMISSIONS (RATE PER 100 BEDS)	141 (1.7)	-33% (-33%)	4,732 (6.4)	93,036 (13.3)
CONFIRMED NEW COVID-19 HOSPITAL ADMISSIONS (RATE PER 100 BEDS)	37 (0.4)	-51% (-51%)	2,809 (3.8)	56,805 (8.1)
NUMBER OF HOSPITALS WITH SUPPLY SHORTAGES (PERCENT)	8 (14%)	+0%	14 (5%)	288 (5%)
NUMBER OF HOSPITALS WITH STAFF SHORTAGES (PERCENT)	5 (9%)	-17%	25 (8%)	955 (18%)
PEOPLE 12+ INITIATING VACCINATION (PERCENT OF POPULATION)	20,679 (0.7%)	-14.7%	235,724 (0.9%)	1,735,294 (0.6%)
PEOPLE 12-17 INITIATING VACCINATION (PERCENT OF POPULATION)	1,678 (0.7%)	-24.2%	21,729 (1.0%)	174,338 (0.7%)
PEOPLE 18+ INITIATING VACCINATION (PERCENT OF POPULATION)	19,001 (0.7%)	-13.7%	213,995 (0.9%)	1,560,956 (0.6%)

ndicates absolute change in percentage points.

Note: Some dates may have incomplete data due to delays in reporting. Data may be backfilled over time, resulting in week-to-week changes.

Cases and Deaths: State values are aggregated data provided by the states to the COC. Historical reports of cases and deaths exceeding 1% of the total new cases or deaths reported in the US that day have been excluded. Data are through 9/30/2021; previous week is from 9/17 to 9/23.

Testing: CELR (COVID-19 Electronic Lab Reporting) state health department-reported data. The term Nucleic Acid Amplification Test (NAAT) includes RT-PCR and other testing methods. Test positivity through 9/28/2021; previous week is from 9/15 to 9/21. Test volume through 9/24/2021; previous week is from 9/11 to 9/17.

Admissions: Unified Hospitals Dataset in HHS Protect. Data are through 9/29, previous week is from 9/16 to 9/22.

Shortages: Unified Hospitals Dataset in HHS Protect. Values presented show the latest reports from hospitals in the week ending 9/29/2021 for staffing and the week ending 9/29/2021 for supplies.

. Data includes the Moderna, Pfizer BioNTech, and J&J/Janssen COVID-19 vaccines and reflects current data available as of 11:41 EDT on 10/01/2021. Data last updated 06:00 EDT on 10/01/2021. People initiating vaccination include those who have received the first dose of the Moderna or Pfizer-BioNTech raccine as well as those who have received one dose of the J&J/Janssen vaccine. Population denominators reflect the subset of the population of the corresponding age

METHODS: Details available on last two pages of report.

^{**} Due to delayed reporting, this figure may underestimate total diagnostic tests and week-on-week changes in diagnostic tests. DATA SOURCES

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Appendix 12

Data as of: October 9, 2021 12:35 PM ET. Posted: October 9, 2021 2:00 PM ET				
te \$	Cumulative Tests Performed per 100K \$	Cumulative Percent Positivity		
ka	425.233.17	3-4.9%		
de Island	424,492.97	3-4.9%		
sachusetts	412.755.29	3-4.9%		
rict of Columbia	385.197.71	3-4.9%		
iont	353.595.66	< 3%		
necticut	303.200.22	3-4.9%		
York*	296.057.15	3-4.9%		
nesota	273.087.53	5-7.9%		
ware	263,828.92	5-7.9%		
th Dakota	241,821.93	5-7.9%		
land	231,471.76	5-7.9%		
is	209,705.33	5-7.9%		
ornia	205,992.72	N/A		
e	203,157.91	< 3%		
lersey	200,783.82	5-7.9%		
onsin	199,560.79	5-7.9%		
Virginia	198,496.5	5-7.9%		
a	187,666.62	10-14.9%		
Hampshire	184,290.04	3-4.9%		
iana	178,366.37	8-9.9%		
rado	177.328.39	5-7.9%		
ming	176.642.44	5-7.9%		
Mexico	174.264.57	8-9.9%		
n Carolina	172.769.45	10-14-9%		
ii	167.982.77	3-4 9%		
	167,582.77	5-7.9%		
gan		10-14-996		
	160,592			
ina	156,247.61	10-14.9%		
h Carolina	148,796.8	8-9.9%		
sylvania	143,491.15	8-9.9%		
ana	142,803.37	10-14.9%		
na	142,030.79	10-14.9%		
icky	138,665.39	10-14.9%		
da	137,523.29	10-14.9%		
	136,954.05	10-14.9%		
	136,544.5	5-7.9%		
5	135,061.45	8-9.9%		
uri	134,505.2	10-14.9%		
ssee	125,608.24	N/A		
	122,484.11	10-14.9%		
	121.713.42	10-14.9%		
ia	121,713.42	15-19.9%		
raska	121,607.13	10-14.9%		
n	119,557.6	5-7.9%		
ma	118,951.91	10-14.9%		
sas	118,892.98	8-9.9%		
ington	110,334.91	N/A		
gia	106,728.6	10-14.9%		
1	106,042.71	5-7.9%		
n Dakota	89,140.34	10-14.9%		
oma	75,510.99	20-24.9%		
sippi	62,637.59	10-14.9%		
Rico	50,375.93	5-7.9%		
Islands	41,938.72	8-9.9%		
ican Samoa	N/A	N/A		
rated States of Micronesia	N/A	N/A		
ork (Level of Community Transmission)*	N/A	N/A		
York City*	N/A	N/A		
hern Mariana Islands	N/A	N/A		
u	N/A	N/A		
olic of Marshall Islands	N/A	N/A		

CDC, Cases, Deaths and Testing (View: Tests Performed, Time Period: All Time, Metric: Rate per 100,000), Data Table for Cumulative COVID-19 Nucleic Acid Amplification Tests (NAATs) Performed per 100k by State/Territory, https://covid.cdc.gov/covid-data-tracker/#cases testsper100k

