



Kansas Department of Health and Environment



Legislative Budget Committee

Marci Nielsen, PhD, MPH | October 7, 2020

COVID-19 Overview



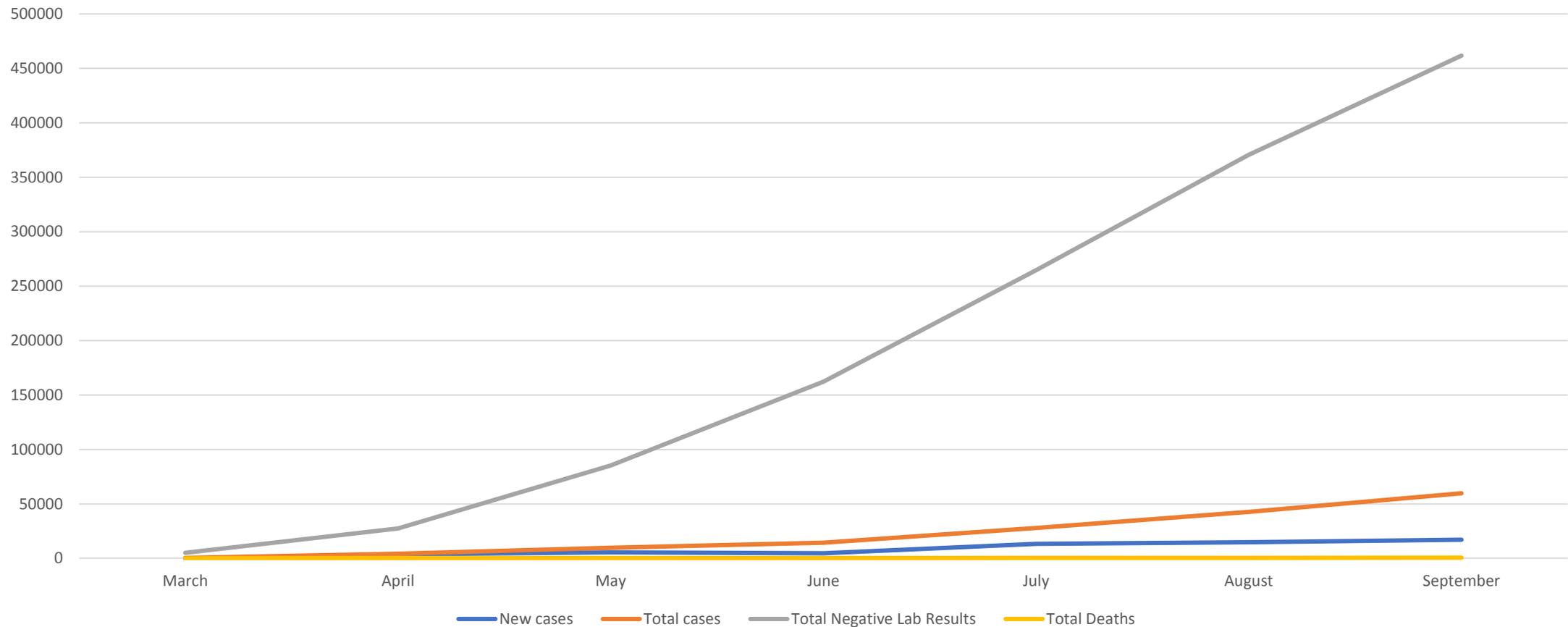
- As of October 5, 2020, since March 9, 2020 Kansas has recorded **62,708 cases** of COVID-19 in 105 counties
- **706 total deaths**
- **3,036 hospitalizations**
- **707 total clusters** with 13,809 cases, 738 hospitalizations and 401 associated deaths
- **219 active clusters** with 7,035 cases, 232 hospitalizations and 149 deaths

	March	April	May	June	July	August	September	October*
New Cases	-	3,810	5,481	4,724	13,369	14,800	17,137	2,959
Total Cases	428 (in 39 counties)	4,238 (in 80 counties)	9,719 (in 88 counties)	14,443 (in 97 counties)	27,812 (in 103 counties)	42,612 (in 105 counties)	59,749 (in 105 counties)	62,708 (in 105 counties)
Total Negative Lab Results	4,996	27,388	85,230	162,282	264,695	370,637	461,701	478,398
Total Deaths	9	129	208	270	358	446	678	706
New Deaths	-	120	79	62	88	88	232	28

