

UNITED STATES DISTRICT COURT
FOR THE DISTRICT OF PUERTO RICO

ZULAY RODRIGUEZ VELEZ, ET AL.,

Plaintiffs,

v.

HON. PEDRO R. PIERLUISI URRUTIA,
IN HIS OFFICIAL CAPACITY AS
GOVERNOR OF THE
COMMONWEALTH OF PUERTO RICO,

Defendant.

Civil No. 21-1366 (PAD)

**Motion for Leave to Reply to Opposition to Plaintiffs’
Motion for Judicial Knowledge**

The plaintiffs, Zulay Rodriguez Velez, Yohama Gonzalez, Leila G. Ginorio Carrasquillo, and Julissa Piñero (collectively, “Plaintiffs”) respectfully move for leave to reply to the defendant’s Opposition (ECF No. 111) to their Motion for Judicial Knowledge at ECF No. 92.

A reply, which is tendered to this motion, would no doubt allow this Court to properly analyze the defendant’s objections to Plaintiffs’ motion for judicial knowledge. For the reply will show why the defendant’s objections lack merit. And, more importantly, why the defendant did not really challenge the accuracy of the numbers presented in the cited websites for September 28, 2021; he merely challenged that the information now present in the links provided has changed, as it does every day.

For the reasons stated, the plaintiffs respectfully request that this Court grant them leave to reply to the defendant's Opposition (ECF No. 111) to their Motion for Judicial Knowledge. ECF No. 92.

Dated: October 10, 2021

Respectfully submitted,

B&D LLC /s/ José R. Dávila-Acevedo jose@bdlawpr.com USDCPR No. 231511 1519 Ponce de Leon Ave. Ste. 501 San Juan, PR 00909 787-931-0941	Puerto Rico Institute for Economic Liberty /s/ Arturo V. Bauermeister Arturo V. Bauermeister bauermeistera@ilepr.org USDCPR No. 302604 P.O. Box 363232 San Juan, PR 00936-3232 Tel: 787.721.5290 Fax: 787.721.5938
	/s/ Ilya Shapiro D.C. Bar. No. 489100 (admitted <i>pro hac vice</i>) 1000 Mass. Ave. NW Washington, DC 20001 202-577-1134

Counsel for Plaintiff

**UNITED STATES DISTRICT COURT
FOR THE DISTRICT OF PUERTO RICO**

ZULAY RODRIGUEZ VELEZ, ET AL.,

Plaintiffs,

v.

HON. PEDRO R. PIERLUISI URRUTIA, IN
HIS OFFICIAL CAPACITY AS
GOVERNOR OF THE COMMONWEALTH
OF PUERTO RICO,

Defendant.

Civil No. 21-1366 (PAD)

Plaintiffs' Reply to Defendant's Opposition to Their Motion for Judicial Knowledge

The plaintiffs, Zulay Rodriguez Velez, Yohama Gonzalez, Leila G. Ginorio Carrasquillo, and Julissa Piñero (collectively, "Plaintiffs") respectfully replies to the defendant's Opposition (ECF No. 111) to Plaintiffs' Motion for Judicial Knowledge. ECF No. 92.

Most of Defendant's objections stem from the fact that the numbers for vaccination rates, cases, hospitalizations, and deaths change every day and therefore the link does not reflect the exact numbers that Plaintiffs stated in their Motion for Judicial Knowledge. Other objections only reflect that the CDC's, the Puerto Rico government's, and other cited websites, require some interaction to obtain the numbers as presented in Plaintiff's Motion for Judicial Knowledge.

Note that Defendant did not really challenge the accuracy of the numbers presented in the cited websites for September 28, 2021; they merely challenged that the information now present in the links provided has changed, as it does every day. But Defendant should have been able to challenge the accuracy of the numbers provided which were obtained from government sources. More so, given that their two experts are officers of the Department of Health, which is the source of most of the information and statistics presented in Plaintiff's Motion for Judicial Knowledge.

Therefore, if the government really wanted to challenge the accuracy of the statistics provided therein, they could have submitted their own proposed statistics along with the sources to back-up their challenges. But they didn't. To avoid any doubt, however, Plaintiffs are providing **print screens in the Appendixes** with the data shown in the cited sources **as of September 28, 2021** or as of **October 8, 2021** as explained in paragraphs 9 and 44 below. Data with an asterisk (*) means the following: As vaccination, cases, and deaths reported under the Puerto Rico Health Department Dashboard and other sources have a lagging in reporting, it appears that new data was entered in future dates corresponding to dates reported in the past which caused a slight immaterial difference in the original number reported.

Plaintiffs reply to the defendant's opposition to each challenged fact, *seriatim*.

1. The Data is correct as presented in Appendix 1. The link does reflect the information as stated in the Motion for Judicial Knowledge, except that today the numbers are different because more people get vaccinated each day. But Puerto Rico's ranking is still the same. *See* CDC, COVID-19 Vaccinations in the United States available at https://covid.cdc.gov/covid-data-tracker/#vaccinations_vacc-total-admin-rate-total, scrolling down, pressing the link that reads: *Data Table for COVID-19 Vaccinations in the United States*, and sorting for the metric: Doses Administered per 100k by State where Administered. *See* Appendix 1 for a print screen of the CDC website (as of September 28, 2021) showing the rankings after following the above-mentioned steps.
2. Data correct as presented in Appendix 2. *See* 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

3. According to the Puerto Rico Health Dept. COVID-19 dashboard, as of September 28, 2021, Puerto Rico had, of the eligible population, 79%* fully vaccinated and 87.5%* with one dose (Appendix 3A), while on August 16, 2021, when the EO 2021-058 became effective, Puerto Rico had 72.3%* fully vaccinated and 82.2%* with one dose (Appendix 3B), and on July 28, 2021, when the EO 2021-058 was announced, Puerto Rico had 70.2%* fully vaccinated and 78.5%* with one dose (Appendix 3C).
5. According to the Puerto Rico Health Dept. COVID-19 dashboard, of the available population, from July 28, 2021, when the EO 2021-058 was announced, to September 28, 2021, a total of 8.9%* were fully vaccinated and 9.2%* received one dose (Appendix 4A) and from August 16, 2021, when EO 2021-058 became effective, to September 28, 2021, a total of 6.8%* were fully vaccinated and 5.6%* received one dose (Appendix 4B). *See* 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, as of September 28, 2021, there are 362,440* people are 60-69 years old, 275,073* are 70-79 years old and 141,746* are 80+ years old). These amounts went added, totaled 779,259 people that are 60 years or older, with at least one dose. (Appendix 5). *See* 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 September 28, 2021, the daily 7-day moving average of daily confirmed cases was 117* cases and of daily probable cases was 69* cases (Appendix 6A) *See* Puerto Rico Health Department COVID-19 Dashboard, *Casos*, <https://covid19datos.salud.gov.pr/#casos>. The 7-day moving average of

deaths was 5.6*. (Appendix 6B). See Puerto Rico Health Department COVID-19 Dashboard, *Defunciones*, <https://covid19datos.salud.gov.pr/#defunciones>. For adult hospitalizations, ICU adult hospitalizations, adult beds available and ICU adult beds available, data is correct, refer to “Dataset_sistemas_salud” cells B:536, G:536, E:536 and J:536, downloaded from <https://covid19datos.salud.gov.pr/>, Datos, Dataset: Sistemas de Salud.

8. According to the Puerto Rico Health Dept. COVID-19 dashboard, as of September 28, 2021, there are composed by age group as follows: in the 60-69 years old group, 150,088* males fully vaccinated, 163,512* males with at least one dose (Appendix 7A), and 17,889* males not vaccinated (Appendix 7B) and 183,553* females fully vaccinated, 199,796* with at least one dose (Appendix 7A), and 17,866* not vaccinated (Appendix 7B). In the 70-79 years old group, 108,256* males are fully vaccinated, 118,386* males with one dose (Appendix 7C), and 20,181* not vaccinated (Appendix 7B) and 141,948* females fully vaccinated, 155,735* with at least one dose (Appendix 7C), and 15,107* not vaccinated (Appendix 7B). In the 80+ years old group, 49,131* males fully vaccinated, 54,353* with at least one dose (Appendix 7D), and 18,172* not vaccinated (Appendix 7E) and 78,761* females fully vaccinated, 87,988* with at least one dose (Appendix 7D), and 21,327* not vaccinated (Appendix 7E).
9. According to the Puerto Rico Health Dept. COVID-19 dashboard on October 8, 2021, as of September 28, 2021, among the 80+ years old, there have been 979* deaths (31%), among the 70-79 years old, 819* deaths (25.9%), and among the 60-69 years old, 610* deaths (19.3%) of the total 3,148* reported deaths related to COVID-19. At the same time, among the 59-50 years old, 445 deaths (14.1%); among the 40-49 years old, 197¹ deaths (6.2%); among the 30-39 years old, 73¹ deaths (2.3%); among the 20-29 years old, 28 deaths (0.9%); among the 10-19 years old, 5 deaths (0.2%), and among the 0-9 years old, 2 deaths (0.1%) have been reported.

For ages 59-50 years old, 20-29 years old, 10-19 years old and 0-9 years old, data is correct.

Refer to Appendix 7A, 7B, 7C, 7D, 7E and 7F.

10. According to the Puerto Rico Health Dept. COVID-19 dashboard, as of September 28, 2021, there was a reported accumulated total of 149,718* (PCR) confirmed cases and 31,628* (antigen) probable cases of COVID-19 in Puerto Rico. (Appendix 6A).
11. Data is correct as per “Dataset_casos”, downloaded from <https://covid19datos.salud.gov.pr/>, Datos, Dataset: Casos.
12. According to “covidestim:COVID-19 nowcasting”, the Effective Transmission Rate (R_t) for Puerto Rico was 0.75* on September 28, 2021, all other data is correct. Refer to Appendix 9. See covidestim | COVID-19 nowcasting, *Effective reproduction rate (R_t)* (Puerto Rico), <https://covidestim.org/>
13. Data is correct as presented on Appendix 10.
14. Data is correct as shown on Appendix 11.
23. 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. All other data is correct as presented on Appendix 12.
24. According to the Puerto Rico Health Department COVID-19 dashboard, as of September 28, 2021, the 7dMA of daily confirmed cases on September 12, 2021 was 284.4* confirmed cases and on September 27, 2021 was 131.4* confirmed cases. All other data is correct as shown in Appendix 13. See Puerto Rico Health Department COVID-19 Dashboard, *Casos (Confirmados)*, <https://covid19datos.salud.gov.pr/#casos>
25. According to the Puerto Rico Health Department COVID-19 dashboard, as of September 28, 2021, on August 14, 2021, two days prior to EO 2021-058, the 7dMA of daily probable cases

was 331.4* probable cases. On August 16, 2021 it was 319.9* probable cases, on September 12, 2021 was 120.4* probable cases and on September 27, 2021 was 62.3* probable cases.

All other data is correct as presented Appendix 14A, 14B and 14C.

26. According to the Puerto Rico Health Department COVID-19 dashboard, from July 1, 2020 to June 15, 2021, there were 120,590* accumulated confirmed cases and 2,067,324* accumulated molecular tests administered (Appendix 15A) and, from June 16, after the Delta variant was first confirmed in Puerto Rico, to September 28, 2021, there were 27,023* accumulated confirmed cases and 539,673* accumulated molecular tests administered. (Appendix 15B). *See* Puerto Rico Health Department COVID-19 Dashboard, *Casos (Confirmados)*, <https://covid19datos.salud.gov.pr/#casos>; *Pruebas (Moleculares)*, <https://covid19datos.salud.gov.pr/#pruebas>
27. 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 (Appendix 16A) and, from June 16 to September 28, 2021, there were 14,771* accumulated probable cases and 958,488* accumulated antigen tests administered (Appendix 16B). From July 1, 2020 to June 15, 2021, there were 137,443* accumulated confirmed and probable cases and 3,289,370 accumulated molecular and antigen tests administered (Appendix 16C) and, from June 16 to September 28, 2021, there were 41,794* accumulated confirmed and probable cases and 1,498,161* accumulated molecular and antigen tests administered (Appendix 16D). *See* Puerto Rico Health Department COVID-19 Dashboard, *Casos (Probables)*, <https://covid19datos.salud.gov.pr/#casos>; *Pruebas (Antigeno)*, <https://covid19datos.salud.gov.pr/#pruebas>

28. Data is correct as presented in Appendix 17. *See* CDC, 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
29. Data is correct as presented in Appendix 18A and 18B. *See* CDC, New Hospital Admissions (By Jurisdiction, Select Jurisdiction: Puerto Rico), <https://covid.cdc.gov/covid-data-tracker/#new-hospital-admissions>
30. Data is correct as presented in Appendix 19A and 19B. *See* CDC, New Hospital Admissions (By Jurisdiction, Select Jurisdiction: Puerto Rico), <https://covid.cdc.gov/covid-data-tracker/#new-hospital-admissions>
31. Data is correct as presented in Appendix 20A and 20B. *See* CDC, New Hospital Admissions (By Jurisdiction, Select Jurisdiction: Puerto Rico), <https://covid.cdc.gov/covid-data-tracker/#new-hospital-admissions>
32. Data is correct as presented in Appendix 18A, 18B, 19A, 19B, 20A and 20B. *See* CDC, New Hospital Admissions (By Jurisdiction, Select Jurisdiction: Puerto Rico), <https://covid.cdc.gov/covid-data-tracker/#new-hospital-admissions>
33. Data is correct as per Appendix 21. *See* HealthData.gov, COVID-19 State Profile Report - Puerto Rico (09.24.2021), <https://healthdata.gov/Community/COVID-19-State-Profile-Report-Puerto-Rico/dfc5-i6nj>
35. Data is correct as per Appendix 22. *See* CDC, 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
36. According to the Puerto Rico Health Department COVID-19 dashboard, as of September 28, 2021, there was a total of 149,719* confirmed cases and 31,625* probable cases accumulated.

- (Appendix 23). See Puerto Rico Health Department COVID-19 Dashboard, *Casos (Confirmados, Probables)*, <https://covid19datos.salud.gov.pr/#casos>
42. The information is accurate as presented in Appendix 24. See State of Colorado, Division of Human Resources, *COVID-19 Personnel and Procurement Information (COVID-19 Serial Testing)*, <https://dhr.colorado.gov/covid-19-personnel-and-procurement-information>
44. The data for the reported date, September 29, 2021, is no longer available. The updated data as of October 8, 2021, according to the HHS Protect Inpatient Dashboard is as follows: Overall Inpatient Beds in Use in the United States is 77.87% and in Puerto Rico 61.85% and the overall Inpatient Beds In Use for Covid-19 in the United States is 8.76% and in Puerto Rico is 1.42%. Refer to Appendix 25. See HHS, *HHS Protect Inpatient Bed Dashboard*, <https://protect-public.hhs.gov/pages/hospital-utilization>
45. The information is accurate. See 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/noticias/administracion-y-gerencia-medicina/abogan-para-que-se-elimine-requisito-de-referido-en-servicio-de-telemedicina-y-la-prueba-de-covid-19/7244>
48. Data is correct as per Appendix 26. See 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
49. According to the Puerto Rico Health Department COVID-19 dashboard, as of September 28, 2021, Puerto Rico has a total of 3,187* accumulated deaths related to COVID since March 17, 2020. See Puerto Rico Health Department COVID-19 Dashboard, *Defunciones*, <https://covid19datos.salud.gov.pr/#defunciones>

50. According to the CDC, when comparing across states and regions, for death rate per 100,000, as of September 29, 2021, Utah has 90* deaths, Puerto Rico has 98* deaths, Iowa has 205 deaths, Nevada has 229* deaths, Connecticut has 241* deaths and Arkansas has 253 deaths. Refer to Appendix 26. *See* 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
51. According to the Puerto Rico Health Department COVID-19 dashboard, as of September 28, 2021, the highest 7dMA of daily deaths in 2021 was on September 1, 2021, which was 14.3*. Refer to Appendix 28. *See* Puerto Rico Health Department COVID-19 Dashboard, *Defunciones*, <https://covid19datos.salud.gov.pr/#defunciones>
52. The information is accurate. *See* The Israeli Public Emergency Council for the Covid19 Crisis, *Position Paper - The Science And The Ethics Regarding The Risk Posed By Non-Vaccinated Individuals*, <https://pecc-il.org/docs/position-paperthe-science-and-the-ethics-regarding-the-risk-posed-by-non-vaccinated-individuals/>
54. The information is accurate. *See* 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>
57. According to Our World In Data, as of September 28, 2021, the top 11 countries in the world with the highest percentage of fully vaccinated population, among all its population, are Portugal with 85.21%* (September 27, 2021), United Arab Emirates 82.16%, Spain 78.23%*, Singapore 76.77%*, Denmark 75.08%*, Ireland 73.74%, Uruguay 73.67%, Chile 73.58%*, China 72.56%*, Canada 70.61%*, Italy 67.59%* (Appendix 29A). Puerto Rico, as of

September 28, 2021, has 2,249,752* people fully vaccinated with a population of 3,285,874 (Appendix 29B). Dividing 2,249,752 by 3,285,874 means that Puerto Rico, as of September 28, 2021 has 68.46% of its total population fully vaccinated. *See Our World in Data, Coronavirus (COVID-19) Vaccinations, (Metric: People fully vaccinated), Share of People fully vaccinated Against Covid-19, <https://ourworldindata.org/covid-vaccinations>*; Puerto Rico Health Department COVID-19 Dashboard, *Vacunacion, <https://covid19datos.salud.gov.pr/#vacunacion>*

Conclusion

For the reasons stated, this Court should take judicial notice of the foregoing facts.


<p>Dated: October 10, 2021</p> <p>B&D LLC</p> <p>/s/José R. Dávila-Acevedo José R. Dávila-Acevedo jose@bdlawpr.com USDCPR No. 231511 1519 Ponce de Leon Ave. Ste. 501 San Juan, PR 00909 787-931-0941</p>	<p>Respectfully submitted,</p> <p>Puerto Rico Institute for Economic Liberty /s/ Arturo V. Bauermeister Arturo V. Bauermeister bauermeistera@ilepr.org USDCPR No. 302604 P.O. Box 363232 San Juan, PR 00936-3232 Tel: 787.721.5290 Fax: 787.721.5938</p>
	<p>Ilya Shapiro D.C. Bar. No. 489100 (admitted <i>pro hac vice</i>) 1000 Mass. Ave. NW Washington, DC 20001 202-577-1134</p>

Counsel for Plaintiff

Appendix 1

Data Table for COVID-19 Vaccinations in the United States

CDC | Data as of: September 28, 2021 6:00am ET. Posted: Tuesday, September 28, 2021 8:40 PM ET

Download Data 

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 where Administered ‡
Republic of Palau	31,055	173,424	28,477	204,180
Puerto Rico	4,662,993	146,006	4,292,984	163,794
Vermont	895,502	143,512	835,323	163,794
Massachusetts	9,769,275	141,738	9,056,309	163,480
District of Columbia	995,612	141,072	957,297	165,742
Connecticut	5,019,855	140,798	4,637,881	163,430
Guam	233,109	140,624	209,443	162,216
Rhode Island	1,455,889	137,431	1,358,239	158,883
Maine	1,816,872	135,163	1,705,991	155,746
New York State	25,812,074	132,686	24,167,647	156,676
New Mexico	2,772,232	132,211	2,561,678	158,032
Hawaii	1,867,242	131,879	1,747,519	156,587
Maryland	7,939,595	131,327	7,328,186	155,555
New Jersey	11,495,521	129,422	10,651,619	153,402
New Hampshire	1,746,185	128,423	1,630,051	147,588
California	50,470,695	127,734	46,577,217	152,126
Virginia	10,840,698	127,007	10,006,395	149,916
Pennsylvania	16,124,617	125,954	15,154,722	149,052
Washington	9,541,969	125,307	8,888,968	149,348
Florida	26,670,874	124,179	25,195,408	146,079
Colorado	7,148,674	124,136	6,628,867	147,334
Oregon	5,211,759	123,568	4,862,680	145,104
Northern Mariana Islands	69,793	122,698	61,280	138,317
Delaware	1,192,588	122,472	1,114,593	144,716
Illinois	15,262,134	120,442	14,121,602	143,309
Minnesota	6,632,771	117,610	6,139,103	141,569
Wisconsin	6,762,106	116,139	6,342,458	139,216
Arizona	8,187,828	112,490	7,628,873	135,300
Nebraska	2,161,391	111,734	2,009,550	137,798
Texas	32,174,773	110,963	29,544,784	136,806
American Samoa	61,778	110,934	51,537	118,817
Nevada	3,385,621	109,917	3,171,540	132,838
Kentucky	4,898,616	109,646	4,606,920	132,963
Iowa	3,441,749	109,086	3,226,511	132,875
Alaska	787,670	107,672	730,382	132,421
South Dakota	951,491	107,555	890,632	133,416
North Carolina	11,241,064	107,179	10,517,033	128,454
Utah	3,416,616	106,571	3,097,102	136,150
Michigan	10,582,485	105,964	9,964,967	127,057
Kansas	3,071,611	105,434	2,864,121	129,419
Oklahoma	4,126,107	104,274	3,869,618	128,784
Ohio	12,035,855	102,966	11,349,374	124,567
Missouri	6,255,208	101,919	5,882,060	123,395
South Carolina	5,232,336	101,624	4,944,574	122,465
Montana	1,082,077	101,244	1,022,304	121,675
Tennessee	6,830,536	100,020	6,485,600	121,930
Indiana	6,718,522	99,797	6,317,639	122,334
Georgia	10,591,806	99,759	9,938,759	122,496
Arkansas	2,998,827	99,371	2,793,409	120,528
Virgin Islands	101,758	97,209	96,931	118,886
North Dakota	737,345	96,757	697,372	119,846
Louisiana	4,493,604	96,662	4,254,185	119,461
Mississippi	2,755,269	92,578	2,595,006	113,938
Alabama	4,511,086	92,003	4,279,056	112,168
Wyoming	517,584	89,430	490,859	110,299
Idaho	1,556,241	87,084	1,555,095	116,150
West Virginia	1,544,269	86,169	1,471,256	102,700
Indian Health Svc	1,634,986	78,499	1,496,791	N/A
Federated States of Micronesia	72,311	69,769	71,137	88,122
Marshall Islands	40,256	68,916	40,146	88,239
Bureau of Prisons	226,938	N/A	226,936	N/A
Dept of Defense	5,653,590	N/A	5,363,276	N/A
Veterans Health	5,661,019	N/A	5,658,097	N/A

