Summary


- **Criteria for Testing:** Patients must meet clinical and risk criteria for a patient under investigation (PUI) in order to submit specimens for COVID-19 virus testing: http://www.floridahealth.gov/diseases-and-conditions/COVID-19/providers/index.html

- **Specimen Collection:** Appropriate specimens should be collected for real-time reverse transcription polymerase chain reaction (rRT-PCR). Additional specimens may also be collected upon consultation with epidemiology staff for other testing. Specimens for rRT-PCR testing should be collected as soon as possible once a PUI is identified, regardless of the time of symptom onset. Preferred specimens include:
  - Upper respiratory tract specimens (nasopharyngeal swab in 2-3 ml of viral transport media).
  - Lower respiratory tract specimens (sputum, in a sterile leak-proof container), for those patients with productive coughs. Induction of sputum is not indicated.

- **Packaging and Shipping:**
  - **Commercial Carrier:** All suspect COVID-19 virus diagnostic specimens must be packaged according to International Air Transport Association (IATA) and U.S. Department of Transportation (USDOT) Packaging Instructions 650 for Biological substance, Category B agents. This requires specimens be packed in a basic triple packaging system with a primary watertight container with absorbent material, secondary watertight container and an outer shipping package.
  - **Courier:** As above, specimens should be packaged in a basic triple packaging system which consists of a primary watertight container with absorbent material, secondary watertight container and an outer shipping package.

- **Laboratory Requisition:** Complete and attach FDOH Form DH1847 (http://www.floridahealth.gov/programs-and-services/public-health-laboratories/forms-publications/index.html, navigate to “Commonly Used BPHL Forms”), including the specimen collection date. **Enter the treating physician information, who will receive the BPHL test report, in the “Health Care Provider Information” section.** In the virology section of the form, include specimen type, write “COVID-19” as the test request next to “Other”, include date of symptom onset, and recent travel history.
COVID-19 Diagnostic Specimen Collection, Packaging and Shipping Guidance for Laboratories and CHDs

(country/territory with dates).

- Documents on this topic dated after the version date, supersede this one.

- **Shipping to Jacksonville BPHL:**
  Bureau of Public Health Laboratories-Jacksonville
  1217 N. Pearl Street
  Jacksonville, FL 32202
  Attention: Valerie Mock
  For Additional Information: Call the COVID-19 assigned cell phone at 904-855-7665
  Email: JacksonvilleVirology@flhealth.gov

- **Shipping to Miami BPHL:**
  Bureau of Public Health Laboratories-Miami
  1325 NW 14th Ave.
  Miami, FL 33125
  Attention: Virology
  For Additional Information: Call the COVID-19 assigned cell phone at 305-978-2769
  Email: SGBPHL13MiamiVirologyEmail@flhealth.gov

- **Shipping to Tampa BPHL:**
  Bureau of Public Health Laboratories-Tampa
  3602 Spectrum Blvd.
  Tampa, FL 33612
  Attention: Virology
  For Additional Information: Call the COVID-19 assigned cell phone at 813-895-0724
  Email: TampaVirology@flhealth.gov

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**Authorization**


**Criteria for Testing**


**Specimen Collection**

Specimen collection should be performed following Standard, Contact, and Airborne Precautions, including the use of eye protection. Wear appropriate personal protective equipment (PPE) at all times while collecting and handling specimens (gloves, gown, respiratory protection, and eye protection). These procedures should take place in an airborne infection isolation room (AIIR) or in an examination room with the door closed. Ideally, the patient should not be placed in a room where room exhaust is recirculated within the building without high-efficiency particulate air (HEPA) filtration.
COVID-19 Diagnostic Specimen Collection, Packaging and Shipping Guidance for Laboratories and CHDs

- Upper respiratory tract specimens: Only collect a nasopharyngeal (NP) swab (NOT nasal swab). Place NP swab in a tube containing 2-3 ml of viral transport medium (VTM) or universal transport medium (UTM). Use only synthetic fiber swabs with plastic shafts. Do not use calcium alginate swabs or swabs with wooden shafts. Place swabs immediately into sterile tubes containing VTM or UTM.
  - Collection of NP swab: Insert a swab into the nostril parallel to the palate. Leave the swab in place for a few seconds to absorb secretions.
  - Sources of swabs and VTM: Swabs and VTM may not be provided, therefore it is suggested to order supplies directly from manufacturers. Below are some suggested manufacturers. Links and catalog references to these example products do not constitute an endorsement of a brand or source and are not exhaustive.
    - Quidel: [https://www.quidel.com/order-request](https://www.quidel.com/order-request), Catalog Number: 403C; UTM and Swabs Complete Set; includes 3 ml UTM and one mini-tip swab; use for NP only

- Lower respiratory tract specimens: Sputum (only for those patients with a productive cough and induction is not indicated): Have the patient rinse the mouth with water and then expectorate deep cough sputum directly into a sterile, leak-proof, screw-cap sputum collection cup or sterile dry container.

