Clinical Laboratory COVID-19 Response Call Monday, January 10, 2022, at 3:00 PM EDT

- Welcome
 - Jasmine Chaitram, CDC Division of Laboratory Systems (DLS)
- Evaluation of a SARS-CoV-2 Antigen Test in a Community Setting
 - Jessica Prince-Guerra, CDC Division of Viral Diseases (DVD)
- The TRUU-Lab Names Initiative: Towards Standardization, Interoperability, and Understanding
 - Ila Singh, Texas Children's Hospital
- FDA Update
 - Tim Stenzel, US Food and Drug Administration (FDA)
- SARS-CoV-2 Variants Update
 - Natalie Thornburg, CDC Laboratory and Testing Task Force for the COVID-19 Response

Division of Laboratory Systems (DLS)

Vision

Exemplary laboratory science and practice advance clinical care, public health, and health equity.

Mission

Improve public health, patient outcomes, and health equity by advancing clinical and public health laboratory quality and safety, data and biorepository science, and workforce competency.

Four Goal Areas



Quality Laboratory Science

 Improve the quality and value of laboratory medicine and biorepository science for better health outcomes and public health surveillance



Highly Competent Laboratory Workforce

 Strengthen the laboratory workforce to support clinical and public health laboratory practice



Safe and Prepared Laboratories

 Enhance the safety and response capabilities of clinical and public health laboratories



Accessible and Usable Laboratory Data

 Increase access and use of laboratory data to support response, surveillance, and patient care

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CDC Preparedness Portal

https://www.cdc.gov/csels/dls/preparedlabs/covid-19-clinical-calls.html

CD

Pre

Find CLCR call information, transcripts, and audio recordings on this page

Centers for Disease Control and Prevention CDC 24/7: Saving Lives, Protecting People™		Search	A-Z Index Q Advanced Search			
Prepared Laboratories						
Prepared Laboratories > Outbreak & Response		Ø () 🗇 🍪			
♠ Prepared Laboratories	Clinical Laboratory COVID-19 Res	ponse Calls				
Preparedness Initiatives Outbreak & Response - COVID-19 Clinical Laboratory COVID-19 Response Calls November 2021	Clinical Laboratory COVID-19 Response Calls					
October 2021 September 2021	CDC's Division of Laboratory Systems (DLS) convenes regular calls with clinical laboratories to discuss the nation's clinical laboratory response to coronavirus disease (COVID-19). These Clinical Laboratory COVID-19 Response Calls take place every other Monday at 3:00 PM Eastern time. Audio and transcripts are posted online after each call.					
August 2021 July 2021 June 2021	To submit questions for consideration, email <u>DLSinquiries@cdc.gov</u> in advance function in Zoom during the call. Because we anticipate a large number of pa may not be able to directly and immediately address every issue. However, we tailor the content of future calls accordingly. We want this call to be useful an – we are all in this together.	rticipants on this call, and many o will note your questions and fe	questions, we edback and			

CDC COVID-19 Data Reporting

https://www.cdc.gov/coronavirus/2019-ncov/lab/reporting-lab-data.html

"Ask on order entry" (AOE) questions are optional, however, core data elements are important

DC	Centers for Disease C CDC 24/7: Saving Lives, Protect	Control and ing People™	Prevention			Search	Search COVID-19		Q
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命	Your Health	Vaccines	Cases & Data	Work & School	Healthcare Workers	Health De	epts	Science	More
More	Resources		How to Re	eport COVII	D-19 Laborator	v Data	a		
CDC in	Action	+ Updated Nov. 3, 2021 Print							
Global	COVID-19	+							
Laborat	tories	_	Summary	of Recent Cl	nanges				
Testir	ng	+							
CDC (COVID-19 Tests	+	Updates as of	Updates as of December 26, 2020					
CDC I	Lab Work	+	As of December 26, 2020:						
Lab F	Lab FAQs • To whom long-term care facilities (LCTFs) should report point-of-care antigen testing data under "Who must report" and "How to report".						must		
Data	and Reporting	-							
Rej	porting Lab Data		On This Page						
	porting SARS-CoV-2 Sequenci sults	ng	Who must report		Assistance	with Electror	nic Report	ting	
Cal	lculating Percent Positivity		What to report		FAQs				
Biosa	ifety	+	Using Standard Terminology						
Data &	Surveillance	+							
Guidan	ice for COVID-19	+	The public health response to COVID-19 depends on comprehensive laboratory testing data. These data will contribute to understanding COVID-19's impact						
Commu	unication Resources	+	and testing coverage and can contribute to the identification of supply chain issues for reagents and other materials. The information below outlines reporting requirements for laboratories. Its june 4 implementation guidance) Act and			

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The next call will be on **Monday, January 24** from **3:00 PM to 4:00 PM ET**



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Division of Laboratory Systems

Excellent Laboratories, Outstanding Health



Training and Workforce Development

Questions about education and training? Contact LabTrainingNeeds@cdc.gov



How to Ask a Question

Using the Zoom Webinar System

- Click the Q&A button in the Zoom webinar system
- Type your question in the Q&A box and submit it
- Please do not submit a question using the chat button



- For media questions, please contact CDC Media Relations at <u>media@cdc.gov</u>
- If you are a patient, please direct any questions to your healthcare provider

8

Slide decks may contain presentation material from panelists who are not affiliated with CDC. Presentation content from external panelists may not necessarily reflect CDC's official position on the topic(s) covered.