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Appendix 13

Data as of: October 9, 2021 12:35 PM ET. Posted: October	Data as of: October 9, 2021 12:35 PM ET. Posted: October 9, 2021 2:00 PM ET			
tate \$	# Tests Performed Last 30 Days per 100K \$	30-day Percent Positivity \$		
strict of Columbia	47,629.4	< 3%		
hode Island	37.779.28	< 3%		
lassachusetts	33.118.97	< 3%		
rmont	32,397.69	3-4.9%		
alifornia	23.032.75	N/A		
ew York*	21.888.1	3-4.9%		
ew Tork /est Virginia	20.646.46	10-14.9%		
est vii girila linnesota	19.923.78	5-7.9%		
innesota inois	19,657.12	3-4.9%		
	18,829.05			
outh Carolina		10-14.9%		
lelaware 	18,433.42	5-7.9%		
awaii	16,952.1	5-7.9%		
laryland	16,359.24	5-7.9%		
lyoming	15,777.9	10-14.9%		
/isconsin	15,358.23	8-9.9%		
entucky	15,111.69	10-14.9%		
onnecticut	14,936.97	< 3%		
orth Carolina	14,928.43	8-9.9%		
ew Hampshire	14,374.08	5-7.9%		
olorado	14,336.83	5-7.9%		
lew Jersey	13,751.87	3-4.9%		
daho	13,680.08	20-24.9%		
uam	13.478.31	10-14.9%		
orida	12.831.05	8-9.9%		
orth Dakota	12 354 38	8-9.9%		
ontana	12.196.83	15-19.9%		
ew Mexico	12,130.03	5-7.9%		
	11,982,34			
faine	,	3-4.9%		
irginia	11,250.95	8-9.9%		
ennsylvania	11,165.4	8-9.9%		
lichigan	11,148.45	8-9.9%		
tah	11,077.75	10-14.9%		
lissouri	11,069.56	8-9.9%		
hio	10,731.26	10-14.9%		
diana	10,707.51	10-14.9%		
aska	10,530.32	8-9.9%		
ensas	10,471.48	8-9.9%		
rizona	10.069.25	10-14.9%		
exas	9,986.7	10-14.9%		
wa	9.951.09	10-14.9%		
regon	9.709.07	8-9.9%		
_	8.891.54	10-14.9%		
eorgia		10-14.9%		
levada	8,520.7			
ouisiana 	8,292.69	5-7.9%		
outh Dakota	7,590.83	15-19.9%		
abama	7,525.27	10-14.9%		
kansas	7,328.28	8-9.9%		
ennessee	6,831.22	N/A		
ashington	5,789.06	N/A		
uerto Rico	5,533.12	5-7.9%		
klahoma	5,101.07	15-19.9%		
ebraska	4,561.24	10-14.9%		
lississippi	4,373.37	10-14.9%		
irgin Islands	1,839.14	15-19.9%		
merican Samoa	N/A	N/A		
ederated States of Micronesia	N/A	N/A		
lew York (Level of Community Transmission)*	N/A	N/A		
-				
lew York City*	N/A	N/A		
orthern Mariana Islands	N/A	N/A		
alau	N/A	N/A		
epublic of Marshall Islands	N/A	N/A		

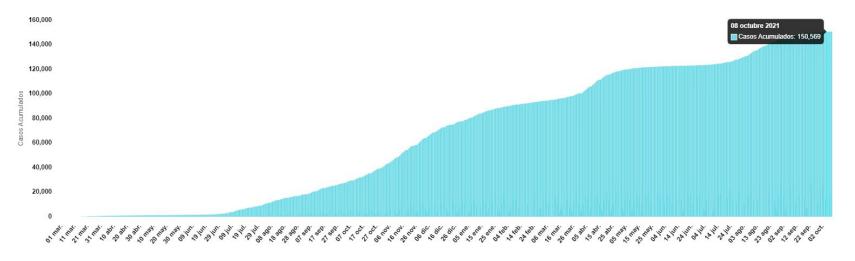
Cases, Deaths and Testing (View: Tests Performed, Time Period: Last 30 Days, Metric: Rate per 100,000), Data Table for COVID-19

Nucleic Acid Amplification Tests (NAATs) Performed in Last 30 Days per 100k by State/Territory, https://covid.cdc.gov/covid-data-tracker/#cases testsper100k30day

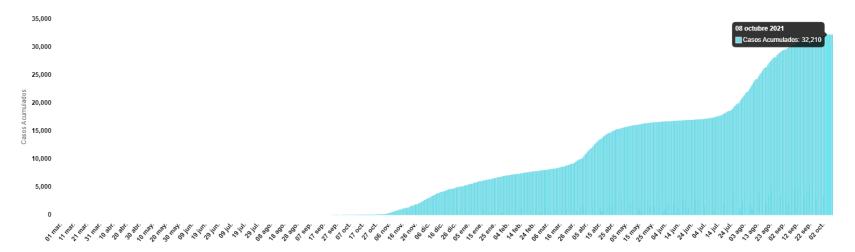
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Appendix 14

Conteo acumulado de casos confirmados (PCR) para COVID-19 notificadas por fecha de toma de muestra



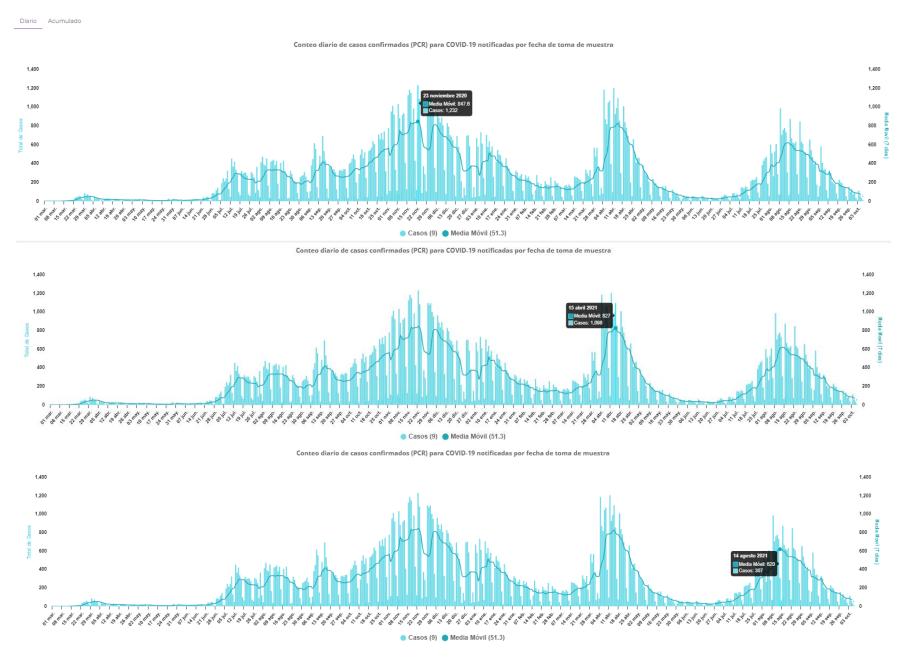
Conteo acumulado de casos probables (antígeno) para COVID-19 notificadas por fecha de toma de muestra



Puerto Rico Health Department COVID-19 Dashboard, Casos (Confirmados (Acumulados), Probables (Acumulados)), https://covid19datos.salud.gov.pr/#casos

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Appendix 15

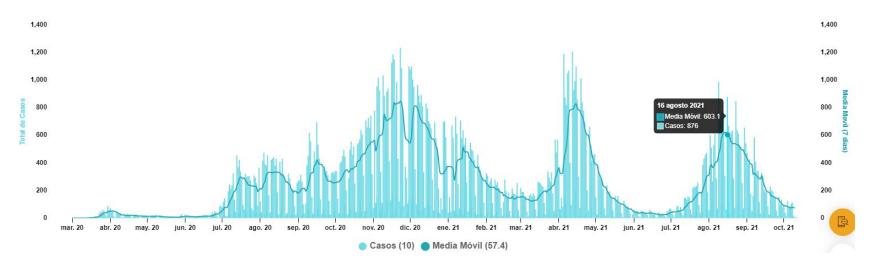


Puerto Rico Health Department COVID-19 Dashboard, Casos (Confirmados), https://covid19datos.salud.gov.pr/#casos