Footnotes

+

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

Data Table for COVID-19 Vaccinations in the United States

CDC | Data as of: September 28, 2021 6:00am ET. Posted: Tuesday, September 28, 2021 8:40 PM ET

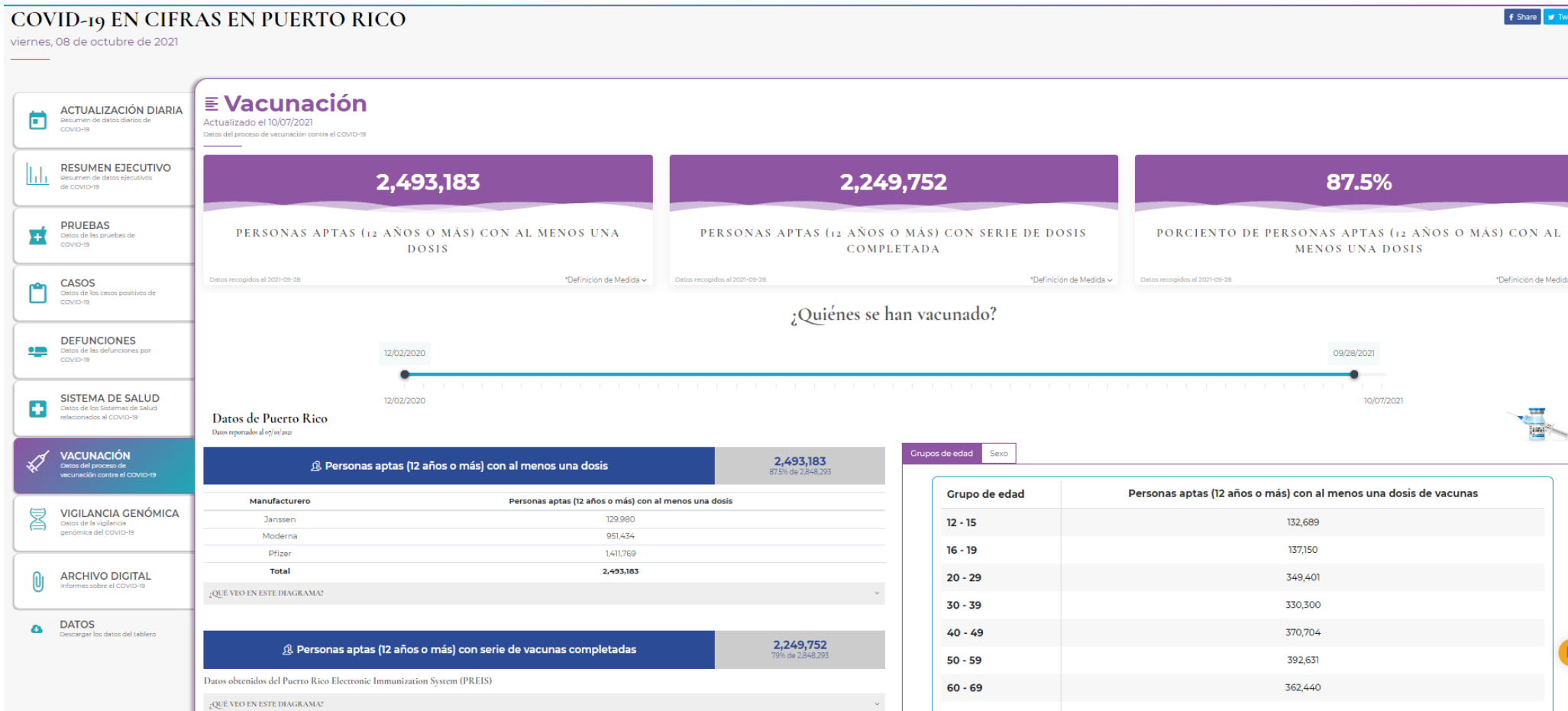
Download Data 

State/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 of Residence
Republic of Palau	15,517	86.7	14,267	99.9
Puerto Rico	2,240,528	70.2	2,069,020	78.9
Vermont	432,963	69.4	404,701	79.4
Connecticut	2,444,759	68.6	2,271,453	80
Maine	919,419	68.4	867,906	79.2
Rhode Island	720,999	68.1	674,590	78.9
Massachusetts	4,674,172	67.8	4,347,081	78.5
Guam	112,184	67.7	101,621	78.7
New Jersey	5,702,305	64.2	5,310,937	76.5
Maryland	3,868,664	64	3,587,337	76.1
New York State	12,363,963	63.6	11,608,184	75.3
New Mexico	1,319,845	62.9	1,220,686	75.3
New Hampshire	835,382	61.4	787,843	71.3
Washington	4,619,303	60.7	4,319,365	72.6
Oregon	2,555,875	60.6	2,394,945	71.5
Virginia	5,157,759	60.4	4,778,349	71.6
District of Columbia	423,558	60	406,466	70.4
Northern Mariana Islands	34,034	59.8	29,935	67.6
Colorado	3,411,538	59.2	3,170,044	70.5
California	23,255,045	58.9	21,514,521	70.3
Minnesota	3,273,631	58	3,039,540	70.1
Hawaii	817,134	57.7	770,508	69
Pennsylvania	7,382,475	57.7	6,972,720	68.6
Delaware	558,004	57.3	524,854	68.1
Florida	12,263,256	57.1	11,623,673	67.4
Wisconsin	3,279,448	56.3	3,088,570	67.8
Texas	15,971,094	55.1	13,620,417	63.1
Nebraska	1,055,253	54.6	984,678	67.5
Iowa	1,700,199	53.9	1,601,113	65.9
Illinois	6,764,764	53.4	6,291,360	63.8
Michigan	5,213,156	52.2	4,926,911	62.8
Kentucky	2,326,792	52.1	2,198,387	63.4
South Dakota	456,108	51.6	430,543	64.5
Arizona	3,710,533	51	3,465,386	61.5
Kansas	1,484,369	51	1,389,533	62.8
American Samoa	28,253	50.7	23,759	54.8
Nevada	1,559,609	50.6	1,470,179	61.6
Alaska	368,741	50.4	342,997	62.2
Utah	1,616,191	50.4	1,476,153	64.9
Ohio	5,858,907	50.1	5,543,155	60.8
North Carolina	5,204,678	49.6	4,889,737	59.7
Indiana	3,251,613	48.3	3,070,412	59.5
Montana	516,653	48.3	490,426	58.4
Missouri	2,925,218	47.7	2,760,993	57.9
Oklahoma	1,876,006	47.4	1,764,078	58.7
South Carolina	2,423,527	47.1	2,296,635	56.9
Arkansas	1,369,877	45.4	1,281,058	55.3
Louisiana	2,103,718	45.3	2,000,508	56.2
Tennessee	3,089,285	45.2	2,942,618	55.3
Georgia	4,785,984	45.1	4,514,285	55.6
Virgin Islands	46,270	44.2	44,140	54.1
North Dakota	334,704	43.9	318,158	54.7
Mississippi	1,282,482	43.1	1,212,750	53.2
Alabama	2,081,567	42.5	1,984,404	52
Idaho	741,162	41.5	739,732	55.3
Wyoming	239,864	41.4	228,535	51.4
West Virginia	723,491	40.4	692,667	48.4
Federated States of Micronesia	38,425	37.1	37,907	47
Indian Health Svc	746,941	35.9	685,985	N/A
Marshall Islands	19,633	33.6	19,594	43.1
Bureau of Prisons	116,057	N/A	116,056	N/A
Dept of Defense	2,351,246	N/A	2,228,465	N/A
Veterans Health	2,826,627	N/A	2,825,343	N/A

Footnotes

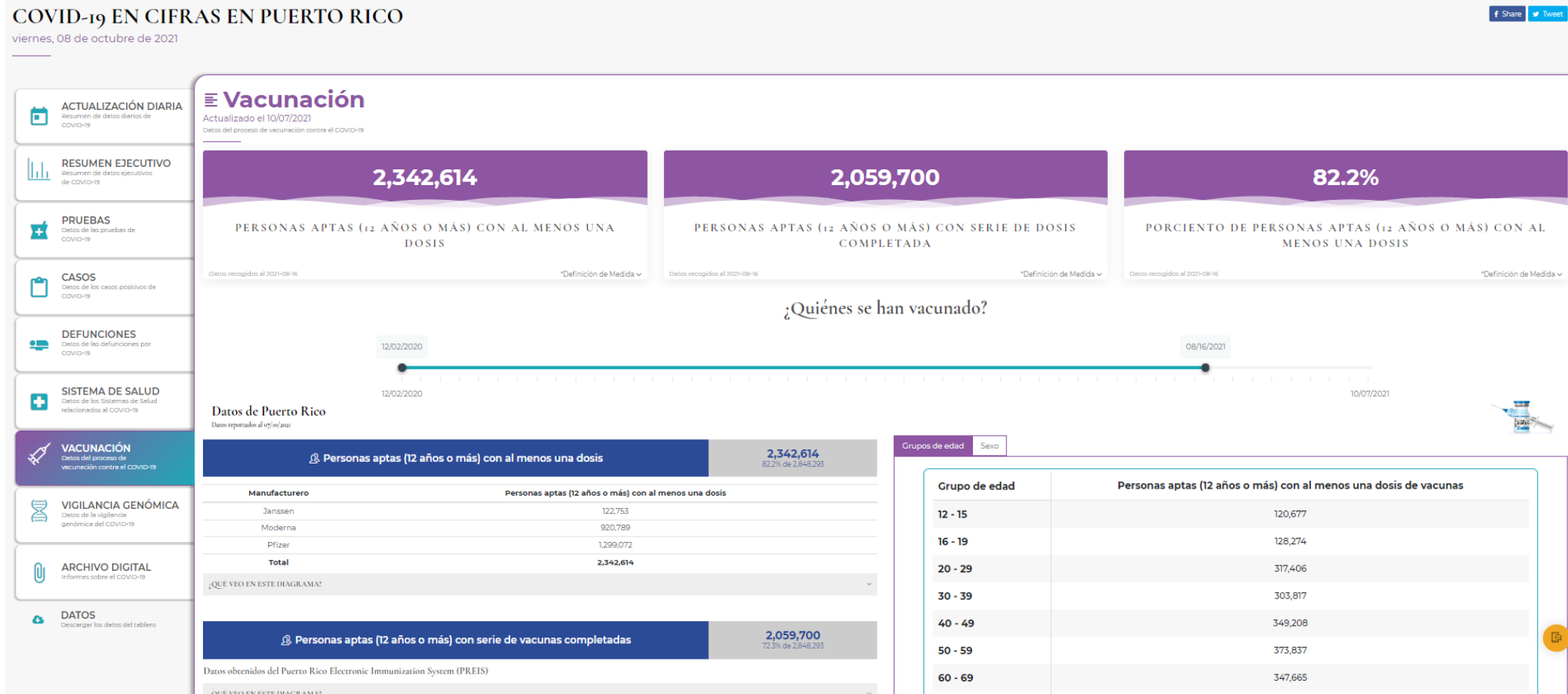
CDC, COVID-19 Vaccinations in the United States (View: People, Show: Fully Vaccinated, Metric: % of the Population, Population: Total Population), *Data Table for COVID-19 Vaccinations in the United States | Percent of Total Pop Fully Vaccinated by State of Residence*, https://covid.cdc.gov/covid-data-tracker/#vaccinations_vacc-people-fully-percent-total.

Appendix 3A



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

Appendix 3B



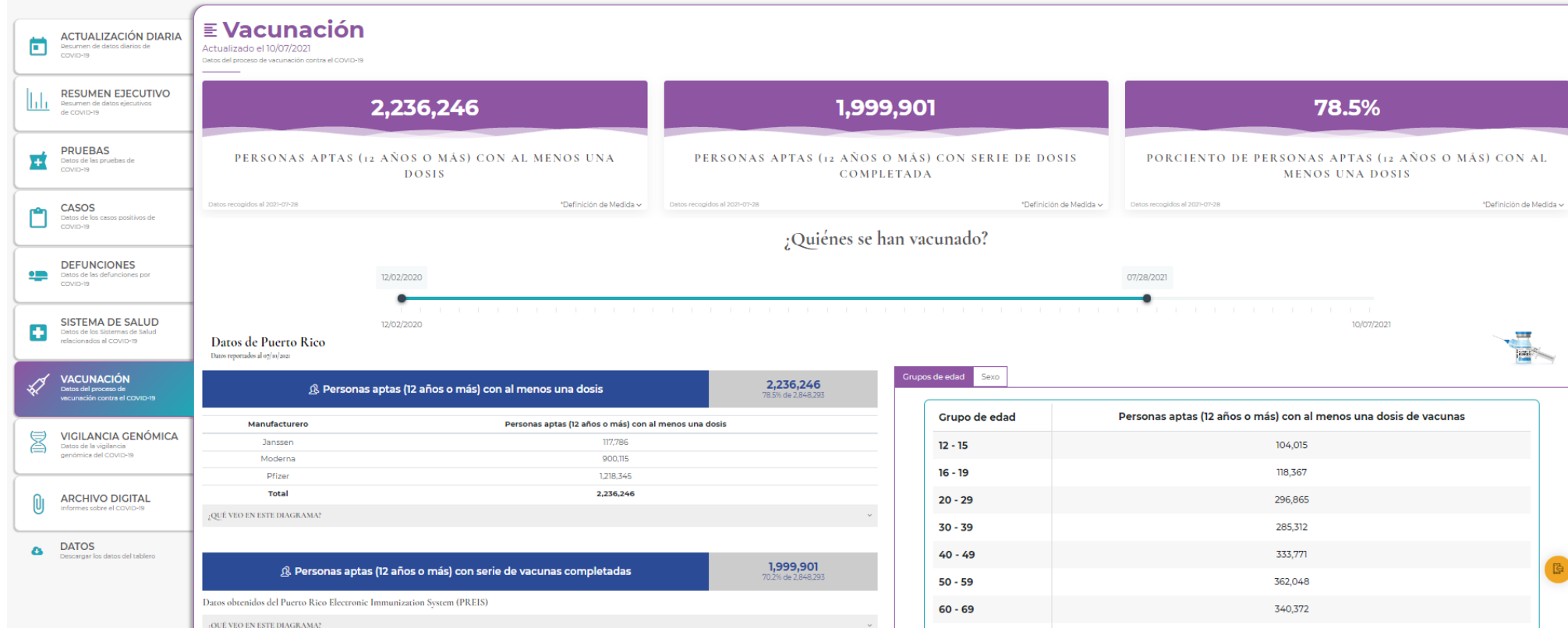
Puerto Rico Health Department COVID-19 Dashboard, *Vacunacion*, <https://covid19datos.salud.gov.pr/#vacunacion>

Appendix 3C

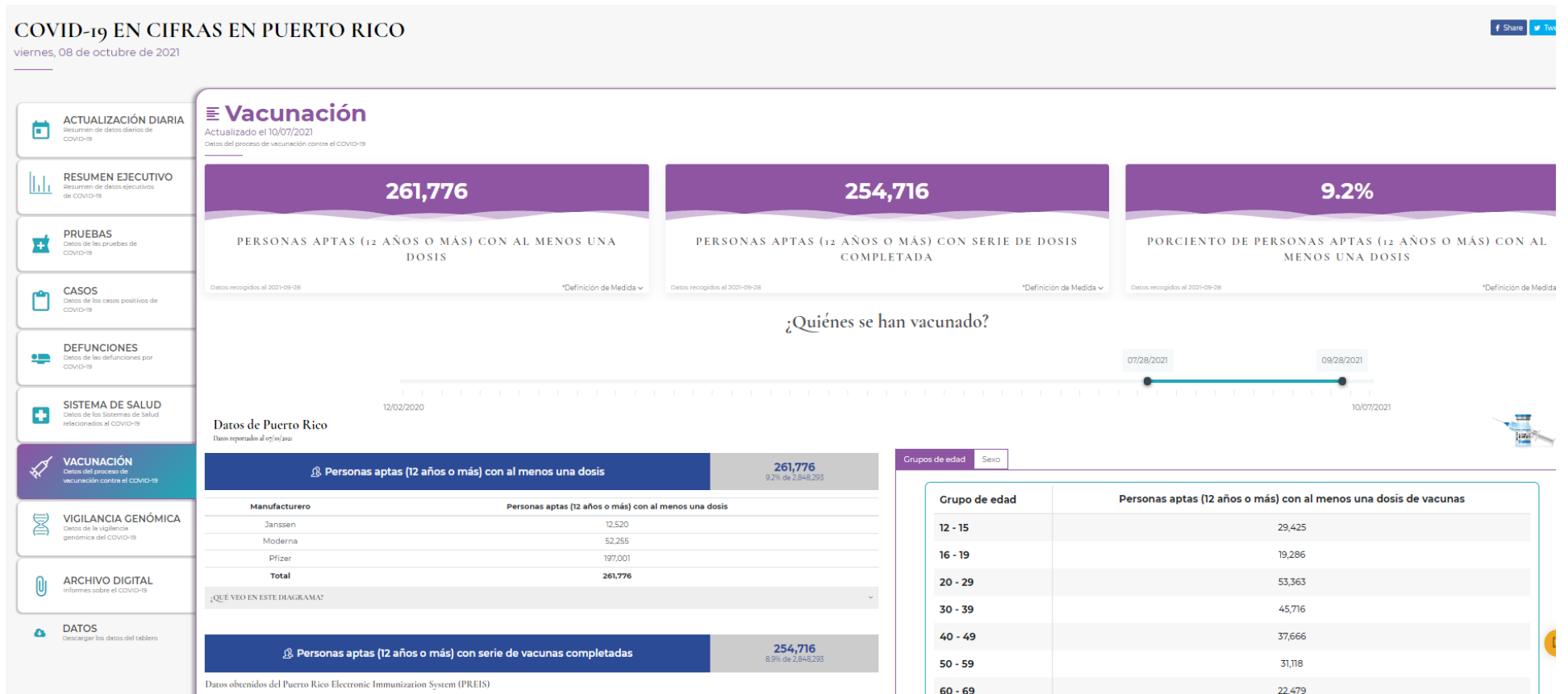
COVID-19 EN CIFRAS EN PUERTO RICO

viernes, 08 de octubre de 2021

f Share t Tweet

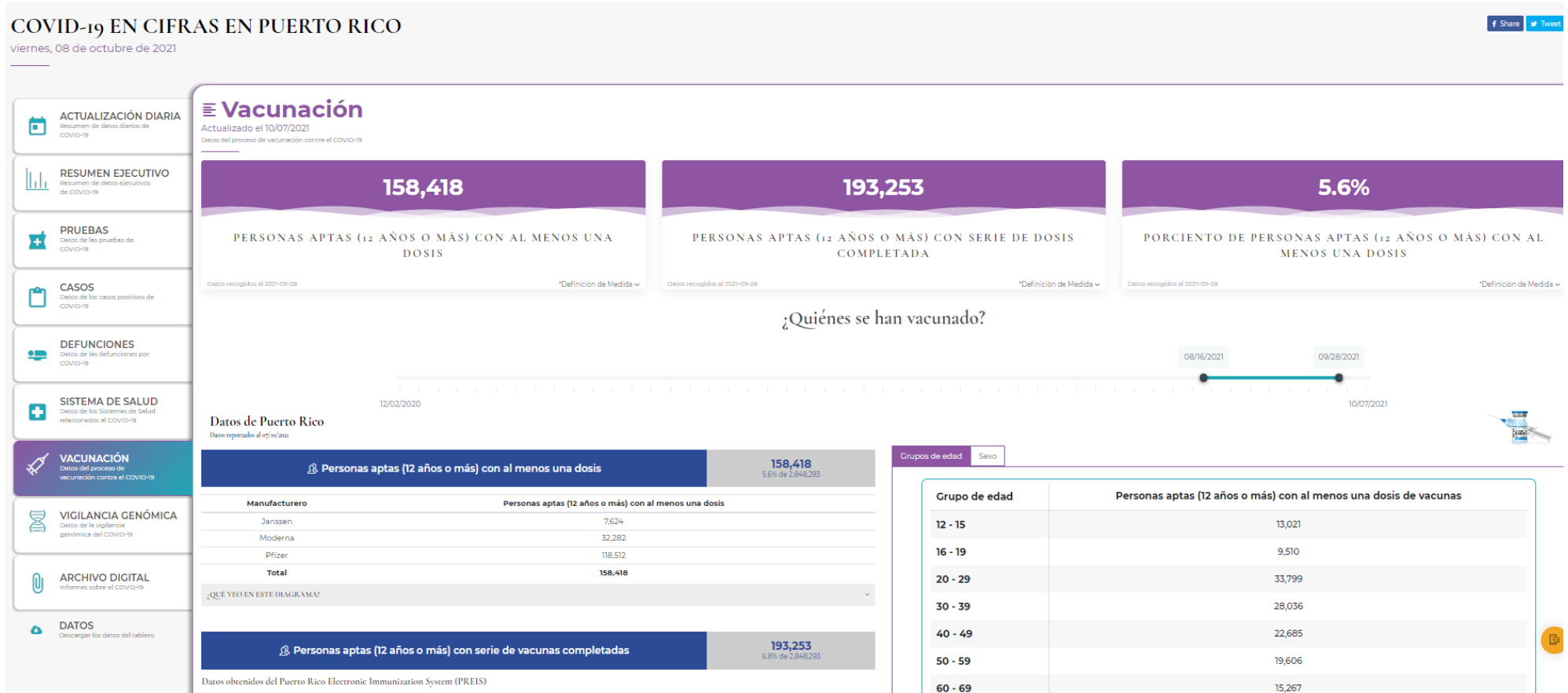
Puerto Rico Health Department COVID-19 Dashboard, Vacunacion, <https://covid19datos.salud.gov.pr/#vacunacion>

Appendix 4A



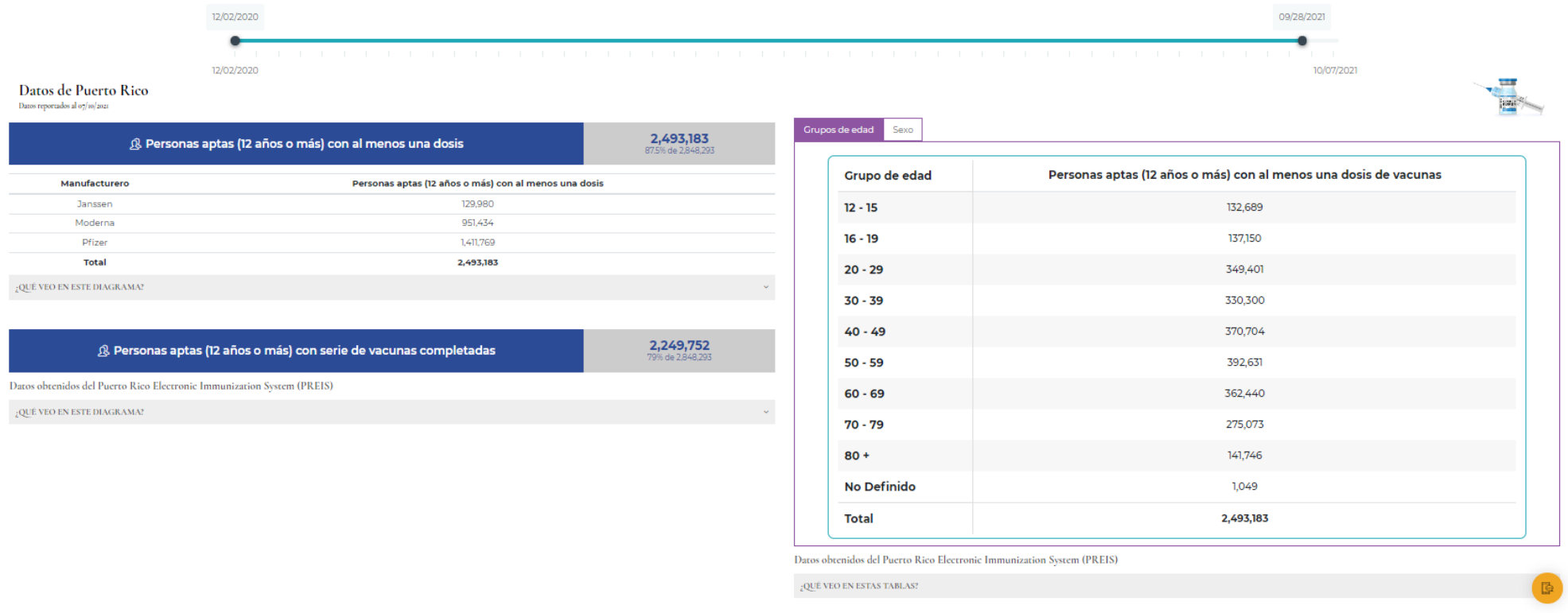
Puerto Rico Health Department COVID-19 Dashboard, *Vacunacion*, <https://covid19datos.salud.gov.pr/#vacunacion>.

