Outbreak of Coronavirus Disease (COVID-19)
CARPHA Situation Report – No. 21 March 11, 2020

Summary

This is an update to the Situation Report in relation to the outbreak of COVID-19, published on March 9, 2020.

On March 11, the WHO Director General Dr Tedros Adhanom Ghebreyesus declared the COVID-19 viral outbreak as a pandemic.

The first case of the disease in the English-Speaking Caribbean was reported in Jamaica on 10 March 202, totaling to 17 cases in 6 Caribbean countries/territories to date. The risk of further importation of cases to the Caribbean remains Very High.

The Regional Coordinating Mechanism for Health Security (RCM-HS), is actively working with Heads of Government and regional partners on a collective approach to the COVID-19 response.

Countries are strongly urged to strengthen their health sector response and move to a state of readiness and rapid response.

Health authorities in CARPHA Member States (CMS) must be ready to respond to possible importation of cases and subsequent local transmission. They are also encouraged to increase their capacity for surveillance and review their pandemic preparedness plans, as a matter of urgency.

Updates in this report

• COVID-19 outbreak declared a Pandemic by WHO
• First confirmed case in CARICOM Member State

Situation Update

Risk Assessment

In a statement on 11 March, the WHO Director General Dr Tedros Adhanom Ghebreyesus said that WHO has made the assessment that the COVID-19 outbreak can now be characterized as a pandemic. This characterization rose from the 13-fold increase in COVID-19 cases outside of China with a tripling of the number of affected countries within the past two weeks. This has caused deep concern of not only its rapid spread and severity but also the disturbing lack of action observed in some countries. WHO expects an increase in the number of cases, deaths and affected countries.

Numbers at a Glance

Clinically diagnosed and laboratory confirmed cases

Globally
118,162 cases (8,819 new)

In China
80,955 cases (51 new)
61,653 recovered (2,860 new)
3,162 deaths (39 new)

In the Caribbean
6 countries, areas or territories (1 new)
17 cases (6 new)
0 deaths

Rest of the World
107 countries, areas or territories and Other* (9 new)
37,190 cases (8,751 new)
4,563 recovered (983 new)
1,128 deaths (442 new)

*Persons on board the Diamond Princess cruise ship harbored in Yokohama, Japan

WHO Risk Assessment

China Very High
Globally Very High
Caribbean Very High
Despite the current situation, in a statement few days earlier, Dr Tedros Ghebreyesus reminded listeners that with decisive, early action, we can slow down the virus and prevent infections. He emphasised that ‘Among those who are infected, most will recover.’ The aim he said for all countries, was to stop transmission and prevent the spread of the virus. He encouraged everyone to take heart from the fact that most countries still have sporadic cases or defined clusters. Overall, 93% of all cases reported globally so far are from just four countries.

However, since different countries are experiencing different scenarios, their individual response needs to be tailored. Countries must focus on finding, testing, treating and isolating individual cases, and following their contacts if they had no cases, sporadic cases or had clusters. For those countries with community spread, it is more challenging to test every suspected case and tracing their contacts. Hence, efforts must be directed at preventing transmission of disease at the community level in order to reduce the epidemic to manageable clusters.

The risk of disease importation to the Caribbean Region remains Very High. This risk is influenced by several factors, including: (i) confirmed cases of COVID-19 reported from several countries in the Caribbean region, including one case from a CARPHA Member State and a country sharing land borders with a Member State; (ii) sustained transmission of disease in countries with direct flights into the Caribbean Region; (iii) multiple countries outside the epicentre of the outbreak reporting secondary cases linked to imported cases, including an increasing number of countries reporting confirmed cases; and significantly more new cases reported from countries outside of China than from within China.