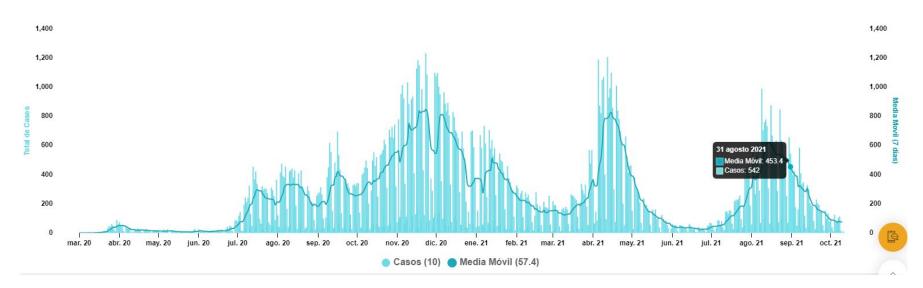
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Appendix 16A

Conteo diario de casos confirmados (PCR) para COVID-19 notificadas por fecha de toma de muestra



Conteo diario de casos confirmados (PCR) para COVID-19 notificadas por fecha de toma de muestra

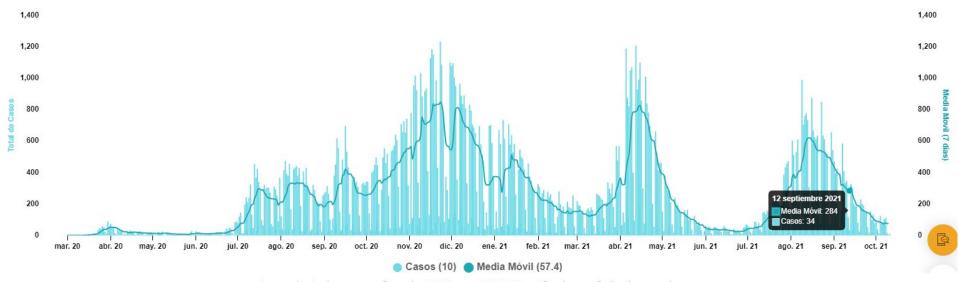


Puerto Rico Health Department COVID-19 Dashboard, Casos (Confirmados), https://covid19datos.salud.gov.pr/#casos

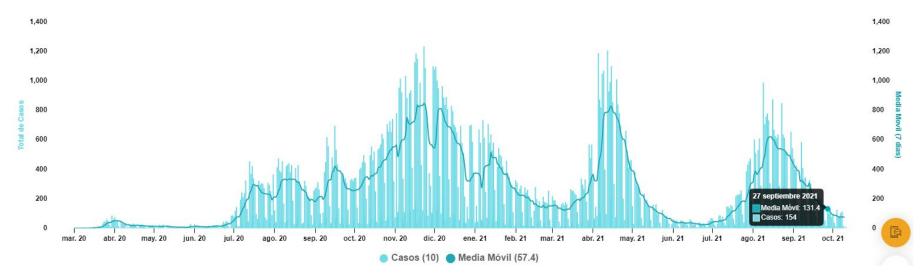
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Appendix 16B

Conteo diario de casos confirmados (PCR) para COVID-19 notificadas por fecha de toma de muestra



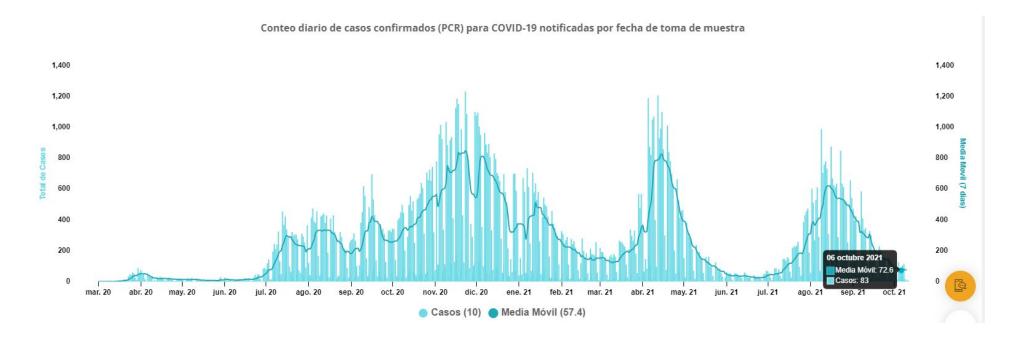
Conteo diario de casos confirmados (PCR) para COVID-19 notificadas por fecha de toma de muestra



Puerto Rico Health Department COVID-19 Dashboard, Casos (Confirmados), https://covid19datos.salud.gov.pr/#casos

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Appendix 16C

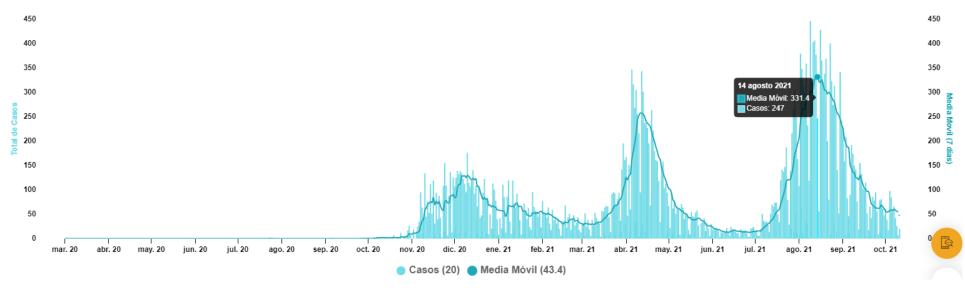


Puerto Rico Health Department COVID-19 Dashboard, Casos (Confirmados), https://covid19datos.salud.gov.pr/#casos

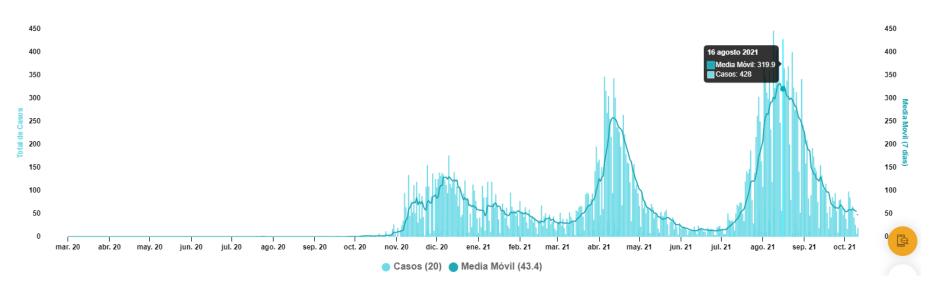
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Appendix 17A

Conteo diario de casos probables (antígeno) para COVID-19 notificadas por fecha de toma de muestra



Conteo diario de casos probables (antígeno) para COVID-19 notificadas por fecha de toma de muestra