9

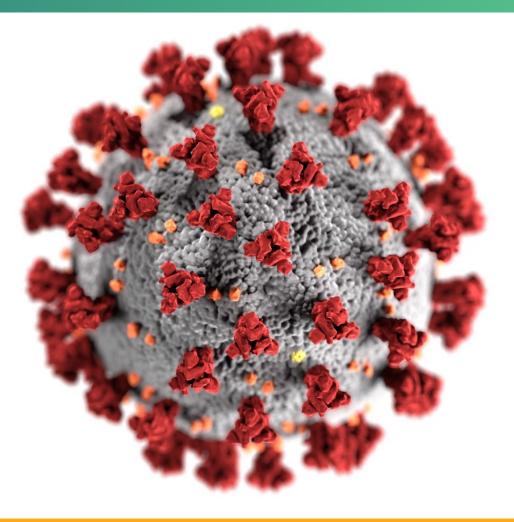
Evaluation of a SARS-CoV-2 Antigen Test in a Community Setting

Jessica Prince-Guerra, PhD Laboratory Leadership Service Fellow CDC, Division of Viral Diseases

CDC's Division of Laboratory Systems Clinical Laboratory COVID-19 Response Call

January 10th, 2022

The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention

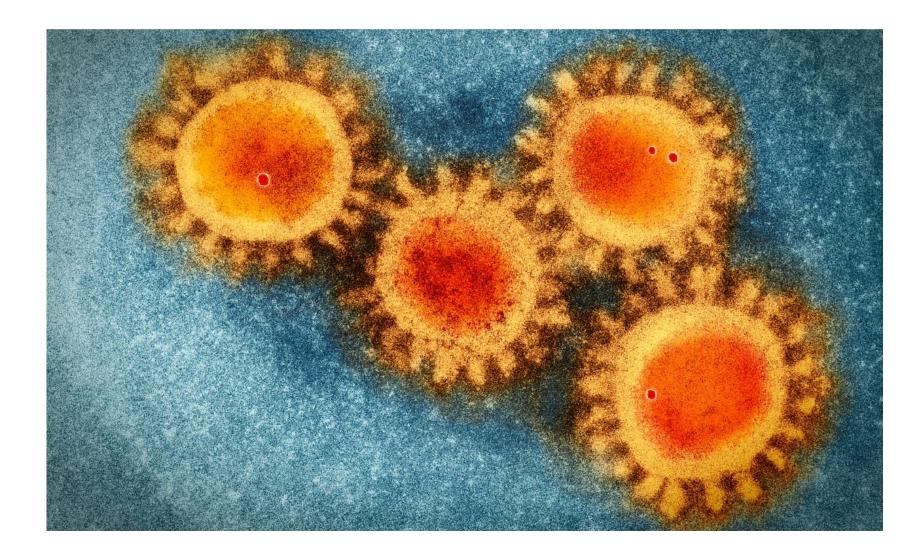




cdc.gov/coronavirus

Overview

- Background
- Purpose
- Methods
- Results
- Discussion



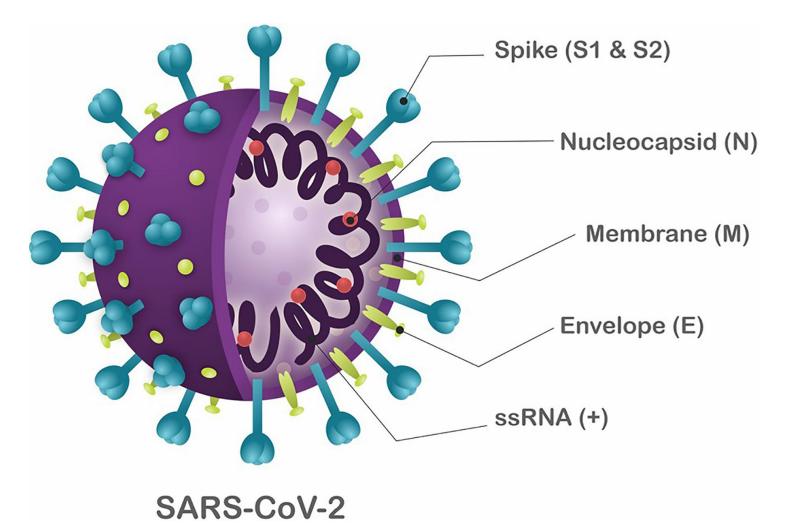


Background



SARS-CoV-2 testing is an important prevention strategy

SARS-CoV-2 rapid antigen tests detect viral proteins





BinaxNOW[™] COVID-19 Ag Card for SARS-CoV-2 Detection received FDA Emergency Use Authorization (EUA) in August 2020





https://www.fda.gov/media/141567/download https://www.fda.gov/media/141570/download https://www.prnewswire.com/news-releases/abbotts-fast-5-15-minute-easy-to-use-covid-19-antigen-test-receives-fda-emergency-use-authorization-mobile-app-displays-test-results-to-help-our-return-to-dailylife-ramping-production-to-50-million-tests-a-month-301119289.html https://www.bloomberg.com/news/articles/2021-02-05/abbott-went-all-in-on-covid-tests-and-it-s-just-getting-started

FDA EUA validation data only included 102 individuals within 7 days of symptom onset

BinaxNOW TM COVID-	Comparator Method			
19 Ag Card	Positive	Negative	Total	
Positive	34	1	35	
Negative	1	66	67	
Total	35	67	102	
Positive Agreement: 34/35 97.1% (95% CI: 85.1% - 99.9%)				
Negative Agreement: 66/67 98.5% (95% CI: 92.0% - 100%)				