Appendix 4B



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

Appendix 5



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

Appendix 6A

COVID-19 EN CIFRAS EN PUERTO RICO

viernes, 08 de octubre de 2021



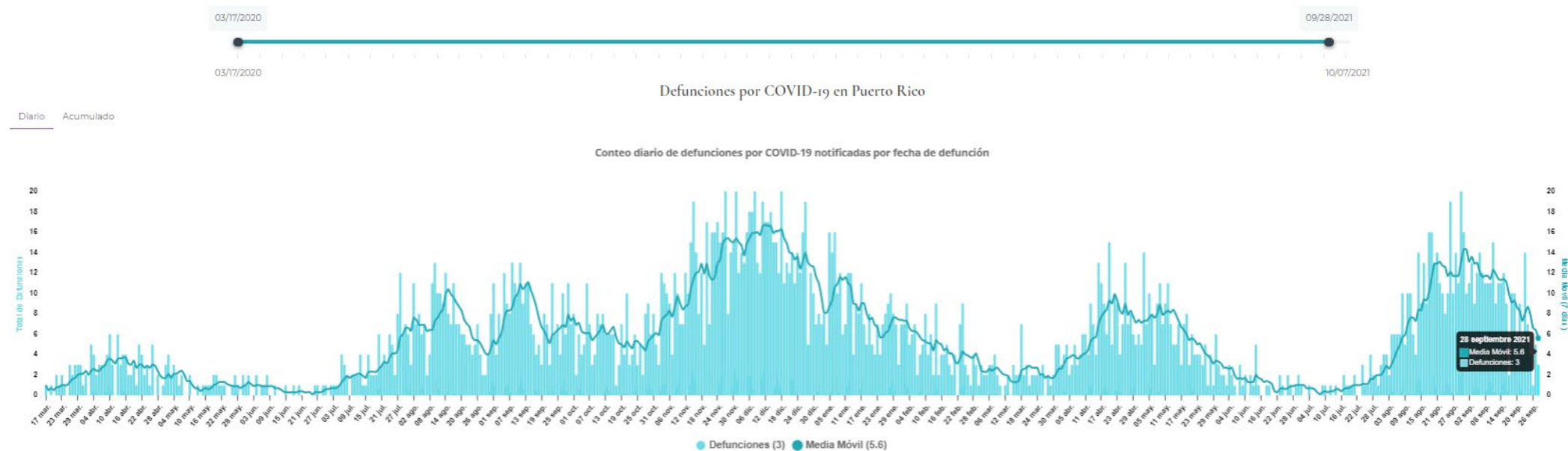
COVID-19 EN CIFRAS EN PUERTO RICO

viernes, 08 de octubre de 2021

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

Appendix 6B

Defunciones por COVID-19 a través del tiempo con media móvil



Puerto Rico Health Department COVID-19 Dashboard, *Defunciones*, <https://covid19datos.salud.gov.pr/#defunciones>

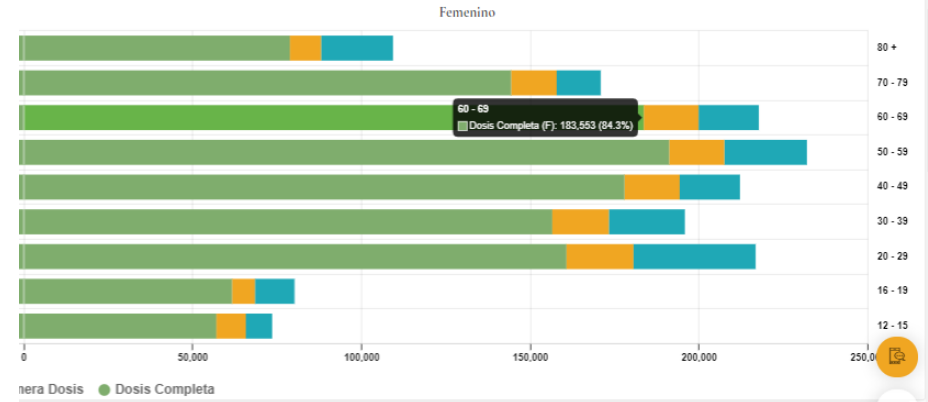
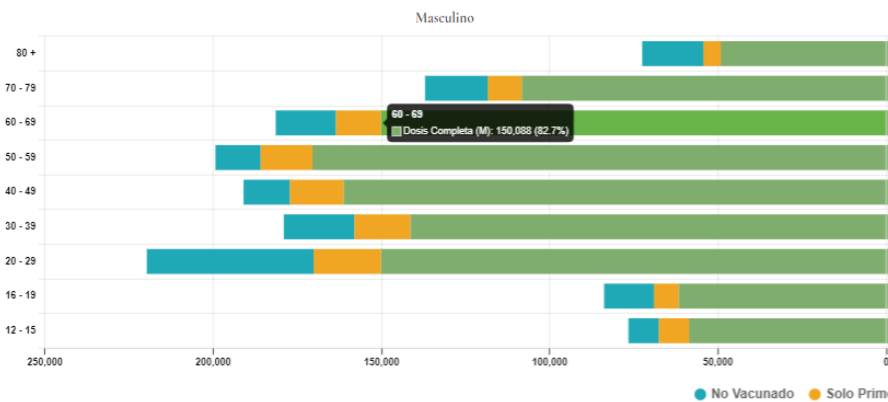
Appendix 7A



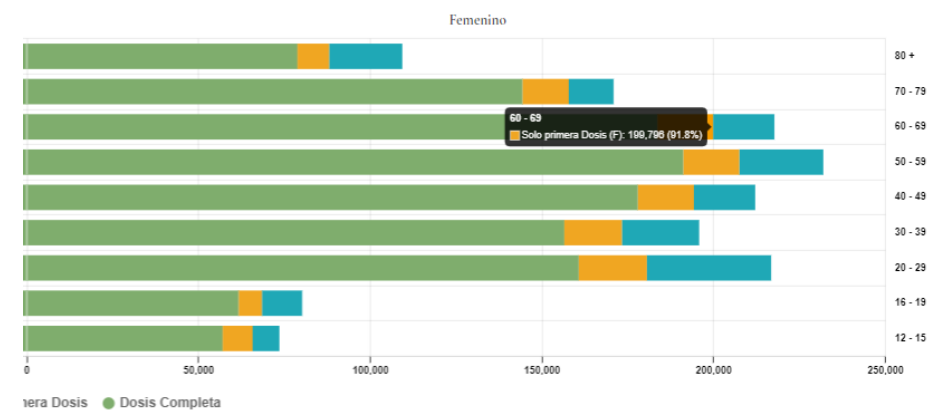
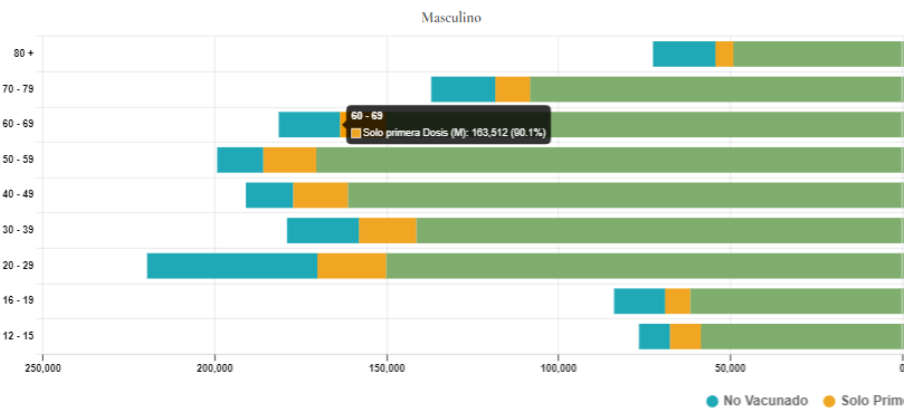
Puerto Rico Health Department COVID-19 Dashboard, *Vacunacion*, <https://covid19datos.salud.gov.pr/#vacunacion>

Appendix 7B

Distribución de la población por sexo y grupo de edad

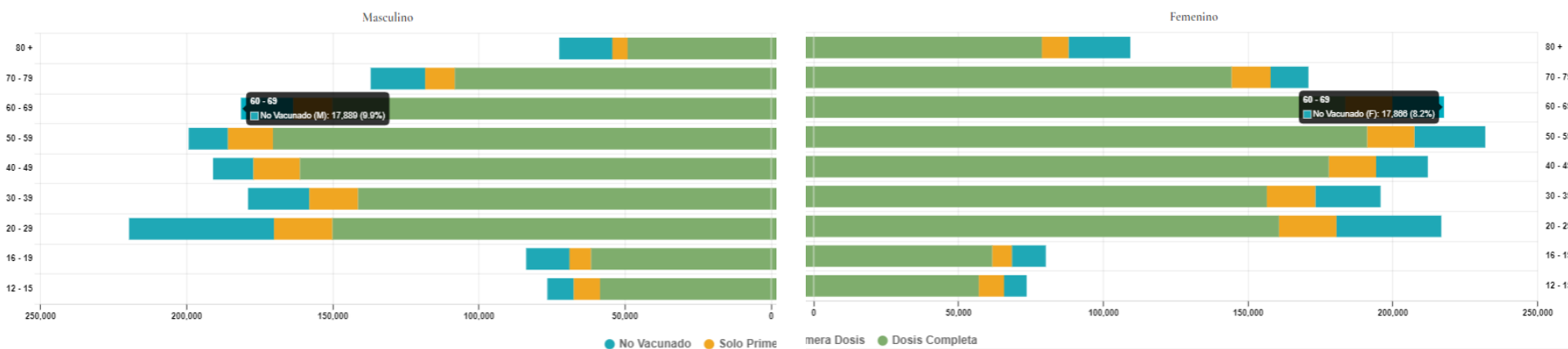


Distribución de la población por sexo y grupo de edad



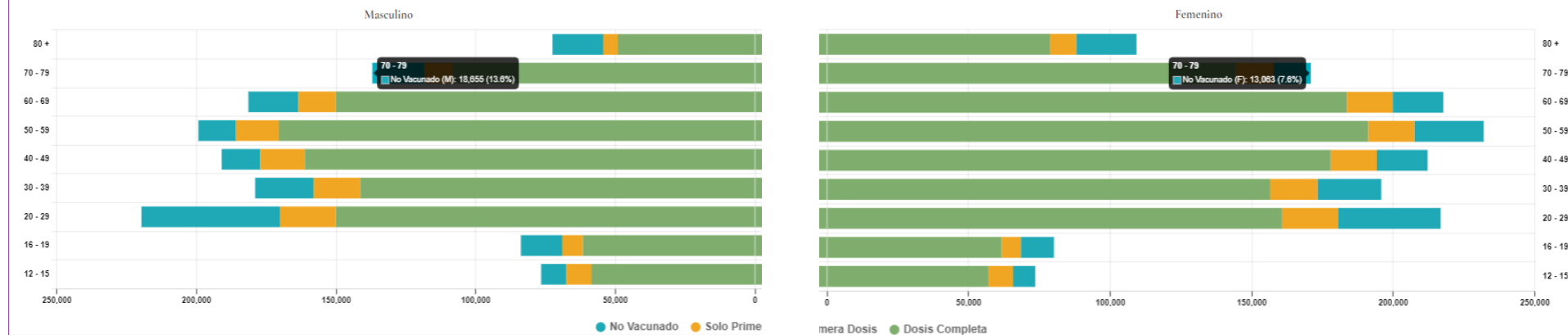
Appendix 7C

Distribución de la población por sexo y grupo de edad



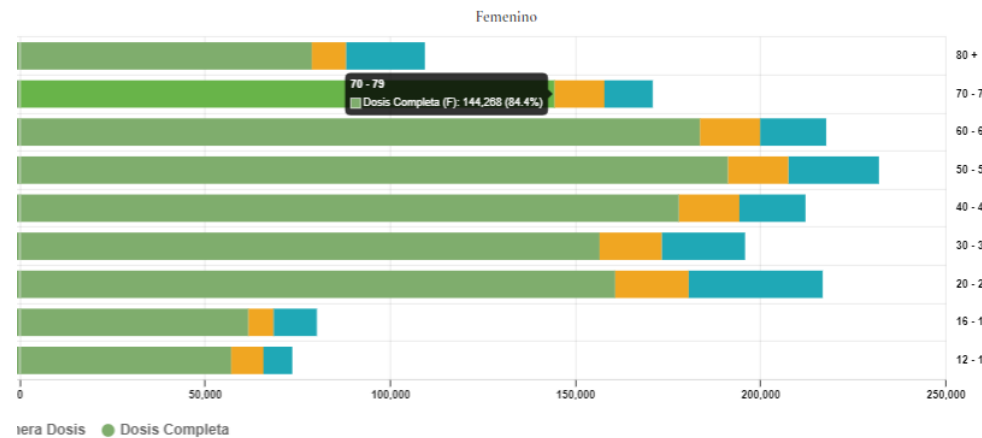
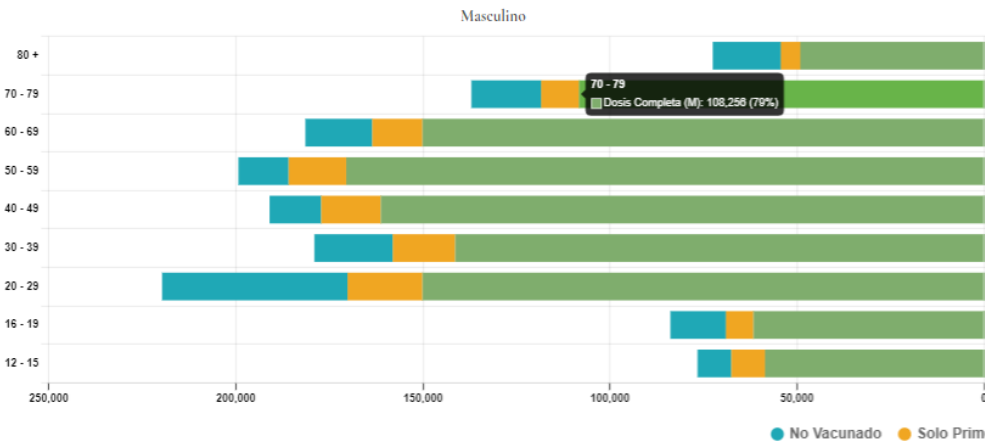
Distribución de la población

ón por sexo y grupo de edad

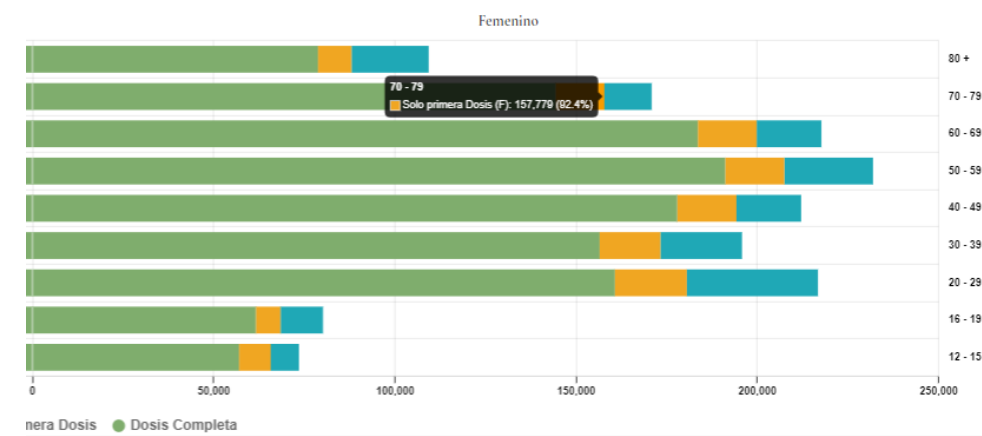
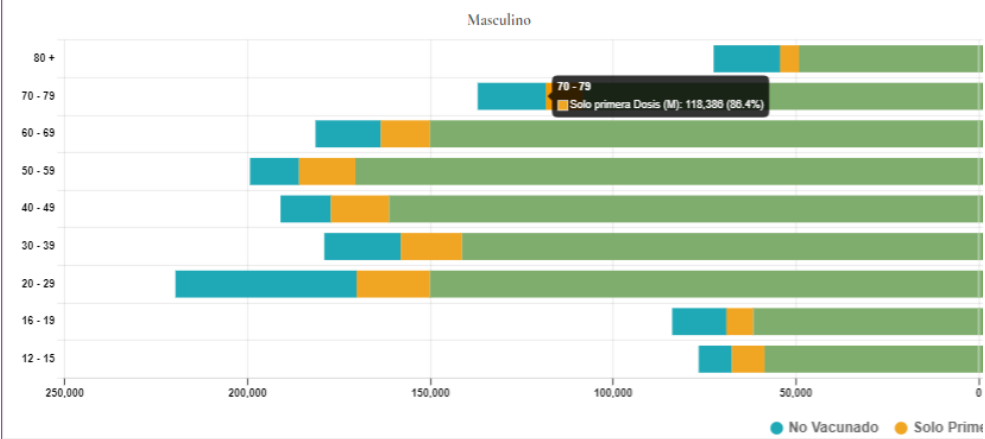


Appendix 7D

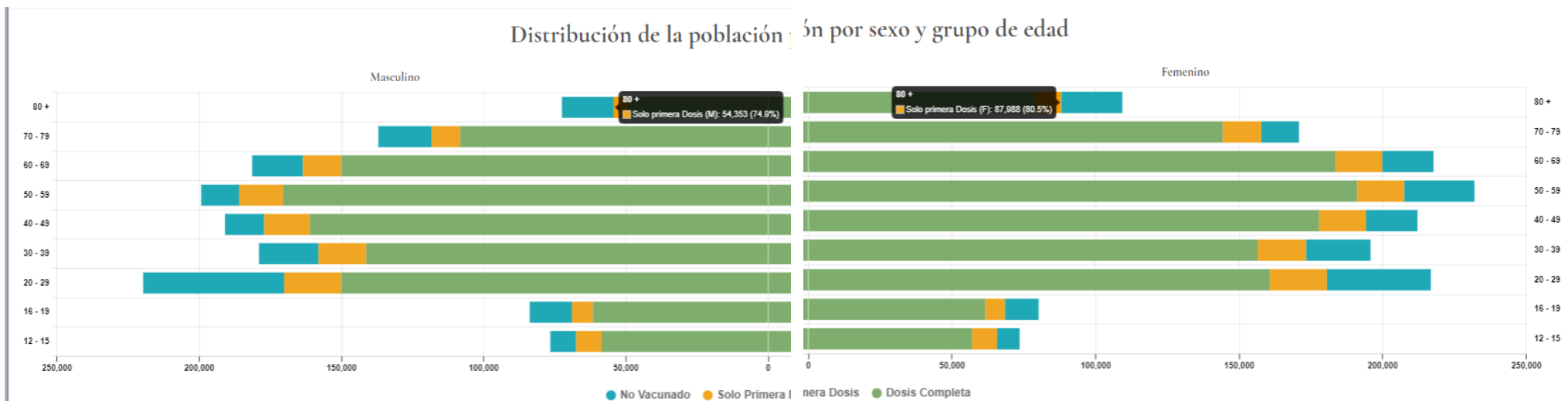
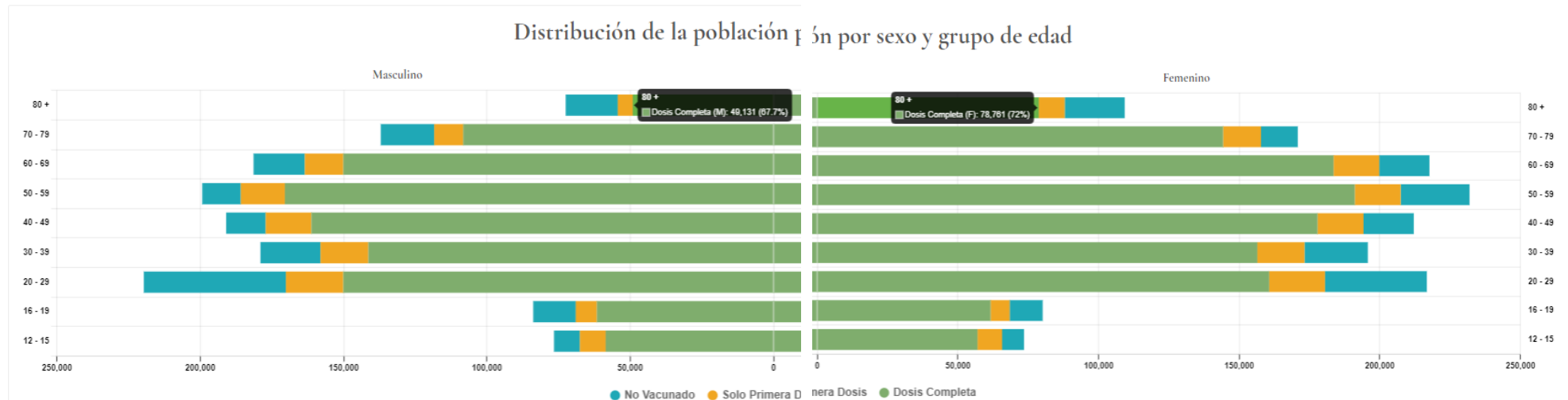
Distribución de la población por sexo y grupo de edad



