



Abbott BinaxNOW Training

MDHHS Bureau of Laboratories
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Training Objectives

- ▶ Review how the Abbott BinaxNOW test works
- ▶ Set up the testing area
- ▶ Performing the test
- ▶ Results and clean up



Our goal is to perform the test
accurately and keep you safe

Safety:

Don't bring COVID-19 Home!

- ▶ Treat everything like it's positive for COVID-19
- ▶ Wear Personal Protective Equipment (PPE)
- ▶ Do not use cell phones or touch personal items while testing
- ▶ Clean hands before using laptop
- ▶ Do not eat or drink while doing testing (put food and drinks away)
- ▶ Use EPA registered disinfectant effective against COVID-19
- ▶ Avoid touching hands to face while testing
- ▶ When in doubt, change your gloves!

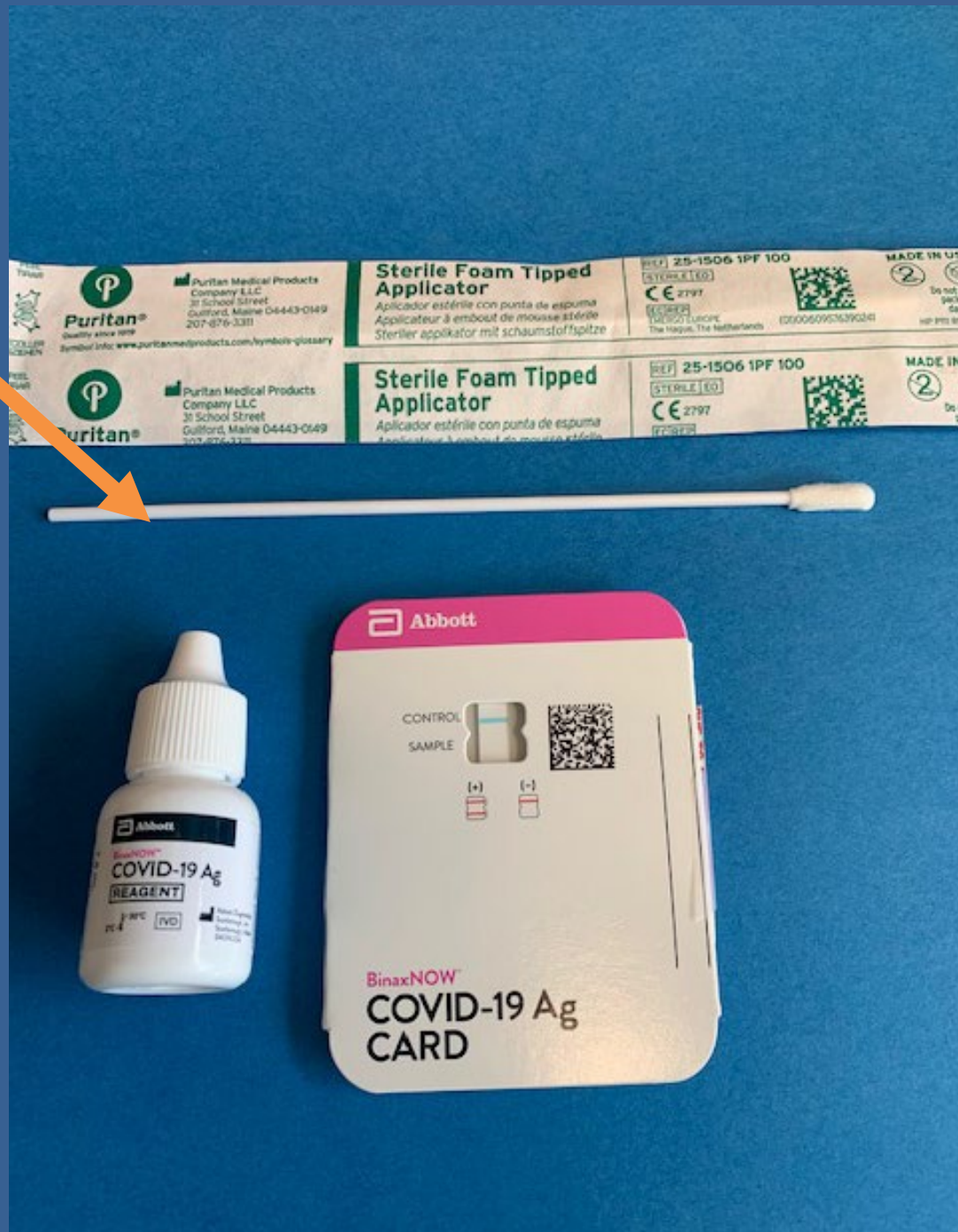


Intro to Binax NOW

»» How does the test work?

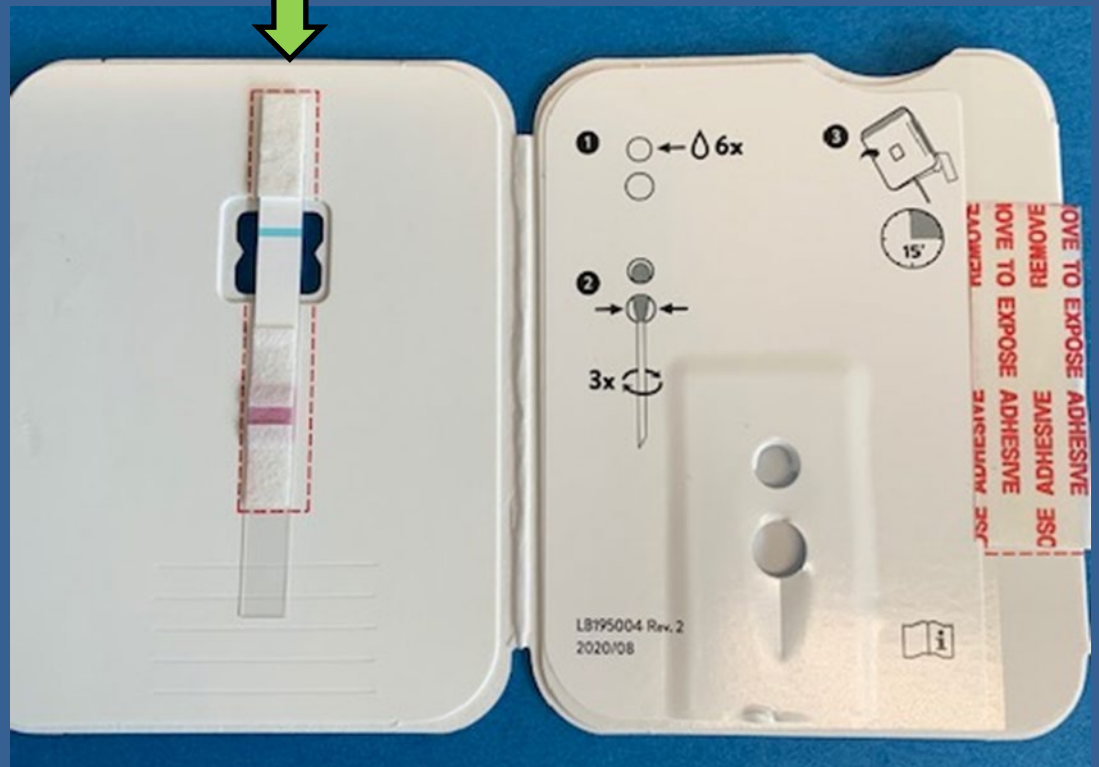
Nasal Swab
NOT an NP!

