PROCUREMENT AND SUPPLY CHAIN FOR COVID-19
WHO support to COVID-19 preparedness and response

|---------------------|----------------------|-----------------------------|-----------------------------|----------------|--------------------------------|--------------------------|------------------|-------------------|------------------------|----------------|-----------------------------|

**WHO support includes:**

- All pillars of the public health response in the Strategic Preparedness & Response Plan
- Maintaining essential health services as outlined in the “Health First” section of the Socio-Economic Response Plan
- Health needs under the Global Humanitarian Response Plan
# WHO Emergency Use Listing for In vitro diagnostics (IVDs) Detecting SARS-CoV-2 Nucleic Acid

Last update: 14 May 2020

<table>
<thead>
<tr>
<th>Date Listed</th>
<th>Product name</th>
<th>Product code(s)</th>
<th>Manufacturer</th>
</tr>
</thead>
<tbody>
<tr>
<td>03 April 2020</td>
<td>cobas SARS-CoV-2 Qualitative assay for use on the cobas 6800/8800 Systems</td>
<td>09175431190 and 09175440190</td>
<td>Roche Molecular Systems, Inc.</td>
</tr>
<tr>
<td>09 April 2020</td>
<td>Abbott Realtime SARS-CoV-2</td>
<td>09N77-090 and 09N77-080</td>
<td>Abbott Molecular Inc.</td>
</tr>
<tr>
<td>24 April 2020</td>
<td>PerkinElmer® SARS-CoV-2 Real-time RT-PCR Assay</td>
<td>SY580</td>
<td>PerkinElmer Inc.</td>
</tr>
<tr>
<td>07 May 2020</td>
<td>Real-time fluorescent RT-PCR kit for detecting 2019-nCoV</td>
<td>MFG030011</td>
<td>BGI Europe A/S</td>
</tr>
<tr>
<td>14 May 2020</td>
<td>Detection Kit for 2019 Novel Coronavirus (2019-nCoV) RNA (PCR- Fluorescence Probing)</td>
<td>DA0930, DA0931 and DA0932</td>
<td>Da An Gene Co., Ltd. Of Sun Yat-sen University</td>
</tr>
</tbody>
</table>

Final Public Reports to be posted on the website once completed

Source: https://www.who.int/diagnostics_laboratory/EUL/en/
Current diagnostic recommendations

WHO currently recommends the use of nucleic acid (also called ‘molecular’) testing to identify patients with COVID-19

• Several automated platforms exist: sample in, result out
• More manual, open platforms also exist: allow for greater access to test reagents and flexibility
• Testing biosafety standards being revised
• Necessary specimen handling and transportation should be considered
Current diagnostic recommendations

- WHO does not currently recommend the use of **antigen-detecting rapid diagnostic tests for patient care**, although research into their performance and potential diagnostic utility is highly encouraged.

- WHO does not recommend the use of **antibody-detecting rapid diagnostic tests for patient care**, but encourages the continuation of work to establish their usefulness in disease surveillance and epidemiologic research.

  - Do antibodies confer immunity?
  - What are the rates of seroconversion?
  - Key interpretation challenges if used in diagnosis:
    - Inability to discriminate active from past infection
    - False negatives: early and late in infection
    - Over-reliance on test result rather than clinical acumen
    - Performance
Supply chain system – overview

**Consolidated Demand**
- Country Planning & Financing
  - Technical & planning guidance
  - National authorities
  - Implementing partners & Donors
- Essential Supplies Catalogue
  - PPE
  - Diagnostics
  - Therapeutics
  - Vaccines
  - Oxygen
  - Clinical Care

**Demand Management**
- Demand & supply forecasting
- Consolidation & validation of country requests
- Allocation principles by SC Task Force

**Country Implementation**
- Receipt & local distribution
- Training & capacity building
- Operations support

**Equitable Access**
- Control tower
  - Allocation & request
- Warehousing & Distribution
  - Unitaid
  - UNICEF

**Coordinated Procurement**
- Purchasing and virtual stockpiles
  - Global sourcing
  - Price & volume negotiation
  - Quality assurance & testing
  - Finance & Innovation to increase production

**Suppliers and Manufacturers**
- World Health Organization
- UNICEF
- Gavi
- UNITAID
Supply chain system – requesting and receiving

1. Consolidated demand
   a. Consolidate supply needs under National Action Plans and identify requestors
      [National authorities with RC/HC and responding partners]
   b. Identify funding source and submit supply request through Supply Portal
      [Requestor]
   c. Validate submitted requests
      [Supplies Portal Coordinator]

2. Coordinated purchasing
   a. Review requests against availability and identify supplying agencies
      [Technical consortia working groups]
   b. Confirm order and funding source with requestor
      [Purchaser]
   c. Commit supplies for distribution
      [Purchaser]

3. Streamlined distribution
   a. Schedule shipments and move supplies to distribution hubs
      [WFP]
   b. Arrange transport to port of entry and inform requestor
      [WFP]
   c. Receive and clear supplies for in-country implementation
      [Requestor]
A Diagnostics Consortium for COVID-19 has been developed that includes WHO, Global Fund, Unicef, Gates Foundation, ACDC, CHAI, FIND, GDF, MSF, PAHO, UNDP, Unitaid, and World Bank

- Gathering information and data on tests in development
- Working with suppliers to negotiate access to tests as well as lower prices
- Developing an equitable allocation plan for distribution to all LMICs and small island states
- Additional technologies will be brought into the consortium as available
## Supply pipeline – diagnostics and testing

<table>
<thead>
<tr>
<th>Product</th>
<th>Unit Cost (US$)</th>
<th>Available Pipeline (‘000)</th>
<th>Total Value (US$ million)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>May</td>
<td>June</td>
</tr>
<tr>
<td>Automated test - Abbott</td>
<td>19.00</td>
<td>320</td>
<td>400</td>
</tr>
<tr>
<td>Automated test - Cepheid</td>
<td>19.80</td>
<td>83</td>
<td>65</td>
</tr>
<tr>
<td>Automated test - Roche</td>
<td>15.20</td>
<td>27</td>
<td>83</td>
</tr>
<tr>
<td>Automated test - Thermofisher</td>
<td>12.00</td>
<td>260</td>
<td>550</td>
</tr>
<tr>
<td>Manual test - BGI (incl sample collection)</td>
<td>12.70</td>
<td>2,000</td>
<td>2,000</td>
</tr>
<tr>
<td>Manual test - Thermofisher</td>
<td>12.00</td>
<td>2,000</td>
<td>2,000</td>
</tr>
<tr>
<td>Sample collection kit</td>
<td>1.60</td>
<td>3,050</td>
<td>3,050</td>
</tr>
<tr>
<td><strong>Grand Totals</strong></td>
<td><strong>4,690</strong></td>
<td><strong>5,098</strong></td>
<td><strong>5,628</strong></td>
</tr>
</tbody>
</table>
Thank you!