Distribución de la población por sexo y grupo de edad

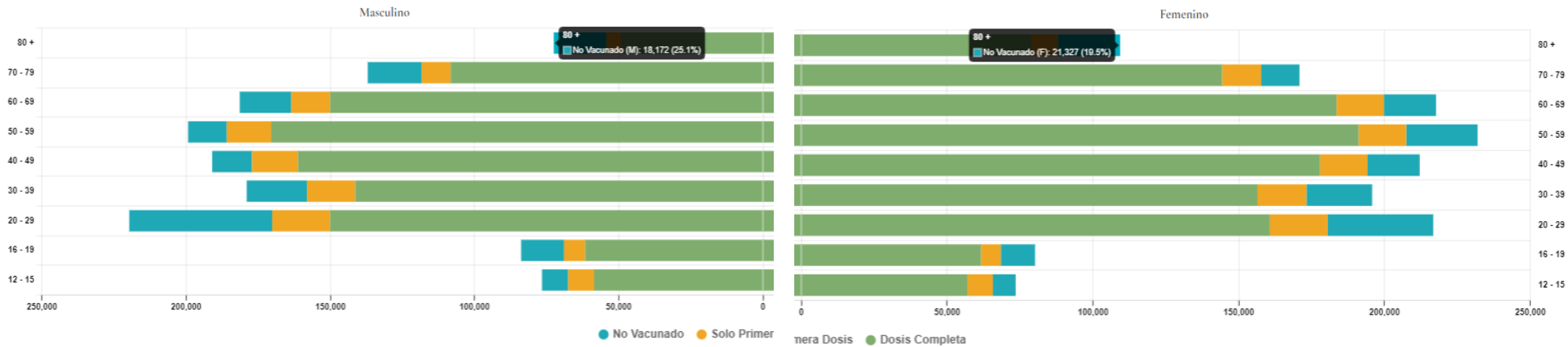


Appendix 7E



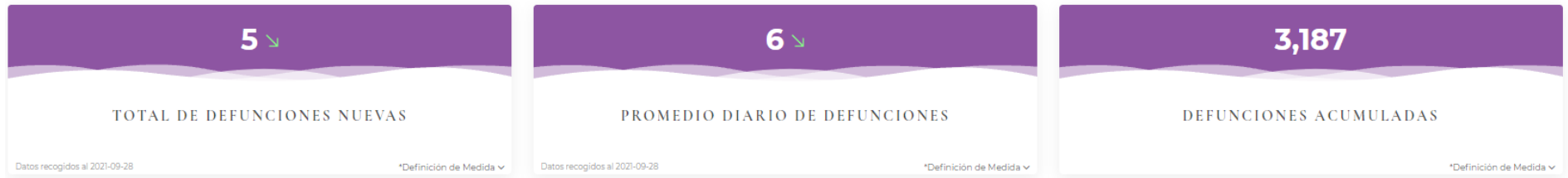
Appendix 7F

Distribución de la población por sexo y grupo de edad



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

Appendix 8



Defunciones por COVID-19 a través del tiempo con media móvil



Pirámide de defunciones por COVID-19 por grupos de edad y sexo

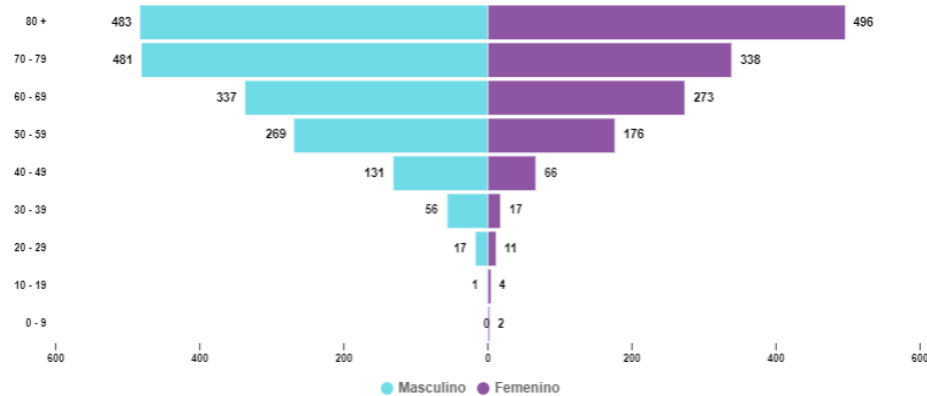
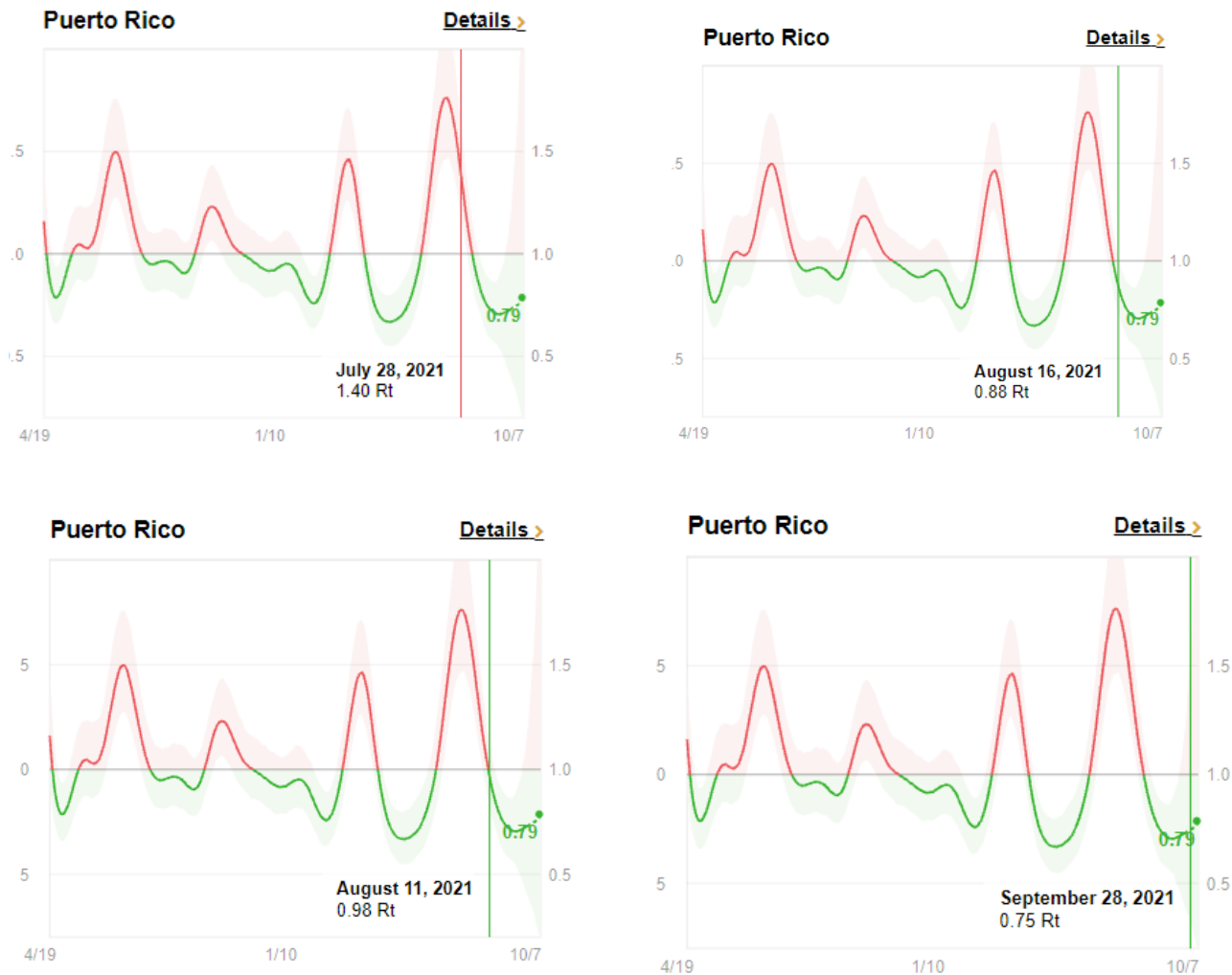


Tabla de defunciones por COVID-19 por grupos de edad y sexo

Edades	Masculino	Femenino	Total
80 +	483 (15.3%)	496 (15.7%)	979 (31%)
70 - 79	481 (15.2%)	338 (10.7%)	819 (25.9%)
60 - 69	337 (10.7%)	273 (8.6%)	610 (19.3%)
50 - 59	269 (8.5%)	176 (5.6%)	445 (14.1%)
40 - 49	131 (4.1%)	66 (2.1%)	197 (6.2%)
30 - 39	56 (1.8%)	17 (0.5%)	73 (2.3%)
20 - 29	17 (0.5%)	11 (0.3%)	28 (0.9%)
10 - 19	1 (0%)	4 (0.1%)	5 (0.2%)
0 - 9	0 (0%)	2 (0.1%)	2 (0.1%)
Total	1,775 (56%)	1,383 (44%)	3,158 (100%)

Puerto Rico Health Department COVID-19 Dashboard, *Defunciones*, <https://covid19datos.salud.gov.pr/#defunciones>

Appendix 9



Yale SCHOOL OF PUBLIC HEALTH
Epidemiology of Microbial Diseases



**HARVARD
T.H. CHAN**

SCHOOL OF PUBLIC HEALTH
Department of Global Health
and Population



Stanford MEDICINE

This project was supported by [Cooperative Agreement N038OT000297](#) from the Centers for Disease Control and Prevention (CDC) and the Council of State and Territorial Epidemiologists (CSTE), and does not necessarily represent the views of CDC or CSTE.

The effective reproduction number (R_t) is an important metric of epidemic growth. R_t is the average number of people that an individual infected on day t is expected to go on to infect. When R_t is above 1, we expect cases to increase in the near future. When R_t is below one, we expect cases to decrease in the near future.

Calculating R_t from the reported number of reported cases is complicated. People are typically diagnosed after they have already spread the disease, and many are not diagnosed at all. As diagnostic guidelines loosen and testing availability improves, we expect to see more cases, though the underlying incidence of disease may or may not have changed. Lags in diagnosis, diagnostic delays, and changing diagnostic guidelines will all impact case reports, and bias estimates of R_t .

We can avoid these biases by estimating R_t from the number of new infections each day. We estimate new infections using a statistical model that combines information about reported cases, reported deaths, the percentage of the population vaccinated, disease stage duration, and disease severity and mortality risks. **Our infections metric takes into account the delays mentioned above, and includes individuals who haven't tested positive.** Once we estimate the number of new infections each day, we can use that number to produce a more robust estimate of R_t . **Present-day estimates of R_t are highly uncertain, and can change dramatically over time.** We feel most confident about results for dates which are at least 14 days in the past. Additionally, R_t is easy to misinterpret. In many cases, we expect users will find our *Infections per capita* metric to be more useful. See [here](#) for a discussion of the pitfalls of R_t .

Contributors to this project include: [Melanie H. Chitwood](#), [Ted Cohen](#), [Kenneth Gunasekera](#), [Joshua Havumaki](#), [Fayette Klaassen](#), [Nicolas A. Menzies](#), [Virginia E. Pitzer](#), [Marcus Russi](#), [Joshua Salomon](#), [Nicole Swartwood](#), [Joshua L. Warren](#), and [Daniel M. Weinberger](#).

Compute and computational support provided by the [Yale Center for Research Computing](#). We use [Nextflow](#) for orchestration.

Original site built by [Mike Krieger](#), with thanks to Ryan O'Rourke and Thomas Dimson.

Visualizations built using [d3](#) and [react-vis](#); site built using [Next.js](#).

Appendix 10

Data Table for Cumulative COVID-19 Nucleic Acid Amplification Tests (NAATs) Performed per 100k by State/Territory

CDC | Data as of: September 28, 2021 4:50 PM ET. Posted: September 28, 2021 8:40 PM ET

Download Data 

State †	Cumulative Tests Performed per 100K ‡	Cumulative Percent Positivity ‡
Alaska	423,696.01	5-7.9%
Rhode Island	414,989.04	3-4.9%
District of Columbia	373,340.52	3-4.9%
Vermont	345,589.75	< 3%
Connecticut	299,913.86	5-7.9%
New York*	290,098.75	5-7.9%
Delaware	258,847.32	5-7.9%
North Dakota	238,712.2	5-7.9%
Maryland	226,652.8	8-9.9%
Illinois	203,873.37	5-7.9%
Maine	200,372.04	3-4.9%
New Jersey	196,866.58	5-7.9%
Wisconsin	195,887.05	8-9.9%
West Virginia	194,107.85	8-9.9%
Florida	184,588.68	10-14.9%
New Hampshire	180,034.36	3-4.9%
Louisiana	176,438.71	8-9.9%
Colorado	173,936.52	5-7.9%
Wyoming	173,150.31	5-7.9%
New Mexico	171,745.91	8-9.9%
South Carolina	168,989.5	10-14.9%
Michigan	164,373.84	5-7.9%
Hawaii	164,291.48	3-4.9%
Utah	158,044.33	10-14.9%
Indiana	153,809.21	10-14.9%
North Carolina	145,636.52	8-9.9%
Pennsylvania	140,491.61	8-9.9%
Montana	140,027.4	10-14.9%
Arizona	139,487.07	10-14.9%
Nevada	135,502.2	10-14.9%
Kentucky	135,483.86	10-14.9%
Iowa	134,718.09	10-14.9%
Ohio	134,141	8-9.9%
Kansas	132,912.45	10-14.9%
Nebraska	120,782.48	10-14.9%
Texas	119,680.42	10-14.9%
Virginia	118,802.78	10-14.9%
Idaho	118,044	15-19.9%
Alabama	117,148.69	10-14.9%
Oregon	117,027.76	5-7.9%
Arkansas	116,849.04	8-9.9%
Washington	106,988.23	N/A
Guam	104,969.54	5-7.9%
Georgia	103,986.52	10-14.9%
South Dakota	87,246.72	10-14.9%
Oklahoma	74,335.75	20-24.9%
Mississippi	61,783.67	10-14.9%
Puerto Rico	49,131.79	5-7.9%
Virgin Islands	41,468.75	8-9.9%
American Samoa	N/A	N/A
California	N/A	N/A
Federated States of Micronesia	N/A	N/A
Massachusetts	N/A	N/A
Minnesota	N/A	N/A
Missouri	N/A	N/A
New York (Level of Community Transmission)*	N/A	N/A
New York City*	N/A	N/A
Northern Mariana Islands	N/A	N/A
Palau	N/A	N/A
Republic of Marshall Islands	N/A	N/A
Tennessee	N/A	N/A

Footnotes

+

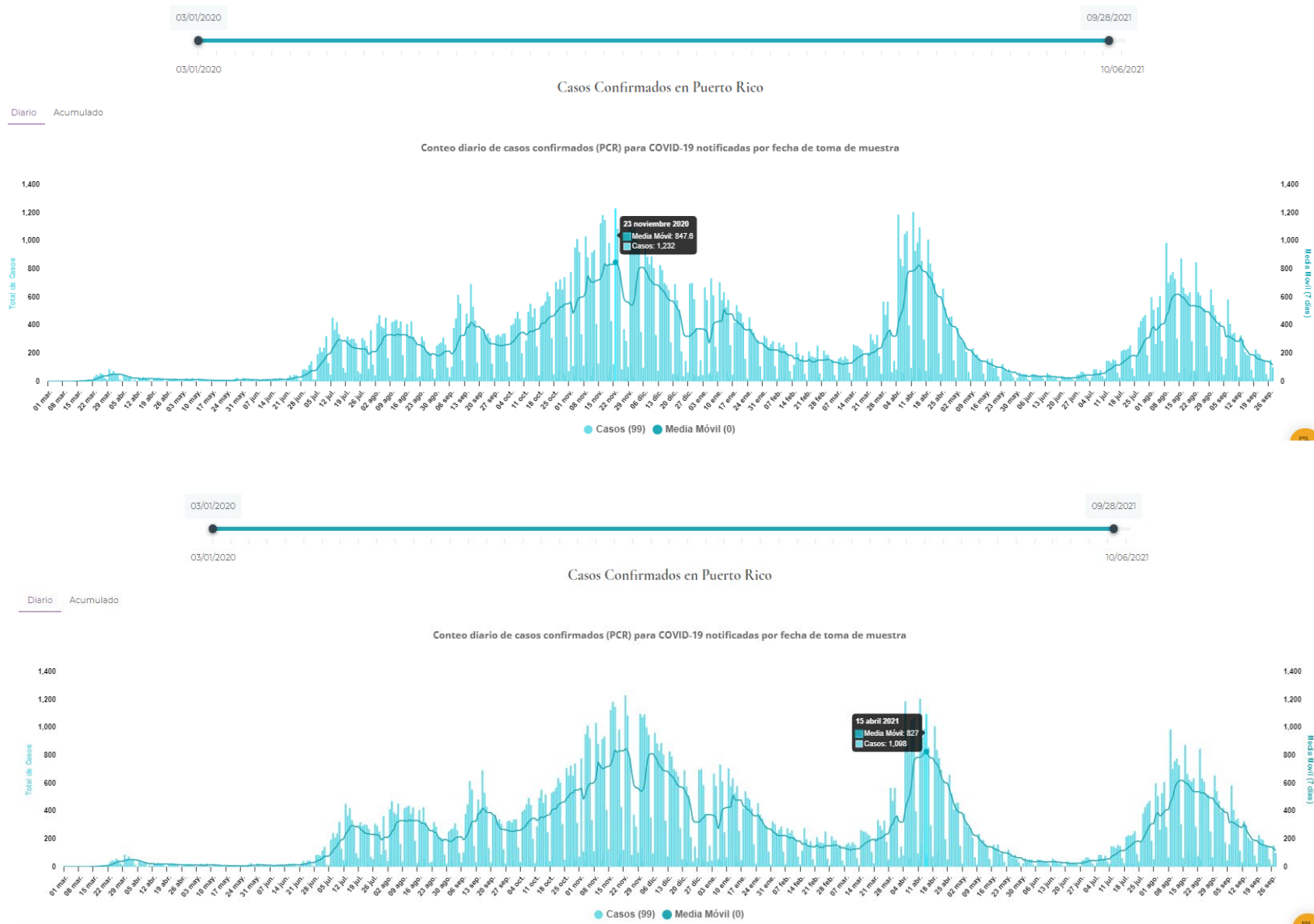
CDC, Cases, Deaths and Testing (View: Tests Performed, Time Period: All Time, Metric: Rate per 100,000), *Data Table for Cumulative COVID-19 Nucleic Acid Amplification Tests (NAATs) Performed per 100k by State/Territory*, https://covid.cdc.gov/covid-data-tracker/#cases_testsper100k

Appendix 11

Data Table for COVID-19 Nucleic Acid Amplification Tests (NAATs) Performed in Last 30 Days per 100k by State/Territory			
CDC Data as of: September 28, 2021 4:50 PM ET. Posted: September 28, 2021 8:40 PM ET			Download Data
State	# Tests Performed Last 30 Days per 100K	30-day Percent Positivity	
District of Columbia	44,768.89	3-4.9%	
Rhode Island	34,717.72	< 3%	
Vermont	31,816.43	3-4.9%	
South Carolina	20,695.98	10-14.9%	
West Virginia	20,609.69	10-14.9%	
New York*	20,206.91	3-4.9%	
Hawaii	19,121.79	5-7.9%	
Alaska	18,457.1	8-9.9%	
Illinois	17,710.35	3-4.9%	
Delaware	17,478.77	8-9.9%	
Wyoming	15,891.93	10-14.9%	
Kentucky	15,736.11	10-14.9%	
North Carolina	15,556.74	10-14.9%	
Maryland	15,103.78	5-7.9%	
Connecticut	14,731.35	3-4.9%	
Wisconsin	14,382.03	8-9.9%	
Colorado	14,129.98	5-7.9%	
Florida	14,023.9	10-14.9%	
Guam	13,646.02	10-14.9%	
New Hampshire	12,854.06	5-7.9%	
Idaho	12,685.05	20-24.9%	
New Jersey	12,632.99	5-7.9%	
New Mexico	12,563.73	8-9.9%	
North Dakota	11,846.41	8-9.9%	
Montana	11,686.15	15-19.9%	
Maine	11,495.81	5-7.9%	
Kansas	11,440.89	10-14.9%	
Indiana	11,261.19	10-14.9%	
Utah	11,105.39	10-14.9%	
Ohio	10,751.13	10-14.9%	
Virginia	10,649.58	10-14.9%	
Arizona	10,369.15	10-14.9%	
Pennsylvania	10,245.59	8-9.9%	
Texas	10,116.24	10-14.9%	
Michigan	9,913.2	8-9.9%	
Iowa	9,877.21	10-14.9%	
Oregon	9,703.88	10-14.9%	
Georgia	8,896.2	10-14.9%	
Nevada	8,671.35	10-14.9%	
Louisiana	8,333.88	8-9.9%	
Alabama	8,325.22	15-19.9%	
Arkansas	7,908.7	8-9.9%	
South Dakota	7,347.12	15-19.9%	
Puerto Rico	5,930.5	5-7.9%	
Oklahoma	5,749.32	15-19.9%	
Nebraska	5,621.2	10-14.9%	
Mississippi	4,727.99	15-19.9%	
Washington	3,616.98	N/A	
Virgin Islands	1,847.67	10-14.9%	
American Samoa	N/A	N/A	
California	N/A	N/A	
Federated States of Micronesia	N/A	N/A	
Massachusetts	N/A	N/A	
Minnesota	N/A	N/A	
Missouri	N/A	N/A	
New York (Level of Community Transmission)*	N/A	N/A	
New York City*	N/A	N/A	
Northern Mariana Islands	N/A	N/A	
Palau	N/A	N/A	
Republic of Marshall Islands	N/A	N/A	
Tennessee	N/A	N/A	
Footnotes			

