# Riverside University Health System (RUHS) Public Health (PH)

Disease Control Branch Tel. (951) 358-5107 Fax. (951) 358-5102

# 2019-nCoV Evaluation Checklist

The purpose of this checklist is to provide you with step-by-step guidance when evaluating patients who may have 2019 Novel Coronavirus (2019-nCoV) infection, with the goal of preventing the spread infection and expediting investigation with RUHS-PH and testing through the Public Health Laboratory (PHL).

Medical providers, for assistance with diagnosis and infection control, please call:

# **RUHS-PH Disease Control**

(951) 358-5107 (8:00am – 5:00pm Monday to Friday) (951) 782-2974 (After Hours Public Health Duty Officer)

### Step 1. Identify patients who may have respiratory illness caused by 2019-nCoV.

• Place visible signage requesting visitors with a fever and recent international travel to immediately notify designated licensed staff.

# Step 2. Does the patient meet one of the criteria below:

Clinical Features	AND	Epidemiologic Risk
Fever <sup>2</sup> <b>or</b> signs/symptoms of lower respiratory illness (e.g. cough or shortness of breath)		Any person, including health care workers, who has had close contact <sup>1</sup> with a laboratory-confirmed <sup>3</sup> 2019-
		nCoV patient within 14 days of symptom onset
Fever <sup>2</sup> <b>and</b> signs/symptoms of a lower respiratory illness (e.g., cough or shortness of breath)		A history of travel from <b>Hubei Province, China</b> within 14 days of symptom onset
Fever <sup>2</sup> and signs/symptoms of a lower respiratory illness (e.g., cough or shortness of breath) requiring hospitalization <sup>4</sup>		A history of travel from mainland <b>China</b> within 14 days of symptom onset

**IF NO** and patient does not meet all three (3) criteria then **STOP** here and continue evaluation for alternative diagnosis as clinically indicated.

**IF YES** and patient meets all three (3) criteria, then immediately isolate patient:

- 2a. Place surgical mask on patient
- 2b. Place patient in private room with door closed (ideally negative pressure airborne isolation room).

#### Step 3. Implement following infection control procedures for healthcare workers:

- 3a. Standard precautions
- 3b. Contact precautions (gloves, gown)
- 3c. Eye protection (goggles or face shield)
- 3d. Airborne precautions (e.g., N95 mask or PAPR)

#### Step 4. Immediately contact and report patient to Disease Control:

(951)358-5107 from 8:00am- 5:00pm Monday to Friday and (951)782-2974 (After Hours Public Health Duty Officer)

- RUHS-PH will advise on the next steps.
- DO NOT send specimen to PHL until case is discussed with and testing is approved by Disease Control.

# Step 5. Collect specimens for laboratory diagnosis via the PHL.

Collect one specimen from each category (lower respiratory, upper respiratory and serum) *for a minimum of three (3) specimens* as soon as possible regardless of symptom onset.

# ■ 5a. Lower Respiratory

- **Bronchoalveolar lavage or tracheal aspirate:** 2-3 mL in a sterile, leak- proof, screw- cap sputum collection cup or sterile dry container.
- **Sputum:** 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.

#### ■ 5b. Upper Respiratory

- Nasopharyngeal swab AND oropharyngeal swab (NP/OP swab) Use a synthetic fiber swab with plastic shaft. Do not use calcium alginate swabs or swabs with wooden shafts. Place swab in a sterile tube with 2-3 ml of viral transport media Do NOT combine NP/OP swab specimens; keep swabs in separate viral transport media collection tubes.
- Nasopharyngeal wash/aspirate or nasal aspirate: 2-3 mL in a sterile, leak-proof, screw-cap sputum collection cup or sterile dry container.

#### NOTE:

- It is imperative that NP and OP swabs are placed in <u>viral transport</u> media, such as ones used to collect specimen NP swabs for influenza testing (see figure to the right).
- Improper collection, such as placing swabs in bacterial culture media, will void the specimen and delay testing.

#### 5c. Serum

- Children and adults: Collect 1 tube (5-10 mL) of whole blood in a serum separator tube.
- Infant: A minimum of 1 mL of whole blood is needed for testing pediatric patients. If possible, collect 1 mL in a serum separator tube.

# If indicated Public Health may request the additional following specimens:

- 5d. *Stool* 
  - Collect and place in a sterile, screw-cap, leak-proof container without preservative.
- 5e. *Urine* 
  - Collect a minimum of 10mL in a sterile, screw-cap, leak proof container without preservative.

#### TRANSPORT INFORMATION

- Refrigerate specimens at 2-8°C and transport on cold pack.
- Complete a PHL form for *each specimen*. The test request form is located at www.
- Upon approval by Disease Control, the PHL will assist with courier pick up. Specimens that arrive at PHL without prior DPH approval may experience significant delays in testing. **If specimens cannot be collected at the clinic, do not\_refer the patient to another facility to obtain specimens** (i.e., commercial lab, other medical clinic). **Notify Public Health.**

# Step 6. Continue medical evaluation and empiric treatment for other causes of respiratory infection or pneumonia as clinically indicated.

All patients with suspected nCoV-2019 infection may also be tested for common causes of respiratory infection and pneumonia as clinically indicated. **Testing for other respiratory pathogens should not delay specimen collection for nCoV-2019 testing.** 

#### Step 7. Do not discharge patient without prior approval from Disease Control.

Continue patient isolation and infection control procedures as above.



<sup>&</sup>lt;sup>1</sup>Fever may not be present in some patients, such as those who are very young, elderly, immunosuppressed, or taking certain fever-lowering medications. Clinical judgment should be used to guide testing of patients in such situations.

<sup>&</sup>lt;sup>2</sup> Impacted areas are located at https://www.cdc.gov/coronavirus/2019-ncov/locations-confirmed-cases.html