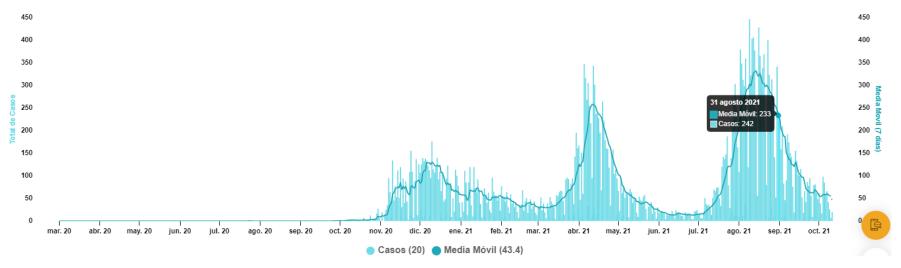


Puerto Rico Health Department COVID-19 Dashboard, Casos (Probables), https://covid19datos.salud.gov.pr/#casos

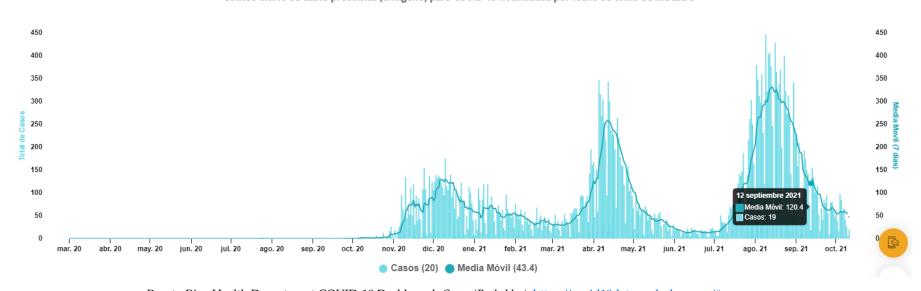
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Appendix 17B

Conteo diario de casos probables (antígeno) para COVID-19 notificadas por fecha de toma de muestra



Conteo diario de casos probables (antígeno) para COVID-19 notificadas por fecha de toma de muestra

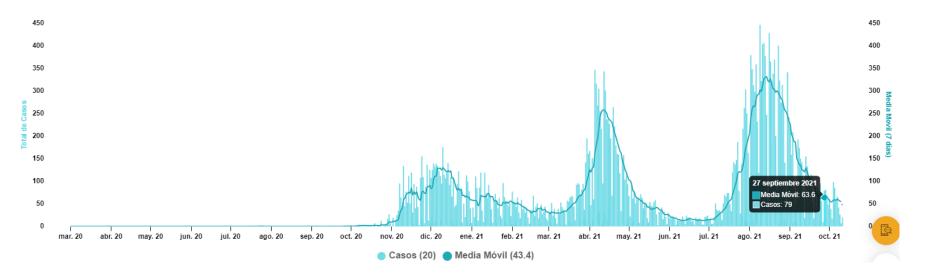


Puerto Rico Health Department COVID-19 Dashboard, Casos (Probables), https://covid19datos.salud.gov.pr/#casos

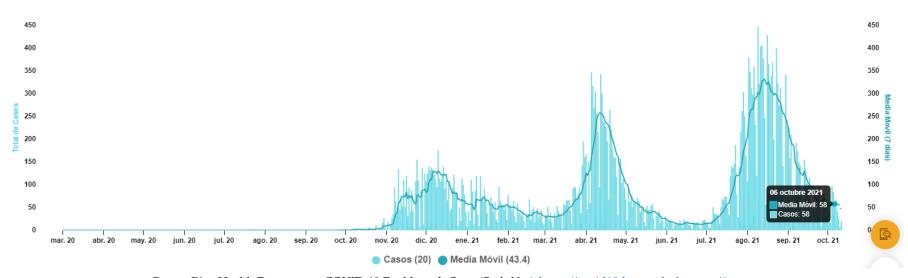
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Appendix 17C

Conteo diario de casos probables (antígeno) para COVID-19 notificadas por fecha de toma de muestra



Conteo diario de casos probables (antígeno) para COVID-19 notificadas por fecha de toma de muestra



Puerto Rico Health Department COVID-19 Dashboard, Casos (Probables), https://covid19datos.salud.gov.pr/#casos

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Appendix 17A





Datos recogidos al 2021-06-15

Puerto Rico Health Department COVID-19 Dashboard, Casos (Confirmados), https://covid19datos.salud.gov.pr/#casos; Pruebas (Moleculares), https://covid19datos.salud.gov.pr/#pruebas

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Appendix 18B





Puerto Rico Health Department COVID-19 Dashboard, Casos (Confirmados), https://covid19datos.salud.gov.pr/#casos;, https://covid19datos.salud.gov.pr/#pruebas

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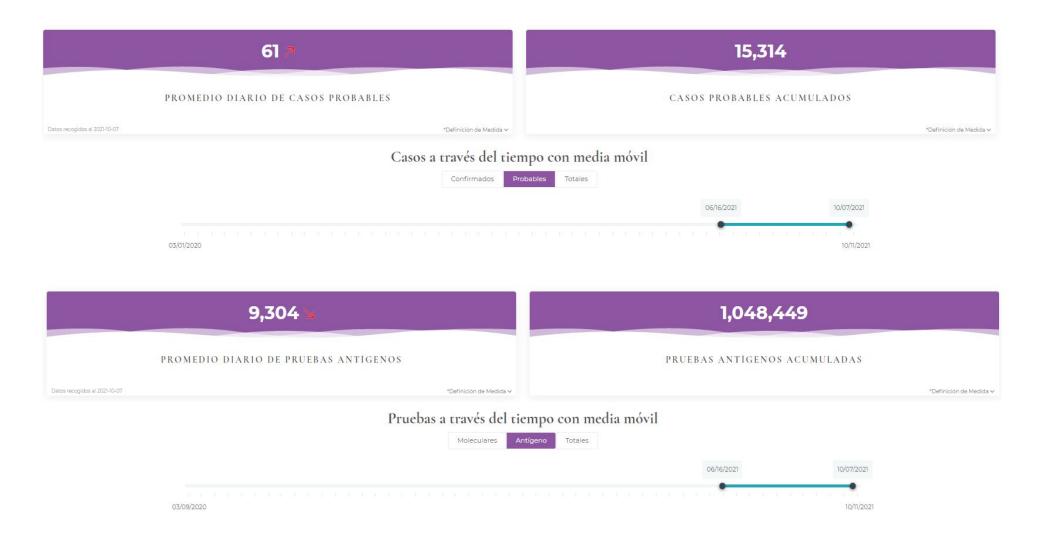
Appendix 19A



Puerto Rico Health Department COVID-19 Dashboard, Casos (Probables), https://covid19datos.salud.gov.pr/#pruebas (Antigeno), https://covid19datos.salud.gov.pr/#pruebas

