

COVID-19 UPDATE

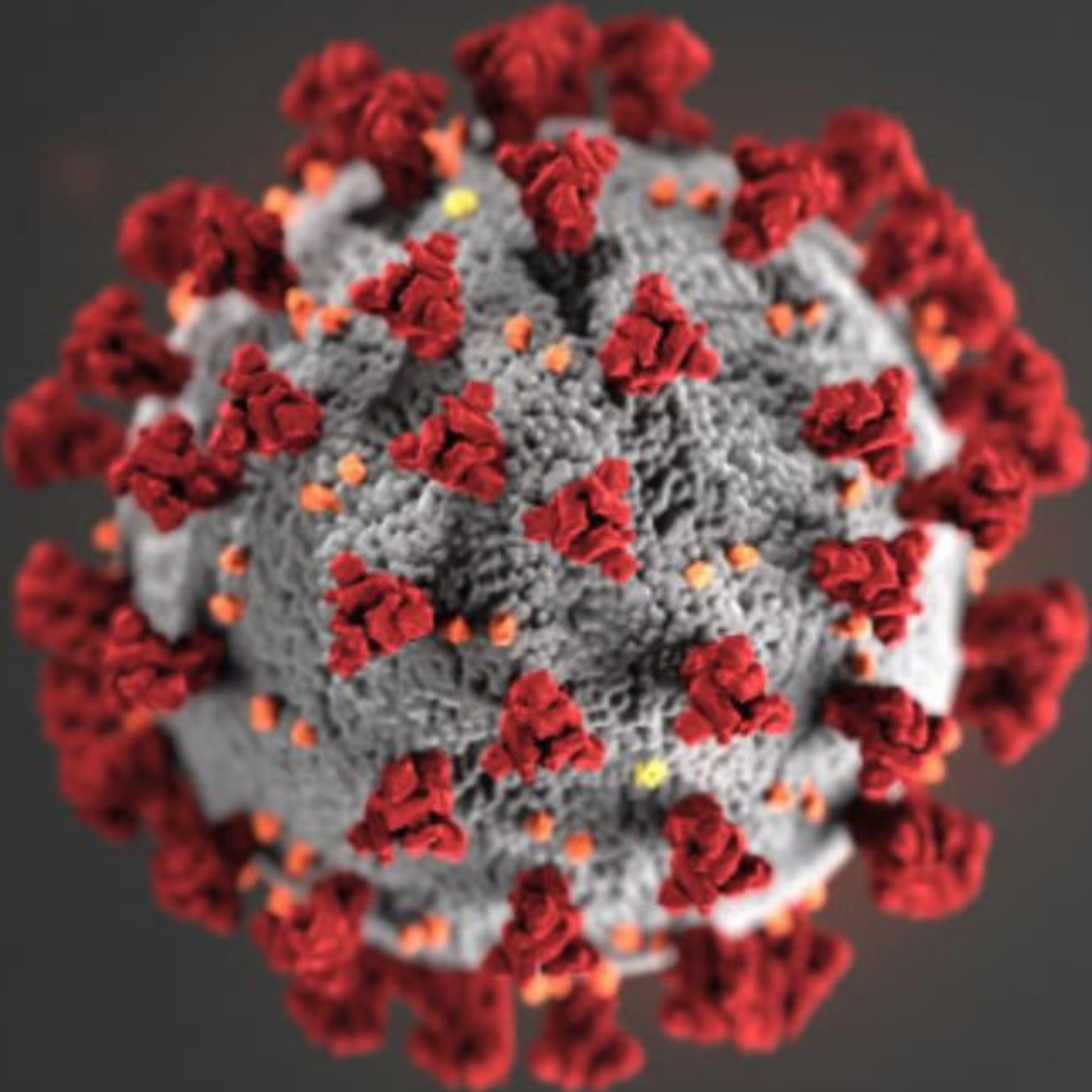
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Professor, UAMS Colleges of Medicine and Public Health