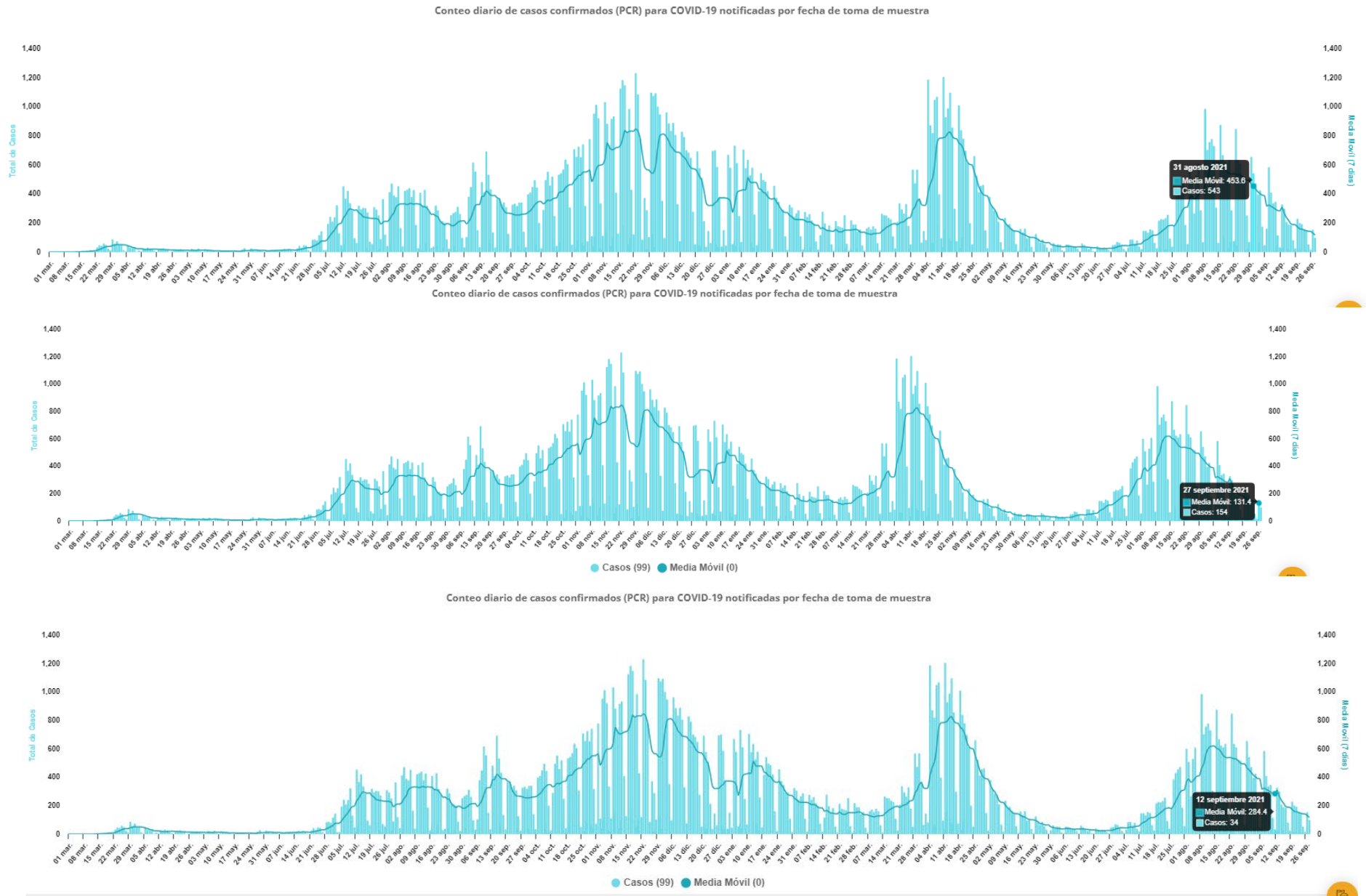
Cases, Deaths and Testing (View: Tests Performed, Time Period: Last 30 Days, Metric: Rate per 100,000), *Data Table for COVID-19 Nucleic Acid Amplification Tests (NAATs) Performed in Last 30 Days per 100k by State/Territory*, https://covid.cdc.gov/covid-data-tracker/#cases_testsper100k30day

Appendix 12



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

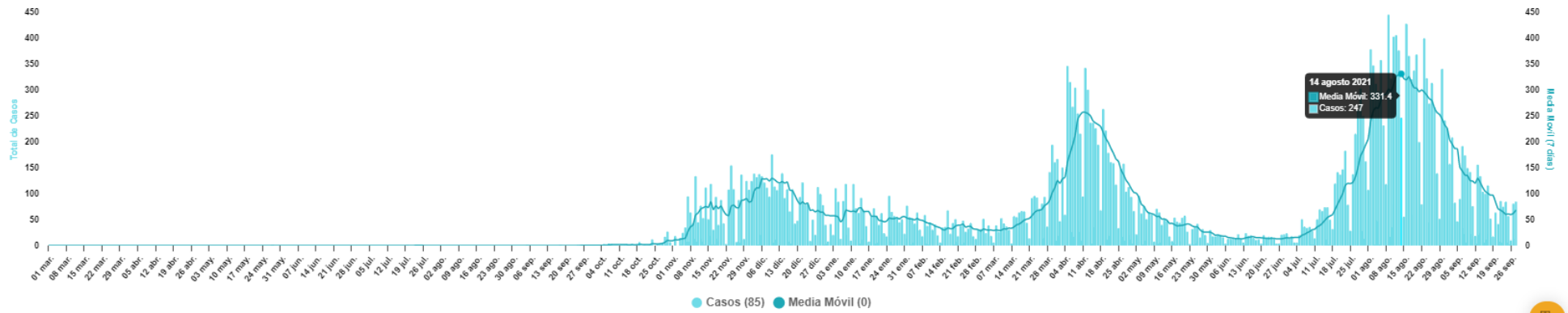
Appendix 13



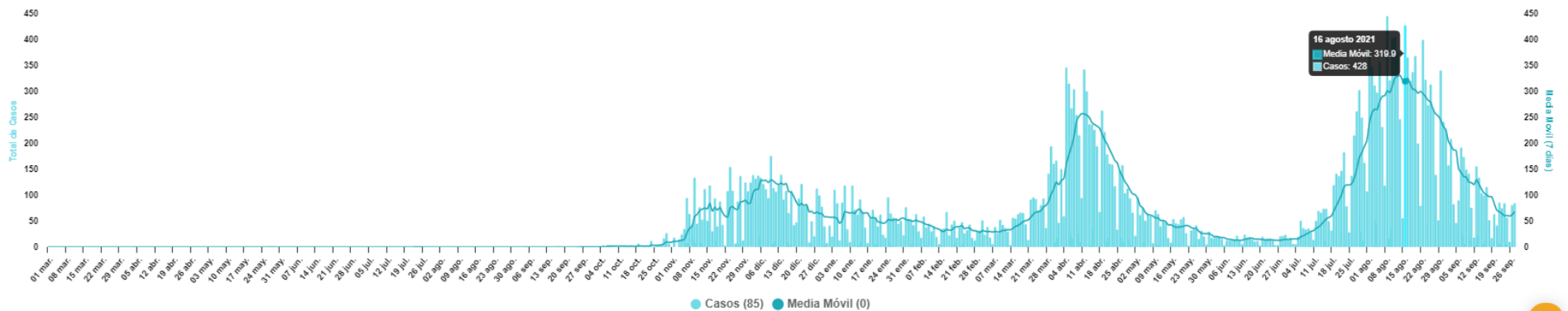
Puerto Rico Health Department COVID-19 Dashboard, *Casos (Confirmados)*, <https://covid19datos.salud.gov.pr/#casos>

Appendix 14A

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

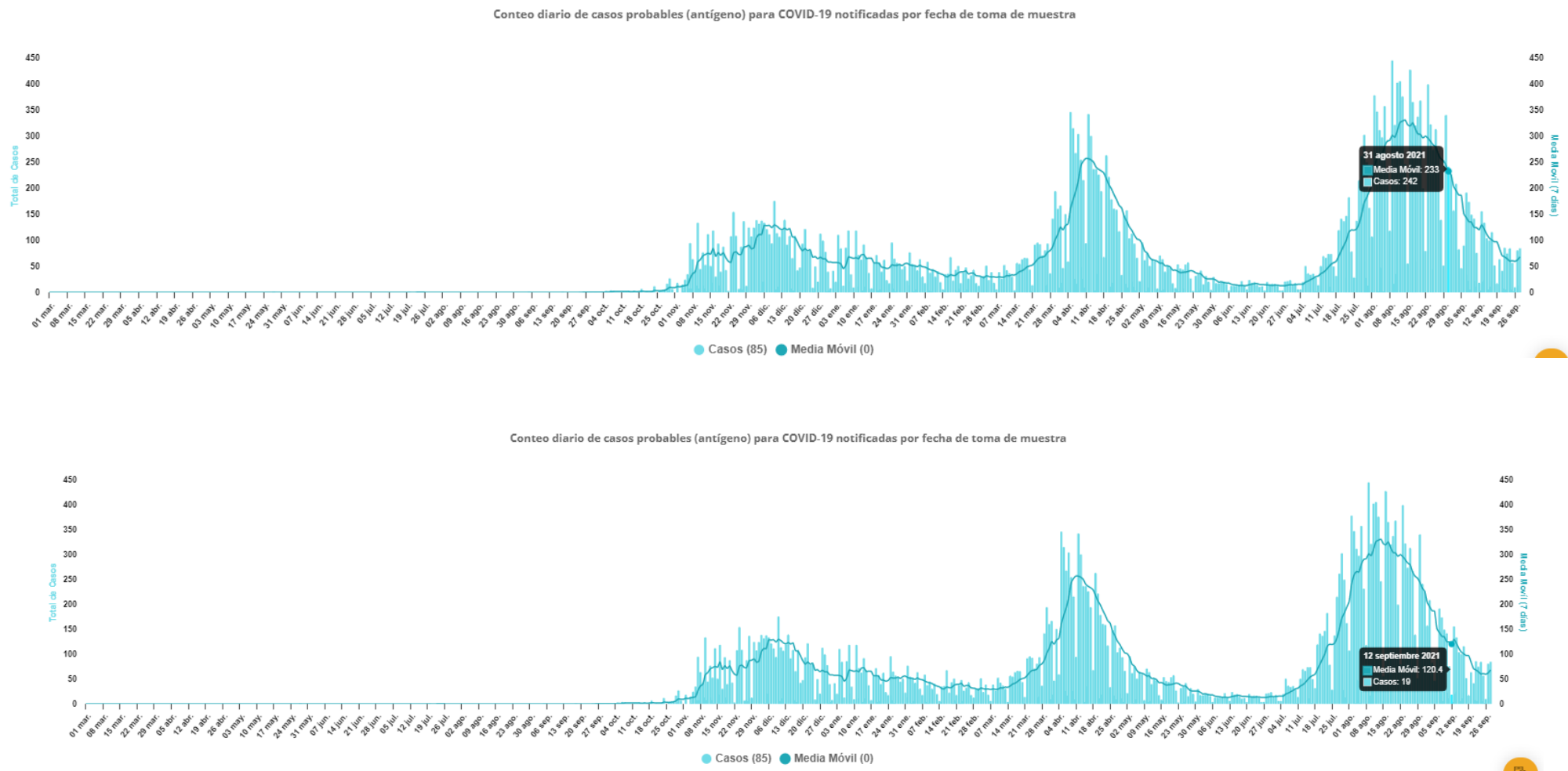


Conteo diario de casos probables (antígeno) para COVID-19 notificadas por fecha de toma de muestra



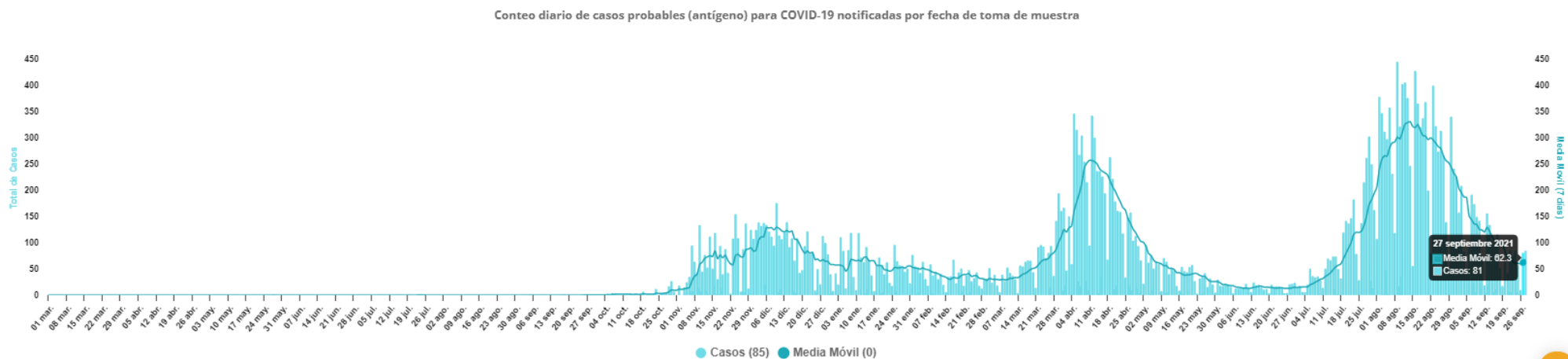
Puerto Rico Health Department COVID-19 Dashboard, *Casos (Probables)*, <https://covid19datos.salud.gov.pr/#casos>

Appendix 14B



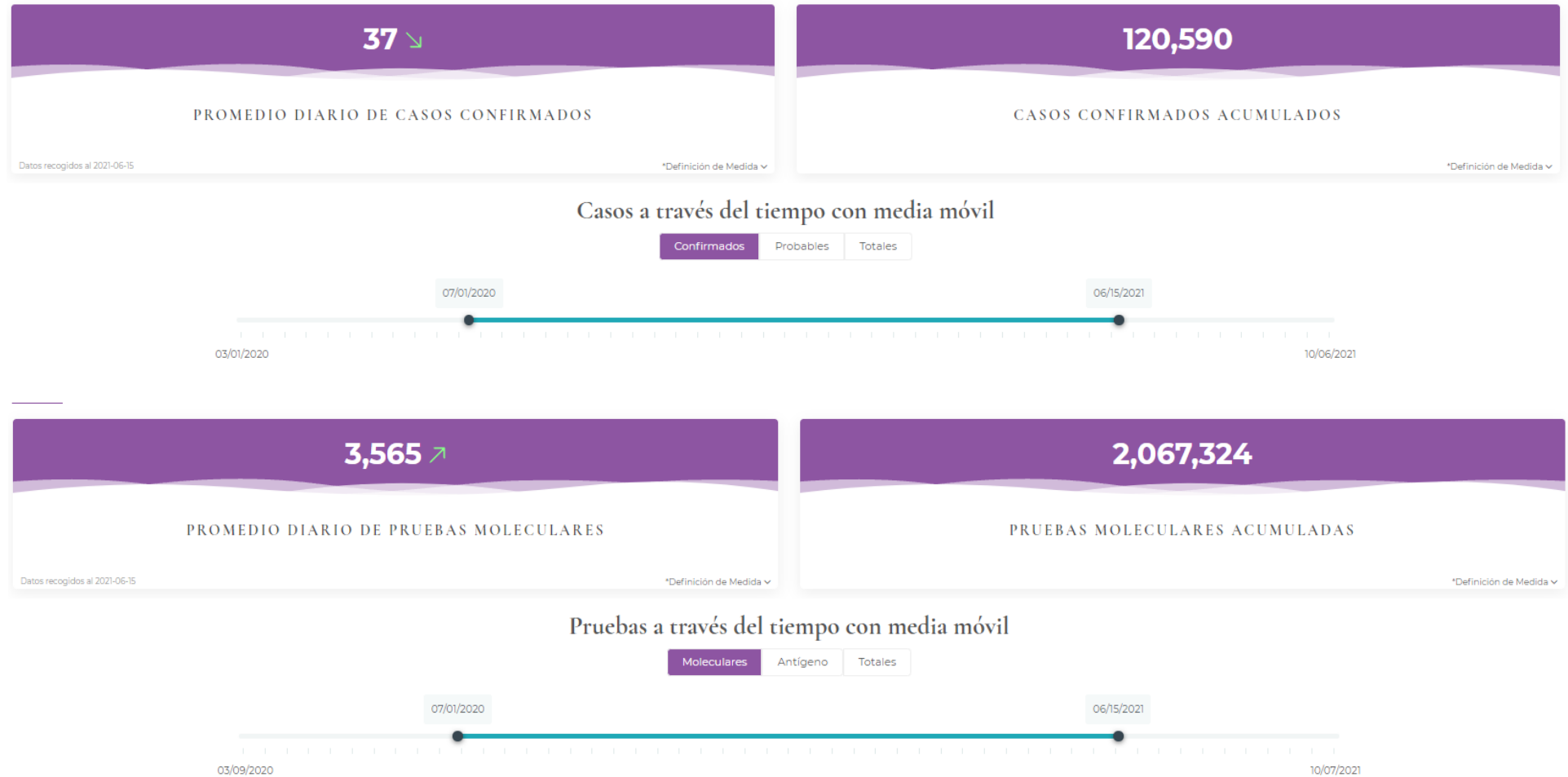
Puerto Rico Health Department COVID-19 Dashboard, *Casos (Probables)*, <https://covid19datos.salud.gov.pr/#casos>

