



GOVERNMENT OF  
BERMUDA

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## Coronavirus (COVID-19) update

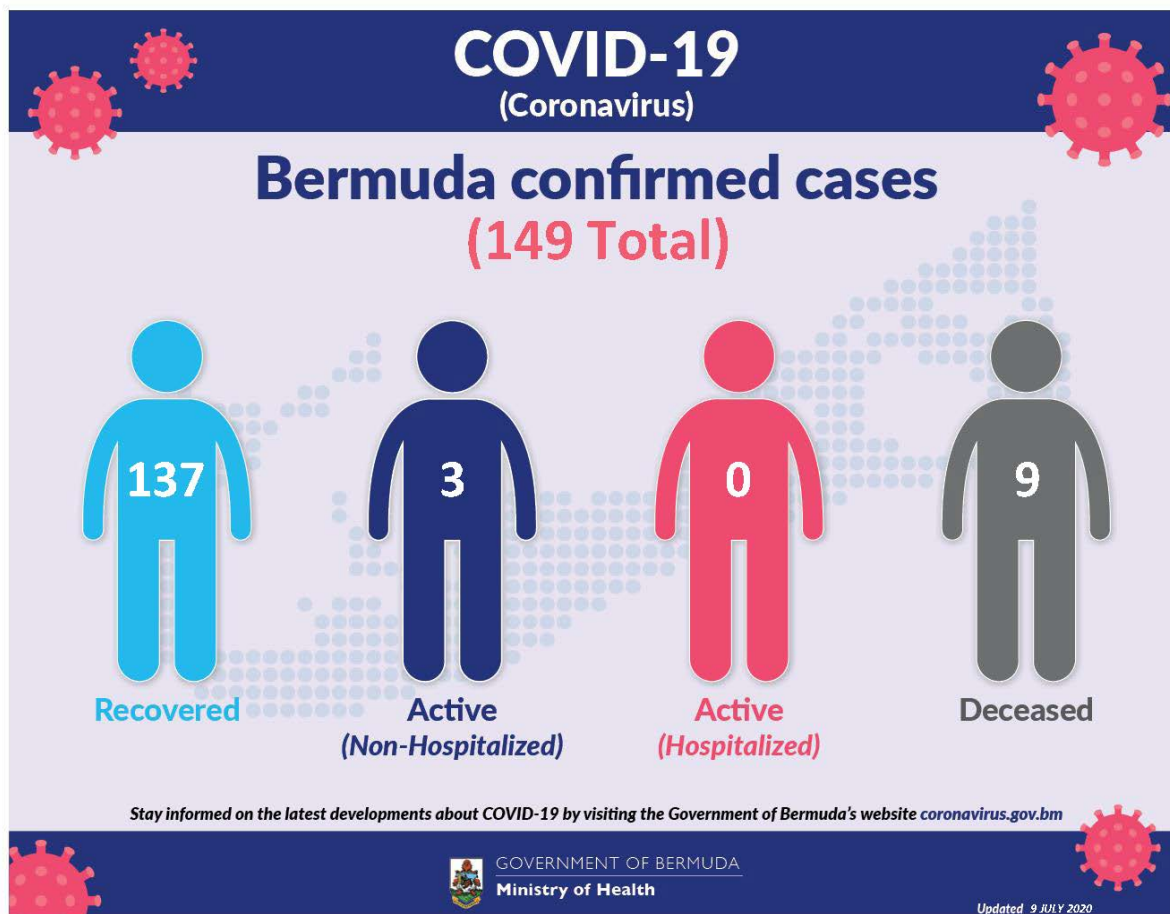
The current World Health Organization risk assessment for novel coronavirus (COVID-19) is very high risk globally. It is advised that all countries prepare for the possibility of COVID-19 in their communities. Everyone has a role to play in getting ready and staying healthy by practicing everyday prevention measures like frequent hand washing, staying home when sick and covering coughs and sneezes. The World Health Organization has declared the current coronavirus situation as a pandemic. A pandemic is the increased and sustained transmission of a disease across many countries.

Surveillance for respiratory illness has been enhanced in collaboration with local public health partners. Persons with respiratory illness including fever and cough should call ahead and inform their health care provider of their travel history prior to attending for medical care.

This is a rapidly changing situation. Please regularly check this page for updates.