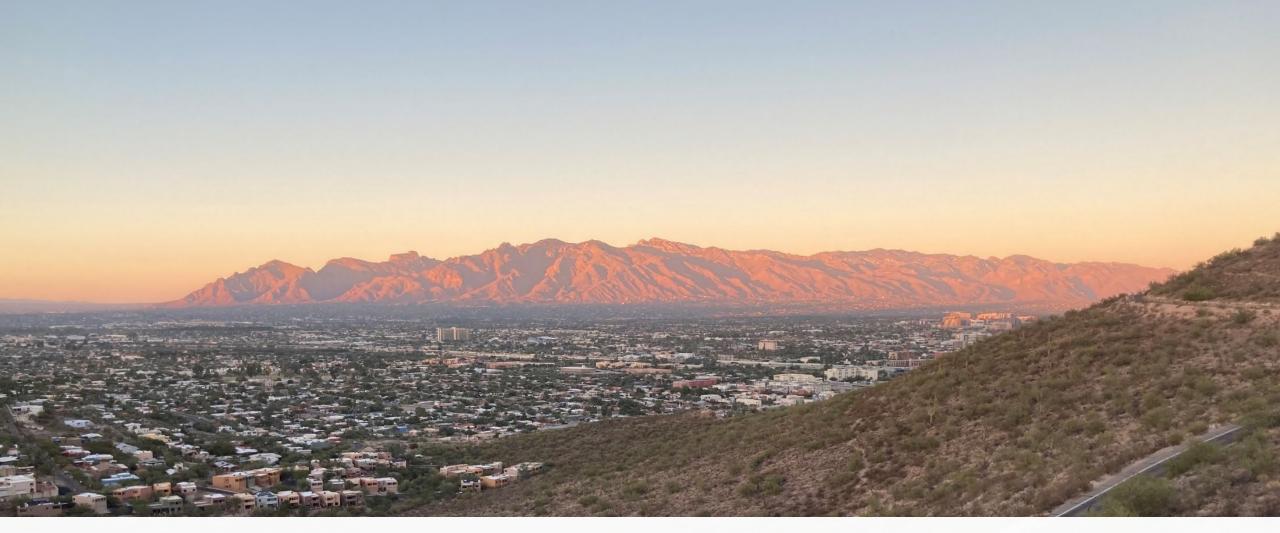
Purpose

The purpose of this evaluation was to assess the performance of the BinaxNOW antigen test compared to real-time RT-PCR in symptomatic and asymptomatic persons at community testing sites.



Methods

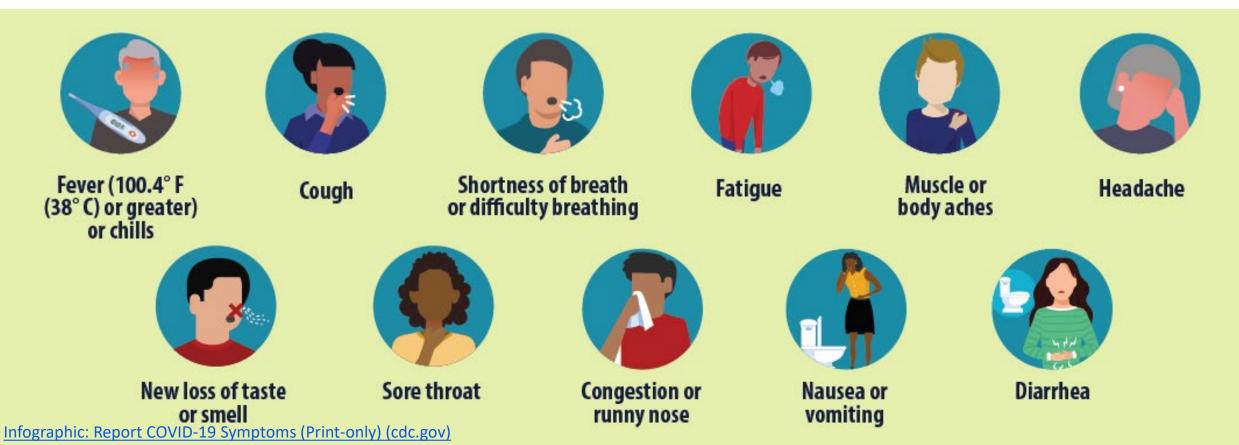




Recruited 3,419 participants ≥ 10 years of age for paired antigen and rRT-PCR testing from two community-based testing sites in **Pima County, Arizona - November 2020**

Survey administered to participants

- Symptoms and days post onset
- Exposure to a diagnosed COVID-19 case
- Demographics Pima County Health Department



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Sample collection

- Paired samples collected by healthcare professional
- First: bilateral nasal swab according to BinaxNOW instructions for use
- Second: bilateral nasopharyngeal swab (for rRT-PCR test)





Laboratory testing

- BinaxNOW point-of-care antigen testing
 - Positive results reported to participants by phone
- Real-time RT-PCR testing
 - Commercial laboratory



- Fosun COVID-19 rRT-PCR Detection Kit
- Positives from either test (n=274) tested by viral culture