*As of October 5, 2020

COVID-19 Overview

COVID-19 Cases in Kansas by Month



COVID-19 Testing

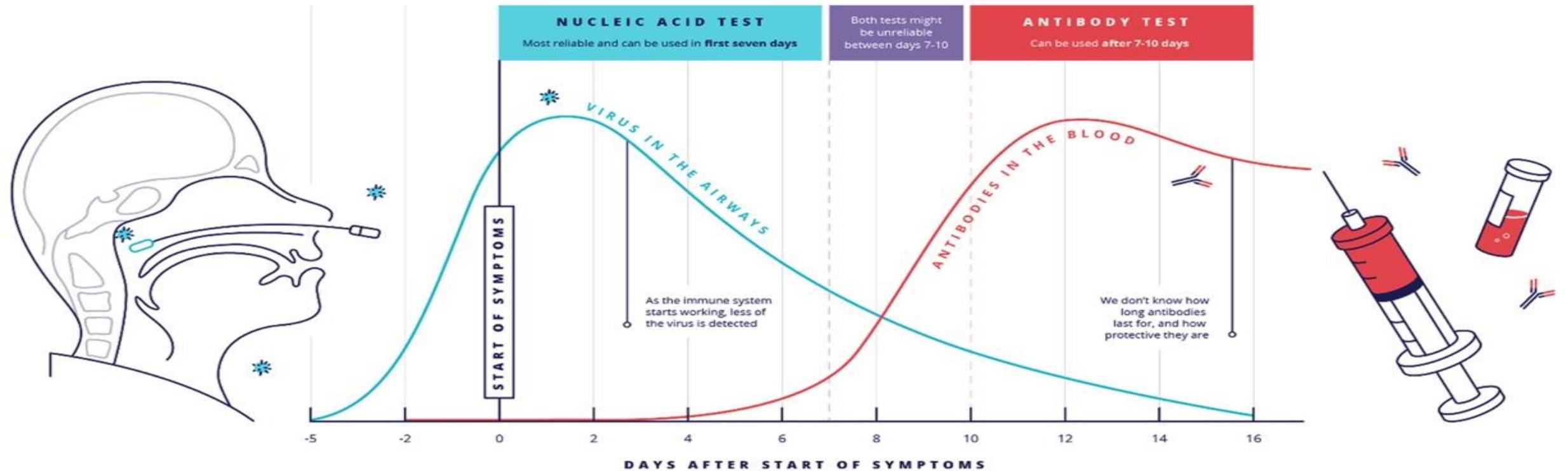


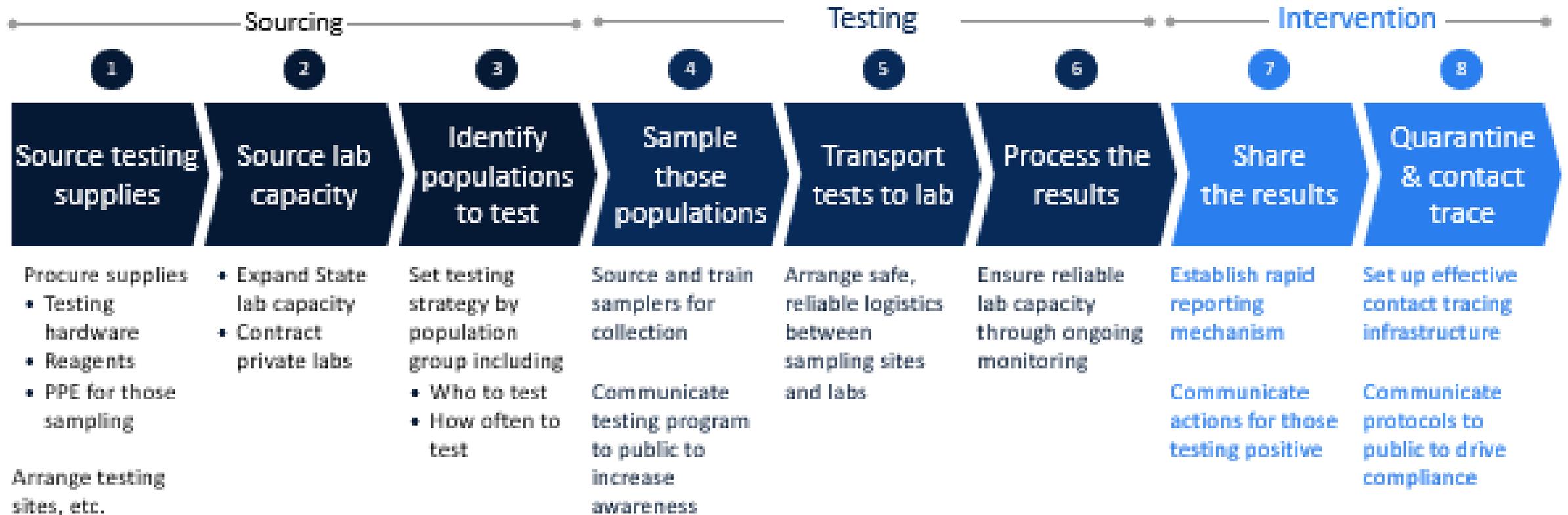
Chart: The rise and fall of the virus in the airways and antibodies in the blood for 21 days after exposure to