**COVID-19 Dashboard 09 July, 2020**





Data as of 3:00 pm 09 July 2020

COVID-19 Testing	Total
Total	13047
Results negative	12898
Results positive	149
<b>Transmission Status of Confirmed Cases</b>	
Imported	45
Local Transmission [Known contact/source]	85
Local Transmission [Unknown contact/source]	16
Under Investigation	3
<b>Status of Confirmed Cases</b>	
Recovered	137
Active (non-hospitalized)	3

Active (hospitalized)	0
Deceased	9

**Imported:** Cases acquired outside of Bermuda.

**Local transmission:** Cases acquired within Bermuda

**Under investigation:** Type of transmission has not yet been determined. These cases are not imported and are likely the result of local transmission.

**Recovered:** Person has had no fever for at least 72 hours (3 days) without the use of fever-reducing medication, other symptoms have improved and at least 14 days have passed since onset of symptoms or testing date. Laboratory confirmation of at least one negative result may also be used as evidence of recovery.

**Country status:** Sporadic Cases

## COVID-19 Reopening Indicators

Bermuda is monitoring critical indicators to see how we are doing in managing COVID-19 and assess our readiness to move to the next phase of our reopening plan. These indicators are updated on Mondays and Thursday.

As of 9th July 2020:

## Lead Measures

As of 9th July 2020

"How Bermuda is doing; monitor bi-weekly to indicate likelihood of movement to the next phase"

### Preventive Behaviours



Face mask wearing	
HealthIQ Reports on observation of mask wearing	
Physical Distancing	
HealthIQ Reports on observation of 3 – 6ft physical distancing	
Adoption of technology	
Number of people participating in Health IQ / other apps	

### Capacity



Testing capacity	
In stock of all lab consumables, reagents and kits plus enabling resources: staff & PPE	
PPE supplies	
In stock of: surgical mask, N95 mask, gloves, gowns and face shields	

## Lag Measures

"How Bermuda has done so far; to confirm at the end of each phase that it is safe to move to the next phase"

### Transmission



WHO country classification	
WHO country classification	
Transmission	
Proportion of cases able to be linked to known cases or clusters	
Reproduction rate	
Real time reproduction number (average over last 7 days)	

### Cases and hospitalizations



Hospitalizations	
New COVID-related hospitalizations	
Critical care	
New COVID cases in critical care	
COVID-19 cases	
Number of new cases	

## Definitions

#### Lead measures:

**1. Face mask wearing:** HealthIQ Reports on observation of mask wearing –

- >95% report public wearing masks
- <80% report public wearing masks

**2. Physical distancing:** HealthIQ Reports on observation of 3 – 6ft physical distancing -

- >95% report public maintaining distance
- <80% report public maintaining distance

**3. Adoption of Technology:** Number of people participating in HealthIQ or Apps (public) -

- >10,000 unique respondents (All time)
- <5,000 unique respondents

**4. Testing capacity:** In stock of all lab consumables, reagents and kits plus enabling resources: staff & PPE

- >3 months' supply
- <1 months' supply

**5. PPE supplies (critical):** In stock of: surgical mask, N95 mask, gloves, gowns and face shields

- >5 months' supply
- >3 months' supply

#### Lag measures:

**6. Classification: WHO Country classification**

- Green: Sporadic cases
- Amber: Local transmission
- Red: Community transmission

**7. Transmission:** Proportion of cases able to be linked to known cases or clusters

- <10% unknown transmission
- >20% unknown transmission

**8. Reproduction rate:** Real time reproduction number average over last 7 days

- Rt <1.0
- Rt >1.4

**9. Hospitalizations:** New COVID-related hospitalizations

- <7 over last 7 days
- >21 over last 7 days

**10. Critical care:** COVID-related ICU cases

- <4 concurrent per week
- >7 concurrent per week

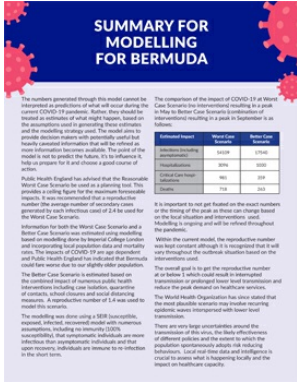
**11. COVID-19 cases:** Number of new cases per week

- <12 over last 7 days
- >35 over last 7 days

## Coronavirus (COVID-19) Modelling Data - 24 April

The numbers generated through this model cannot be interpreted as predictions of what will occur during the current COVID-19 pandemic. Rather, they should be treated as estimates of what might happen, based on the assumptions used in generating these estimates and the modelling strategy used. The model aims to provide decision makers with potentially useful but heavily caveated information that will be refined as more information becomes available. The point of the model is not to predict the future, it's to influence it, help us prepare for it and choose a good course of action.