Results

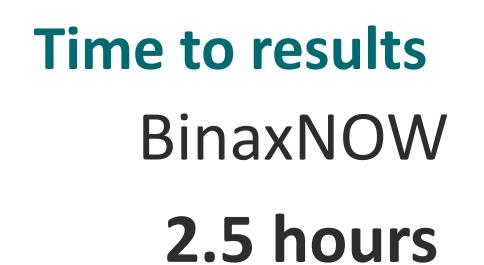


Participant characteristics – 3,419 paired results

- Participants aged 10 95 years (median = 41)
 - 2,592 (76%) asymptomatic; 827 (24%) with ≥ 1 symptom
- Race/ethnicity
 - Nearly one-third self-reported ethnicity as Hispanic or Latino
 - Half self-reported race/ethnicity as White, Non-Hispanic
- Asymptomatic
 - 1.9% positive by antigen test; 4.7% positive by real-time RT-PCR
- Symptomatic
 - 13.7% positive by antigen test; 21.3% positive by real-time RT-PCR



Prince-Guerra JL, Almendares O, Nolen LD, et al. Evaluation of Abbott BinaxNOW Rapid Antigen Test for SARS-CoV-2 Infection at Two Community-Based Testing Sites -Pima County, Arizona, November 3-17, 2020MMWR Morb Mortal Wkly Rep **2021**; 70(3): 100-5.

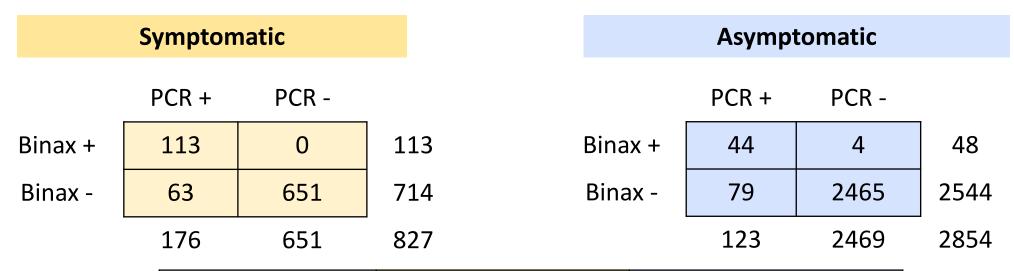


rRT-PCR 26 hours

Almendares O, Prince-Guerra JL, Nolen LD, et al. Performance characteristics of the Abbott BinaxNOW SARS-CoV-2 antigen test in comparison to real-time RT-PCR and viral culture in community testing sites during November 2020. J Clin Microbiol **2021**: JJCM0174221



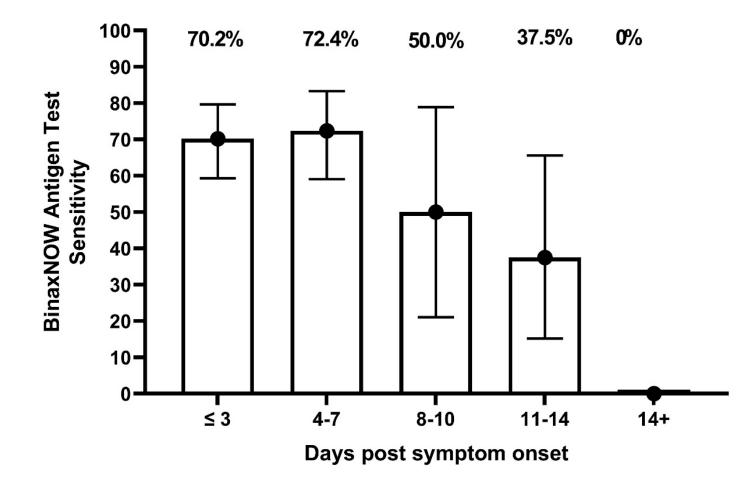
BinaxNOW antigen test performance



	Symptoma	tic	Asymptomatic		
Sensitivity	113/176	64.2%	44/123	35.8%	
Specificity	651/651	100%	2465/2469	99.8%	
PPV	113/113	100%	44/48	91.7%	
NPV	651/714	91.2%	2465/2544	96.9%	

Prince-Guerra JL, Almendares O, Nolen LD, et al. Evaluation of Abbott BinaxNOW Rapid Antigen Test for SARS-CoV-2 Infection at Two Community-Based Testing Sites -Pima County, Arizona, November 3-17, 2020MMWR Morb Mortal Wkly Rep **2021**; 70(3): 100-5.

BinaxNOW antigen test performance is highest within 7 days of symptom onset



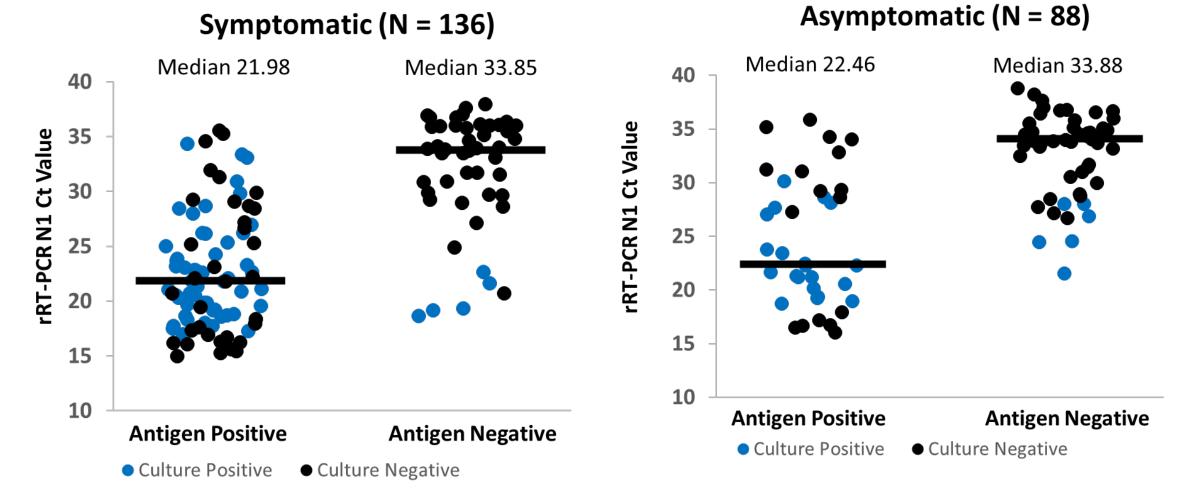
Almendares O, Prince-Guerra JL, Nolen LD, et al. Performance characteristics of the Abbott BinaxNOW SARS-CoV-2 antigen test in comparison to real-time RT-PCR and viral culture in community testing sites during November 2020. J Clin Microbiol **2021**: JJCM0174221