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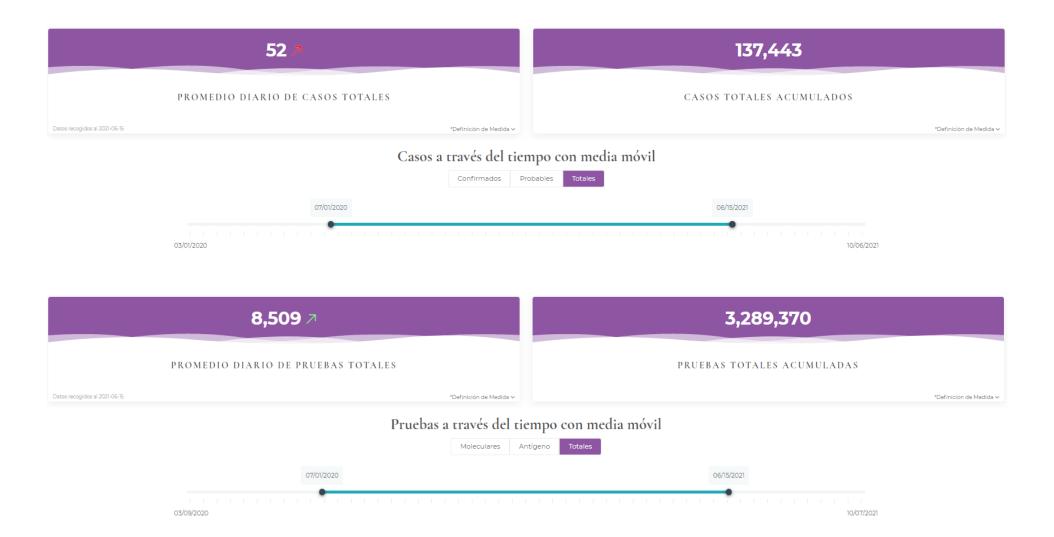
Appendix 19B



Puerto Rico Health Department COVID-19 Dashboard, Casos (Probables), https://covid19datos.salud.gov.pr/#pruebas (Antigeno), https://covid19datos.salud.gov.pr/#pruebas

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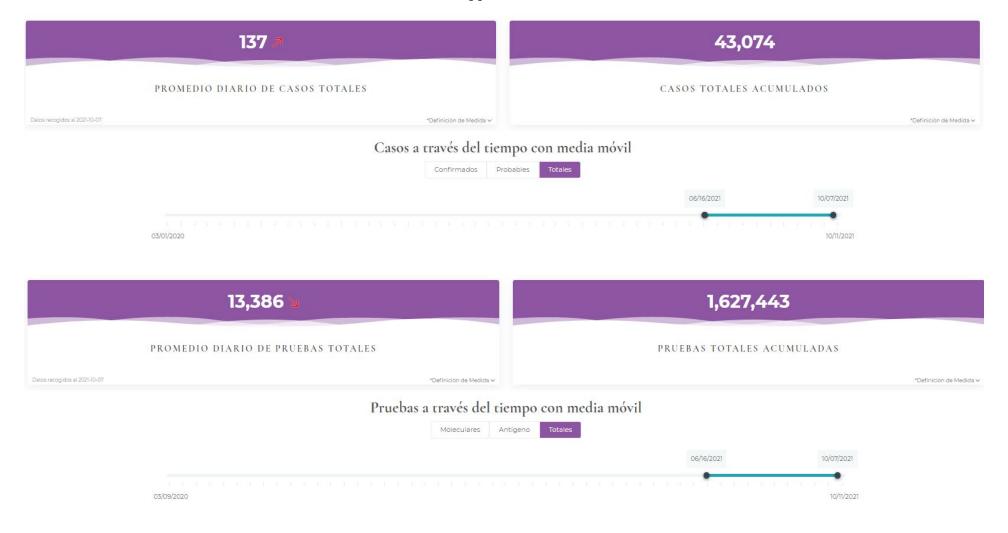
Appendix 20A



Puerto Rico Health Department COVID-19 Dashboard, Casos (Probables), https://covid19datos.salud.gov.pr/#pruebas (Antigeno), https://covid19datos.salud.gov.pr/#pruebas

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Appendix 20B



Puerto Rico Health Department COVID-19 Dashboard, Casos (Totales), https://covid19datos.salud.gov.pr/#pruebas (Totales), https://covid19datos.salud.gov.pr/#pruebas

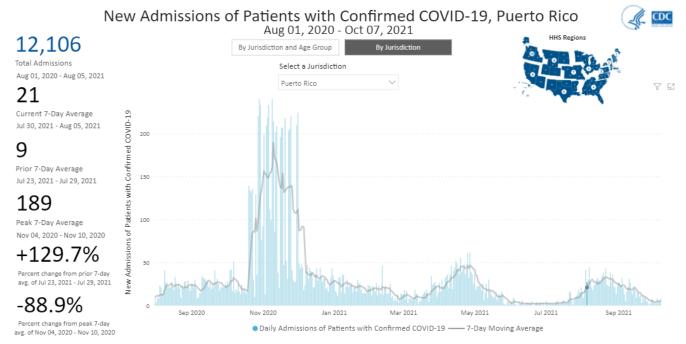
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Appendix 21

C Data as of: October 9, 2021 12:35 PM ET. Posted: October 9, 2021 2:00 PM ET		Download Data
State/Territory \$	Case Rate per 100,000 \$	
Fennessee	18.294	
North Dakota	18,066	
South Carolina	16.962	
Florida	16.784	
South Dakota	16.709	
Arkansas	16,619	
Mississippi	16.608	
Rhode Island	16,479	
Alabama	16,468	
Nyoming	16,294	
- Utah	16,226	
Louisiana	16,076	
Alaska	15,907	
Kentucky	15,900	
Oklahoma	15,816	
Arizona	15,306	
Georgia	15,095	
daho	14,978	
Montana	14,847	
owa	14,732	
ndiana	14,593	
Visconsin	14,342	
Kansas	14,336	
Texas	14,185	
Nevada	14,163	
Nebraska	14,080	
Delaware	14,036	
West Virginia	13,994	
North Carolina	13,587	
Missouri	13,567	
New Jersey	13,153	
New York City*	13,061	
Minnesota	13,044	
llinois	13,022	
Dhio	12,480	
New York*	12,378	
New Mexico	12,349	
California	12,020	
Colorado	11,955	
Massachusetts	11,948	
Michigan	11,906	
Pennsylvania	11,481	
Connecticut	11,051	
/irginia	10,435	
Guam	9,718	
New Hampshire	9,135	
Maryland	8,980	
Washington	8,904	
District of Columbia	8,823	
Dregon	8,088	
Maine	7,059	
/irgin Islands	6,615	
Puerto Rico	5,711	
Hawaii	5,551	
/ermont	5,232	
Northern Mariana Islands	528	
Palau	56	
Republic of Marshall Islands	7	
American Samoa	N/A	
Federated States of Micronesia	N/A	
New York (Level of Community Transmission)*	NaN	

Cases, Deaths and Testing (View: Cases, Time Period: Since Jan 21, 2020, Metric: Rate per 100,000), Data Table for Case Rate by State/Territory, https://covid.cdc.gov/covid-data-tracker/#cases casesper100k

Appendix 22A

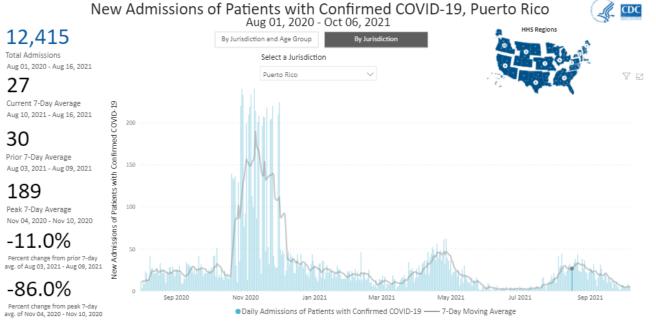


Based on reporting from all hospitals (N=5,258). Due to potential reporting delays, data reported in the most recent 7 days (as represented by the shaded bar) should be interpreted with caution.