COVID-19 Testing

	Molecular	Serological
Purpose	<ul style="list-style-type: none"> Diagnoses only active coronavirus infection 	<ul style="list-style-type: none"> Shows past infection of COVID-19
Description	<ul style="list-style-type: none"> Cannot detect if you ever had COVID-19 or were infected with COVID-19 in the past and subsequently recovered 	<ul style="list-style-type: none"> Cannot diagnose active coronavirus infection at the time of the test or show that you do not have COVID-19
Types of test	<p>PCR test (Lab equipment needed)</p> <ul style="list-style-type: none"> Detects genetic material of the virus 2 sampling methods: Vast majority nasal or throat swab, but saliva has also received approval from EUA Results available in minutes if analyzed on-site or many days in locations with test processing delays Most accurate kind of test <p>Antigen test (Minimal or no lab equipment needed)</p> <ul style="list-style-type: none"> Detects certain proteins in the virus Collected from a nasal or throat swab to get fluid sample Results available in minutes Less accurate than PCR; potential for false-negative results 	<p>Serological test (Lab equipment needed)</p> <ul style="list-style-type: none"> Detects presence of antibodies Collected from a finger prick or by drawing blood Results available typically within a few days Accuracy affected by timing (how soon you take the test after infection) and type
Processing time	<ul style="list-style-type: none"> Saliva/Swabs (PCR) – 6 hours, Swabs (rapid PCR and Antigen) – 15 min 	<ul style="list-style-type: none"> 10 hours
Use cases	<ul style="list-style-type: none"> Treat symptoms, control outbreaks through contact tracing 	<ul style="list-style-type: none"> Plasma donations for infusion treatment Note: not conclusive evidence antibodies constitute immunity

Source: Mayo Clinic “How do COVID-19 antibody tests differ from diagnostic tests (Aug 19, 2020); FDA “FAQs on Testing for SARS-CoV-2” (July 23, 2020)

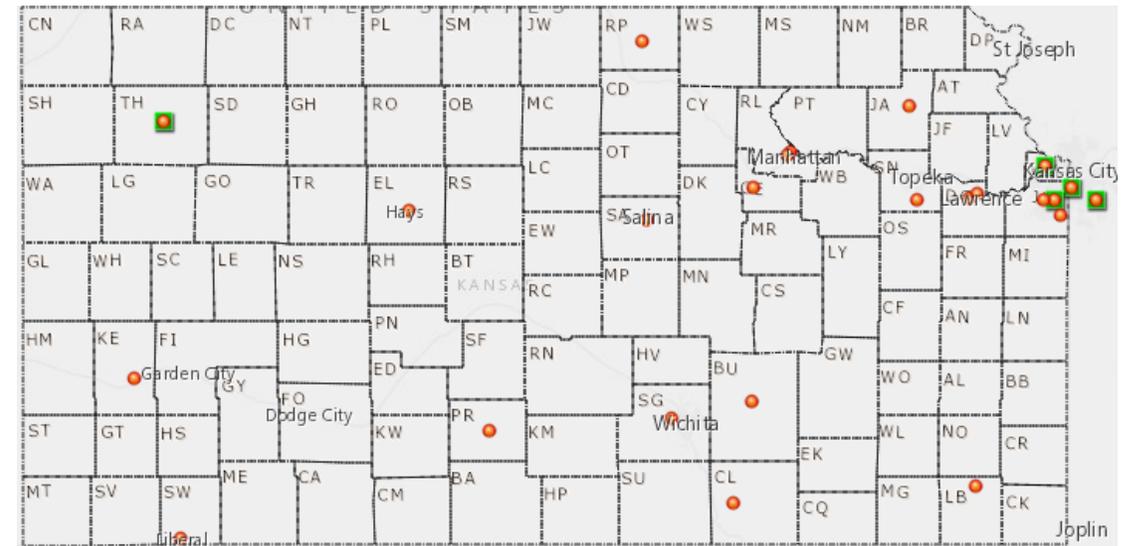
Steps Involved in Testing



Who is Testing?