Viral culture results in samples positive by either test

Sample Categories	Virus Recovered N (%)	Total
All positive samples	96 (35%)	274
Antigen Positive, rRT-PCR Positive	85 (57.8%)	147
Antigen Negative, rRT-PCR Positive	11 (8.9%)	124
Antigen Positive, rRT-PCR Negative	0 (0%)	3

Prince-Guerra JL, Almendares O, Nolen LD, et al. Evaluation of Abbott BinaxNOW Rapid Antigen Test for SARS-CoV-2 Infection at Two Community-Based Testing Sites - Pima County, Arizona, November 3-17, 2020MMWR Morb Mortal Wkly Rep **2021**; 70(3): 100-5.

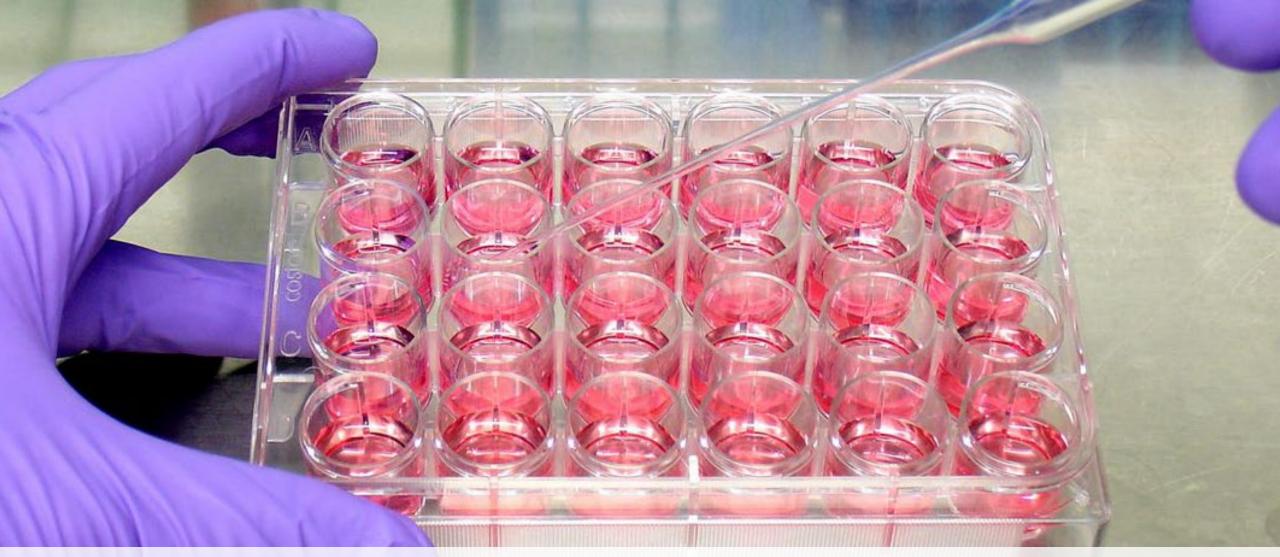
Samples with lower cycle threshold values were more likely to be concordant



Prince-Guerra JL, Almendares O, Nolen LD, et al. Evaluation of Abbott BinaxNOW Rapid Antigen Test for SARS-CoV-2 Infection at Two Community-Based Testing Sites - Pima County, Arizona, November 3-17, 2020MMWR Morb Mortal Wkly Rep **2021**; 70(3): 100-5.

BinaxNOW antigen test sensitivity improved in culture positive samples

	Symptomatic	Asymptomatic
Total	68	28
Antigen Positive, rRT-PCR Positive	63	22
Antigen Negative, rRT-PCR Positive	5	6
Sensitivity	92.6%	78.6%



The inability to isolate virus from a clinical sample should not be interpreted to mean a person is not infectious and incapable of transmission



 Nasal swabs were used for BinaxNOW antigen testing, but NP swabs were used for real-time RT-PCR testing

COVID-19 symptoms are non-specific and difficult to capture

Results not generalizable to other SARS-CoV-2 antigen tests



Discussion



Results summary

- The faster turnaround time of the antigen test, compared to rRT-PCR, is beneficial because it allows for rapidly identifying persons for isolation.
- BinaxNOW antigen test sensitivity was lower in asymptomatic than symptomatic persons (35.8% versus 64.2%), but specificity was high.
- Sensitivity was higher among viral culture positive samples, however some antigen test-negative samples also had culturable virus.



