

Section:	Infection Prevention and Control	
Subject:	<b>Rapid Antigen Testing – BD Veritor Rapid Analyzer</b>	
Issue to:	All Staff	Pages:1 of 8
Issued by:	Vice President Client Care and Operations	March 2021

## 1.0 Policy

The overall goal of infection prevention practices at the Safehaven Project for Community Living (Safehaven) is to eliminate the risk of the transmission of pathogens between clients and the staff. The following recommendations should be implemented as additional enhanced screening measure for COVID-19 to further reduce the spread of the virus.

## 2.0 PURPOSE

Safehaven staff are dedicated to reducing the spread of infection related to COVID-19 in all client care. Safehaven staff are committed to an enhanced screening process as they conduct work in and around all client care and non-client care areas and is achieved by consenting to surveillance swabbing rapid antigen testing frequently.

## 3.0 SCOPE

This policy applies to all Safehaven employees, clients, families/guardians, volunteers and students.

## 4.0 RESPONSIBILITY

### Employees are responsible for:

- a) To adhere this policy in its entirety
- b) To receive all related training related to rapid antigen testing.
- c) Perform rapid antigen testing as outlined in the policy.
- d) To certify, convey and document results of rapid testing as outlined in this policy.
- e) Report any concerns to the Educator or IPAC and complete incident report as needed.

### The Leadership team is responsible for:

- a) Ensure education is updates are communicated in a timely manner.
- b) Ensure aggregate results are reported weekly to ministry.

## 5.0 DEFINITIONS

**Deep Nasal swab** – Is a nasal swab extending only to the mid-turbinate within the nares. Used for rapid testing.

**Nasopharyngeal swab** – Is a nasal swab extending through the nasal passage toward the pharynx. Used for PCR testing

## 6.0 REFERENCES and RELATED STATEMENTS of POLICY and PROCEDURE

In accordance to BD Veritor System for Rapid Detection of SARS-CoV-2 Training Session.

## 7.0 PROCEDURE

**One-time consent must be signed by all people receiving rapid antigen testing. Consent is valid until stated otherwise. Should be obtained from individuals and sent back to IPAC team in advance.**

### BD Analyzer (Restricted to IPAC Team Nurses use only)

#### 7.1 Eligibility

- 1) Asymptomatic individuals who have passed entry screening.
  - a. Staff, visitors, students, contractors, agency staff, and **clients**
- 2) Can only be used in areas **not** deemed in outbreak.
- 3) Individuals who have previously been infected with and recovered from COVID-19 should NOT undergo repeat testing/antigen screening. These individuals are eligible for an exemption.

#### 7.2 Frequency

- 1) Monthly testing of all Safehaven clients during surveillance
- 2) Surveillance to support external partners on their staff and clients are subject to testing at monthly intervals.

#### 7.3 BD Veritor Kits

- 1) Stored between 2-30°C (must be brought to 15°C before use). DO NOT FREEZE
- 2) 12-month shelf life
- 3) 30 tests come with each kits.
  - a. 30 test devices
  - b. 30 pre-filled reagent tubes
  - c. 30 sterilized nasopharyngeal (NP) swabs for specimen collection
  - d. 1 positive control swab
  - e. 1 negative control swab
  - f. 1 tube rack
  - g. 1 quick reference guide
  - h. 1 instruction for use
  - i. Nasal sample quick reference instructions

#### 7.4 Preparation

- 1) Prepare a clean flat surface/table in advance with a Pre-empt wipe.
- 2) Prepare each clean green bin with 1 of each of the following: pre-filled extraction reagent tube, packaged test device cartridge, NP swab, timer, results certificate.
- 3) Pre-label test tubes and cartridges with participant information (matching test number on results certificate)
- 4) BD Veritor Analyzer fully charged or with accompanying AC adapter.