Fact Sheet
for Patients





SARS-CoV-2
antibodies on filter
paper





CONTROL

SAMPLE



(+)



(-)



1

BinaxNOW™

COVID-19 Ag
CARD

How it works: Abbott Binax NOW

- ▶ Antibodies for SARS-CoV-2 are immobilized on the filter paper strip.
- ▶ The patient's sample on the swab is mixed with drops of the liquid reagent.
- ▶ The card is closed, and the wet swab moistens the filter paper.
- ▶ If SARS-COV-2 is present in the patient's sample, it will mix with the antibodies and show up as a pink line on the filter paper at 15 minutes.
- ▶ The blue control line at the top of the filter paper will turn pink. This ensures the test is working correctly whether the result is positive or negative.

Testing Set Up



PPE

Workflow

Patient form

Specimen Collection

Recommended PPE

- ▶ Respiratory protection (N95, KN95, surgical masks)
- ▶ Face shield, googles, or safety glasses
- ▶ Gloves
- ▶ Clothing protection like a disposable lab coat or ability to change clothes after if needed

Set Up Example

- ▶ Teams of 2–3 people *site specific
- ▶ Data person verifies patient information (enter into spreadsheet)
- ▶ Test person #1 collects sample from patient and sets up the Binax Now test
- ▶ Test person #2 documents the time the test was started, interprets the result after 15 minutes and disposes of test materials in biohazard waste container.

Explain to the patient what you're doing

- ▶ You will instruct and observe them collecting a nasal swab sample. This swab will not go far back into the nose like other tests they may have received or heard about.
- ▶ You will take the swab from them and perform the test which will take approximately 15 minutes to run.

Patient Information and Result Form

- ▶ Ask patient if using mupiricin (Bactroban or Centany) an antibiotic ointment. If yes, use a PCR test instead of BinaxNOW
- ▶ Follow directions for Rapid COVID-19 Antigen Test Results Reporting Instructions
- ▶ Assign a card number and write it on the test card, Fact Sheet for Patients and spreadsheet (reporting). This number is how you will match the test card and patient ID when the test is done. **THIS IS A CRITICAL STEP.**



How to use Binax NOW

»» Testing



»» Abbott BinaxNOW Video

[https://www.globalpointofcare.abbott/en/product
-details/navica-binaxnow-covid-19-us.html](https://www.globalpointofcare.abbott/en/product-details/navica-binaxnow-covid-19-us.html)