Small shifts in historic data may occur due to changes in the CMS Provider of Services file, which is used to identify the cohort of included hospitals. Data since December 1, 2020 have had error correction methodology applied. Data prior to this date may have anomalies that are still being resolved. Data prior to August 1, 2020 are unavailable.

Last Updated: Oct 10, 2021

Unified Hospital Dataset, White House COVID-19 Team, Data Strategy and Execution Workgroup



Based on reporting from all hospitals (N=5,258). Due to potential reporting delays, data reported in the most recent 7 days (as represented by the shaded bar) should be interpreted with caution.

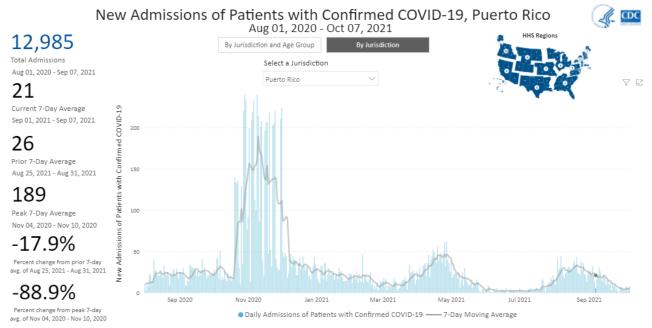
Small shifts in historic data may occur due to changes in the CMS Provider of Services file, which is used to identify the cohort of included hospitals. Data since December 1, 2020 have had error correction methodology applied. Data prior to this date may have anomalies that are still being resolved. Data prior to August 1, 2020 are unavailable.

Last Updated: Oct 18, 2021

Unified Hospital Dataset, White House COVID-19 Team, Data Strategy and Execution Workgroup

CDC, New Hospital Admissions (By Jurisdiction, Select Jurisdiction: Puerto Rico), https://covid.cdc.gov/covid-data-tracker/#new-hospital-admissions

Appendix 22B

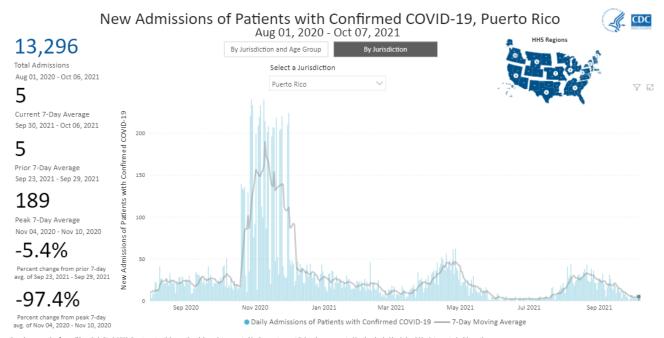


Based on reporting from all hospitals (N=5,258). Due to potential reporting delays, data reported in the most recent 7 days (as represented by the shaded bar) should be interpreted with caution.

Small shifts in historic data may occur due to changes in the CMS Provider of Services file, which is used to identify the cohort of included hospitals. Data since December 1, 2020 have had error correction methodology applied. Data prior to this date may have anomalies that are still being resolved. Data prior to August 1, 2020 are unavailable.

Last Updated: Oct 10, 2021

Unified Hospital Dataset, White House COVID-19 Team, Data Strategy and Execution Workgroup



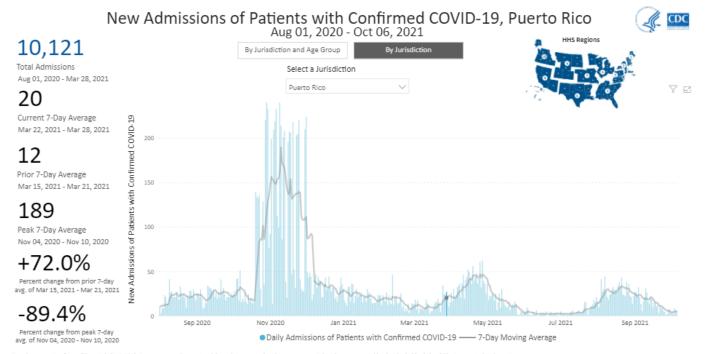
Based on reporting from all hospitals (N=5,258). Due to potential reporting delays, data reported in the most recent 7 days (as represented by the shaded bar) should be interpreted with caution.

Small shifts in historic data may occur due to changes in the CMS Provider of Services file, which is used to identify the cohort of included hospitals. Data since December 1, 2020 have had error correction methodology applied. Data prior to this date may have anomalies that are still being resolved. Data prior to August 1, 2020 are unavailable.

Last Updated: Oct 09, 2021

Unified Hospital Dataset, White House COVID-19 Team, Data Strategy and Execution Workgroup

Appendix 23A

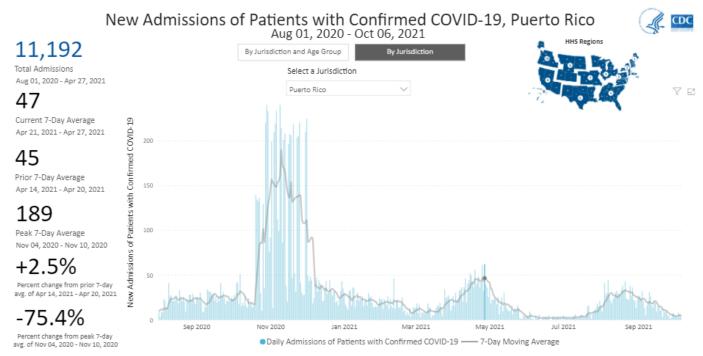


Based on reporting from all hospitals (N=5,258). Due to potential reporting delays, data reported in the most recent 7 days (as represented by the shaded bar) should be interpreted with caution.

Small shifts in historic data may occur due to changes in the CNKS Provider of Services Rie, which is used to identify the cohort of included hospitals. Data since December 1, 2020 have had error correction methodology applied. Data prior to this date may have anomalies that are still being resolved. Data prior to August 1, 2020 are unavailable.

Last Updated: Oct 08, 2021

Unified Hospital Dataset, White House COVID-19 Team, Data Strategy and Execution Workgroup



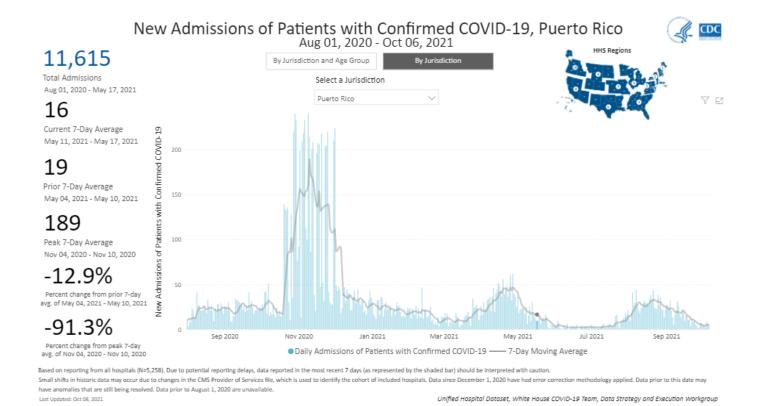
Based on reporting from all hospitals (N=5,258). Due to potential reporting delays, data reported in the most recent 7 days (as represented by the shaded bar) should be interpreted with caution.