Appendix 14C



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

Appendix 15A



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

Appendix 15B



Casos a través del tiempo con media móvil

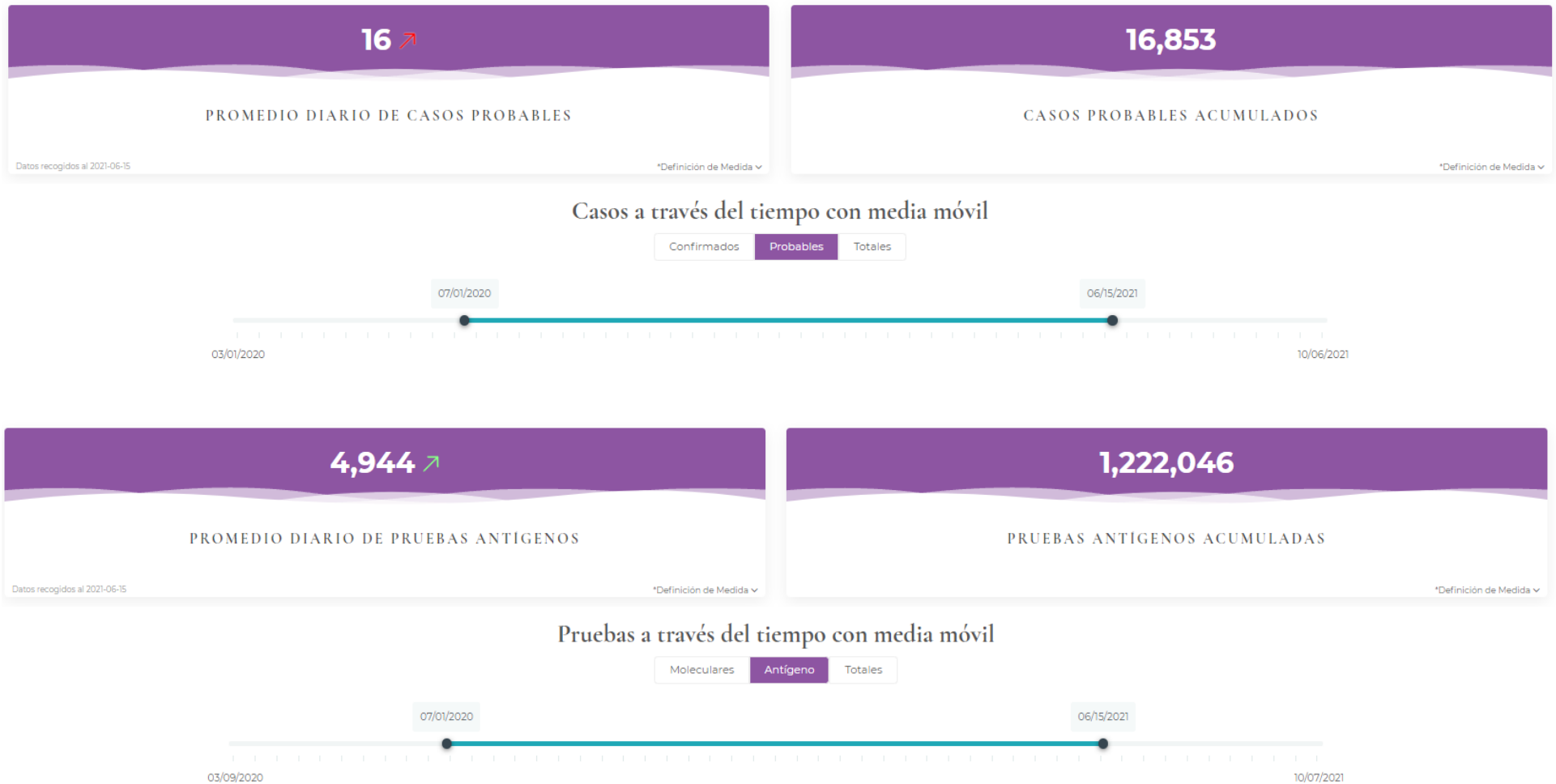


Pruebas a través del tiempo con media móvil



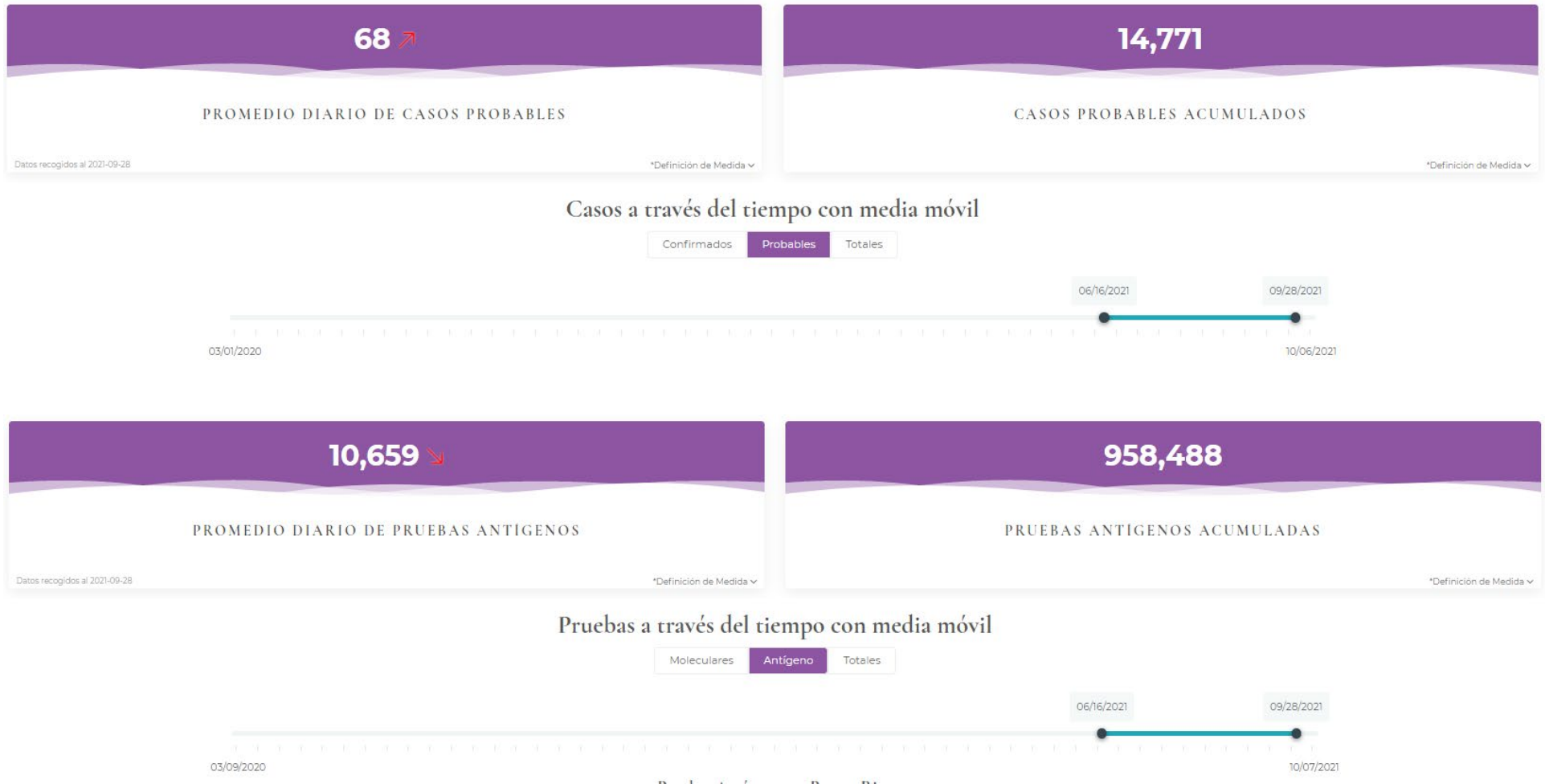
Puerto Rico Health Department COVID-19 Dashboard, *Casos (Confirmados)*, <https://covid19datos.salud.gov.pr/#casos>; *Pruebas (Moleculares)*, <https://covid19datos.salud.gov.pr/#pruebas>

Appendix 16A



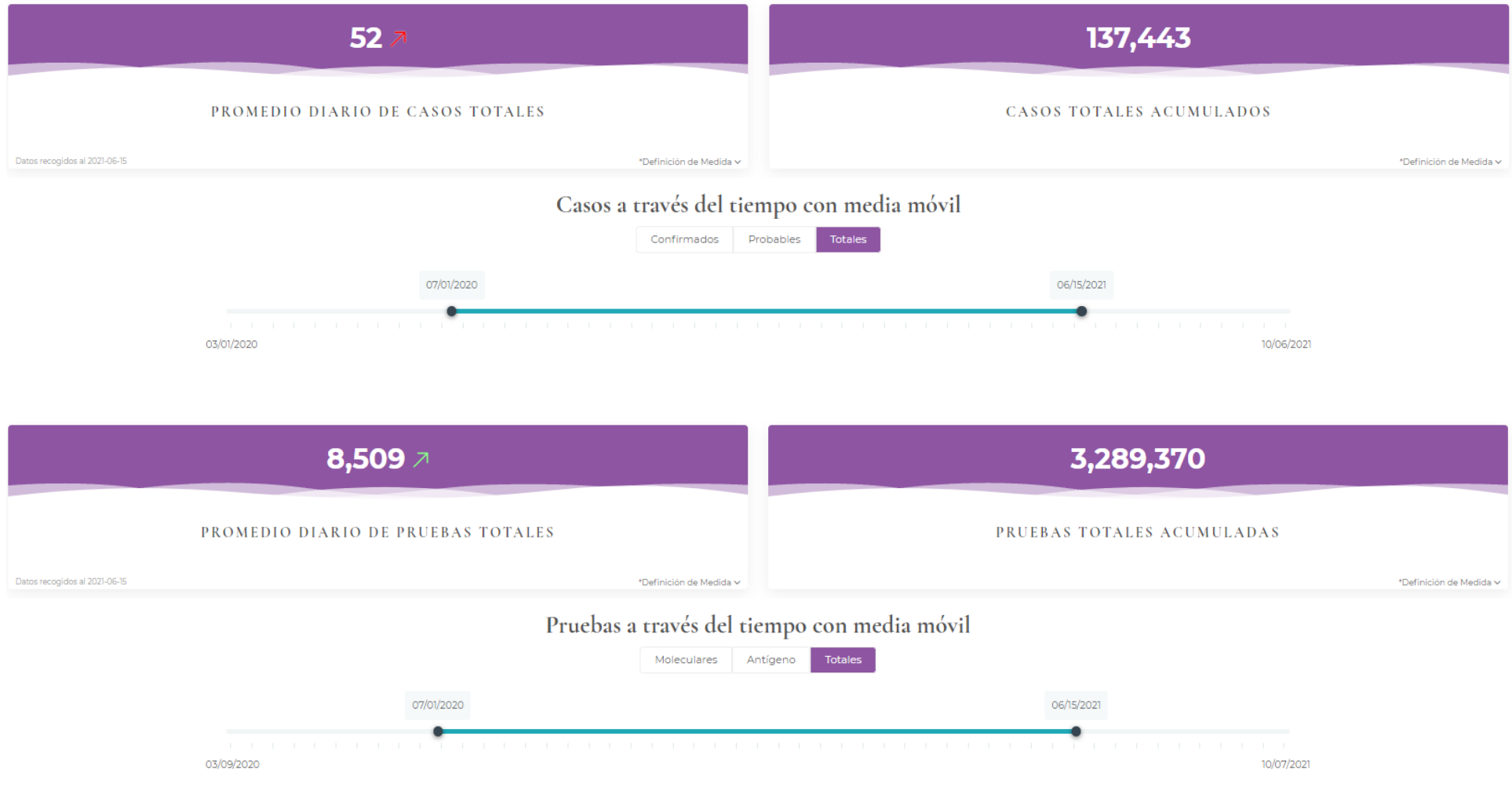
Puerto Rico Health Department COVID-19 Dashboard, *Casos (Probables)*, <https://covid19datos.salud.gov.pr/#casos>; *Pruebas (Antígeno)*, <https://covid19datos.salud.gov.pr/#pruebas>

Appendix 16B



Puerto Rico Health Department COVID-19 Dashboard, *Casos (Probables)*, <https://covid19datos.salud.gov.pr/#casos>; *Pruebas (Antígeno)*, <https://covid19datos.salud.gov.pr/#pruebas>

Appendix 16C

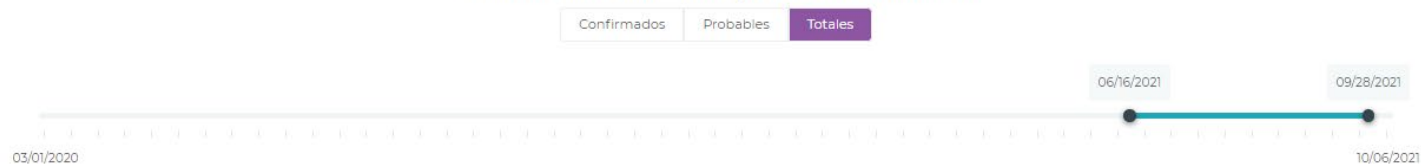


Puerto Rico Health Department COVID-19 Dashboard, *Casos (Probables)*, <https://covid19datos.salud.gov.pr/#casos>; *Pruebas (Antígeno)*, <https://covid19datos.salud.gov.pr/#pruebas>

Appendix 16D



Casos a través del tiempo con media móvil



Pruebas a través del tiempo con media móvil



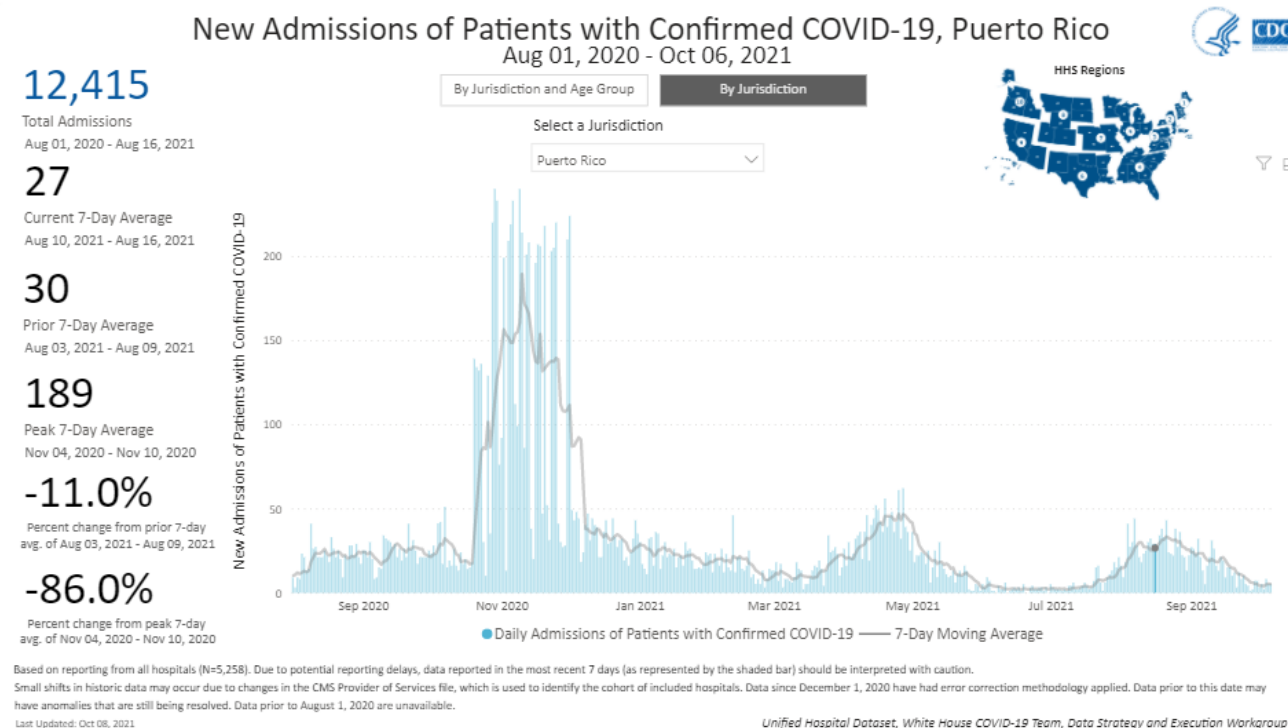
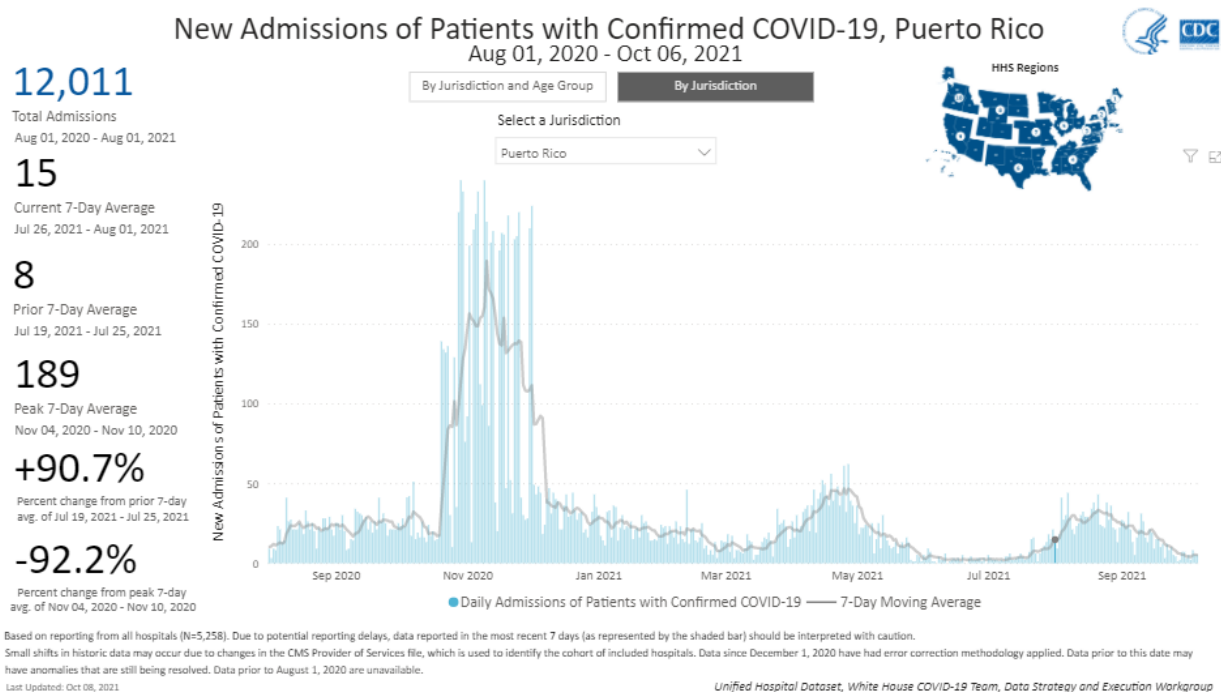
Puerto Rico Health Department COVID-19 Dashboard, *Casos (Totales)*, <https://covid19datos.salud.gov.pr/#casos>; *Pruebas (Totales)*, <https://covid19datos.salud.gov.pr/#pruebas>

Appendix 17

Data Table for Case Rate by State/Territory	
CDC Data as of: September 28, 2021 4:50 PM ET. Posted: September 28, 2021 8:40 PM ET	
Download Data	
State/Territory ↕	Case Rate per 100,000 ↕
Tennessee	17,826
North Dakota	17,134
Florida	16,576
South Carolina	16,505
Arkansas	16,340
Mississippi	16,336
South Dakota	16,185
Rhode Island	16,184
Alabama	16,166
Louisiana	15,866
Utah	15,717
Oklahoma	15,426
Wyoming	15,366
Kentucky	15,231
Arizona	14,925
Georgia	14,745
Alaska	14,623
Iowa	14,232
Indiana	14,174
Idaho	14,122
Kansas	13,952
Texas	13,823
Montana	13,781
Wisconsin	13,749
Nebraska	13,691
Nevada	13,586
Delaware	13,540
Missouri	13,291
West Virginia	13,206
North Carolina	13,179
New Jersey	12,929
New York City*	12,875
Illinois	12,775
Minnesota	12,412
New York*	12,039
New Mexico	11,960
Ohio	11,923
California	11,836
Massachusetts	11,711
Colorado	11,556
Michigan	11,429
Pennsylvania	11,053
Connecticut	10,916
Virginia	10,081
Guam	8,871
Maryland	8,762
New Hampshire	8,730
District of Columbia	8,611
Washington	8,526
Oregon	7,695
Maine	6,561
Virgin Islands	6,380
Puerto Rico	5,660
Hawaii	5,368
Vermont	4,860
Northern Mariana Islands	517
Palau	39
Republic of Marshall Islands	7
American Samoa	N/A
Federated States of Micronesia	N/A
New York (Level of Community Transmission)*	NaN
Footnotes	

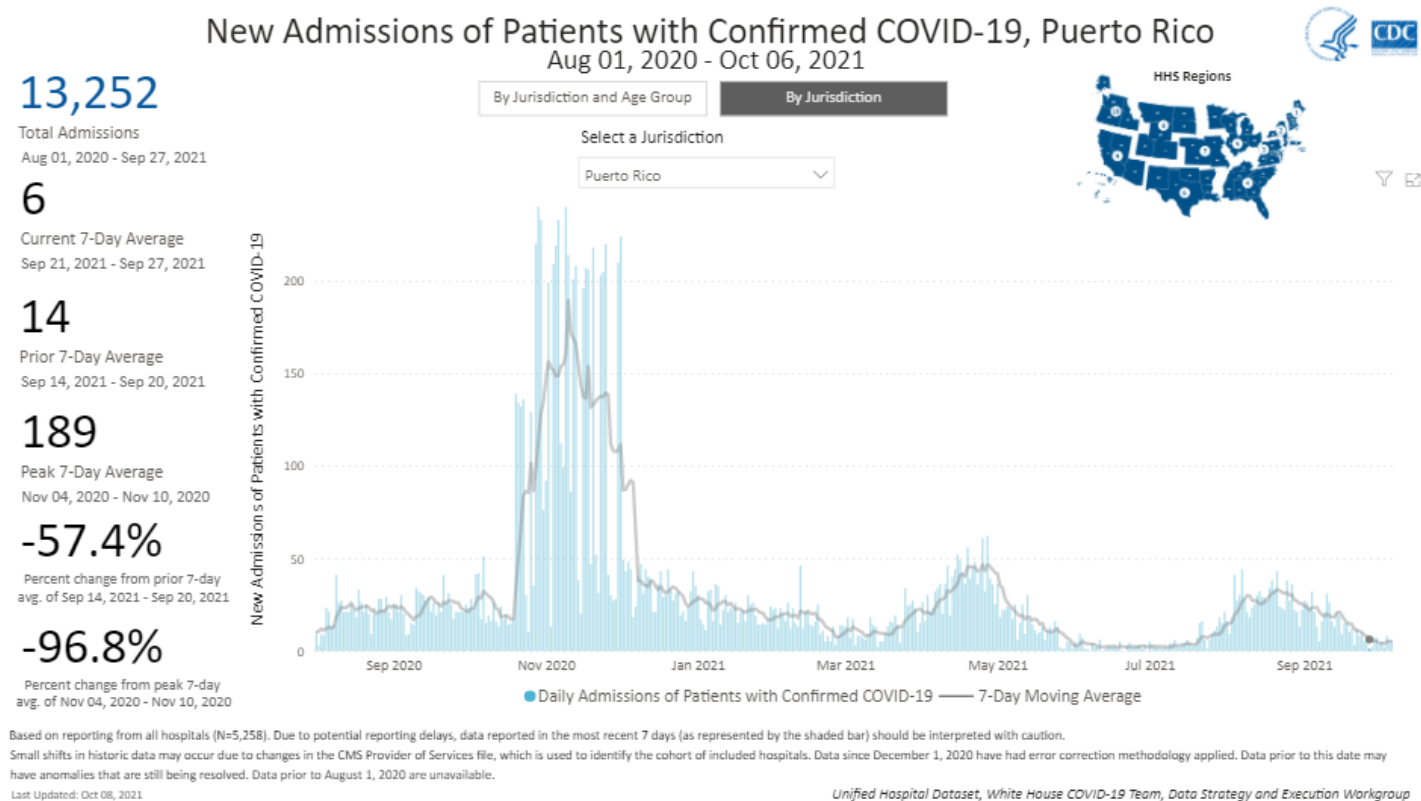
Cases, Deaths and Testing (View: Cases, Time Period: Since Jan 21, 2020, Metric: Rate per 100,000), *Data Table for Case Rate by State/Territory*, https://covid.cdc.gov/covid-data-tracker/#cases_casesper100k

Appendix 18A



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

Appendix 18B



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

Appendix 19A

New Admissions of Patients with Confirmed COVID-19, Puerto Rico
Aug 01, 2020 - Oct 06, 2021

11,192

Total Admissions

Aug 01, 2020 - Apr 27, 2021

47

Current 7-Day Average

Apr 21, 2021 - Apr 27, 2021

45

Prior 7-Day Average

Apr 14, 2021 - Apr 20, 2021

189

Peak 7-Day Average

Nov 04, 2020 - Nov 10, 2020

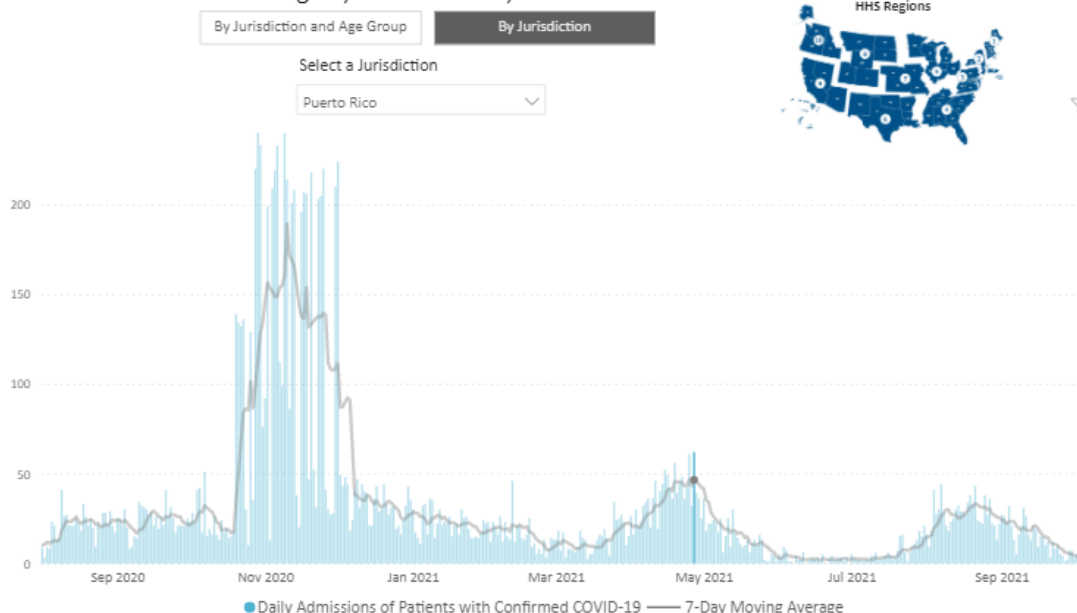
+2.5%

Percent change from prior 7-day
avg. of Apr 14, 2021 - Apr 20, 2021

-75.4%

Percent change from peak 7-day
avg. of Nov 04, 2020 - Nov 10, 2020

New Admissions of Patients with Confirmed COVID-19



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

New Admissions of Patients with Confirmed COVID-19, Puerto Rico
Aug 01, 2020 - Oct 06, 2021