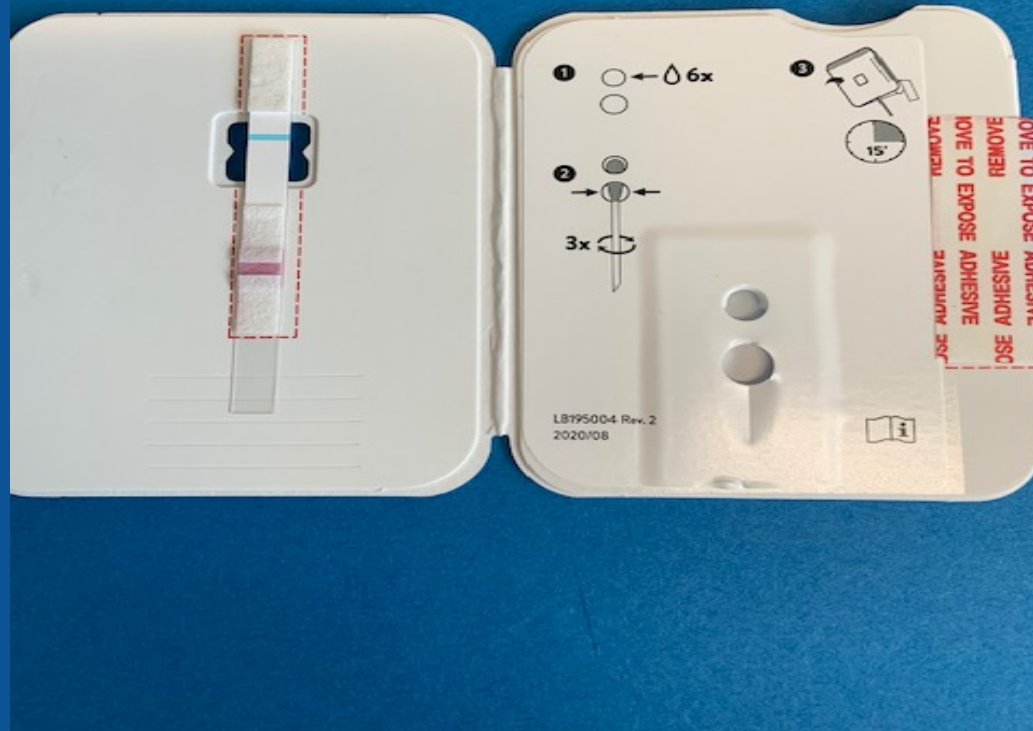
MDHHS developed training video



<https://youtu.be/sLWPhh4gZTE>

Note: designed for medical facilities and field deployment groups so not all pieces may apply, but great refresher

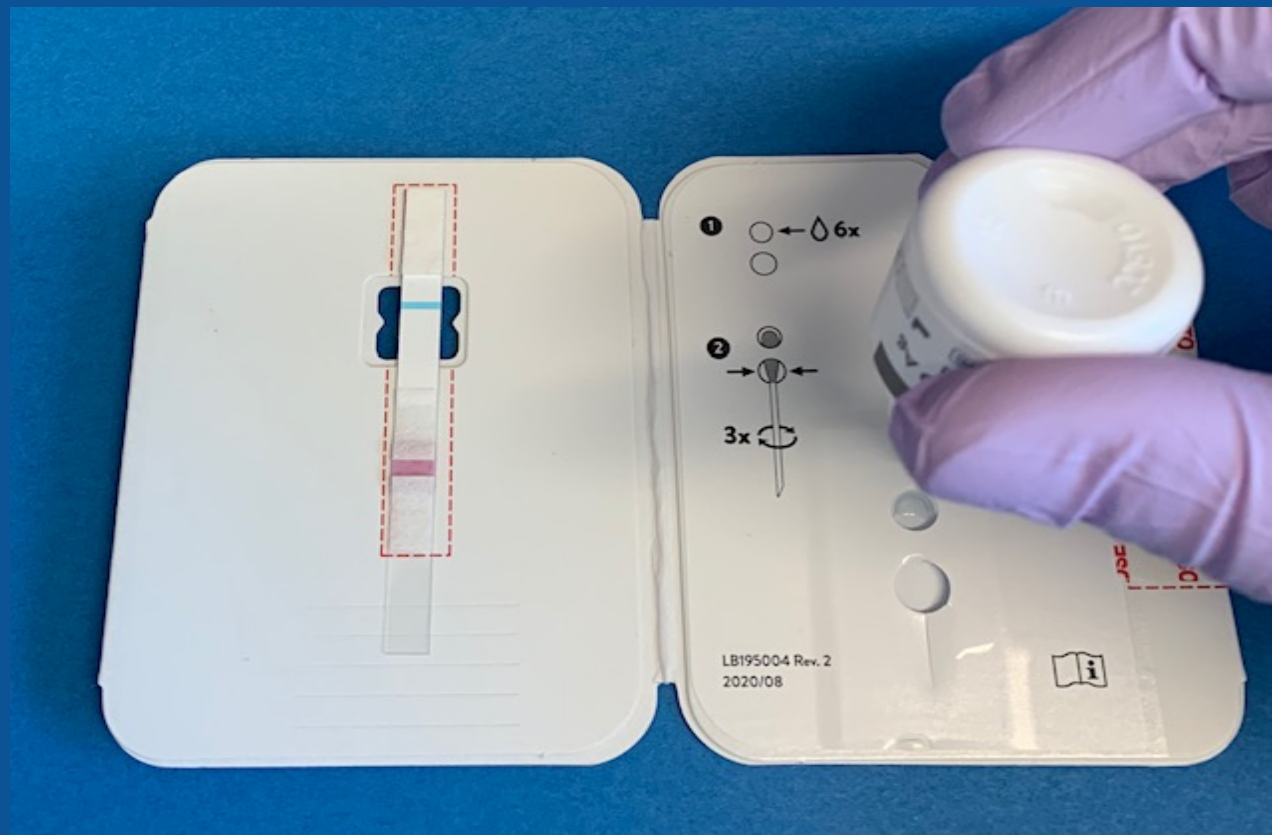
The test card must lay flat for all steps of testing