Caribbean Regional Coordination

CARPHA is leading the regional health response to COVID-19, in keeping with its Intergovernmental Agreement (IGA) mandate from CARICOM and recommendations from COHSOD- Health working group on regional coordination for management. As such, CARPHA activated its Incident Management Team-Emergency Response (IMT-ER) on January 21, and convened the Regional Coordinating mechanism for Health Security (RCM-HS), consisting of Member States, regional and international agencies including CDEMA, CARICOM, Organisation of Eastern Caribbean States (OECS), Pan American Health Organization (PAHO), the Caribbean Community Implementation Agency for Crime and Security (IMPACS), US Center for Disease Prevention and Control (CDC), Public Health England (PHE), Public Health Agency Canada (PHAC), and continues to work with its partners an countries, towards a harmonized regional response. In this regard, there are ongoing meetings convened weekly.

In keeping with mandates from CARICOM and recommendations from COHSOD - Health working group on regional coordination for management of the virus, CARPHA has led the development of various guidelines including those for the management of cases on cruise ships, aircrafts, in hotels and among hotel staff and a draft Health Sector response plan. These guidelines have been circulated to Member State countries and can be used to guide their national response efforts where necessary. The guidelines have already been adopted by some countries and regional stakeholders.

Internal capacity has been built in various Caribbean countries to test for COVID-19, including: Barbados, Suriname, Guyana, Trinidad and Tobago, Dominica, Jamaica, Belize, Bahamas and Haiti. Other countries in the region including Martinique, French Guiana, Curacao, Aruba and St Martin and the British territories of Cayman and Bermuda also have capacity for testing.

Epidemiological Summary

COVID-19 in the Caribbean

On March 10, 2020, the first cases of COVID-19 in the English-Speaking Caribbean was reported by Jamaica. Since the last Situation Report was published, the number of cases in the Caribbean include five in the Dominican Republic, five in French Guiana, three in Martinique, two in Saint Martin, one in Jamaica and one in St. Barthelemy. In Latin and South America, cases are now being reported in Bolivia (2), Panama (8) and Paraguay (4) while there has been an increase in the total number of cases in Brazil (34), Argentina (17), Chile (17), Costa Rica (13), Peru (11) and Colombia (3). The total number of cases in remained consistent in Ecuador (15) and Mexico (7). There also continues to be only one death reported in Argentina.

The data contained in Table 1 are obtained from data reported by the WHO, supplemented by other sources – (Reference 1 and 2 in Table 1).

As of March 11, WHO reported 118,162 cases of patients with COVID-19. Outside of China, 113 countries have confirmed at least one case among travellers exposed in China, Iran or Italy and/or person-to-person contact. Of the deaths reported to date, 1,128 were from outside of China. Several new countries, areas or territories in Europe (Cyprus, Guernsey), Asia (Brunei, Mongolia), Africa (Burkina Faso), the Americas (Bolivia, Panama, Paraguay) and the Caribbean (Jamaica) reported their first confirmed case of COVID-19 in the last 48 hours. Confirmed cases reported from China’s Hubei province include clinically diagnosed cases without laboratory confirmation.

See Table 1 below for more details on cases, deaths and recoveries.
Table 1: Countries or Territories with reported cases of COVID-19, 11 March 2020

