

# Sample Collection for SARS CoV-2 detection (Nasopharyngeal Swab and Throat Swab)

#### 1. Introduction

Sample collection is important to obtain reliable result to diagnose infection and this procedure describes nasopharyngeal and oropharyngeal specimen collection for detection of SARS CoV-2.

#### 2. Sample Criteria

Sample should comply the below criteria, if the sample is not complying the criteria should be rejected.

Specimen Type	Criteria
Nasopharyngeal, oropharyngeal, nasal, or mid- turbinate specimen	<ul> <li>Tube ID:         <ul> <li>Patient name</li> <li>Age</li> <li>Province name</li> </ul> </li> <li>Contained in VTM media</li> <li>Leakproof</li> <li>Volume ≥ 2.5mL</li> <li>Transport temperature at +2 to +8 °C within 2 days</li> <li>3 packagings: VTM, parafilm Or Absorbent Tissue, ziplock plastic bag,</li> </ul>
	<ul> <li>Strong Plastic box</li> <li>Form should be filled and complied with the samples tube</li> <li>Form should be clean and clear</li> <li>Form should be separate from the samples tube</li> </ul>

#### 3. Before collecting the specimen

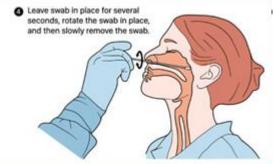
- 1. Lab technician must wear PPE (coverall protective, gloves, N95Mask, face shield, goggles, plastic boots) all the process.
- 2. Lab technician asks the patient to have a seat and to spell his/her full name.
- 3. Then, checks if patient's information is matching with the form and explains the procedure of specimen collection.
- 4. Labels/writes down the name of the patient on the VTM and labels should have a patient name Or ID patient, Age, Province and Date of writing should be clearly legible.



## 4. Collecting nasopharyngeal specimen



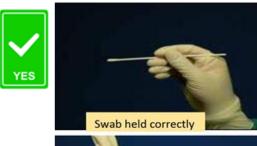
- 1) Tilt patient's head back 70 degrees. Gently and slowly insert a minitip swab with a flexible shaft through the nostril parallel to the palate until resistance is encountered.
- 2) The distance is equivalent to that from the nostril to the ear of the patient, indicating contact with the nasopharynx.



 Gently rub and roll the swab, leaving it in place for several seconds to absorb secretions.

Remark: If a deviated septum or blockage creates difficulty in obtaining the specimen from one nostril, use the same swab to obtain the specimen from the other nostril.

4) Slowly remove swab while rotating it.

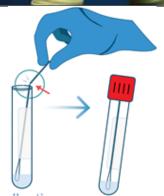








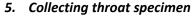


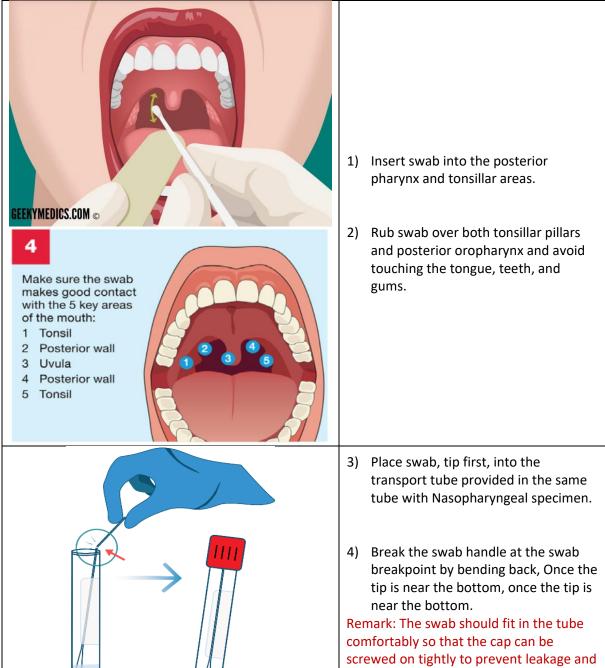


- 5) Place swab, tip first, into the transport tube provided.
- 6) Break the swab handle at the swab breakpoint by bending back, Once the tip is near the bottom, once the tip is near the bottom.

Remark: The swab should fit in the tube comfortably so that the cap can be screwed on tightly to prevent leakage and contamination.







### Reference

• WHO Guidelines for the collection of clinical specimens during field investigation of outbreaks. Department of Communicable Disease Surveillance, World Health Organization, Geneva, 2000

contamination

 CDC. Specimen collection guidelines. Centers for Disease Control and Prevention (USA), retrieved from <a href="https://www.cdc.gov/coronavirus/2019-ncov/downloads/lab/NP">https://www.cdc.gov/coronavirus/2019-ncov/downloads/lab/NP</a> Specimen Collection Infographic FINAL 508.pdf accessed 10 May 2021