#### 7.5 Performing the test

- 1) Read instructions of the rapid test kit
- 2) Don full PPE for droplet contact precautions
- 3) Allow all components to acclimate to room temperature 15-30°C.
- 4) Check expiry date on the back of the test device cartridge and assure the pouch has not been damaged or tampered with.
- 5) Remove test device cartridge from pouch just prior to testing.
- 6) Place test device cartridge on a flat surface and write/affix label with identifier on it.
- 7) Collect sample using deep nasal collection technique (see Appendix A) for both nostrils, inserting the swab 2.5 cm into the nare or until resistance is met, whichever is first.
- 8) Only use ANALYZE NOW MODE on BD Veritor Analyzer Plus
- 9) After collecting patient sample remove cap of pre-filled extraction tube and insert swab into tube (Use Appendix B for reference)
- 10) Mix sample for 15 seconds with reagent, then remove swab, pushing into the side of the extraction tube, at least 5 times.
- 11) Squeeze the swab against the extraction tube wall with your fingers.
- 12) Close dispensing cap and discard swab in biohazard waste bin
- 13) Dispense 3 drops of sample fluid into sample well of test device.
- 14) Start a timer for 15 minutes to read the result.
- 15) After 15 minutes insert test device into analyzer
- 16) Read and certify results (Refer to 7.6)
- 17) Convey results in a confidential manner.
- 18) Dispose of used device in a biohazard container.
- 19) Remove and dispose of any labels from testing table.
- 20) Check that all results have been recorded on results tracker and save and store the file securely.
- 21) Perform PCR test if required.

## 7.6 Reading and Certifying results (Appendix D)

**\*Results must be communicated in a confidential manner and the IPAC team must take every precaution necessary to maintain confidentiality of the results.**

- 1) Conveying a negative result
  - a. Negative results are only applicable if the individual being tested has no symptoms and no known exposures.
  - b. Individuals should be counselled that the result is negative, and a false negative result is possible
  - c. Individuals should be reminded to continue to follow infection prevention and control measures.
- 2) Conveying a preliminary positive result
  - a. Rapid antigen testing is considered **preliminary**.
  - b. Site leadership must be notified of a preliminary positive result.
  - c. During results consultation of a preliminary positive result a PCR confirmatory test must be obtained for diagnosis.
  - d. Site leadership should be counselled and encouraged to send staff/volunteers/students/contractors home to self-isolate and await instructions from Public Health.

## 7.7 Quality Control (QC) Testing

- 1) Quality Control (QC) testing must be done each time the kit is opened. If more than one kits is used in a day, then only the first kit of the day requires QC testing.

- 2) Remove control swabs, 2 pre-filled reagent tubes and 2 test devices from the newly opened kit.
- 3) Label one reagent tube as positive and the other as negative.
- 4) Place the reagent tubes in the tube rack.
- 5) Insert the negative control swab into one extraction tube labeled negative.
- 6) Insert positive control swab into one extraction tube labelled positive.
- 7) Mix sample for 15 seconds with reagent, then remove swab, pushing into the side of the extraction tube, at least 5 times.
- 8) Squeeze the swab against the extraction tube wall with your fingers.
- 9) Close dispensing cap and discard swab in biohazard waste bin
- 10) Dispense 3 drops of sample fluid into sample well of accurately labeled test device.
- 11) Start a timer for 15 minutes to read the result.
- 12) After 15 minutes insert test device into analyzer
- 13) Certify the results of the QC test and document in the QC log in the locked reporting document.
- 14) If quality control swabs pass, proceed to testing using the kit. If quality control swabs are invalid reseal the box and notify the Nurse Educator for further instructions as further instructions will be required from the manufacturer.

## 8.0 ATTACHMENTS

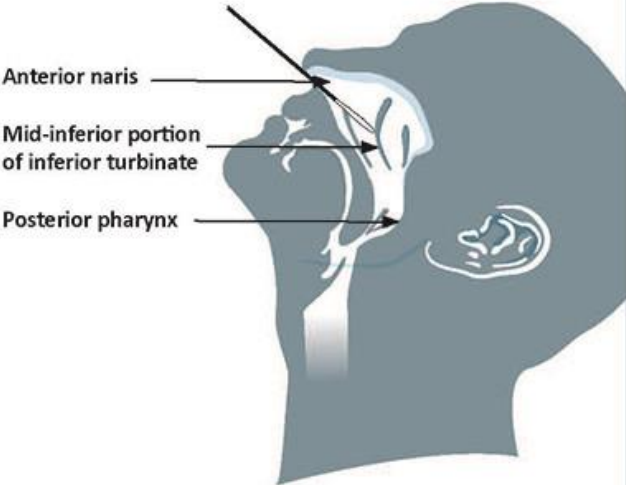
### Appendix A

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## | Deep Nasal Specimen Collection Instructions

1. Tilt patient's head back 70°.
2. While gently rotating swab, insert swab about 2.5 cm (>1 in.)\* straight back (not up) into nostril until the collar/safety stopping point touches the outside of the nose.
3. Rotate swab several times against the wall.
4. Leave swab in place for several seconds to absorb secretions.
5. Repeat for both nostrils using same swab.
6. Immediately place in sterile tube containing transport medium.