<table>
<thead>
<tr>
<th>Region</th>
<th>Country/Territory</th>
<th>Cases</th>
<th># increased by in last 48hrs</th>
<th>Deaths</th>
<th>Recovered</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asia</td>
<td>China*</td>
<td>80,955</td>
<td>51</td>
<td>3162</td>
<td>61,653</td>
</tr>
<tr>
<td></td>
<td>Iran</td>
<td>7,755</td>
<td>373</td>
<td>60</td>
<td>247</td>
</tr>
<tr>
<td></td>
<td>South Korea</td>
<td>8,042</td>
<td>1,476</td>
<td>291</td>
<td>2,959</td>
</tr>
<tr>
<td>Asia</td>
<td>Rest of Asia**</td>
<td>848</td>
<td>206</td>
<td>9</td>
<td>153</td>
</tr>
<tr>
<td></td>
<td>Japan</td>
<td>568</td>
<td>80</td>
<td>12</td>
<td>101</td>
</tr>
<tr>
<td></td>
<td>Singapore</td>
<td>166</td>
<td>16</td>
<td>0</td>
<td>78</td>
</tr>
<tr>
<td>Caribbean</td>
<td>Dominican Republic</td>
<td>5</td>
<td>4</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>French Guiana</td>
<td>5</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Martinique</td>
<td>3</td>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Saint Martin</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Jamaica</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Saint Barthelemy</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Oceania</td>
<td>Australia</td>
<td>112</td>
<td>35</td>
<td>3</td>
<td>21</td>
</tr>
<tr>
<td></td>
<td>New Zealand</td>
<td>5</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Europe</td>
<td>Italy</td>
<td>10,149</td>
<td>2,774</td>
<td>631</td>
<td>724</td>
</tr>
<tr>
<td></td>
<td>France</td>
<td>1,774</td>
<td>658</td>
<td>33</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Spain</td>
<td>1,639</td>
<td>1,050</td>
<td>35</td>
<td>136</td>
</tr>
<tr>
<td></td>
<td>Rest of Europe***</td>
<td>1,571</td>
<td>653</td>
<td>2</td>
<td>23</td>
</tr>
<tr>
<td></td>
<td>Germany</td>
<td>1,296</td>
<td>394</td>
<td>2</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>Switzerland</td>
<td>476</td>
<td>144</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Netherlands</td>
<td>382</td>
<td>117</td>
<td>4</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>United Kingdom</td>
<td>373</td>
<td>96</td>
<td>6</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>Sweden</td>
<td>326</td>
<td>123</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Africa</td>
<td>Egypt</td>
<td>59</td>
<td>4</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Algeria</td>
<td>20</td>
<td>3</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Rest of Africa’</td>
<td>27</td>
<td>12</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Americas</td>
<td>United States of America</td>
<td>696</td>
<td>483</td>
<td>25</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>Canada</td>
<td>79</td>
<td>19</td>
<td>1</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>Brazil</td>
<td>34</td>
<td>9</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Rest of Americas’’’</td>
<td>24</td>
<td>16</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Argentina</td>
<td>17</td>
<td>5</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Chile</td>
<td>17</td>
<td>7</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Ecuador</td>
<td>15</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>
Epidemiological assessment

The epidemiology of COVID-19 has been characterized based on preliminary information and statistics from early cases. COVID-19 patients present in three levels of severity [WHO]:

- **Mild 80%**: Patients presenting with some of the following mild flu-like symptoms: fever, nausea, cough, vomiting, and diarrhoea; some may develop dyspnea or a mild pneumonia. Most patients will not progress past this phase, will recover after a week and may be cared for at home.

- **Severe 15%**: Severe patients present with severe pneumonia, acute respiratory distress syndrome, and sepsis. These patients require hospitalisation but still can recover with good medical care.

- **Critical 5%**: Critical patients have respiratory failure (requiring mechanical ventilation), septic shock, and multi-organ failure and require care in an Intensive Care Unit (ICU).

Mission

CARPHA’s aim is to work with regional and international health partners to respond to this public health threat and provide timely advice and assistance to Member States and stakeholders.

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5 World Health Organization. Clinical management of severe acute respiratory infection when novel coronavirus (2019-nCoV) infection is suspected. 28 January 2020
Governance
CARPHA’S Incident Management Team – Emergency Response (IMT-ER) is leading the health response in keeping with CARPHA’s mandate from the Intergovernmental Agreement (IGA). The IMT-ER produces Situation Reports three times weekly.

Operations
Surveillance and Technical Response

- CARPHA distributed a modified Weekly Syndromic Surveillance and COVID-19 Reporting Form to Member States to include COVID-19 surveillance in each week’s report. CARPHA is reminding Member States to use the form for weekly reporting. A summary of COVID-19 surveillance received from Member States is presented in Table 2.