There are four significant testing facility types operational in Kansas for COVID-19 testing.

1. Kansas Health and Environmental Laboratories
2. Mobile Laboratories or Collection Teams
3. Major commercial reference laboratories
4. Local reference laboratories and captive laboratories (includes university labs)



COVID-19 Testing Labs in Kansas

State Testing Strategy



SPARK Round 2 Allocations

- \$20,743,000.00 to increase State Lab Capacity
- Total Funds Distributed (9/30/2020): \$18,827,550.00
- Total remaining to expend: \$1,915,450.00
- This appropriation is used for the following purposes to increase capacity to 5,000 tests per day:
 - Equipment
 - Testing Materials
 - Initial Staff Cost

SPARK Round 3 Allocations

- \$52,000,000+ to implement a unified COVID-19 testing strategy for Kansas
- Our state unified strategy will aim to coordinate public and private testing efforts across the state and communicate testing goals and objectives

KDHE Current Testing Strategy



- For most testing through the state laboratory persons must meet the criteria for a Person Under Investigation (PUI).
- In some situations, such as outbreaks at congregate living facilities, both symptomatic and asymptomatic persons may be recommended for testing either at the state laboratory or at a private laboratory.
- KDHE will support and assist with local health department coordinated “drive through” testing sites, mobile laboratory support or mobile collection support to provide the most efficient testing strategy for their needs.
- The testing target is to conduct diagnostic tests for approximately 2% of the Kansas population (60,000 tests) each month through the end of 2020.

<https://www.coronavirus.kdheks.gov/DocumentCenter/View/1294/Kansas-Lab-Testing-Strategy-Priorities---6-10-20>

Kansas Testing Details

People Tested	Negative Results	Monthly Percent Positive	Monthly Testing Rate/100,000
541,106	478,398	7.2%	397

IMPORTANT NOTE: The number of people tested represents any Kansas resident that was tested for the SARS-CoV-2 virus by a diagnostic test (e.g., PCR, antigen). Data as reported by laboratories into the KDHE electronic disease surveillance system (EpiTrax). Data are preliminary and subject to quality improvement and quality assurance validation. As of July 27, 2020 the definition of number of people tested was updated to include only diagnostic testing. Monthly testing rate is per 100,000 population.

Positive PCR Tests by Performing Lab

Laboratory	Number of Cases	% of Cases
State Lab (KHEL)	14,040	23.8%
Private Labs	45,027	76.2%
Total	59,067	100.0%

Cases by Lab Type

Test Type	Percent of Cases
PCR	95.6%
Antigen	4.3%
Serology*	0.0%

*Cases with serology results are required to have either an epidemiologic link to a case or signs and symptoms compatible with COVID-19.

Race Testing Rates per 1,000

Race	Persons Tested	Rate per 1,000
White	305,327	119.98
Black or African American	25,143	115.33
Asian	9,260	86.29
American Indian or Alaska Native	3,094	47.75
Other Race	32,807	356.35
Not Reported/Missing	165,475	

