

ELC ENHANCING DETECTION: PUERTO RICO TESTING PLAN

2020 Overarching Jurisdictional SARS-COV-2 Testing Strategy

Jurisdiction:	Puerto Rico
Population Size:	3,200,000

1. Describe the overarching testing strategy in your state or jurisdiction.

The volume of tests in the State current testing plan for May 2020 includes 7,700 diagnostic tests and 10,280 for June 2020. The current testing capacity in the Puerto Rico Department of Health is for 1,022 diagnostic tests daily for a total of 30,660/month, which is 48% of the 2% of Puerto Rico's population (64,000). In order to reach 100% of the 2% population, we plan to increase testing capacity by acquiring new testing platforms for the Puerto Rico Public Health Laboratories that are high throughput (e.g. two Hologic Panther, >1,500 samples/day; one GeneXpert 16 modules, > 300 samples/daily), expand on rapid molecular testing using Abbott ID NOW platforms in mobile testing units for rapid result testing for local outbreaks and drive-thru sites across the island. To reach this capacity, we plan to expand workforce with medical technologists, laboratory assistants, data entry personnel and IT technicians for laboratory information management systems (LIMS) technical assistance and maintenance.

Plans to provide testing at non-traditional laboratory sites currently include community centers, municipal coliseums, convention centers, schools, prisons, and elderly care centers. The Puerto Rico Department of Health have established drive-thru testing sites for first responders and communities at-risk. With the mobile testing units (which will need to be acquired), PRDOH plans to impact the non-traditional laboratory sites mentioned above and achieve 2% of population test numbers.

The Department of Health is currently working to modify the strategy being used for distribution of serological tests on each municipality (n = 78). This modification will take into consideration population size by municipality, number of communities at-risk, number of health care facilities, among other criteria. Currently, serological tests have been distributed to points-of-care such as hospitals, clinics, other health care facilities and the airport.

Our current plan include drive-thru testing sites around the island that are managed by PRDOH employees. The points of contact oversee daily operations and communicate with personnel (nurses, MTs, data entry, etc.) to assure that sample collection and outsourcing to the private partner laboratory occurs at the end of each day. The POC from each tent communicates the quantity of samples taken and what communities were impacted (e.g. first responders, school employees, elderly, etc.). This information along with test results allow us to strategize next steps towards achieving our testing goals. In addition, partnerships with private laboratories in the island has been established and concurrent meetings are schedule to discuss number of tests performed, their reagents and supplies inventory status and their projected capacities for the upcoming months.

We will provide more detailed strategies on all the efforts in development to achieve the 2% of population testing goals in the July 2020 – Dec 2020 testing plan report.

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Table #1a: Number of individuals planned to be tested, by month

BY MONTH:	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	TOTAL
Diagnostics*	7,700	10,280							17,980
Serology	39,065	40,000							79,065
TOTAL	46,765	50,280	0	0	0	0	0	0	

Table #1b: Planned expansion of testing jurisdiction-wide

Name of testing entity	Testing venue (select from drop down)	Performing Lab (if different from testing entity)	Daily diagnostic throughput	Daily serologic throughput	Platforms or devices used (list all)	Specific at-risk populations targeted (list all)
Puerto Rico Department of Health	Public health lab	Biological and Chemical Emergencies Laboratory	250	0		Hospitalized patients.

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Name of testing entity	Testing venue (select from drop down)	Performing Lab (if different from testing entity)	Daily diagnostic throughput	Daily serologic throughput	Platforms or devices used (list all)	Specific at-risk populations targeted (list all)
Puerto Rico Department of Health	Public health lab	Institute of Public Health Laboratories of Puerto Rico	112	0		First responders (healthcare and non-healthcare workers)
Puerto Rico Department of Health	Drive-thru testing site	Quest Laboratories	120	0		First responders (healthcare and non-healthcare workers)
Carolina	Hospitals or clinical facility			27		Elderly, homeless, prison facilities, and community health care centers.
Loiza	Hospitals or clinical facility			20		Elderly, homeless, prison facilities, and community health care centers.
Metro	Hospitals or clinical facility			75		Elderly, homeless, prison facilities, and community health care centers.
Corozal	Hospitals or clinical facility			7		Elderly, homeless, prison facilities, and community health care centers.

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Name of testing entity	Testing venue (select from drop down)	Performing Lab (if different from testing entity)	Daily diagnostic throughput	Daily serologic throughput	Platforms or devices used (list all)	Specific at-risk populations targeted (list all)
Dorado	Hospitals or clinical facility			18		Elderly, homeless, prison facilities, and community health care centers.
Vega Alta	Hospitals or clinical facility			18		Elderly, homeless, prison facilities, and community health care centers.
Arecibo	Hospitals or clinical facility			670		Elderly, homeless, prison facilities, and community health care centers.
Barceloneta	Hospitals or clinical facility			16		Elderly, homeless, prison facilities, and community health care centers.
Lares	Hospitals or clinical facility			3		Elderly, homeless, prison facilities, and community health care centers.
Manati	Hospitals or clinical facility			5		Elderly, homeless, prison facilities, and community health care centers.
Morovis	Hospitals or clinical facility			7		Elderly, homeless, prison facilities, and community health care centers.