Table 2: CARPHA Surveillance received from Member States, as of 11 March 2020

<table>
<thead>
<tr>
<th>Reporting Source</th>
<th>Airport</th>
<th>Seaport</th>
<th>Overall Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Travellers with exposure or travel history</td>
<td>80</td>
<td>109</td>
<td>*</td>
</tr>
<tr>
<td>Symptomatic travellers seen at Health facilities</td>
<td>0</td>
<td>3</td>
<td>*</td>
</tr>
<tr>
<td>Travellers quarantined by public health authority</td>
<td>36</td>
<td></td>
<td>*</td>
</tr>
<tr>
<td>Travellers self-quarantined at home</td>
<td>7</td>
<td></td>
<td>*</td>
</tr>
<tr>
<td>No. of travellers completing 14-day isolation/quarantine</td>
<td>20</td>
<td>31</td>
<td>*</td>
</tr>
<tr>
<td>No. of travellers tested during the reporting period</td>
<td>3</td>
<td>5</td>
<td>*</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Outcome of tests</th>
<th>Positive</th>
<th></th>
<th>Probable</th>
<th></th>
<th>Negative</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>3</td>
<td>5</td>
</tr>
</tbody>
</table>

*To date four Member States reported data for EPI-Week 9. **Not reported. No. refers to the number of persons reported in EW-X; Cum. refers to the number of persons to date, i.e. EW 1-X.
CARPHA has disseminated a Health Sector Response Plan to Member States to guide their national response efforts where necessary.

- The CARICOM Implementation Agency for Crime and Security (IMPACS), has expanded the tracking of passengers from China to include countries and/or territories with CDC travel advisories (Hong Kong, Iran, Italy, Japan, South Korea). The Joint Regional Communication Centre (JRCC) will track and send relevant information to countries.
- Various technical guidelines have been developed including algorithms to assist CARPHA Member States (CMS) to triage and manage suspected cases within their borders and in clinical settings. To view all CARPHA technical guidance documents regarding COVID-19, please visit the CARPHA website at http://carpha.org/What-We-Do/Public-Health/Novel-Coronavirus (See also a list on page 10 of this Report).

### Laboratory

- CARPHA Medical Microbiology Laboratory (CMML) is working closely with Laboratory Directors on plans of action to manage the COVID-19 emergency.
- Effective March 2nd, only Nasopharyngeal and Oropharyngeal swabs (paired) will be accepted for testing. Neither urine nor serum will be further required.
- Table 3 provides a breakdown of the number of samples and the results for tests carried out by CMML as at Epi week 11.

**Table 3: Summary of laboratory test results for SARS-CoV-2 conducted at CMML as at 10 March 2020.**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Antigua &amp; Barbuda</td>
<td>1</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Bermuda</td>
<td>3</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>British Virgin Island</td>
<td>3</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>Jamaica*</td>
<td>2</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>St. Lucia</td>
<td>2</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>St. Vincent and The Grenadines</td>
<td>5</td>
<td>0</td>
<td>5</td>
</tr>
<tr>
<td>Trinidad and Tobago</td>
<td>37</td>
<td>0</td>
<td>37</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>53</strong></td>
<td><strong>0</strong></td>
<td><strong>53</strong></td>
</tr>
</tbody>
</table>

*COVID-19 cases detected in-country by National Laboratory*
Communication and Information

- On 6th March 2020 CARPHA dispatched a media release outlining that CARPHA is the only approved regional reference laboratory to test for the novel coronavirus disease.
- CARPHA dispatched a media release on 3 March 2020, stating the risk of importation of COVID-19 is VERY HIGH following reports of imported cases within the Caribbean region.
- On 3rd March 2020 CARPHA Executive Director joined Honourable Minister of Health for Trinidad and Tobago Terrence Deyalsingh on CNC3 The Morning Brew. [https://youtu.be/Zq0-ezPpK0w](https://youtu.be/Zq0-ezPpK0w)
- On the 28th February 2020, CARPHA Communications Unit met with the Regional Health Communications Network (RHCN) to discuss and provide updates on country’s level of preparedness and health promotion activities. Thirteen member states and CARICOM were in attendance.
- Leaders at the 31st Intercessional Meeting of the Conference of Heads of Government of CARICOM welcomed the Communication Strategy developed by CARPHA to increase public knowledge on actions to prevent importation and/or transmission of the virus in the Region. They noted that the strategy was important to counter myths and misinformation, thereby reducing potential social media hysteria associated with the fear of an outbreak in CARICOM Member States.
- CARPHA Communications Unit is working closely with the Regional Health Communications Network (RHCN) and other stakeholders to provide timely updates and information. They have also developed various videos and infographics to counteract myths about the disease circulating in the Region. The latest media release and other relevant guidelines are available on CARPHA’s website. Available from: [http://carpha.org/What-We-Do/Public-Health/Novel-Coronavirus](http://carpha.org/What-We-Do/Public-Health/Novel-Coronavirus).