Takeaway Messages



Antigen test results may need confirmatory testing



https://www.cdc.gov/coronavirus/2019-ncov/lab/resources/antigen-tests-guidelines.html#evaluating-test-results ³⁷

Despite lower sensitivity, the faster results from point of care antigen tests can lead to more rapid isolation of COVID-19 cases



COVID-19 Viral Testing Tool is an interactive web tool designed to help both healthcare providers and individuals understand COVID-19 testing options.

https://www.cdc.gov/coronavirus/2019-ncov/testing/index.html

Acknowledgements

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 - Peggy Honein
 - Mark Anderson
 - Julie Villanueva
 - Dale A. Rose

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- Olivia Almendares
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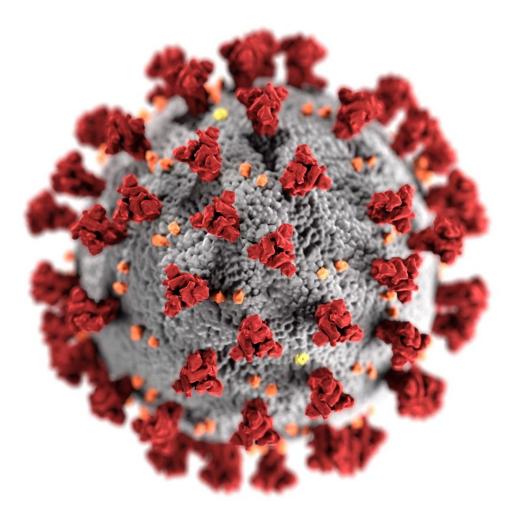
Thank-you

Questions?

For more information, contact CDC 1-800-CDC-INFO (232-4636) TTY: 1-888-232-6348 www.cdc.gov

The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.





The TRUU-Lab Names Initiative: Towards Standardization, Interoperability and Understanding

lla Singh, MD, PhD

Chief of Laboratory Medicine Chief of Pathology Informatics Texas Children's Hospital Professor, Baylor College of Medicine

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Today's Talk

- TRUU-Lab and Goals
- What we have done:
 - Identified & Categorized Common Problematic Names
 - Finished First Surveys of 200 Clinicians
 - Gone Live with Second Survey
- Yet to Come in brief

- Not about what has been previously covered
 - Why Naming Problems Exist
 - Safety Issues related to Names
 - Current Practices to Address 'bad' Names
 - Other Naming Practices or Attempts

No Conflicts of Interest







A Case of Measles ... No Lab Test?



Test found in EMR Rubeola IgM

Pic: Mayo Foundation for Medical Education and Research

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TRUU-Lab



Aims to bring together

- Healthcare Providers,
- Professional Societies,
- Industry Groups, and
- Federal Liaisons

to address problems caused by ambiguous, incomplete, and non-standard laboratory test names

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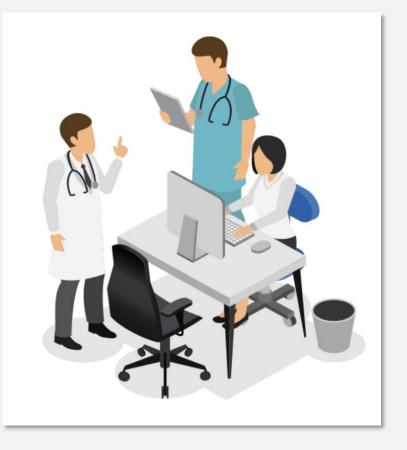
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TRUU-Lab's Goals

- Generate consensus names for existing lab tests
- Generate a consensus guideline for test naming
- Promote the adoption and implementation of consensus lab test names and guidelines







TRUU-Lab Members

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Commercial

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- Daniel Johnson (Sysmex)
- Jeff Schreier (Diaceutics)
- Jon Nakamoto, MD, PhD (Amazon)

Clinical Pathologists and Scientists

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International Partners

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Standardization in Pharmacologic/ **Toxicology Testing** Norway

Royal College of Pathologists of Australasia Sydney, Australia

Brazil Association of LIS Directors Sao Paulo, Brazil







CDC

Jasmine Chaitram Nancy Cornish Maribeth Gagnon Reynolds Salerno

Param Sandhu Monica Toles





Lack of Standardization in Test Names

Vitamin D 25 hydroxy 1,25 dihydroxy	Thalassemia Screen Hemoglobin Variant Reflexive Panel Hemoglobin A2	eGFR vs EGFR SM Ab (Smith or Smooth muscle?)	Vasopressin Antidiuretic hormone (ADH) Arginine Vasopressin (AV)	Quantiferon Gold and Interferon-Gamma Release assay (TB)
Factor V Leiden Vs Factor V Levels	Hemoglobin A1c Glycated hemoglobin A1c	Free LC/MS-MS	Character limits Respiratory Virus Panels Celiac algorithm	Human Chorionic Gonadotrophin for Pregnancy vs Tumor Marker

TRUU-LAB Sub-Committee Dr. Gary Procop





Creating 'Good' Names

Traditionally - Names are chosen by Lab Directors *without* input from people who use them

Let's ask the people who use the names, i.e. clinicians of all kinds

Clinician's idea of a 'good' name is colored by their own experiences – good or bad

Experiences vary an enormous amount: HIV RNA test (quantitative)

- HIV-1, Quantitative, Real-Time PCR (Quest Diagnostics)
- HIV-1 RNA by Quantitative RT-PCR, Plasma (ARUP Laboratories)
- HIV 1 RNA NAA+probe, Log #/Vol (LOINC)
- HIV viral load PCR (Mass General Hospital

No one calls it an *AIDS* test (compare that with 'COVID test')





Survey Takers and the Brand Institute

Surveyed Clinicians from Specialties that order quite a few tests

Two surveys, Name Survey & FMEA survey, 100 clinicians each
20 Emergency Physicians
20 Pediatricians
20 Obstetrician-Gynecologists
20 Family Practice and General Practice Physicians
10 Nurse Practitioners
10 Physician Assistants
37% > 20 yr experience
42% with 10-20 years experience



Involved in naming >80% of Pharmaceutical Products in the world.