This step should be done just before the patient collects the nasal sample

Hold the reagent bottle vertically about ½ inch above and let 6 drops fall into the top hole.

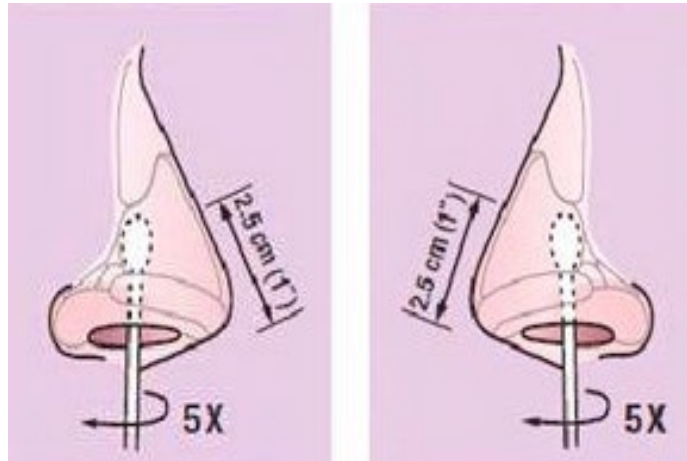
Do not touch the dropper tip to the card or any other item– this will contaminate the dropper bottle.