- Other acceptable specimens (not preferred)
  - Upper respiratory tract specimens:
    - Oropharyngeal (OP) (e.g., throat) swab: Place OP swabs in a tube containing 2-3 ml of VTM or UTM. Use only synthetic fiber swabs with plastic shafts. Do not use calcium alginate swabs or swabs with wooden shafts. Place swabs immediately into sterile tubes containing VTM or UTM.
      - Collection of OP swab: Swab the posterior pharynx, avoiding the tongue.
      - Sources of swabs and VTM:
        - Quidel: [https://www.quidel.com/order-request](https://www.quidel.com/order-request), Catalog Number: 402C; UTM and Swabs Complete Set, includes 3 ml UTM and one regular swab; use for OP only
    - Nasopharyngeal wash/aspirate, or nasal aspirate: collect 2-3 mL into a sterile, leak-proof, screw-cap sputum collection cup or sterile dry container.

- Lower respiratory tract specimens:
  - Bronchoalveolar lavage or lower respiratory tract aspirates: collect 2-3 mL into a sterile, leak-proof, screw-cap sputum collection cup or sterile dry container.

- Each specimen must be labeled with at least two patient-specific identifiers. Examples of acceptable identifiers are patient name, date of birth, hospital number, requisition number, accession number, or unique random number.
• Place each specimen tube in a separate zip closure bag.
• Refrigerate specimens at 2-8°C prior to shipping and ship overnight to BPHL on frozen gel ice packs. Alternatively, specimens can be driven by car by FDOH personnel if the specimens are high priority.

Packaging requirements: Transport by Commercial Carrier

Package specimens in combination packaging according to International Air Transport Association (IATA) and U.S. Department of Transportation (USDOT) regulations.

NOTE: Per these regulations anyone who handles, offers for transport, or transports specimens must be trained to do so. This document is not a replacement for packaging and shipping training.

• General Packaging Requirements
  o Package the specimens as a Category B agent using IATA/USDOT Packaging Instructions 650 for Category B Agents which requires specimens be packed in a basic triple packaging system with a primary leakproof container wrapped with absorbent material, secondary leakproof container and a rigid outer shipping package.
  o Enclose an itemized list of contents between the secondary packaging and the outer packaging.
  o Package on frozen gel ice packs.

• Inner Packaging Requirements
  o Primary receptacle(s) must be leakproof.
  o Secondary receptacle(s) must be leakproof.
    ▪ Absorbent material must be placed between the primary receptacle(s) and secondary receptacle and be of sufficient quantity to absorb the entire contents of the primary receptacle(s).
  o The primary or secondary receptacle must also be pressure compliant (95kPa).
    ▪ An example of a preferred pressure compliant secondary receptacle is Therapak 95kPa compliant transport bags, Fisher Scientific catalog #22-130-021.
  o BPHL recommends an inner packaging with absorbent material such as one tube or container (the primary leakproof receptacle) and a paper towel placed in a zip closure bag such as a biohazard transport bag with an outer pocket containing the requisition form.
    ▪ Place only one specimen per bag to avoid cross-contamination between specimens if one were to leak.
    ▪ Multiple zip closure bags are then placed in one pressure compliant bag (the secondary leakproof receptacle).
    ▪ Fully seal all bags, while removing excess air.
  o An itemized list of the contents enclosed between the secondary receptacle and the outer packaging.
  o Include sufficient cushioning between the combined primary-secondary receptacles and the outer package to prevent shifting in transport.

• Outer Packaging Requirements
  o Package must be rigid.
  o Package must be properly labeled with the UN 3373 marking, the shipping name, “Biological Substance, Category B”, and orientation labels.
Packaging must pass required testing.

**Packaging Requirements: Transport by Local Courier**

Package specimens in combination packaging according to Title 49 of the Code of Federal Regulations or CFR-49 (www.ecfr.gov, browse for Title 49 – Transportation and refer to Part 173 and Subpart 173.6 – Materials of trade exceptions).

**NOTE:** Per these regulations anyone who handles, offers for transport, or transports specimens must be trained to do so. This document is not a replacement for packaging and shipping training.

- **General Packaging Requirements**
  - Packaging must coincide with CFR-49 and specimens must be packed in a basic triple packaging system with a primary leakproof container wrapped with absorbent material, secondary leakproof container and an outer shipping package.
  - Enclose an itemized list of contents between the secondary packaging and the outer packaging.
  - Package on frozen gel ice packs.

- **Inner Packaging Requirements**
  - Primary receptacle(s) must be leakproof.
  - Secondary receptacle(s) must be leakproof.
    - Absorbent material must be placed between the primary receptacle(s) and secondary receptacle and be of sufficient quantity to absorb the entire contents of the primary receptacle(s).
  - BPHL recommends an inner packaging with absorbent material such as one tube or container (the primary leakproof receptacle) and a paper towel placed in a zip closure bag such as a biohazard transport bag with an outer pocket containing the requisition form.
    - Place only one specimen per bag to avoid cross-contamination between specimens if one were to leak.
    - Multiple zip closure bags are then placed in one large zip closure bag (the secondary leakproof receptacle).
    - Fully seal all bags, while removing excess air.
  - An itemized list of the contents enclosed between the secondary receptacle and the outer packaging.
  - Include sufficient cushioning between the combined primary-secondary receptacles and the outer package to prevent shifting in transport.

