



Central Iowa COVID19 Update

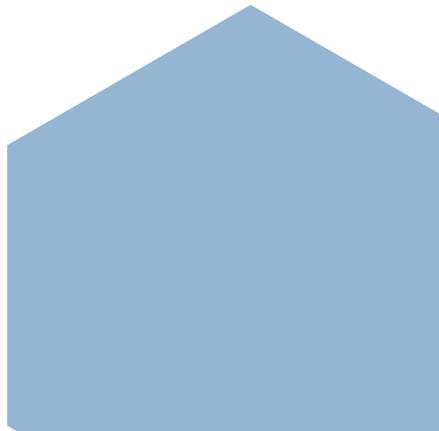
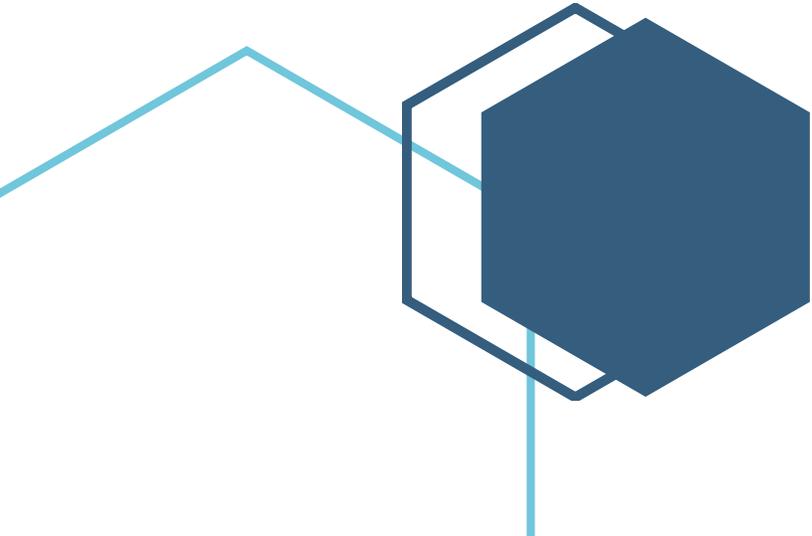
Tuesday, November 3, 2020



Aperio

Statistical Consulting

Dr. Meg Schaeffer





Quick Stats¹

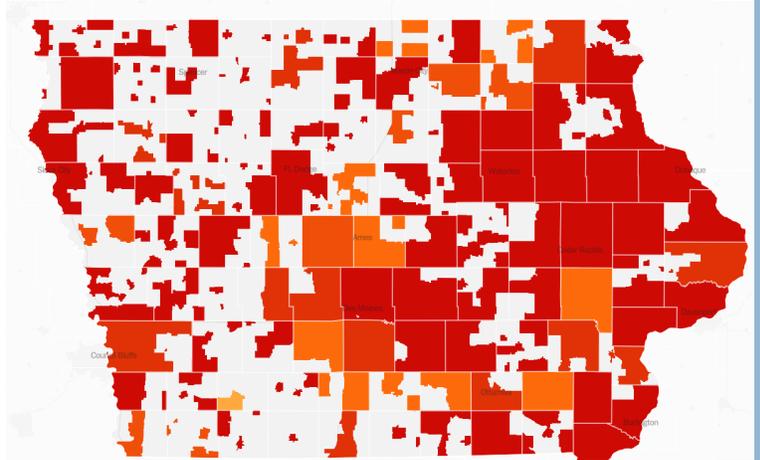
	Polk County	Iowa
7d Lab Test Positivity	13%	15%
14d Lab Test Positivity	12%	14%
Total cases per 100,000 for 7d	372	465
Total cases per 100,000 for 14d	574	747
Average daily cases the last 7d	198	1768
Average 7-day new cases per 100,000	40	56

¹All data are sourced from <https://coronavirus.iowa.gov/pages/case-counts> with previous days refreshed daily. When recent data are unavailable, data from <https://github.com/nytimes/covid-19-data> may be used. Population of Polk County used is 490,161. Population of Iowa used is 3.155 million. Averages and percent positivity are subject to change with retrospectively refreshed data.

Critical Points

- Polk County activity is double that of last week. If the trend continues, activity will triple the first peak in a little over two weeks.
- Statewide hospitalizations are almost double the first peak.