Small shifts in historic data may occur due to changes in the CMS Provider of Services file, which is used to identify the cohort of included hospitals. Data since December 1, 2020 have had error correction methodology applied. Data prior to this date may have anomalies that are still being resolved. Data prior to August 1, 2020 are unavailable.

Unified Hospital Dataset, White House COVID-19 Team, Data Strategy and Execution Workgroup.

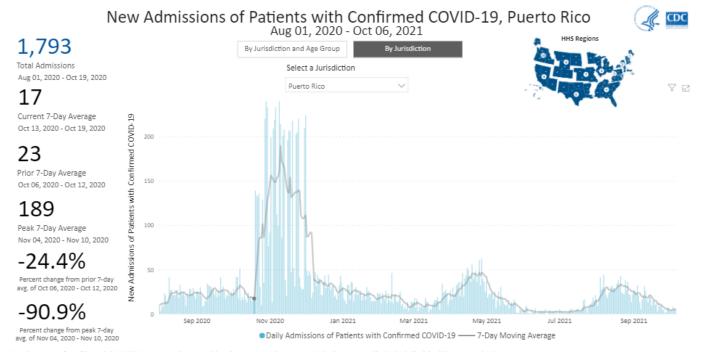
CDC, New Hospital Admissions (By Jurisdiction, Select Jurisdiction: Puerto Rico), https://covid.cdc.gov/covid-data-tracker/#new-hospital-admissions

Appendix 23B

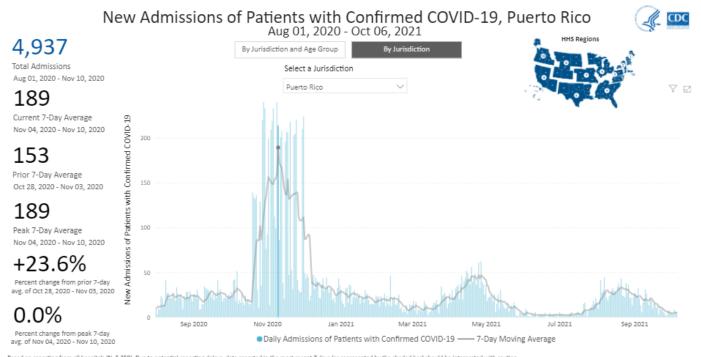


CDC, New Hospital Admissions (By Jurisdiction, Select Jurisdiction: Puerto Rico), https://covid.cdc.gov/covid-data-tracker/#new-hospital-admissions

Appendix 24A



Based on reporting from all hospitals (N=5,258). Due to potential reporting delays, data reported in the most recent 7 days (as represented by the shaded bar) should be interpreted with caution Small shifts in historic data may occur due to changes in the CMS Provider of Services file, which is used to identify the cohort of included hospitals. Data since December 1, 2020 have had error correction methodology applied. Data prior to this date may have anomalies that are still being resolved. Data prior to August 1, 2020 are unavailable Last Updated: Oct 08, 2021 Unified Hospital Dataset, White House COVID-19 Team, Data Strategy and Execution Workgroup

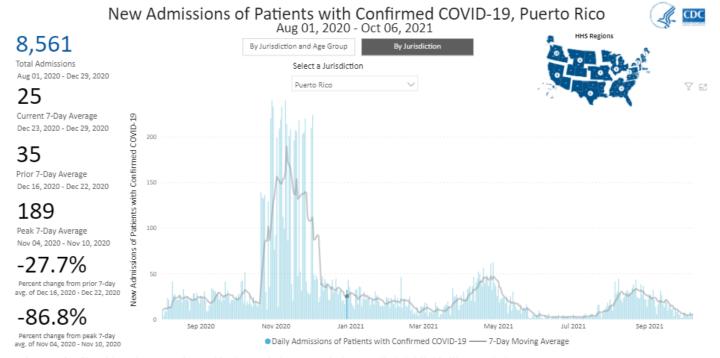


Based on reporting from all hospitals (N=5,258). Due to potential reporting delays, data reported in the most recent 7 days (as represented by the shaded bar) should be interpreted with caution. Small shifts in historic data may occur due to changes in the CMS Provider of Services file, which is used to identify the cohort of included hospitals. Data since December 1, 2020 have had error correction methodology applied. Data prior to this date may have anomalies that are still being resolved. Data prior to August 1, 2020 are unavailable Last Updated: Oct 08, 2021

Unified Hospital Dataset, White House COVID-19 Team, Data Strategy and Execution Workgroup

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Appendix 24B



Based on reporting from all hospitals (N=5,258). Due to potential reporting delays, data reported in the most recent 7 days (as represented by the shaded bar) should be interpreted with caution. Small shifts in historic data may occur due to changes in the CMS Provider of Services file, which is used to identify the cohort of included hospitals. Data since December 1, 2020 have had error correction methodology applied. Data prior to this date may have anomalies that are still being resolved. Data prior to August 1, 2020 are unavailable Last Updated: Oct 08, 2021

Unified Hospital Dataset, White House COVID-19 Team, Data Strategy and Execution Workgroup

CDC, New Hospital Admissions (By Jurisdiction, Select Jurisdiction: Puerto Rico), https://covid.cdc.gov/covid-data-tracker/#newhospital-admissions

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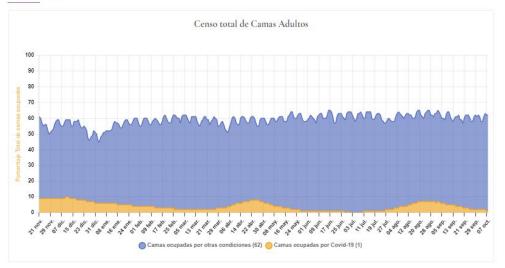
Appendix 25

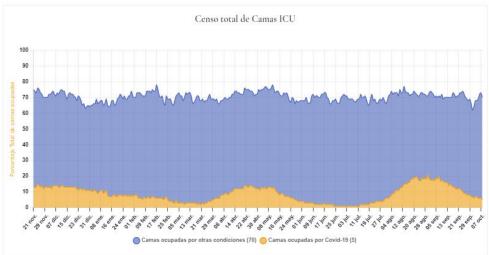
Sistemas de Salud en Puerto Rico

Hospitalizaciones en Puerto Rico por COVID-19

Hoy Histórico

Adultos



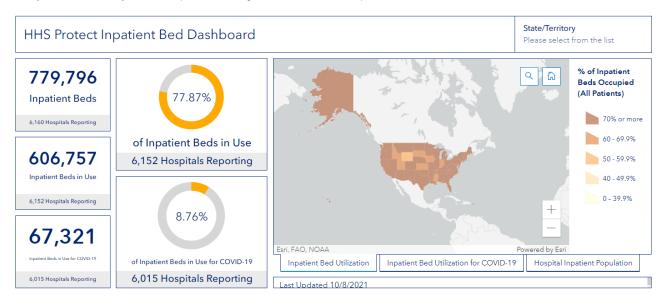


Puerto Rico Health Department Covid-19 Dashboard, Sistema de Salud (Historico), https://covid19datos.salud.gov.pr/#sistemas_salud