Both Generic and Brand Names.



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Lab Names Survey

Two Structural Parts

1. Give a clinical scenario for which they choose appropriate Lab tests **Unaided Survey**

2. Provide background information about the test and *then* ask questions about what would make an ideal name **Aided Survey**

- Avoids provider responses that are driven by *prior* knowledge and experience
- Ensures providers are making *informed* decisions
- Reaches *intuitive* test names that we anticipate will be widely understandable





Unaided Survey

A 40-year old woman presents with fever and shortness of breath. She is not vaccinated against COVID-19. You would like to test her for potential SARS-CoV-2 infection.

Which of the tests listed below would you order?

Please rank up to three tests listed below that best communicate exactly what you want:

For the test that **best communicates what you want** select "1" For **the second test that best communicates what you want** select "2" For the **third test that best communicates what you want** select "3"

A number of choices with SARS-CoV-2 nucleic acid, antibodies, and antigens were provided.

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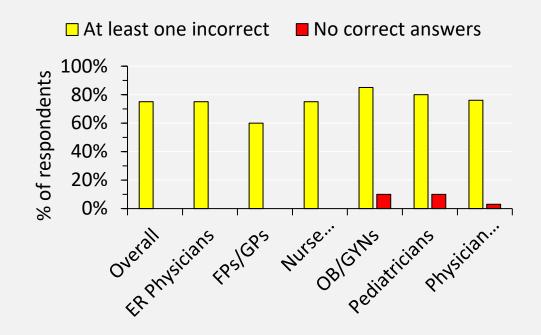
Unaided Surveys

Vitamin D Testosterone Anti-Xa SARS-CoV-2 RNA

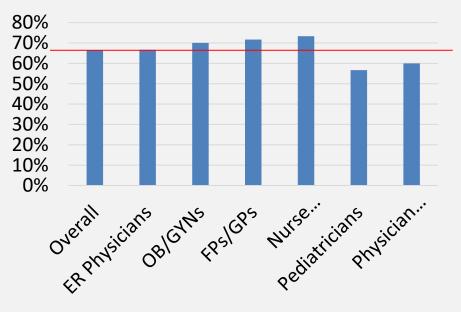




SARS-CoV-2: Correct Test Choice same as by Chance



Percent of correct answers



- 76% of all providers chose at least one incorrect test name (out of 3)
- 66% of selections were correct, equal to chance (66% of choices were correct)
- Pediatricians and PAs did worse than chance
- 10% of OB-GYNs and Pediatricians chose only incorrect tests

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Lab Test Names are really a problem!



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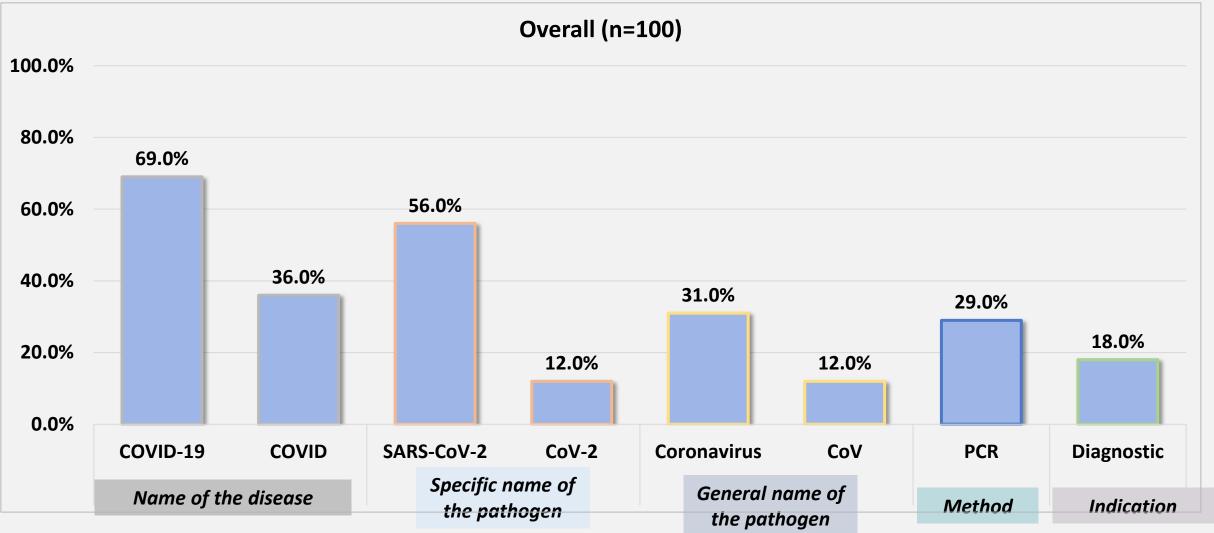
What information in a test name would be most helpful to differentiate between an Antigen test and a molecular test: 100% 80% Mixed opinions (target, indication) 60% 37.0% 40% 34.0% 25.0% 20% 4.0% 0.0% 0% Type of target Indication for use Method Test setting (POCT vs. Other (antigen vs. viral RNA) laboratory) (early exposure risk (immunoassay vs. RTvs. diagnosis of PCR) COVID-19)