	TOTAL CASES	PER 100,000	DAILY AVG. IN LAST 7 DAYS	▼ PER 100,000	WEEKLY CASES PER CAPITA FEWER MORE March 1 Nov. 1
+ North Dakota MAP »	46,020	6,039	1,046.3	137.3	
+ South Dakota MAP »	47,850	5,409	1,160.1	131.1	
+ Wisconsin MAP »	244,974	4,207	4,643.7	79.8	
+ Montana MAP »	34,317	3,211	802.1	75.1	
+ Iowa MAP »	132,136	4,188	2,122.7	67.3	
+ Wyoming MAP »	14,167	2,448	383.1	66.2	
+ Nebraska MAP »	71,824	3,713	1,124.1	58.1	
+ Alaska MAP »	16,948	2,317	375.6	51.3	
+ Utah MAP »	117,706	3,671	1,636.7	51.1	
+ Illinois MAP »	431,308	3,404	6,399.3	50.5	



NYT US Activity

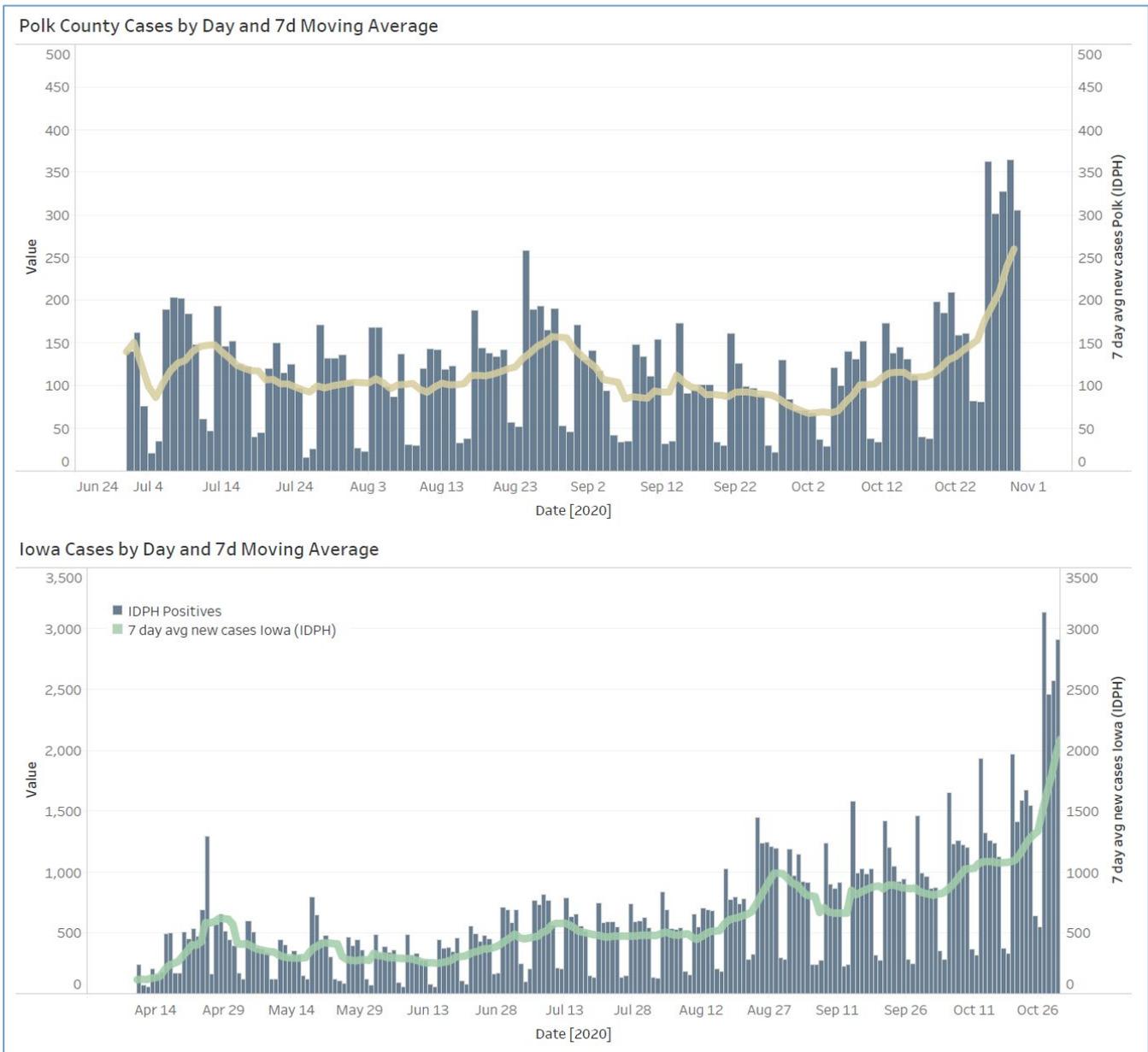
Research & Media

- In an analysis of approximately 400,000 women aged 15–44 years with symptomatic COVID-19, serious illness and death were more likely in pregnant women than in nonpregnant women.
- https://www.cdc.gov/mmwr/volumes/69/wr/mm6944e3.htm?s_cid=mm6944e3_w
- Pregnant women with SARS-CoV-2 infection are at increased risk for severe illness compared with nonpregnant women. Adverse pregnancy outcomes such as preterm birth and pregnancy loss have been reported.
- https://www.cdc.gov/mmwr/volumes/69/wr/mm6944e2.htm?s_cid=mm6944e2_w