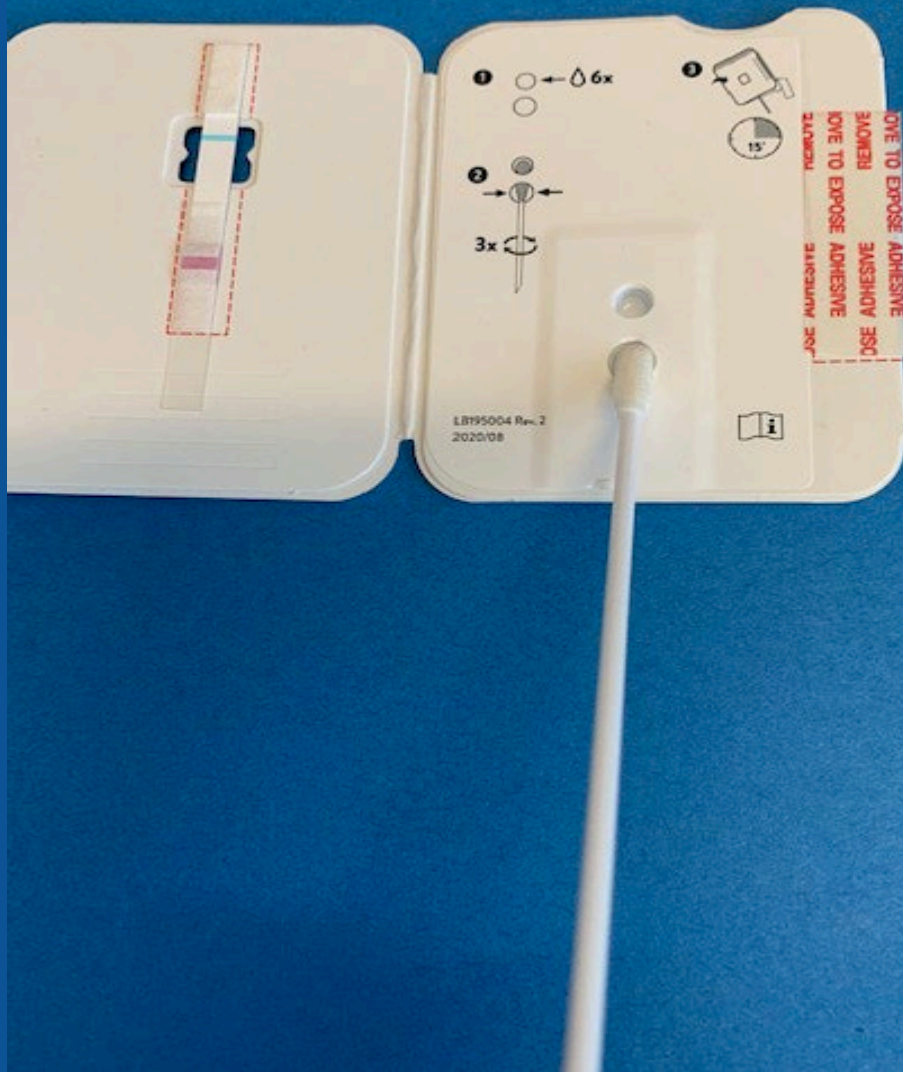
Nasal Swab Collection

- ▶ Encourage patient to use hand sanitizer
- ▶ Wearing gloves, hand the patient a swab in the wrapper– Use only the swab that comes in the BinaxNOW kit
- ▶ Patient unwraps and does not touch the swab tip
- ▶ Start with the side with the most drainage

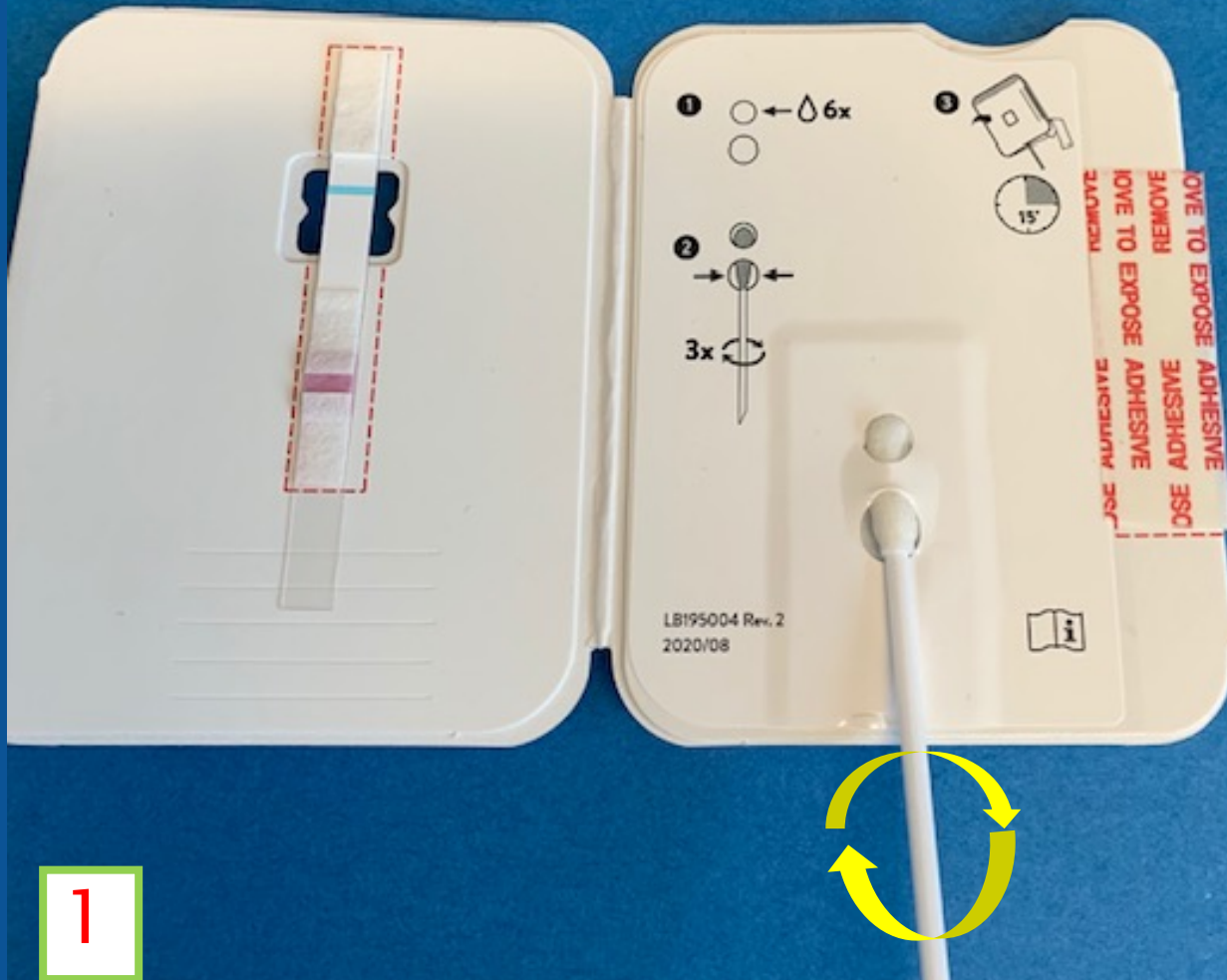
Gently insert
swab
Rotate 5X
Slowly remove
and
Repeat on
other side