*\*Pediatrics: swab insertion distance will differ for pediatric patients.*



*In a seated position, tilt the head back at a 70° angle as illustrated in the picture*

Ontario

## Appendix B

# BD Veritor™ System for Rapid Detection of SARS-CoV-2 Workflow Overview

Detection of SARS-CoV-2 antigens in samples processed from nasal swabs

Assay time of 15 minutes, with 1 minute of hands on-time\*



**STEP 1**  
Collect patient sample  
(mid-nasal)



**STEP 2**  
Remove cap & insert  
swab into tube



**STEP 3**  
Mix sample for 15  
sec with reagent,  
then remove swab



**STEP 4**  
Close dispensing  
cap, then dispense  
sample into test  
device



**STEP 5**  
Insert test device into the  
analyzer  
For Walk Away mode, insert  
immediately  
For Analyze Now mode, insert  
after timing the assay  
development

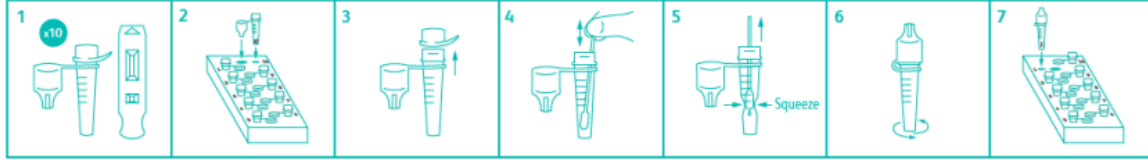
3 BD, the BD Logo, Synapsys and Veritor are trademarks of Becton, Dickinson and Company or its affiliates. All other trademarks are the property of their respective owners. © 2020 BD. All rights reserved.

\* Source: [www.bd.com/bd-veritor-plus-system-for-rapid-covid-19-sars-cov-2-testing](http://www.bd.com/bd-veritor-plus-system-for-rapid-covid-19-sars-cov-2-testing) Simple Use Section 20/08/2020



## Appendix C: Batch testing

### Batch sample collection (10 tests)



- Gather 10 sets of test materials.
- Label each set with patient ID.
- Label the tube tray with patient ID.
- Set each tube in the tray with matching patient ID.
- Select extraction reagent tube and remove cap.
- Insert patient sample swab and vigorously plunge the swab up and down for 15 seconds taking care not to splash contents out of the tube.
- Remove swab while squeezing to extract liquid.
- Properly dispose of swab.
- Press dispensing tip on the tube firmly.
- Mix the sample by swirling the bottom of the tube.
- Place tube back in tray with matching patient ID.
- Repeat steps 3-7 until all remaining tubes have been prepared.
- Specimen processed in the reagent vial must be run within 30 minutes on the test device.

### Batch preparation and analysis (10 tests)



- Select the extracted sample and the matching test device for each specimen.
- Add 3 drops of the processed sample to the test device sample well.
- Activate a 15 minute timer.
- Each test device must incubate for 15 minutes\*\*\* before it can be analyzed.
- Repeat steps 8-9 until all remaining test devices have been prepared and are incubating, each with their timers running.
- When first test is ready, power on the Analyzer by pressing the blue start button once.
- Analyzer may remain on until all testing is completed.
- When prompted, insert the test device to read.
- If using the BD Veritor™ InfoScan module, follow the screen prompts to scan operator ID, specimen ID and kit lot number to start the test analysis.
- After required scans are completed, the Analyzer displays a countdown timer and test analysis begins.
- Result will appear on screen, and will be stored in the Analyzer.
- Test results are NOT maintained in the display window when the device is removed or if the Analyzer is left unattended for more than 15 minutes (60 minutes if AC power adapter is connected).
- Record result.
- Remove test device and properly dispose.
- Continue with the next test device once it has incubated for 15 minutes.

### Interpretation of results

Display	Interpretation
CoV2: +	Positive Test for SARS-CoV-2 (antigen present)
CoV2: -	Presumptive Negative Test for SARS-CoV-2 (no antigen)
CONTROL INVALID	Test Invalid. Repeat the test.

## Appendix D

# Interpretation of results

Display	Interpretation
CoV2: +	Positive Test for SARS-CoV-2 (antigen present)
CoV2: –	Presumptive Negative Test for SARS-CoV-2 (no antigen)
CONTROL INVALID	Test Invalid. Repeat the test.