Our analyses on COVID-19 infections, hospitalizations, and testing can be found at the links below:



**SUMMARY FOR MODELLING FOR BERMUDA**

The numbers generated through this model cannot be interpreted as predictions of what will occur during the current COVID-19 pandemic. Rather, they should be treated as estimates of what might happen, based on the assumptions used in generating these estimates and the modelling strategy used. The model aims to provide decision makers with information that may be useful in planning for the future. It is not intended to provide information that will be relied on for decision making. The model is a tool to assist in planning for a possible future pandemic of action.

Public Health England has advised that the Reinforced Model Case Scenario is used as a planning tool. This provides a useful figure for the maximum foreseeable impact. It is recommended that a conservative number (the average number of secondary cases generated by each infectious case) of 1.4 be used for the Reinforced Case Scenario.

Information for both the Worst Case Scenario and a Better Case Scenario is presented. The Worst Case Scenario is based on modelling done by Imperial College London and the Reinforced Case Scenario is based on modelling done by the University of Warwick. The impact of COVID-19 on age dependent and Public Health England has indicated that the Reinforced Case Scenario is the most likely to occur. The Reinforced Case Scenario is estimated based on the assumption of a 1.4 secondary cases generated by each infectious case. The Reinforced Case Scenario is based on the assumption of a 1.4 secondary cases generated by each infectious case. The Reinforced Case Scenario is based on the assumption of a 1.4 secondary cases generated by each infectious case.

The modelling was done using a SEIR (Susceptible, Exposed, Infected, Recovered) model with numerous assumptions, including the following: the population is homogeneous, individuals are equally infectious from asymptomatic individuals and their open recovery individuals are immune to re-infection in the short term.

The comparison of the impact of COVID-19 at Worst Case Scenario for interventions resulting in a peak in May to Better Case Scenario (combination of interventions resulting in a peak in September) is as follows:

Intervention Target	Worst Case Scenario	Better Case Scenario
Population aged 15+	8000	1000
Population aged 65+	2000	500
Unvaccinated population	500	100
Deaths	750	250

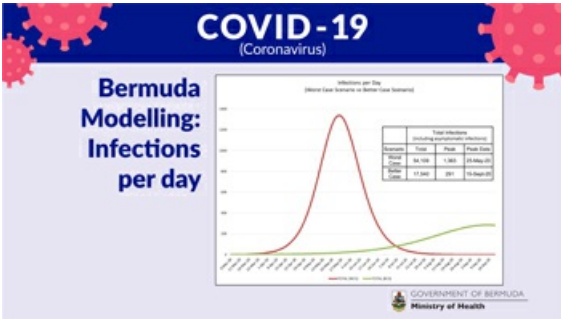
It is important to not get fixated on the exact numbers or the timing of the peak as these are largely based on the local situation and intervention used. Modelling is ongoing and will be refined throughout the pandemic.

Within the current model, the reproductive number was kept constant although it is recognised that it will vary throughout the outbreak scenario based on the intervention used.

The overall goal is to get the reproductive number as close to 1 as possible which would result in interrupted transmission or prolonged time that transmission and reduce the peak demand on healthcare services.

The World Health Organisation has also stated that the most desirable scenario may involve securing conditions where interrupted with lower level transmission.

There are very large uncertainties around the transmission of this virus, the body effectiveness of different policies and the extent to which the population demonstrates capacity for reducing behaviour. Use of real time data and intelligence is crucial to assess what is happening locally and the impact on healthcare capacity.



**COVID-19 (Coronavirus)**

**Bermuda Modelling: Infections per day**

Infections per Day (Worst Case Scenario vs Better Case Scenario)

The graph shows two curves: a red curve for the Worst Case Scenario and a green curve for the Better Case Scenario. The red curve peaks at approximately 1000 infections per day in May, while the green curve peaks at approximately 200 infections per day in September. The x-axis represents time from March to December, and the y-axis represents the number of infections per day.

Total Infections (including asymptomatic and recovered)			
Scenario	Peak	Peak Date	Peak Value
Worst Case	1000	10 May 20	1000
Better Case	200	10 Sep 20	200

GOVERNMENT OF BERMUDA  
Ministry of Health

Summary for modelling for Bermuda

Modelling Estimates for Bermuda and Potential impact of Non-Pharmaceutical Interventions (NPIS) 24 April 2020

## COVID-19 Health Screening

Welcome to the Health Department's COVID-19 health screening registration form for the Bermuda Government Molecular Diagnostic Testing Laboratory at the old White's Supermarket at Southside. Please choose and register for a timeslot that suits you for your screening. Please ensure to bring your confirmation number with you for your screening. Instructions: Please remain in your car or on your bike, with a mask on and your windows up until directed. Your results will be communicated to you by your doctor.

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GOVERNMENT OF BERMUDA  
Ministry of Health and Services  
Department of Health



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