- **Outer Packaging Requirements**
  - Package must be rigid.

**Laboratory Requisition**

Complete and include in the package FDOH Form DH1847 (http://www.floridahealth.gov/programs-and-services/public-health-laboratories/forms-publications/index.html, navigate to “Commonly Used BPHL Forms”):

- In the “Patient Information” section, record the specimen collection date and patient information (last name, first name, date of birth, county, sex, street address, city, state, and ZIP code).
  - It is important that the patient-specific identifiers on this form match the two identifiers on each specimen.
• Record the name and phone number of the treating physician who will receive the BPHL test report in the “Health Care Provider Information” section.
  o If a patient is positive for COVID-19, the local county health department epidemiologist will also directly notify the treating physician using the contact information recorded on this form.
• In the “Virology” section of the form:
  o Indicate the specimen type.
  o Write “COVID-19” as the test request next to “Other.”
  o Record date of symptom onset.
  o Record recent travel history (country/territory with dates), or indicate the patient had no recent travel.

**Ship to Locations**

**Ship specimens to the appropriate BPHL (see table below).** Addresses for each location can be found on page 2. Deliver or ship samples immediately, at least by next day mid-morning delivery. If driving the samples, please use the closest BPHL. If shipping overnight, please ship to your designated BPHL per the below table.

<table>
<thead>
<tr>
<th>Counties</th>
<th>Ship to</th>
</tr>
</thead>
<tbody>
<tr>
<td>Broward, Collier, Dade, Glades, Hendry, Indian River, Lee, Martin, Monroe, Okeechobee, Palm Beach, St. Lucie</td>
<td>Miami BPHL</td>
</tr>
<tr>
<td>Bay, Calhoun, Charlotte, Citrus, Desoto, Escambia, Gulf, Hardee, Hernando, Highlands, Hillsborough, Holmes, Jackson, Lake, Levy, Manatee, Okaloosa, Osceola, Pasco, Pinellas, Polk, Santa Rosa, Sarasota, Sumter, Walton, Washington</td>
<td>Tampa BPHL</td>
</tr>
</tbody>
</table>

**Laboratory Notification and/or Questions:**

On shipment of specimens for a suspect COVID-19 patient to BPHL or if you have questions related to laboratory testing, please notify the following respective BPHL laboratory locations. For commercially shipped specimens, provide a shipping tracking number.

• Jacksonville
  o Email to JacksonvilleVirology@flhealth.gov or call the COVID-19 assigned cell phone at 904-855-7665
• Miami
  o Email to SGBPHL13MiamiVirologyEmail@flhealth.gov or call the COVID-19 assigned cell phone at 305-978-2769
• Tampa
  o Email to TampaVirology@flhealth.gov or call the COVID-19 assigned cell phone at 813-895-0724
COVID-19 Diagnostic Specimen Collection, Packaging and Shipping Guidance for Laboratories and CHDs

- For emergency notification outside the hours of 8:00 AM to 5:00 PM, Monday through Friday or on holidays contact 866-FLA-LABS (866-352-5227).
- For any non-laboratory related or other questions, a COVID-19 Call Center has been set up to answer questions by calling 866-779-6121 or email COVID-19@flhealth.gov. The Call Center is available 24/7.

**Test Reporting:**

- If a patient is positive for COVID-19, the local county health department epidemiologist will directly notify the treating physician using the contact information recorded on the laboratory requisition form.
- By default, BPHL test reports are sent to the treating physician recorded on the laboratory requisition form by US Mail. A facility can change their delivery mechanism from US Mail to automatic faxing by following the instructions at [http://www.floridahealth.gov/programs-and-services/public-health-laboratories/_documents/BPHL_SecureFaxForm_RequestForAutoFaxing.pdf](http://www.floridahealth.gov/programs-and-services/public-health-laboratories/_documents/BPHL_SecureFaxForm_RequestForAutoFaxing.pdf). After successful completion, the facility will receive reports automatically to the fax number provided at the time of test report generation in the BPHL Laboratory Information Management System (LIMS).
- To obtain test reports electronically, please request access to the BPHL WebLIMS Portal by following the instructions at [http://www.floridahealth.gov/programs-and-services/public-health-laboratories/weblims-ra.html](http://www.floridahealth.gov/programs-and-services/public-health-laboratories/weblims-ra.html). Once authenticated as an authorized user, you can view and print all test reports for your facility as soon as they are generated by logging in at [https://weblims.floridapublichealthlab.com](https://weblims.floridapublichealthlab.com). Note that reports can be accessed via WebLIMS in addition to automatic faxing.