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Utado	Hospitals or clinical facility			7		Elderly, homeless, prison facilities, and community health care centers.
Aibonito	Hospitals or clinical facility			68		Elderly, homeless, prison facilities, and community health care centers.
Gurabo	Hospitals or clinical facility			7		Elderly, homeless, prison facilities, and community health care centers.
Humacao	Hospitals or clinical facility			4		Elderly, homeless, prison facilities, and community health care centers.
Las Piedras	Hospitals or clinical facility			5		Elderly, homeless, prison facilities, and community health care centers.
Naguabo	Hospitals or clinical facility			17		Elderly, homeless, prison facilities, and community health care centers.
Luquillo	Hospitals or clinical facility			13		Elderly, homeless, prison facilities, and community health care centers.

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Rio Grande	Hospitals or clinical facility			22		Elderly, homeless, prison facilities, and community health care centers.
Vieques	Hospitals or clinical facility			10		Elderly, homeless, prison facilities, and community health care centers.
Coamo	Hospitals or clinical facility			17		Elderly, homeless, prison facilities, and community health care centers.
Ponce	Hospitals or clinical facility			23		Elderly, homeless, prison facilities, and community health care centers.
San Sebastian	Hospitals or clinical facility			8		Elderly, homeless, prison facilities, and community health care centers.
Aguada	Hospitals or clinical facility			17		Elderly, homeless, prison facilities, and community health care centers.
Aguadilla	Hospitals or clinical facility			12		Elderly, homeless, prison facilities, and community health care centers.

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Lajas	Hospitals or clinical facility			20		Elderly, homeless, prison facilities, and community health care centers.

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2020 Direct Expansion of SARS-COV-2 Testing by Health Departments

2. Describe your public health department's direct impact on testing expansion in your jurisdiction.

The current testing capacity in the Puerto Rico Department of Health is for 1,022 diagnostic tests daily for a total of 30,660, which is 48% of the 2% of Puerto Rico's population (64,000). In order to reach 100% of the 2% population, we plan to increase testing capacity by acquiring new testing platforms for the Puerto Rico Public Health Laboratories that are high throughput (e.g. two Hologic Panther, >1,500 samples/day; one GeneXpert 16 modules, > 300 samples/daily), expand on rapid molecular testing using Abbott ID NOW platforms in mobile testing units for rapid result testing for local outbreaks and drive-thru sites across the island. To reach this capacity, we plan to expand workforce with medical technologists, laboratory assistants, data entry personnel and IT technicians for laboratory information management systems (LIMS) technical assistance and maintenance.

The PRDOH established working groups for at-risk population groups which include the elderly, prisons, healthcare and non-healthcare first responders and the homeless. Each working group draft strategies to do outreach to these communities and make testing accessible to them.

We created a COVID-19 Laboratory Response Team composed of PRDOH lab staff with a designated a laboratory administrator and response team leads that oversee the day to day operations of the laboratory. These response leads evaluate testing capacity, inventory of reagents, supplies and consumables for each testing platform on a daily basis to assure that resources are being maximize. The Laboratory Administrator oversees the sample collection at the drive-thru, transportation of samples to the PR Public Health Lab or the partner private lab, and results reporting. We have tasked one laboratory staff to report to CDC.

There are no plans to perform serology testing at PRDOH public health labs as these are tasked to perform diagnostic testing.

We are currently discussing a strategy to assure that we have the necessary workforce to manage all activities for the COVID-19 ELC supplements which include deploying/hiring dedicated staff for ELC only activities in the following offices: Purchasing Office, Finance Office, Contracts Office (for onboarding processes), and Budget Office.

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Table #2: Planned expansion of testing driven by public health departments

BY MONTH:	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	TOTAL
Number of additional* staff to meet planned testing levels	2	4							6
FOR DIAGNOSTIC TESTING									
How many additional* testing equipment/devices are needed to meet planned testing levels? (provide an estimated number, and include platform details in narrative above)	1	2							3
Volume of additional swabs needed to meet planned testing levels ⁺⁺	5,000	5,000							10,000
Volume of additional media (VTM, MTM, saline, etc.) needed to meet planned testing levels ⁺⁺	1.5 L	1.5 L							0
Volume of additional reagents needed to meet planned testing levels, by testing unit and platform (i.e. 100K/day - Hologic panther; 100k/day - Thermofisher)									
FOR SEROLOGIC TESTING									
Number of additional* equipment and devices to meet planned testing levels	39,065	40,000							79,065

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BY MONTH:	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	TOTAL
Volume of additional reagents needed to meet planned testing levels, by testing unit and platform (i.e. 100K/day - Hologic panther; 100k/day - Thermofisher)									

* Report new monthly additions only, not cumulative levels

++ For May and June, only include needs beyond the supplies provided by FEMA. Report new monthly additions only, not cumulative levels.