- During July 2–August 11, 2020, a COVID-19 outbreak at an overnight high-school retreat likely began with a single student who had received a negative SARS-CoV-2 molecular test result <1 week before the retreat and led to 116 (76%) diagnosed COVID-19 cases among attendees.
- https://www.cdc.gov/mmwr/volumes/69/wr/mm6943a4.htm?s_cid=mm6943a4_w
- Findings from a prospective household study with intensive daily observation for ≥7 consecutive days indicate that transmission of SARS-CoV-2 among household members was frequent from either children or adults.
- https://www.cdc.gov/mmwr/volumes/69/wr/mm6944e1.htm?s_cid=mm6944e1_w

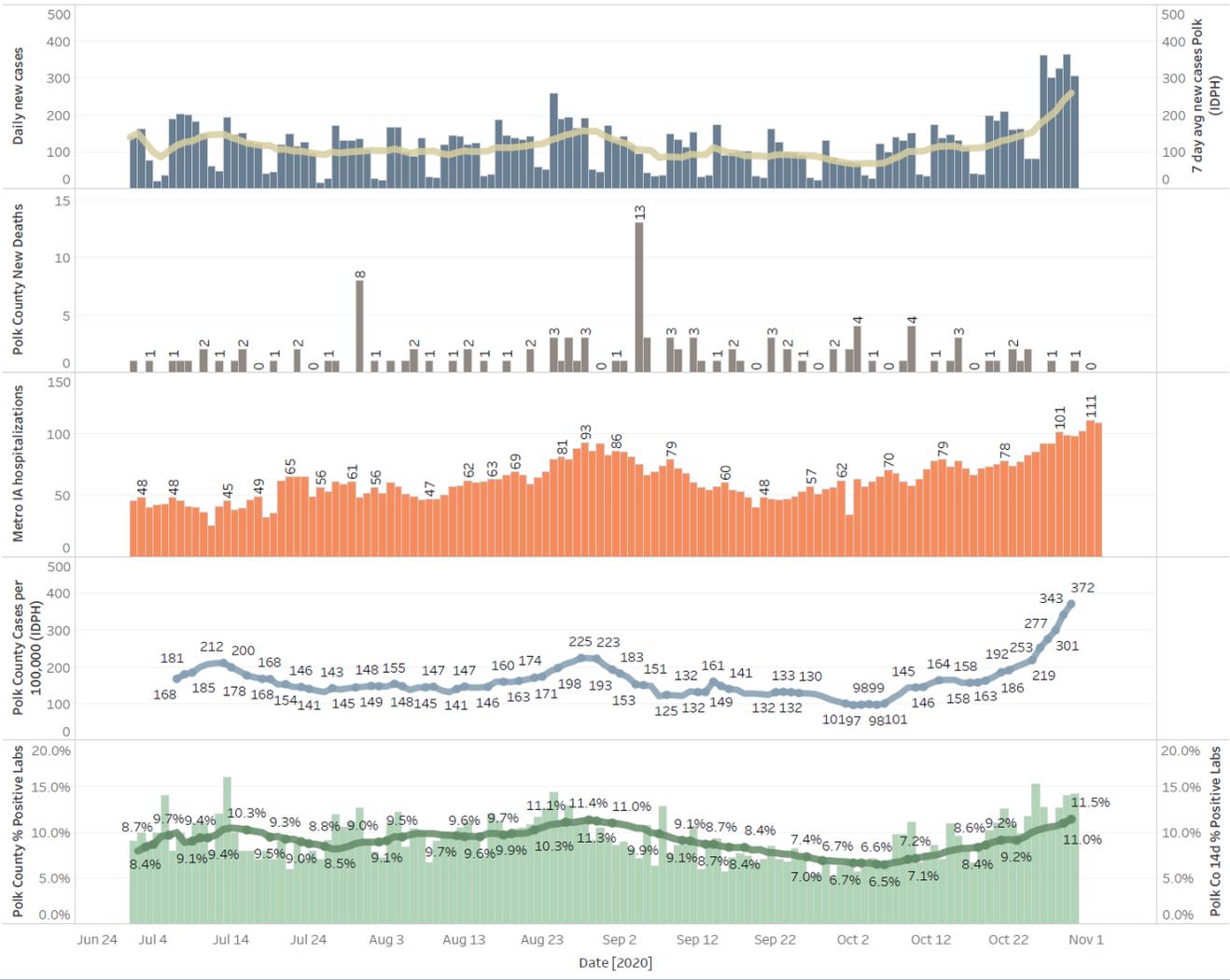
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- According to a JAMA article, without an effective vaccine that is widely available and broadly adopted, the US will likely not achieve protection against SARS-CoV-2 through herd immunity.
- <https://jamanetwork.com/journals/jama/fullarticle/2772167>
- SARS-CoV-2 sequencing reveals rapid transmission from college student clusters resulting in morbidity and deaths in vulnerable populations
- <https://www.medrxiv.org/content/10.1101/2020.10.12.20210294v1.full>