10,121

Total Admissions

Aug 01, 2020 - Mar 28, 2021

20

Current 7-Day Average

Mar 22, 2021 - Mar 28, 2021

12

Prior 7-Day Average

Mar 15, 2021 - Mar 21, 2021

189

Peak 7-Day Average

Nov 04, 2020 - Nov 10, 2020

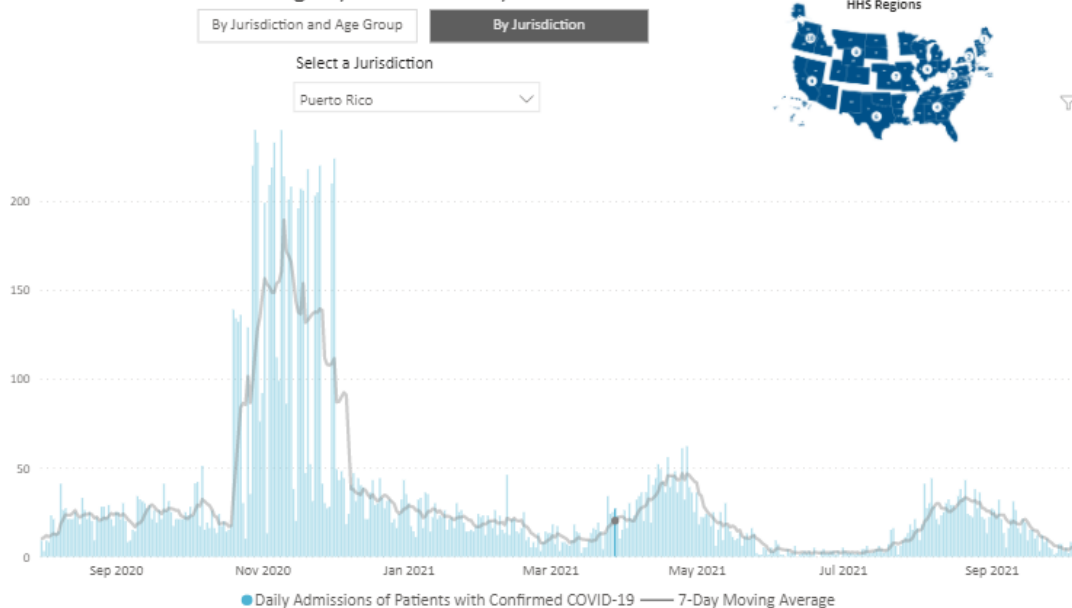
+72.0%

Percent change from prior 7-day
avg. of Mar 15, 2021 - Mar 21, 2021

-89.4%

Percent change from peak 7-day
avg. of Nov 04, 2020 - Nov 10, 2020

New Admissions of Patients with Confirmed COVID-19



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.

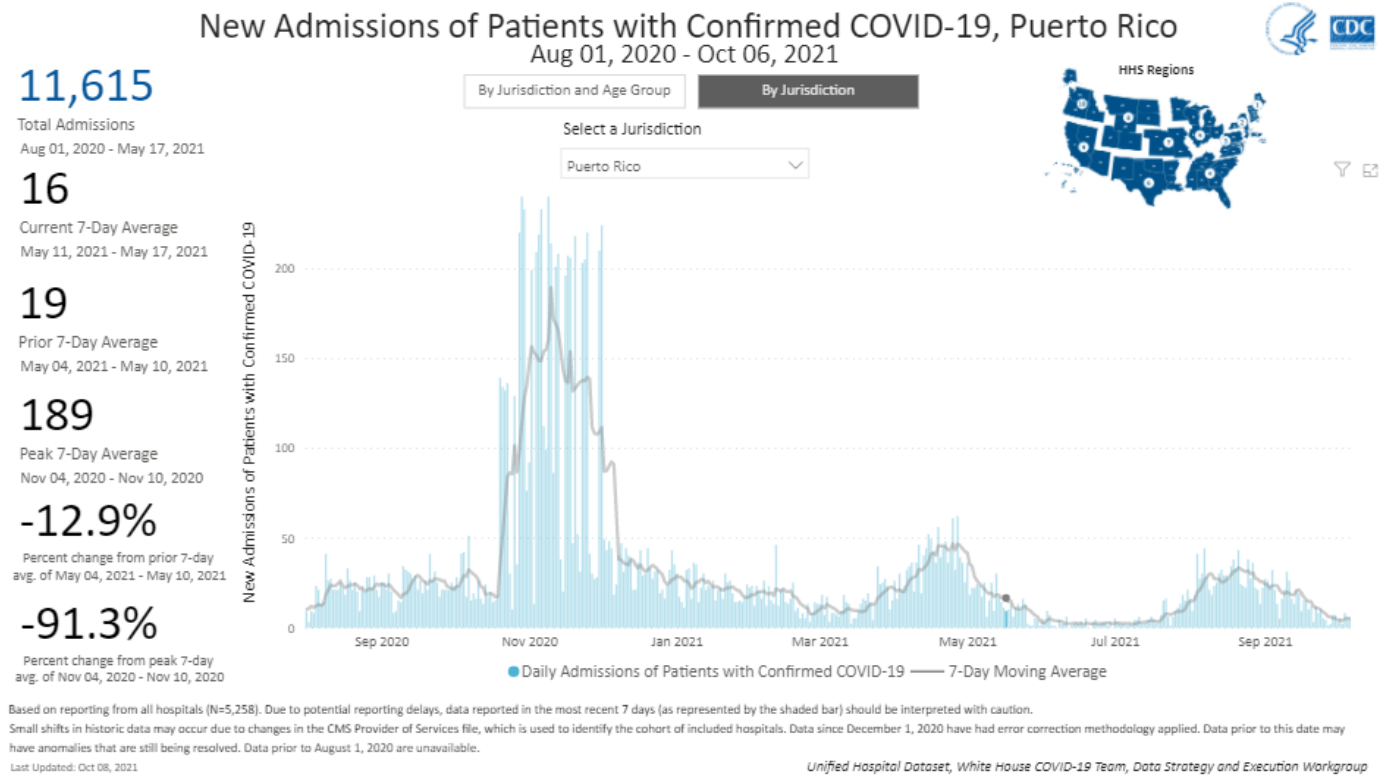
Small shifts in historic data may occur due to changes in the CMS Provider of Services file, which is used to identify the cohort of included hospitals. Data since December 1, 2020 have had error correction methodology applied. Data prior to this date may have anomalies that are still being resolved.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

Appendix 19B



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

Appendix 20A

New Admissions of Patients with Confirmed COVID-19, Puerto Rico
Aug 01, 2020 - Oct 06, 2021**1,793**

Total Admissions

Aug 01, 2020 - Oct 19, 2020

17

Current 7-Day Average

Oct 13, 2020 - Oct 19, 2020

23

Prior 7-Day Average

Oct 06, 2020 - Oct 12, 2020

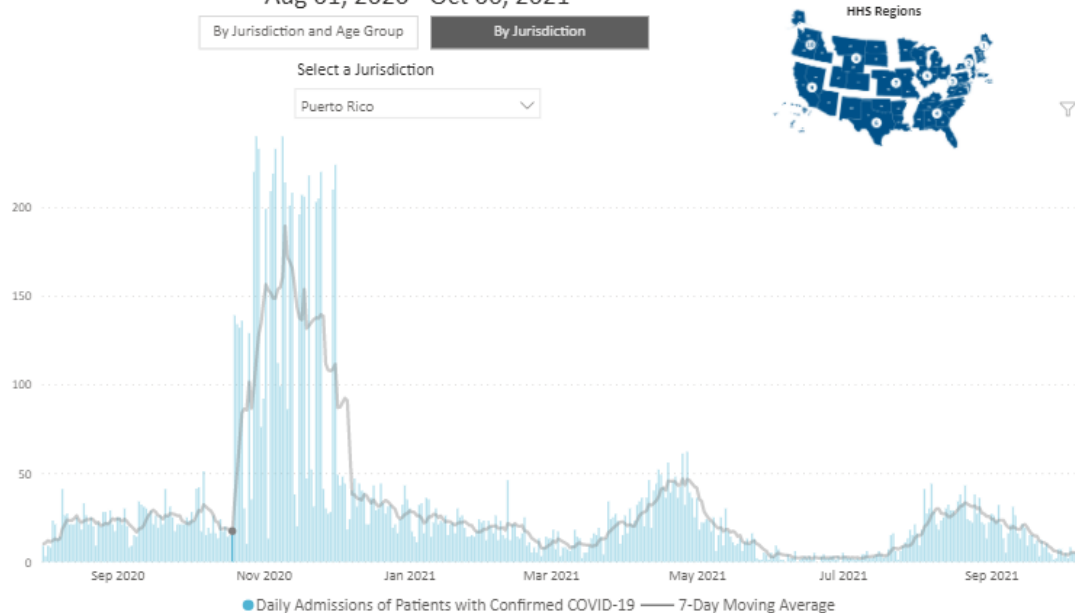
189

Peak 7-Day Average

Nov 04, 2020 - Nov 10, 2020

-24.4%Percent change from prior 7-day
avg. of Oct 06, 2020 - Oct 12, 2020**-90.9%**Percent change from peak 7-day
avg. of Nov 04, 2020 - Nov 10, 2020

New Admissions of Patients with Confirmed COVID-19



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

New Admissions of Patients with Confirmed COVID-19, Puerto Rico
Aug 01, 2020 - Oct 06, 2021**4,937**

Total Admissions

Aug 01, 2020 - Nov 10, 2020

189

Current 7-Day Average

Nov 04, 2020 - Nov 10, 2020

153

Prior 7-Day Average

Oct 28, 2020 - Nov 03, 2020

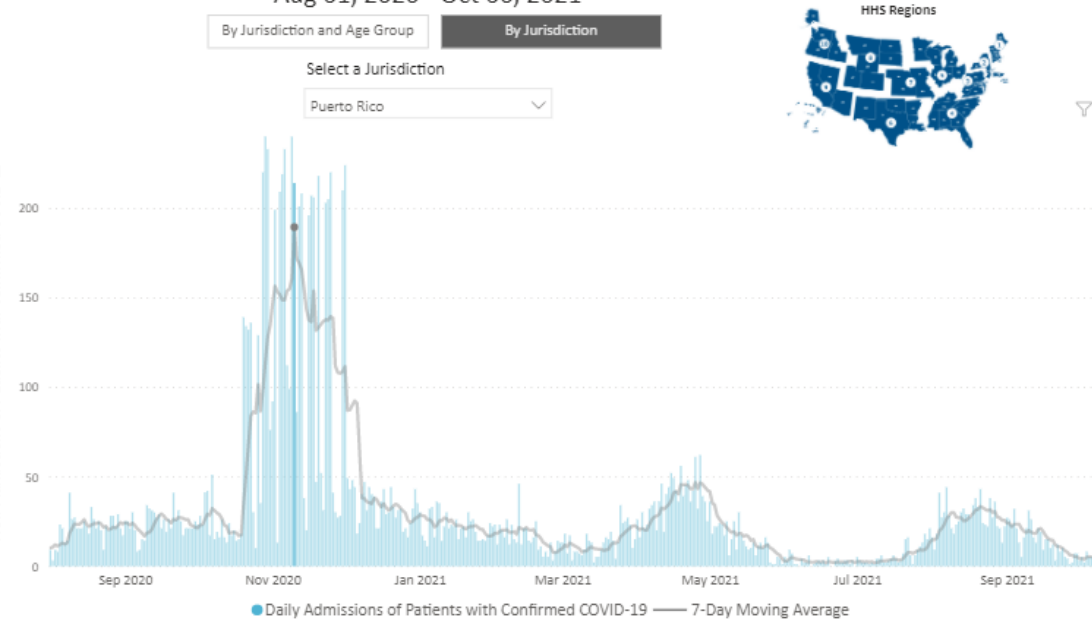
189

Peak 7-Day Average

Nov 04, 2020 - Nov 10, 2020

+23.6%Percent change from prior 7-day
avg. of Oct 28, 2020 - Nov 03, 2020**0.0%**Percent change from peak 7-day
avg. of Nov 04, 2020 - Nov 10, 2020

New Admissions of Patients with Confirmed COVID-19



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.

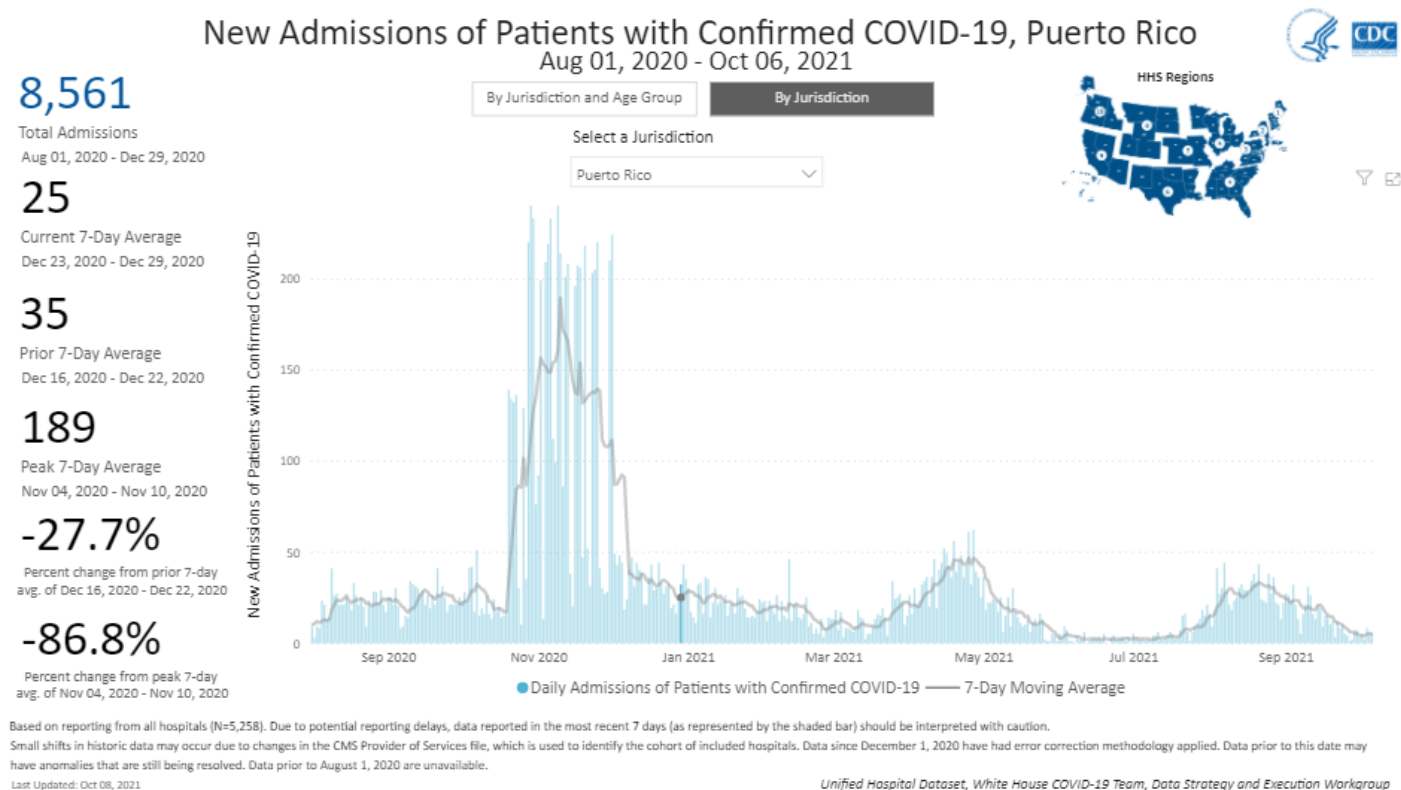
Small shifts in historic data may occur due to changes in the CMS Provider of Services file, which is used to identify the cohort of included hospitals. Data since December 1, 2020 have had error correction methodology applied. Data prior to this date may have anomalies that are still being resolved.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

Appendix 20B



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

Appendix 21



COVID-19

PUERTO RICO

TERRITORY PROFILE REPORT | 09.24.2021

	STATE	STATE, % CHANGE FROM PREVIOUS WEEK	FEMA/HHS REGION	UNITED STATES
NEW COVID-19 CASES (RATE PER 100,000)	1,355 (42)	-43%	51,726 (164)	819,465 (247)
NUCLEIC ACID AMPLIFICATION TEST (NAAT) POSITIVITY RATE	5.6%	-0.8%*	4.0%	7.3%
TOTAL NAAT VOLUME (TESTS PER 100,000)	43,144** (1,351**)	-9%**	1,280,420** (4,047**)	11,478,250** (3,457**)
NEW COVID-19 DEATHS (RATE PER 100,000)	52 (1.6)	-31%	461 (1.5)	10,913 (3.3)
CONFIRMED AND SUSPECTED NEW COVID-19 HOSPITAL ADMISSIONS (RATE PER 100 BEDS)	211 (2.5)	-29% (-30%)	4,709 (6.3)	104,370 (14.8)
CONFIRMED NEW COVID-19 HOSPITAL ADMISSIONS (RATE PER 100 BEDS)	76 (0.9)	-48% (-49%)	2,841 (3.8)	66,686 (9.5)
NUMBER OF HOSPITALS WITH SUPPLY SHORTAGES (PERCENT)	8 (14%)	+0%	14 (5%)	287 (5%)
NUMBER OF HOSPITALS WITH STAFF SHORTAGES (PERCENT)	6 (10%)	+0%	24 (8%)	981 (19%)
PEOPLE 12+ INITIATING VACCINATION (PERCENT OF POPULATION)	24,230 (0.9%)	-49.0%	226,219 (0.8%)	1,763,055 (0.6%)
PEOPLE 12-17 INITIATING VACCINATION (PERCENT OF POPULATION)	2,214 (1.0%)	-72.2%	26,624 (1.2%)	227,986 (0.9%)
PEOPLE 18+ INITIATING VACCINATION (PERCENT OF POPULATION)	22,016 (0.8%)	-44.4%	199,595 (0.8%)	1,535,069 (0.6%)

* Indicates absolute change in percentage points.

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

DATA SOURCES

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 CDC. 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 9/23/2021; previous week is from 9/10 to 9/16.

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 9/21/2021; previous week is from 9/8 to 9/14. Test volume through 9/17/2021; previous week is from 9/4 to 9/10.

Admissions: Unified Hospitals Dataset in HHS Protect. Data are through 9/22, previous week is from 9/9 to 9/15.

Shortages: Unified Hospitals Dataset in HHS Protect. Values presented show the latest reports from hospitals in the week ending 9/22/2021 for staffing and the week ending 9/22/2021 for supplies.

Vaccinations: CDC COVID Data Tracker. Data includes the Moderna, Pfizer BioNTech, and J&J/Janssen COVID-19 vaccines and reflects current data available as of 10:11 EDT on 09/24/2021. Data last updated 06:00 EDT on 09/24/2021. People initiating vaccination include those who have received the first dose of the Moderna or Pfizer-BioNTech vaccine 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 range.

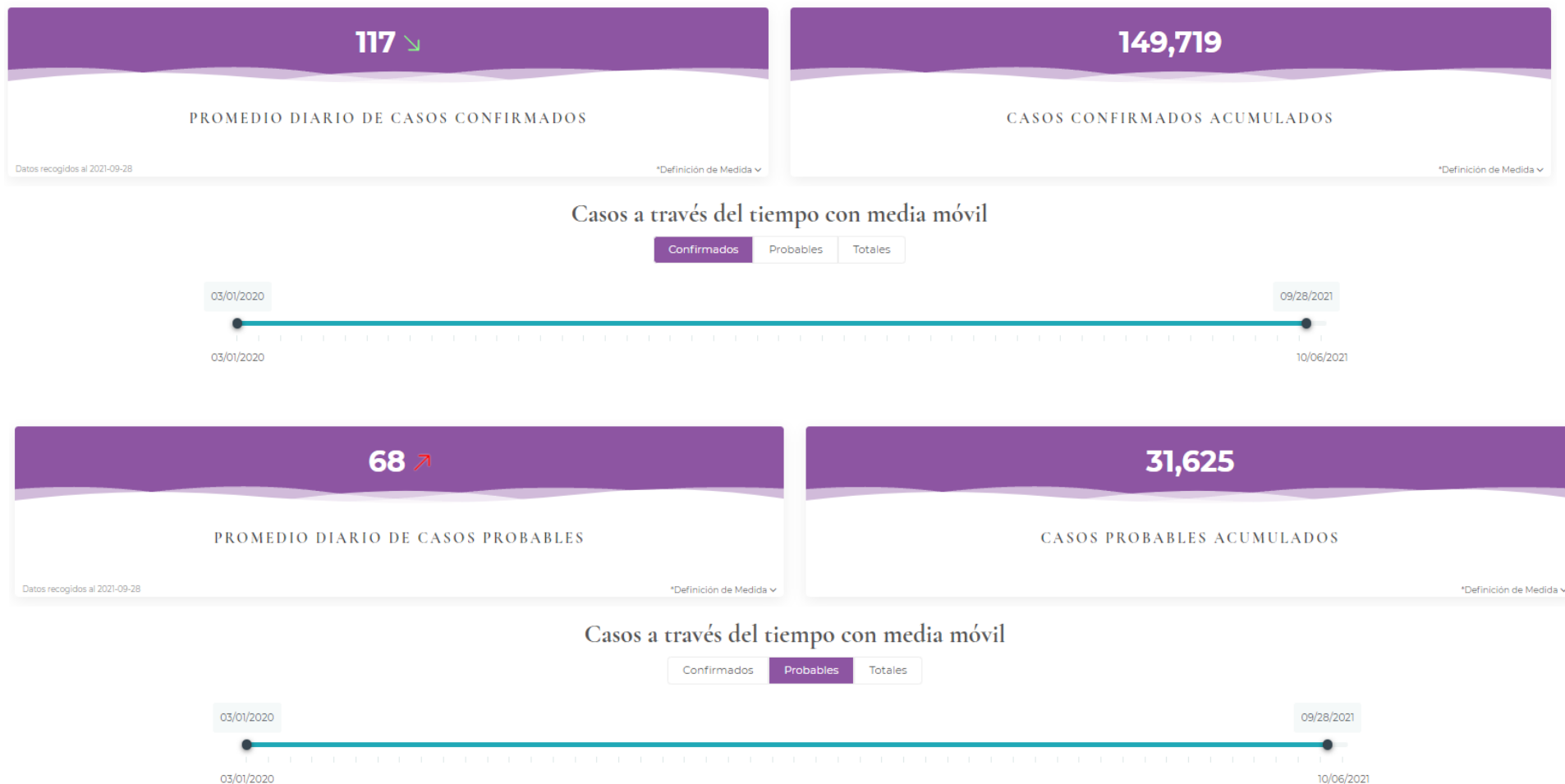
METHODS: Details available on last two pages of report.