08.20.2020





SARS-CoV-2
illustration: CDC

WHAT ACHI IS DOING

- Established analytic surge capacity support for:
 - Arkansas Department of Health
 - Arkansas Department of Education
 - Employment Benefits Division of Arkansas Dept. of Shared Services
- Utilizes legislative authorization of Arkansas Health Data Initiative and Arkansas Healthcare Transparency Initiative, as well as authority under declared public health emergency



TO DATE, ACHI HAS PROVIDED:

- New cases heat-mapped across the state
- Risk of adverse events (hospitalization, intubation, death) with COVID-19 calculated for state, insured public school, and insured state employee populations
- Arkansas community-level cumulative and active COVID-19 cases listed



ADJUSTED RELATIVE RISK OF SEVERE OUTCOMES FOR SELECTED CONDITIONS

	Hospitalization	ICU admission	Intubation	Death
<i>Kidney Failure</i>	+60%	+80%	+140%	+100%
<i>Immunocompromised</i>	+80%	+90%	+160%	+70%
<i>Diabetes</i>	+60%	+60%	+60%	+70%
<i>CHF</i>	+50%	+70%	+40%	+60%
<i>Dementia</i>	-10%	-10%	-50%	+50%
<i>COPD</i>	+40%	+50%	-10%	+20%
<i>Asthma</i>	+30%	+30%	+20%	+20%
<i>CHD</i>	+30%	+20%	+30%	0%
<i>Other Heart Diseases</i>	+20%	+20%	-10%	-10%
<i>Mental and Behavioral Disorders</i>	+10%	-10%	-20%	+10%
<i>Essential Hypertension</i>	0%	+10%	0%	-30%



Note: Sample size more than 17,000 COVID-19 patients, chosen based upon data availability.