Logistics and Planning

- Samples from Member States and reagents are being processed through the Trinidad and Tobago Customs Department without delay.
- Several Member States have implemented various measures to limit importation of the disease, including screening at ports of entry. Details can be obtained from the Ministries of Health of each Member State.

Stakeholder Engagement

CARPHA is working closely with various stakeholders for a coordinated regional response, including the following:
• On March 11, CARPHA hosted a Facebook Live Media Symposium and round table discussion on COVID-19. Some of the areas discussed included Fair and responsible media, curbing the spread of misinformation and getting the facts and figures right.
• On March 8, Dr. Joy St. John, Executive Director was a presenter and participated in panel discussion with the Ministry of Health, Jamaica and public health professionals at Meadowbrook United Church in local community outreach to inform on COVID-19 and national and regional preparedness.
• On March 8, Dr. Lisa Indar, Assistant Director, Surveillance Disease Prevention and Control met with PM St Lucia, Minister of Health and Tourism, Jamaica and CMOs and members of the Cruise Line Industry in Miami, USA to discuss the Regional coordination COVID-19 protocol for passenger ships.
• On March 5, CARPHA participated in two regional planning meetings facilitated by Caribbean Disaster Emergency Management Agency (CDEMA). In the COVID 19 - Scenario Planning meeting, CARPHA reviewed and advised on possible scenarios, solutions and guidelines for stakeholders, and general guidelines for regional coordination with partner organizations and countries in the region. Included were possible scenarios. CDEMA used these recommendations to create a matrix to guide participants. At the COVID 19 - Meeting of the Caribbean Development Partners Group, CARPHA provided a situation update on the outbreak, CARPHA’s actions to date and gave recommendations of how to create a coordinated, regional preparedness and response.
• With the number of new cases being reported and the increased numbers of travel related restrictions, CARPHA has seen an increase in the number of requests from organisations around the region for assistance with the development of contingency plans for business continuity and information to guide staff. CARPHA has produced some general documents to assist organisations in this process to plan for a COVID-19 outbreak in their area. These are available from CARPHA’s coronavirus website under resources for businesses.
• On March 6, weekly meeting held with expert Technical Advisory Group during the COVID-19 response. Created guidelines for a Regional Coordinated Response with recommendations for CMS on how to prepare for and respond to COVID-19 cases. Discussed further recommendations for cruise lines and PAHO support for surge capacity through the use of Rapid Response Teams.
• The Executive Director and Acting Director of Surveillance Disease Prevention and Control attended the CARICOM Heads of State meeting in Barbados on March 1, 2020 to give clear guidance on how countries should proceed in their efforts to prepare their countries for a possible COVID-19 outbreak and a likely COVID-19 pandemic declaration by WHO.
• The Executive Director and Acting Director of Surveillance Disease Prevention and Control represented CARPHA at a CARICOM Heads of Government Press Conference to provide updated information on the current situation and what is being done to keep the region safe.
• The working group of CARPHA, Florida Caribbean Cruise Association (FCCA) and CDEMA met to better clarify what cruise ships will do to assist in correct and on time reporting as ensure the CMS know their rights and responsibilities.
• Participated in two Emergency Meetings of the Council for Human and Social Development (COHSOD) of the CARICOM to discuss the approach to a regional coordination of COVID-19.
• Hold weekly coordination meetings with PAHO regional representatives.
• Ongoing communications and meetings with CARICOM and Chief Medical Officers on regional health response to COVID-19.
• A full list of CARPHA actions are available in the attachment

Way Forward

In echoing Dr Tedros Adhanom Ghebreyesus in his speech on March 5: the response to the COVID-19 epidemic is not a one-way street. The experiences of China and South Korea has demonstrated that, with a collective, coordinated and comprehensive approach that engages the entire machinery of government, the epidemic can be pushed back.