Appendix 22

Data Table for Case Rate by State/Territory	
CDC Data as of: September 28, 2021 4:50 PM ET. Posted: September 28, 2021 8:40 PM ET	
Download Data	
State/Territory ↕	Case Rate per 100,000 ↕
Tennessee	17,826
North Dakota	17,134
Florida	16,576
South Carolina	16,505
Arkansas	16,340
Mississippi	16,336
South Dakota	16,185
Rhode Island	16,184
Alabama	16,166
Louisiana	15,866
Utah	15,717
Oklahoma	15,426
Wyoming	15,366
Kentucky	15,231
Arizona	14,925
Georgia	14,745
Alaska	14,623
Iowa	14,232
Indiana	14,174
Idaho	14,122
Kansas	13,952
Texas	13,823
Montana	13,781
Wisconsin	13,749
Nebraska	13,691
Nevada	13,586
Delaware	13,540
Missouri	13,291
West Virginia	13,206
North Carolina	13,179
New Jersey	12,929
New York City*	12,875
Illinois	12,775
Minnesota	12,412
New York*	12,039
New Mexico	11,960
Ohio	11,923
California	11,836
Massachusetts	11,711
Colorado	11,556
Michigan	11,429
Pennsylvania	11,053
Connecticut	10,916
Virginia	10,081
Guam	8,871
Maryland	8,762
New Hampshire	8,730
District of Columbia	8,611
Washington	8,526
Oregon	7,695
Maine	6,561
Virgin Islands	6,380
Puerto Rico	5,660
Hawaii	5,368
Vermont	4,860
Northern Mariana Islands	517
Palau	39
Republic of Marshall Islands	7
American Samoa	N/A
Federated States of Micronesia	N/A
New York (Level of Community Transmission)*	NaN
Footnotes	+

CDC, 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 23



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

Appendix 24



COLORADO
 Division of Human Resources
 Department of Personnel & Administration

Search 

[Home](#)
[COVID-19](#)
[State Employees >](#)
[State HR Professionals >](#)
[DHR Resources >](#)
[About](#)
[Contact](#)

[Home](#) > [COVID-19 Personnel and Procurement Information](#)

COVID-19 Personnel and Procurement Information

COVID-19 Vaccination Reporting

COVID-19 Personnel and Procurement Information

COVID-19 Vaccination Requirements for State Contractors

These Frequently Asked Questions have been developed to help address the impact COVID-19 may have on the State's workforce and operations. They are designed to help leadership, management, Human Resources Directors, Procurement Directors, Department Controllers, and all state employees (both classified and non-classified) navigate topics related to human resources, including staffing, leave, benefits, and workers' compensation and procurement, including purchasing, contracting, and contract management.

Page sections:

- [Vaccination Policy for State Employees](#)
- [Personnel Questions](#)
- [Procurement and Contract Management Questions](#)

Please regularly visit the [CDPHE](#) and [CDC](#) websites for the latest on what you can do to ensure you, your teammates, and your family remain safe.

If you have questions regarding these FAQs, please direct them to dpa_comments@state.co.us.

COVID-19 Vaccination Reporting & Employee Testing

Last Updated: 10/05/2021

Vaccination Policy for State Employees

Governor Polis announced on July 30, 2021 that, starting September 20, 2021, the State will require all state employees within the Governor's purview to report their COVID vaccination status and provide a copy of their vaccine record or card or submit to twice-weekly serial testing. Following this announcement, the State Personnel Director adopted the [COVID-19 Vaccination and Serial Testing Requirements Universal Policy](#).

The following Frequently Asked Questions aim to answer common questions about the vaccine requirement, but questions will arise that are not on the list. It will be regularly updated.

Expand All

▼ General (updated 10/01/21)

▼ Leave Related to COVID-19, Vaccines, and Testing

▼ Reporting & Tracking

▲ COVID-19 Serial Testing

Q: Will state employees be paid for the time for testing and travel to and from the testing location?

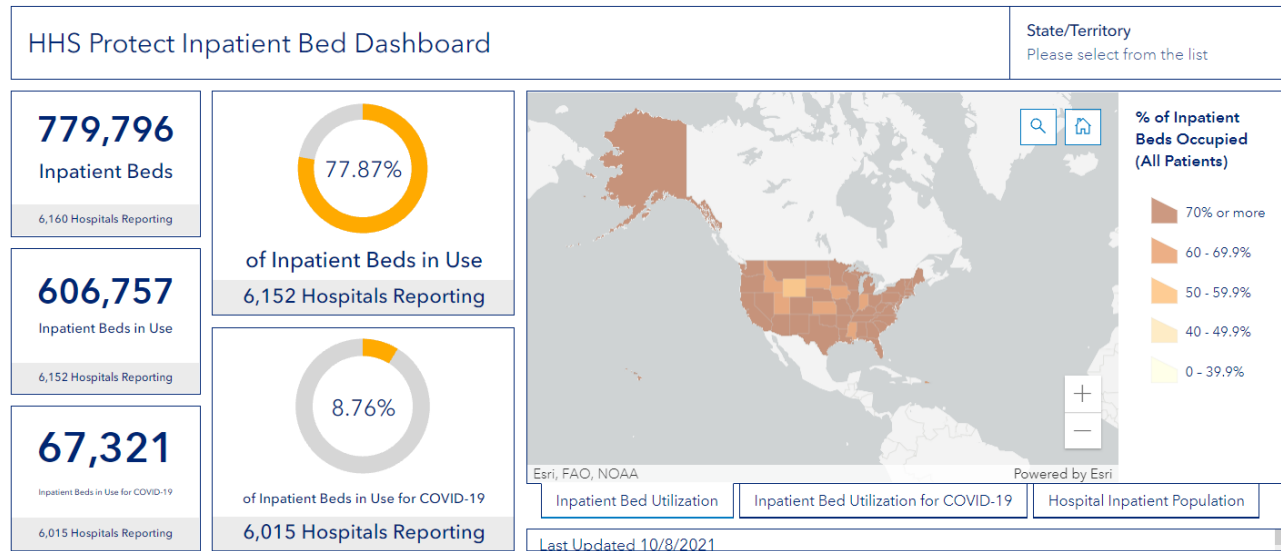
A: Travel to and from the testing location, including completing the test results is considered paid work time for non-exempt employees.

State of Colorado, Division of Human Resources, *COVID-19 Personnel and Procurement Information (COVID-19 Serial Testing)*, <https://dhr.colorado.gov/covid-19-personnel-and-procurement-information>

Appendix 25

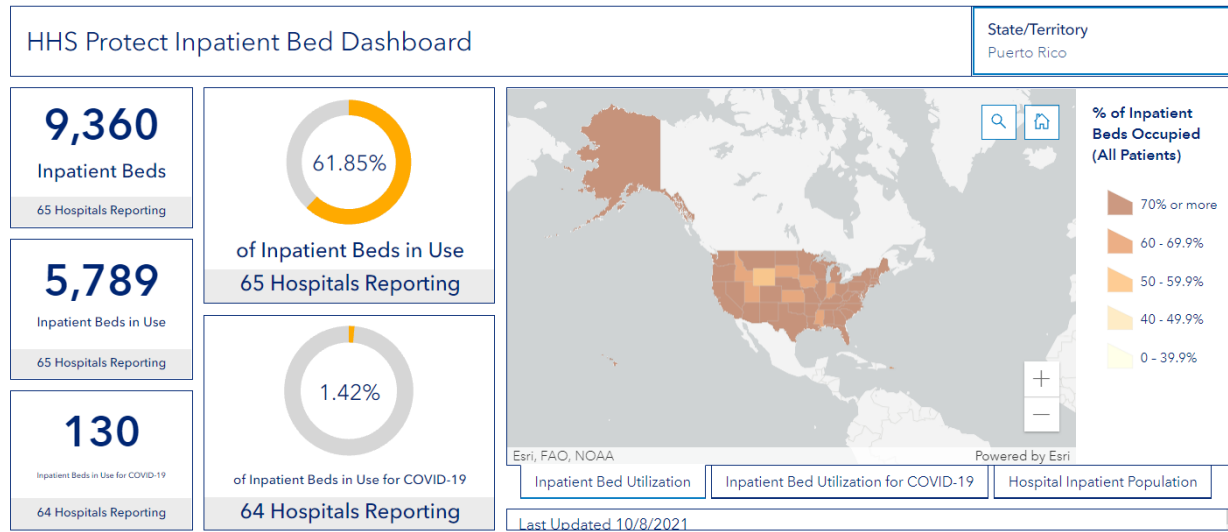
Inpatient Bed Utilization by State

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>

Appendix 26

Data Table for Death Rate by State/Territory

CDC | Data as of: September 29, 2021 9:22 PM ET. Posted: September 29, 2021 9:50 PM ET

Download Data 

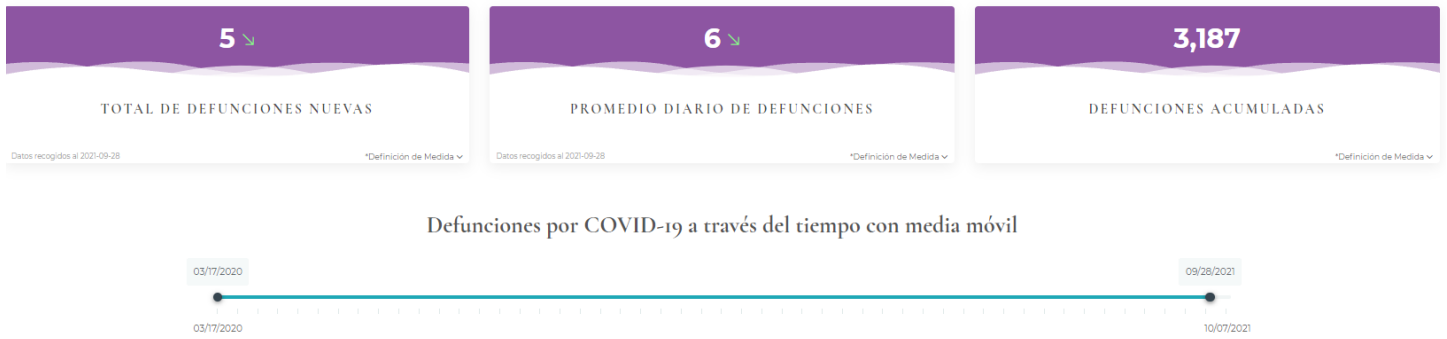
State/Territory 	Death Rate per 100,000 
New York City*	407
Mississippi	322
New Jersey	308
Louisiana	297
Alabama	289
Arizona	273
Massachusetts	269
Rhode Island	267
Arkansas	253
Florida	251
Georgia	242
Connecticut	241
South Dakota	241
South Carolina	240
Indiana	231
Nevada	229
Pennsylvania	228
New Mexico	227
Oklahoma	226
Michigan	223
Tennessee	220
Texas	218
Illinois	217
North Dakota	211
Kansas	206
Iowa	205
Delaware	200
West Virginia	199
Kentucky	193
New York*	189
Missouri	187
Ohio	187
Montana	186
California	173
Maryland	172
Wyoming	172
District of Columbia	166
Idaho	158
North Carolina	155
Wisconsin	151
Virginia	148
Nebraska	146
Minnesota	145
Colorado	130
Guam	118
New Hampshire	108
Washington	99
Puerto Rico	98
Utah	90
Oregon	88
Maine	76
Alaska	74
Virgin Islands	67
Hawaii	53
Vermont	48
Northern Mariana Islands	3
Palau	0
Republic of Marshall Islands	0
American Samoa	N/A
Federated States of Micronesia	N/A
New York (Level of Community Transmission)*	N/A

Footnotes



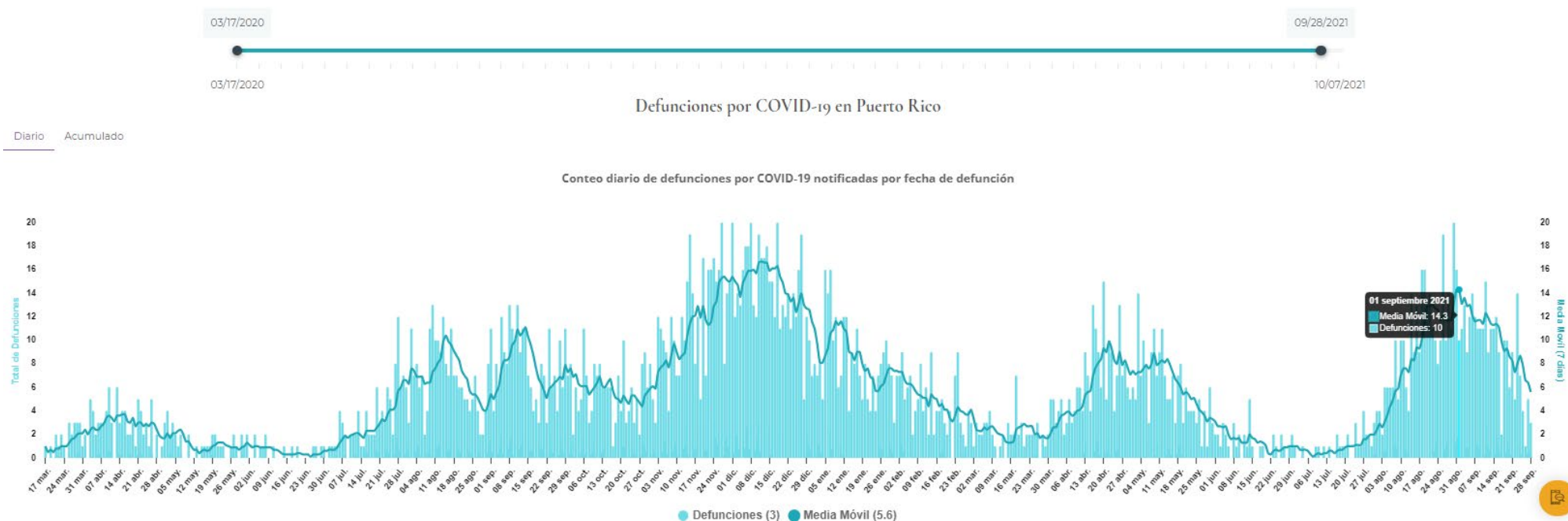
CDC, Cases, Deaths and Testing (View: Deaths, Time Period: Since Jan 21, 2020, Metric: Rate per 100,000), *Data Table for Death Rate by State/Territory*, https://covid.cdc.gov/covid-data-tracker/#cases_deathsper100k

Appendix 27



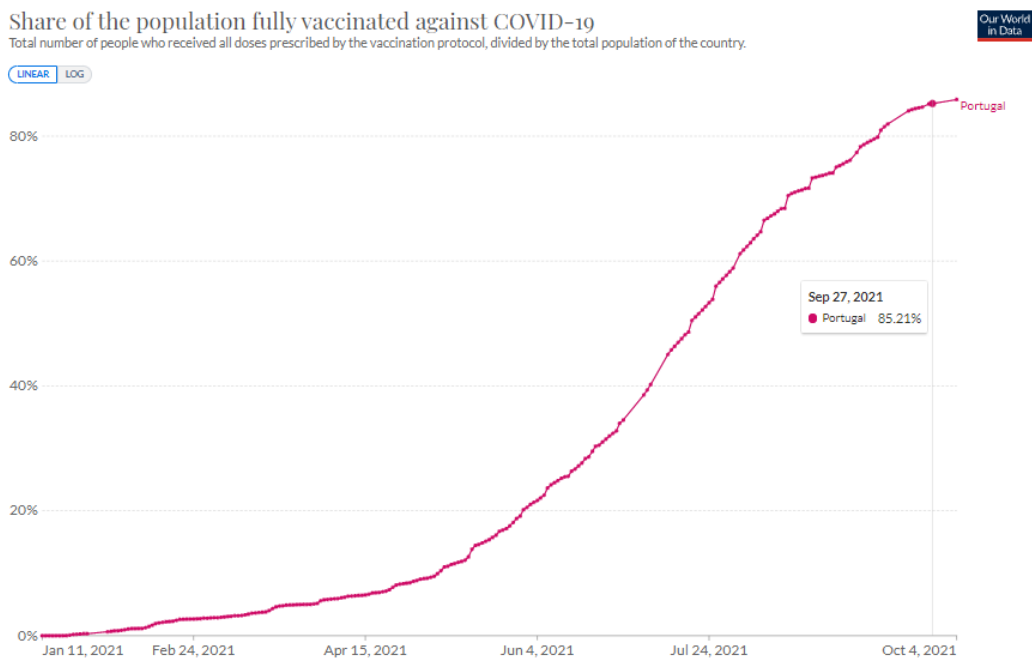
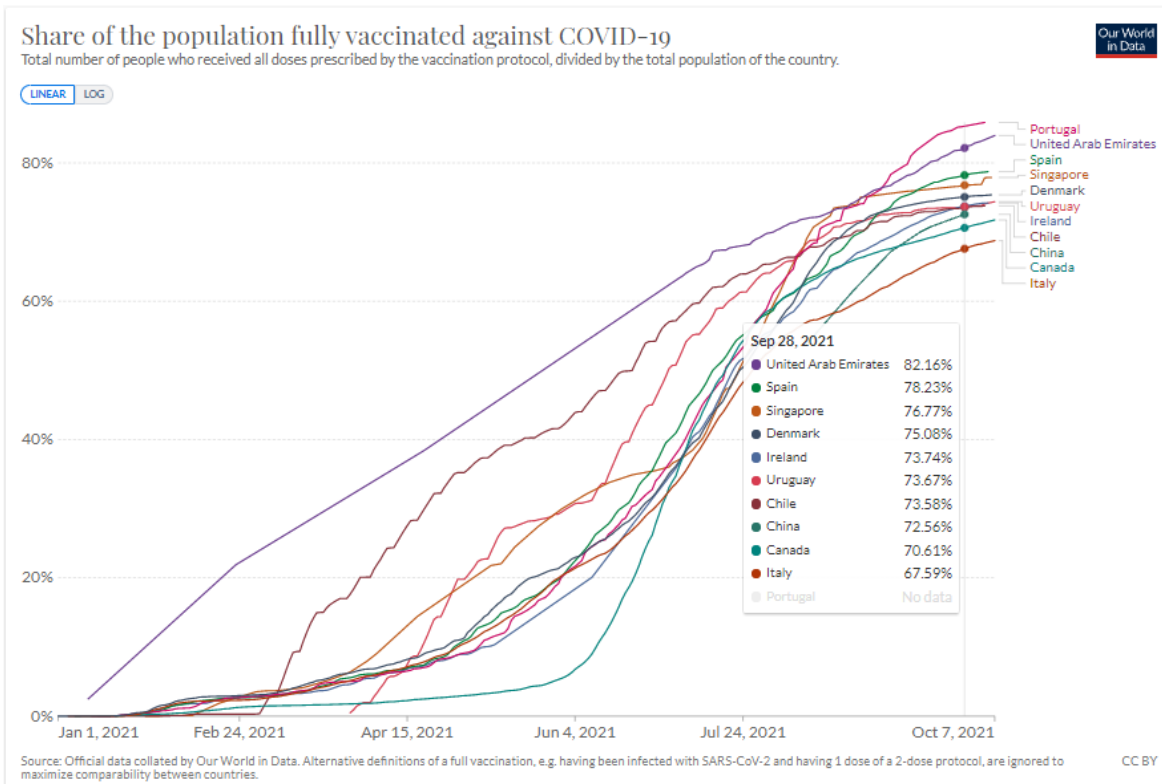
Puerto Rico Health Department COVID-19 Dashboard, *Defunciones*, <https://covid19datos.salud.gov.pr/#defunciones>

Appendix 28



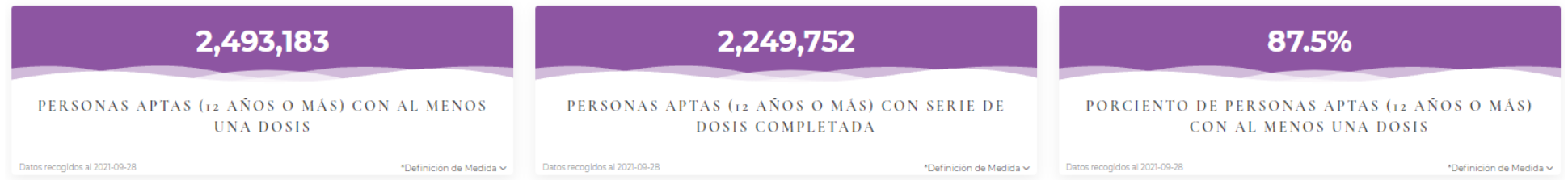
Puerto Rico Health Department COVID-19 Dashboard, *Defunciones*, <https://covid19datos.salud.gov.pr/#defunciones>

Appendix 29A



Our World in Data, Coronavirus (COVID-19) Vaccinations, <https://ourworldindata.org/covid-vaccinations>

Appendix 29B



¿Quiénes se han vacunado?



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