Patient slowly
removes the swab
and hands it to test
personnel to be
tested immediately–
**DO NOT PUT SWAB
BACK IN WRAPPER**



Insert the swab in the bottom hole and then push the swab up to the top hole.



When the swab reaches the top hole, rotate it 3X to ensure the patient sample mixes with the reagent and will apply to the filter paper.



Close card and
use adhesive to
seal.

Start timing 15
minutes
DO NOT USE CELL
PHONE FOR TIMER

**DO NOT USE CELL
PHONE AS A TIMER**

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If using a 2 person team

- ▶ Slide paper towel with test card to test personnel #2
- ▶ Person #1, remove gloves into biohazard bin and use hand sanitizer
- ▶ Put on clean gloves and clean test area
- ▶ Change gloves and set up for next patient



After 15:00
minutes
Interpret the
results

Do not read
results after 30
minutes, the
appearance of the
lines may change

Interpretation and Disposal

- » Test interpretation
- » Waste management

Interpreting Results and Reporting

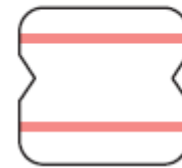
Negative Result



Pink/Purple Control Line

- Control line is Pink
- Sample line is blank (empty)

Positive Result



Pink/Purple Control Line

Pink/Purple Sample Line

- Control line is Pink
- Sample line is Pink

Interpretation: Invalid Results

Invalid Result



No Control Line



Blue Control Line Only



Sample Line Only



Blue Control Line

Sample Line

If the Control Line (top line) is not visible or not Pink, the test is invalid

Invalid tests should be repeated. If the second test is invalid, patient should be tested using PCR.

Disposal / Clean up

- ▶ Test cards and PPE are biohazard waste according to the manufacturer
 - Should be autoclaved, sent with company that handles waste, or work with local health department for options
- ▶ Use EPA registered disinfectant effective against COVID-19 (diluted household bleach or 70% ethanol work well)

Job Aids and Evaluations

- ▶ Read the package insert found in the box before testing
- ▶ Procedure Card
- ▶ Nasal Collection
- ▶ Workflow Instructions
- ▶ Training sign-off forms
- ▶ Quiz
- ▶ YouTube video or Abbott video

Additional Questions:

- ▶ Contact Abbott via information found in the package insert if you have issues with your supplies
- ▶ Some assistance can be obtained through the MDHHS Community Health Emergency Coordination Center at:
checcdeptcoor@michigan.gov
or contacting the Bureau of Laboratories at
MDHHSLab@Michigan.gov