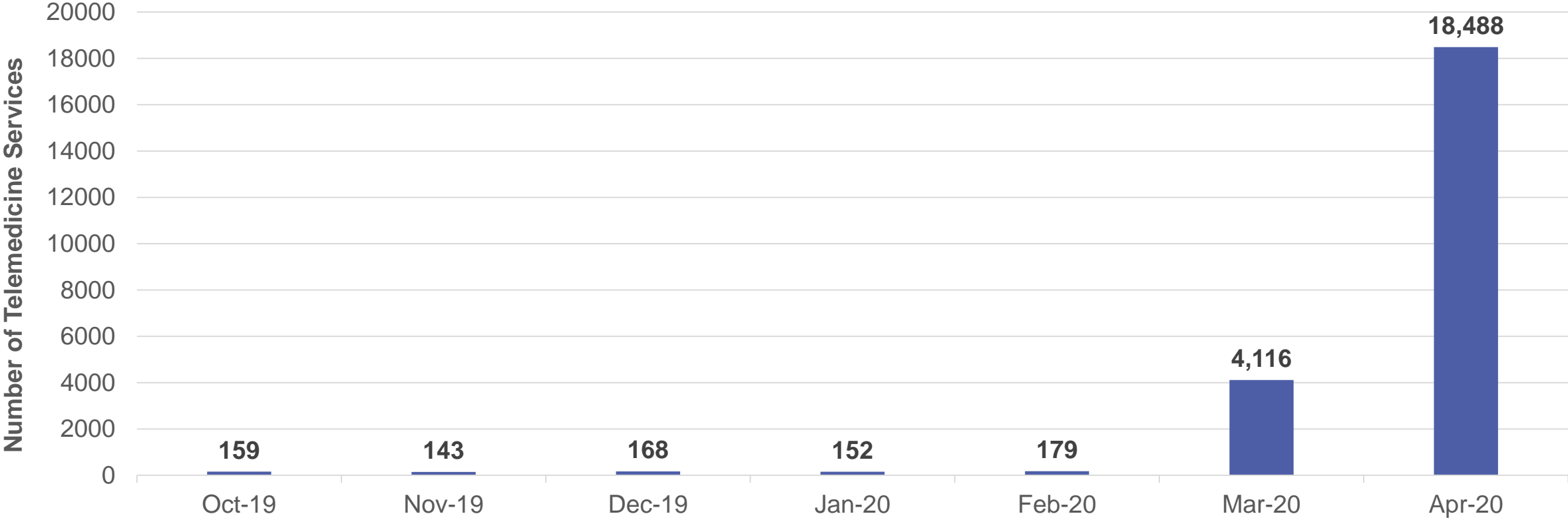
COUNTS (PREVALENCE) OF ASE/PSE PRIMARY MEMBERS WITH SELECTED CONDITIONS

	ASE	PSE
Kidney Failure	824 (1.7%)	866 (1.0%)
Immuno-Compromised	536 (1.1%)	695 (0.8%)
Diabetes	4,968 (10.4%)	5,519 (6.4%)
COPD	731 (1.5%)	559 (0.7%)
Coronary Heart Disease	1,959 (4.1%)	1,860 (2.2%)

Source: Arkansas Center for Health Improvement



TELEMEDICINE SERVICE UTILIZATION WITH PLAN (OCT. 2019-APR. 2020)



Source: Arkansas Center for Health Improvement



EBD PLAN PAID AMOUNT FOR TELEMEDICINE SERVICES (OCT. 2019–APR. 2020)



Source: Arkansas Center for Health Improvement



ACHI'S WORK WITH ADH & ADE (RELATED TO SCHOOL DISTRICT-LEVEL DATA) INCLUDES:

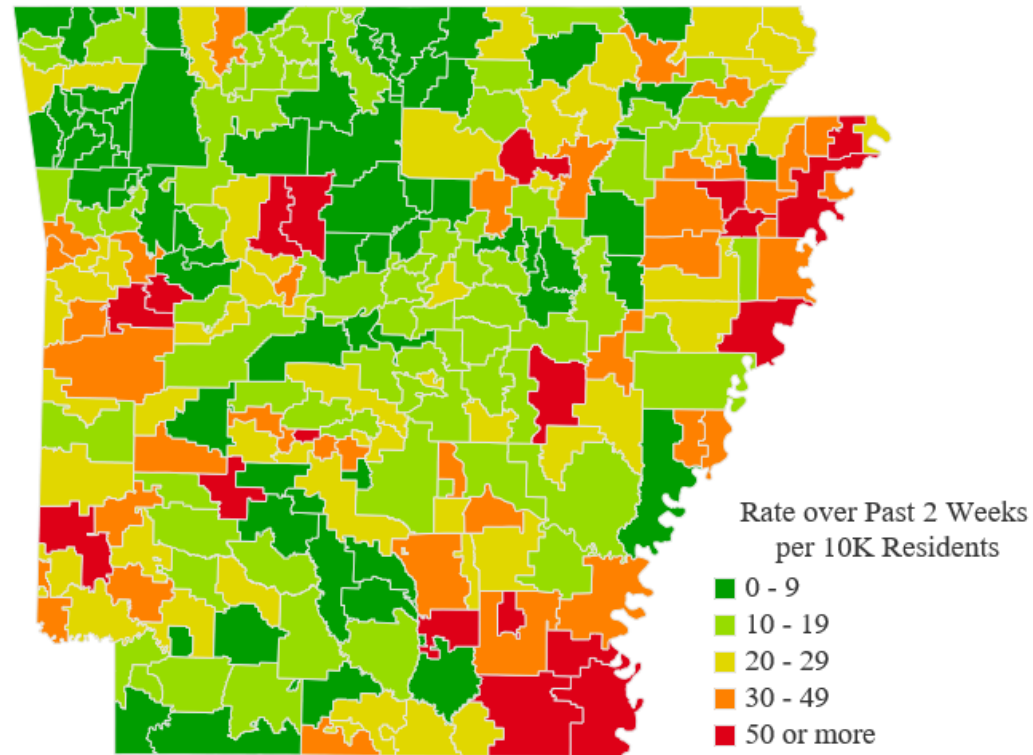
- Weekly feed of COVID-19 positive cases from ADH
- Conversion to analytic file, assigning geographic locations
- Using school district boundaries to assign positives to districts
- Creating rate of cumulative and active children and adults for each school district
- Mapping and creating table of rates for each school district (requirement of 10 or more cases)