Appendix 26A

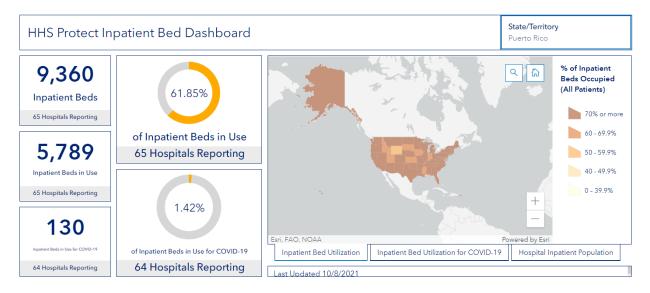
Inpatient Bed Utilization by State

Select your State or Territory from the dropdown on the right to see information on inpatient bed utilization.



Inpatient Bed Utilization by State

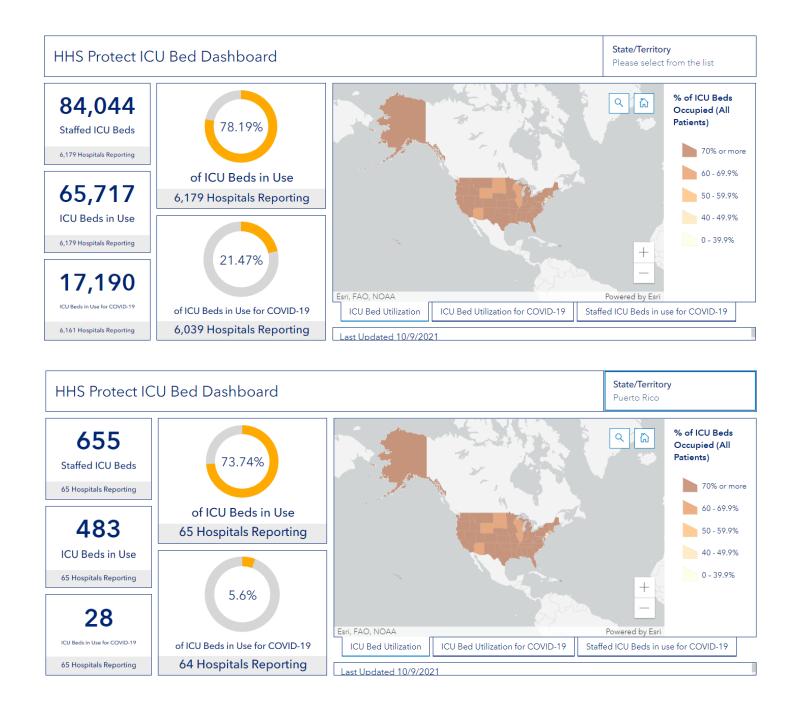
Select your State or Territory from the dropdown on the right to see information on inpatient bed utilization.



HHS, HHS Protect Inpatient Bed Dashboard, https://protect-public.hhs.gov/pages/hospital-utilization

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Appendix 26B



HHS, HHS Protect Inpatient Bed Dashboard, https://protect-public.hhs.gov/pages/hospital-utilization

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Appendix 27

Data as of: October 9, 2021 12:35 PM ET. Posted: October 9, 2021 2:00 PM ET		Download Da	
tate/Territory \$	Death Rate per 100,000 \$		
lew York City*	408		
fississippi	329		
lew Jersey	310		
puisiana	304		
labama	303		
rizona	279		
lassachusetts	271		
hode Island	269		
orida	262		
rkansas	258		
eorgia	255		
outh Carolina	252		
outh Dakota	245		
onnecticut	243		
ndiana	237		
evada	236		
klahoma	234		
ennsylvania	233		
ew Mexico	232		
fichigan	227		
ennessee	227		
exas	227		
inois	220		
/est Virginia	219		
orth Dakota	215		
Wa .	210		
ansas	210		
elaware	205		
entucky	202		
hio	195		
Iontana	194		
lew York*	191		
fissouri	190		
lyoming	179		
alifornia	175		
laryland	175		
daho	174		
istrict of Columbia	167		
orth Carolina	163		
fisconsin	154		
irginia	153		
finnesota	149		
ebraska	147		
olorado	134		
uam	127		
ew Hampshire	110		
/ashington	105		
uerto Rico	99		
	94		
regon			
tah	93		
laine	79		
laska	77		
irgin Islands	69		
awaii	58		
ermont	50		
orthern Mariana Islands	3		
alau	0		
epublic of Marshall Islands	0		
merican Samoa	N/A		
ederated States of Micronesia lew York (Level of Community Transmission)*	N/A N/A		

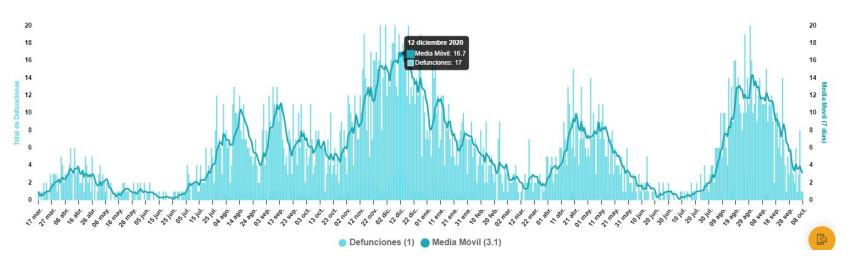
CDC,

Cases, Deaths and Testing (View: Deaths, Time Period: Since Jan 21, 2020, Metric: Rate per 100,000), Data Table for Death Rate by State/Territory, https://covid.cdc.gov/covid-data-tracker/#cases_deathsper100k

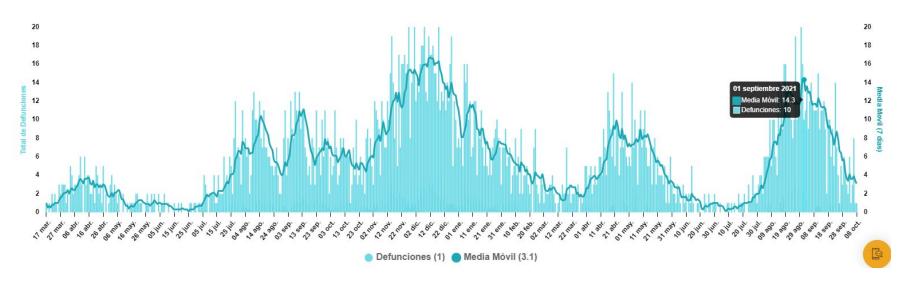
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Appendix 29A

Conteo diario de defunciones por COVID-19 notificadas por fecha de defunción



Conteo diario de defunciones por COVID-19 notificadas por fecha de defunción



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Appendix 29B

Conteo diario de defunciones por COVID-19 notificadas por fecha de defunción