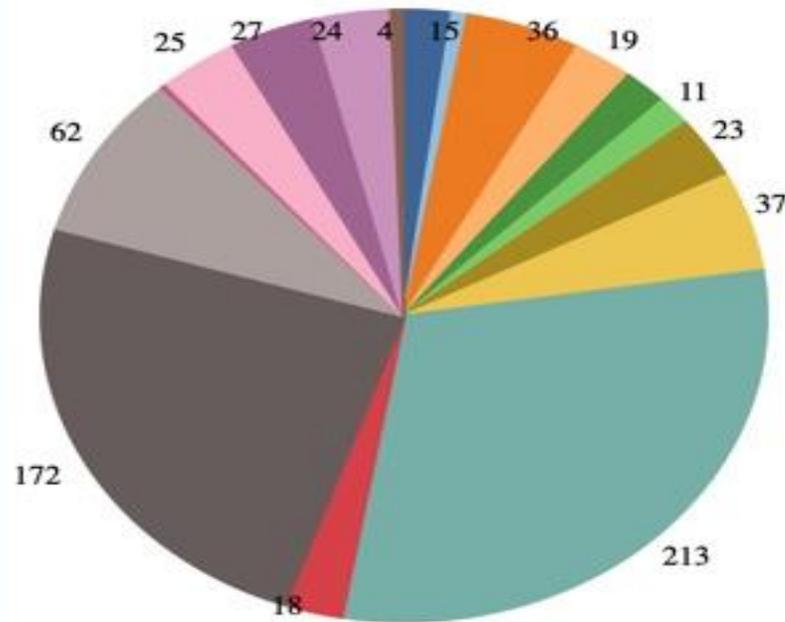
Ethnicity Testing Rates per 1,000

Ethnicity	People Tested	Rate per 1,000
Hispanic or Latino	43,028	123.49
Not Hispanic or Latino	279,390	109.01
Unknown or Missing	218,688	

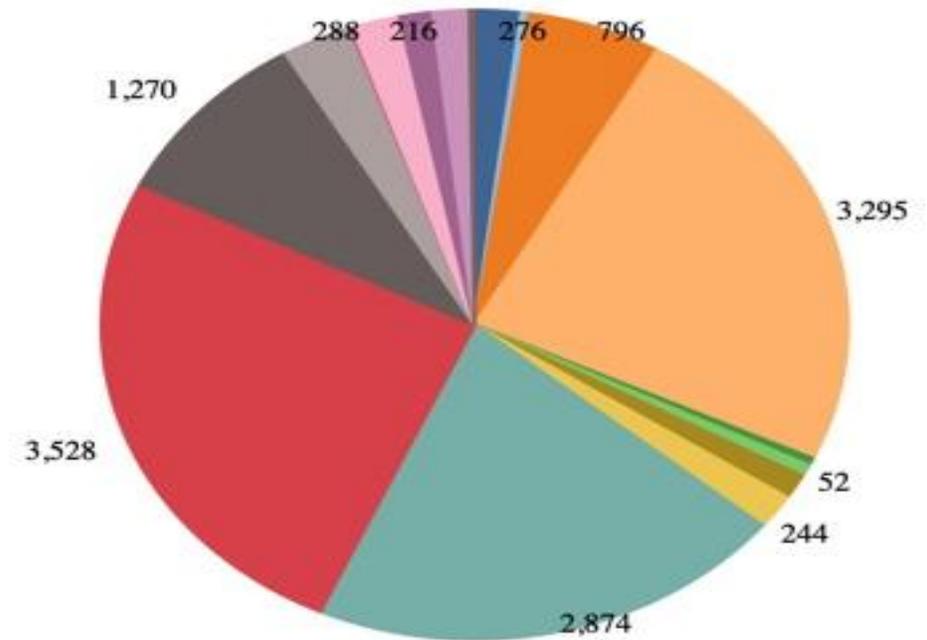
Unified Testing Strategy



Number of Clusters by Type



Number of Cases by Cluster Type



Expanded Capacity for Diagnostic Testing



Currently Kansas has a gap in testing

- Goal is to have sampling and testing availability for anyone who has one or more COVID-19 like symptoms
- Goal is to have sampling and testing availability for anyone who has been identified as a close contact
- Goal is to have sampling and testing availability for asymptomatic and symptomatic people associated with an outbreak (defined as one or more cases in a long-term care facility and two or more cases in other settings)

<https://www.coronavirus.kdheks.gov/DocumentCenter/View/1294/Kansas-Lab-Testing-Strategy-Priorities---6-10-20>

Unified Testing Strategy



- A unified testing strategy provides an opportunity to expand on Kansas current statewide testing strategy which has - by necessity - focused on testing those with symptoms and cluster investigations.
- An expanded testing strategy will allow for more broad routine screening to stop community spread of the virus, such as in schools and nursing homes, and will ensure coordination between public and private testing efforts.
 - *Governor Laura Kelly, Sept 28, 2020*

Unified Testing Strategy



- Accessible, equitable, cost-effective and timely COVID-19 testing across state
- Support Kansas schools and businesses as they continue to responsibly reopening
- Use all available testing sites and platforms available statewide
- Coordinate public and private COVID-19 testing efforts
- Prioritize testing based on evidence-based public health criteria
- Identify state best practices for screening and surveillance testing
- Use shared goals and clear metrics, remaining flexible to integrate technologies/research as appropriate

Thank You/Questions