With the announcement of the first confirmed case in the English-speaking Caribbean and a number of cases in neighbouring countries and territories, each country’s measures of preparedness and readiness for response will be tested over time. In the words of the Director General, ‘We are calling on every country to act with speed, scale and clear-minded determination. This is not a drill. This is not the time to give up. This is not a time for excuses. Our countries have been planning and preparing for scenarios like this for decades. It is now time to act on those plans.’

Member States are advised to ramp up their disease surveillance efforts for acute respiratory infections/severe acute respiratory infections both at the primary and secondary care levels, as a matter of urgency.

CARPHA would like to draw attention to various guidance documents, including several protocols for early investigations available from WHO website at: https://www.who.int/docs/default-source/coronaviruse/situation-reports/20200216-sitrep-27-covid-19.pdf?sfvrsn=78c0eb78_2

CARPHA is working with technical experts across the Region to provide up-to-date guidance and technical advice to CMS. CARPHA remains committed to providing support and guidance to Member States on how to strengthen their health systems response should there be person-to-person transmission in the Caribbean.

CARPHA continues to work through the Regional Coordination Mechanism for Health Security and the various regional coordination efforts to engage and support Member States, regional and international partners for the health security of the region.
Various CARPHA documents can be accessed from our website using the embedded links:

**Technical Documents**

- Traveller’s Guidelines
- Algorithm for Management of a suspected case
- Guidelines for Ports of Entry
- Guidelines for Conveyances
- Algorithm for contact tracing on conveyances
- Updated Travel Brief
- Interim Guidance about the Coronavirus Disease (COVID19) for Hotels and Guesthouses in the Caribbean

**Media Releases**

- CARPHA has the only CARICOM regional reference laboratory accredited to test for COVID-19
- CARPHA raises COVID-19 alert to Very High following reports of imported cases in the Caribbean
- CARPHA Upgrades the Risk of Transmission of Coronavirus in the Caribbean to Moderate to High
- CARPHA Commended for Regional Response to Coronavirus COVID-19 at Heads of Government
- The Risk of 2019-nCoV Remains Low for the Caribbean but CARPHA Encourages Vigilance at Ports of Entry
- 2019-nCoV: CARPHA urges the Region to be Vigilant, Be Prepared
- Risk of Novel Coronavirus in the Caribbean "Low" says CARPHA, but Preparation Needed
- CARPHA Medical Microbiology Laboratory is Ready to Respond to 2019-nCoV

**Communications Material**

- Let’s Talk Coronavirus (COVID-19): Series 1: How Serious is the Coronavirus and how can I protect myself from getting the disease
- Is there a new bleach cocktail that can cure and protect against the Flu and the Novel Coronavirus?
- How is the Novel Coronavirus new? Lysol and Clorox have “Human Coronavirus” listed on their labels
- Can a surgical mask protect me from coronavirus? CARPHA Biorisk Manager explains
- Who should wear a mask for protection against coronavirus? CARPHA Biorisk Manager responds
- Card 1: Cover your nose and mouth
- Card 2: Cough or sneeze into elbow
- Myth Buster 1: Wearing a face mask will prevent me from getting coronavirus disease
- Myth Buster 2: Eating garlic can help prevent infection from the coronavirus disease

**External Online Training Resources**

- Infection Prevention and Control (IPC) for Novel Coronavirus (COVID-19). OpenWHO
- A general introduction to emerging respiratory viruses, including novel coronaviruses (available in French, Simplified Chinese, and Spanish as well). OpenWHO
- Health and safety briefing for respiratory diseases - ePROTECT. OpenWHO
- ECDC Micro Learning platform – A suite of short (<2 hours) courses on the control of COVID-19
References