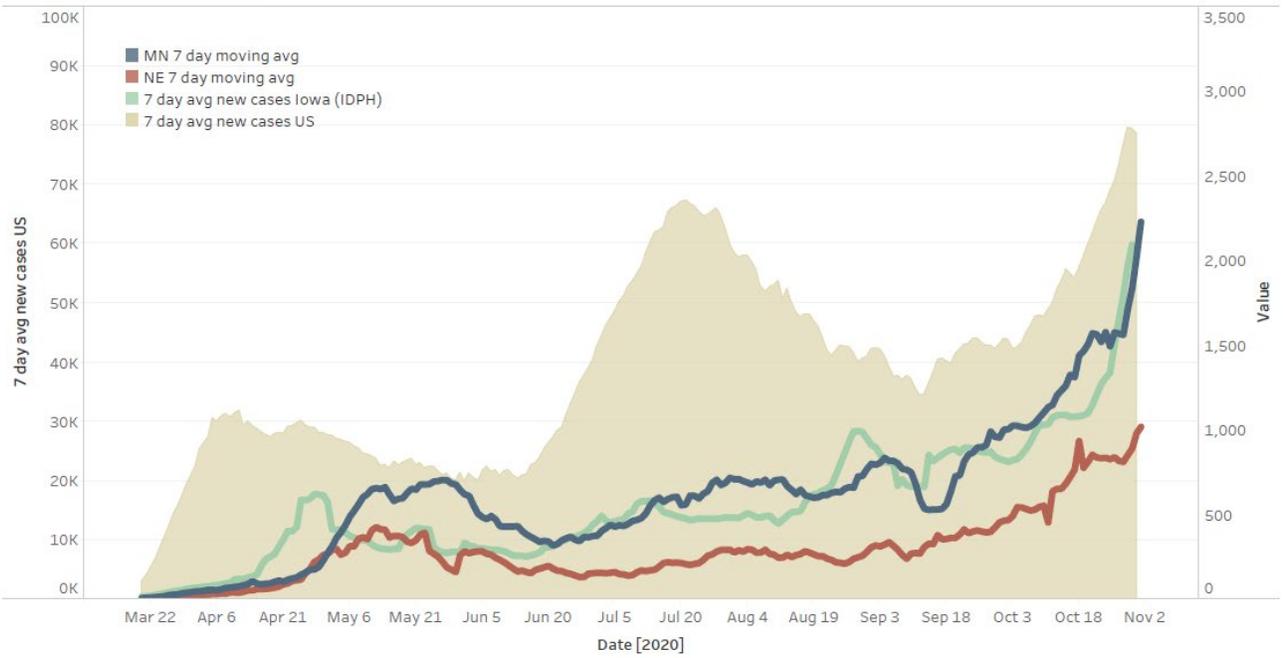
Polk County Activity View



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US and Border State Cases



US, Iowa, MN, NE New Daily Cases