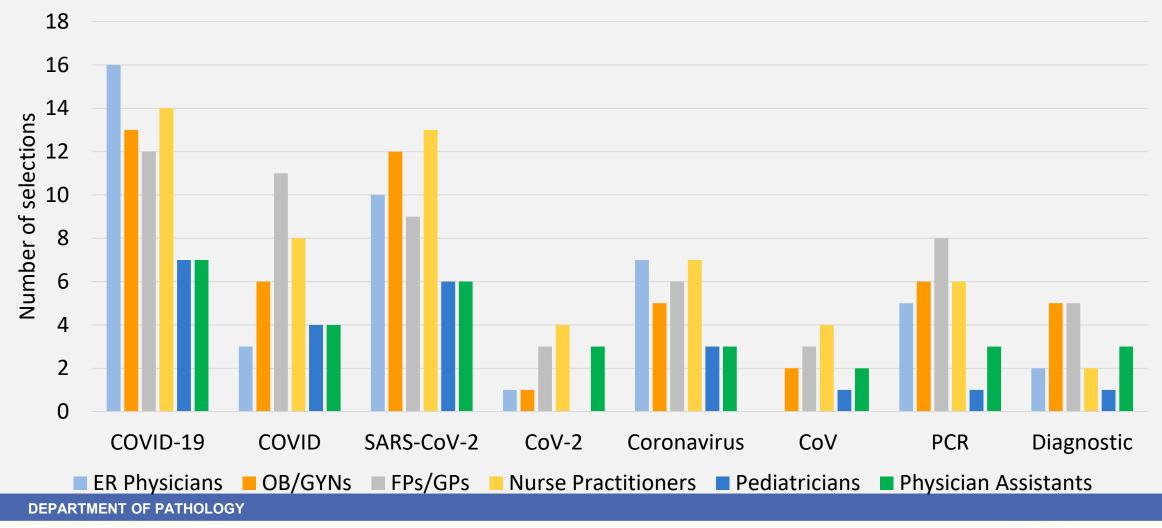
Preference for Keywords







General Consensus among Specialties about Keywords





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Lessons Learned

- Test Names are a Problem respondents do not perform much better than chance. They need help!
- The most widely preferred types of information within names were "core identifiers" (i.e. the **name of the target**) and "utilization aids" (i.e. **indication for testing**)
- The "actual name of the target" was preferred for testosterone and Vitamin D, but the name of the disease (COVID-19) was more frequently chosen than SARS-CoV-2
- Indications FOR use were strongly preferred over warnings AGAINST improper use when both options were given
- For Vitamin D testing, where the target names are complex and the indications are complex too, warnings against inappropriate use were preferred
- There isn't a 'One Size Fits All', but there are likely common patterns that will become clearer with subsequent surveys

We will use Results from these Surveys

to build General Guidelines for Test Naming

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Test Before Widespread Implementation

- Present a Clinical Scenario within a Mock EMR
- Populate the Mock EMR with optimal as well as sub-optimal names. See what people choose.

Goal – Get these standardized names in the foundation build of all EMRs and LIS – Better Interoperability

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Thank you!

CDC

- Jasmine Chaitram
- Nancy Cornish
- Maribeth Gagnon
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- Param Sandhu
- Monica Toles

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- Brian Frasca
- Luisanna Meija
- Carlos Gomez
- Minnie Suh
- Ricardo Montemayor



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Center for Surveillance, Epidemiology, and Laboratory Services

SARS-CoV-2 Variants Update

CDC Laboratory and Testing Task Force for the COVID-19 Response



U.S. Department of Health and Human Services Centers for Disease Control and Prevention

Center for Surveillance, Epidemiology, and Laboratory Services

FDA Update

Tim Stenzel US Food and Drug Administration (FDA)



U.S. Department of Health and Human Services Centers for Disease Control and Prevention

U.S. Food and Drug Administration (FDA)

 COVID-19 Emergency Use Authorization (EUA) Information for Medical Devices

https://www.fda.gov/medical-devices/emergencysituations-medical-devices/emergency-useauthorizations

• COVID-19 In Vitro Diagnostic EUAs

https://www.fda.gov/medical-devices/coronavirusdisease-2019-covid-19-emergency-useauthorizations-medical-devices/vitro-diagnostics-euas

COVID-19 Frequently Asked Questions

https://www.fda.gov/emergency-preparedness-andresponse/coronavirus-disease-2019-covid-19/coronavirus-disease-2019-covid-19-frequentlyasked-questions COVID-19 Updates

https://www.fda.gov/emergency-preparedness-andresponse/mcm-legal-regulatory-and-policyframework/emergency-use-authorization#2019-ncov

FDA Townhall Meetings

https://www.fda.gov/medical-devices/workshopsconferences-medical-devices/virtual-town-hall-seriesimmediately-effect-guidance-coronavirus-covid-19diagnostic-tests-06032020

 Independent Evaluations of COVID-19 Serological Tests

https://open.fda.gov/apis/device/covid19serology/



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U.S. Food and Drug Administration (FDA)

- COVID-19 Diagnostic Development CDRH-EUA-Templates@fda.hhs.gov
- Spot Shortages of Testing Supplies: 24-Hour Support Available
 - 1. Call 1-888-INFO-FDA (1-888-463-6332)
 - 2. Then press star (*)
- FDA MedWatch

<u>https://www.fda.gov/safety/medwatch-fda-safety-information-and-adverse-</u> <u>event-reporting-program</u>



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CDC Social Media



Thank You For Your Time!



This box being opened by an American Hero It love the Lab # labprofessionals rock

Photo submitted by the Microbiology Laboratory at The University of Pittsburgh Medical Center