NEW CASES TOTAL TESTS

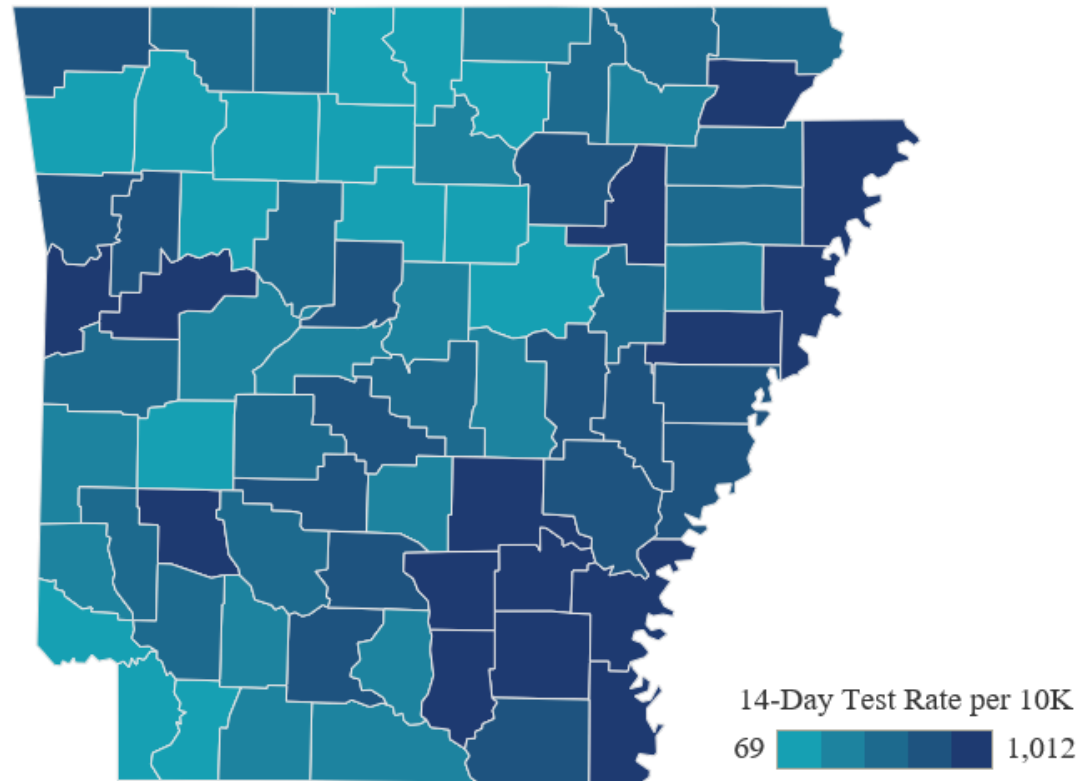
Find a School District

Rates of New Cases over Past 14 Days per 10K Residents in the Community by School District: As of August 17, 2020



○ NEW CASES ● TOTAL TESTS

14-Day Test Rate by County: As of August 17, 2020



1. Select

BY COMMUNITY

BY SCHOOL DISTRICT



2. Then Select

CUMULATIVE CASES

NEW CASES

Rate over Past 14-Days per 10K Residents



Find a School District

New Cases over Past 14-Days in the Community by School District: As of August 17, 2020

Rates of New Cases for 14-Day Period per 10K Residents in the Community by School District

School District	Number of New Cases	14-Day Test Rate by County (per 10K)	Rates of New Cases for 14-Day Period per 10K Residents in the Community by School District			
			7/27/2020	8/3/2020	8/10/2020	8/17/2020
Alma	26	313	20	21	19	16
Alpena		217				
Arkadelphia	15	215	29	18	8	9
Armored		438				
Ashdown	24	113	33	74	64	26
Atkins		217	45	36	23	
Augusta		196				
Bald Knob		119				





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QUESTIONS?

