



Health
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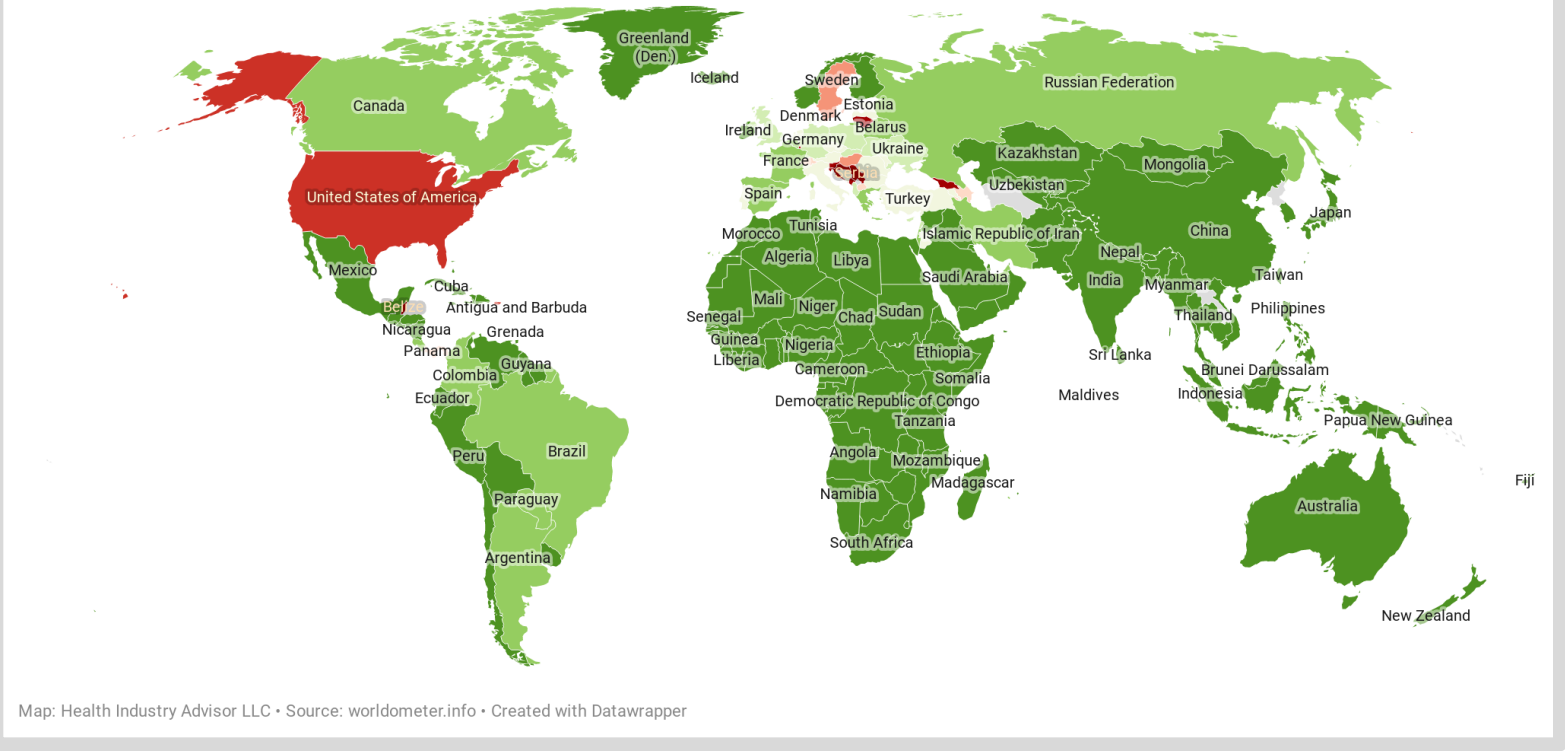
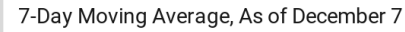


Issue # 231
Tuesday, December 8, 2020
COVID-19
Report

Highlights

- **The U.S. is averaging more deaths with the coronavirus than at any other time during the pandemic**
 - **The 7-day average deaths has now increased on nine consecutive days**
 - Given the natural lag between case-detection and death, this rate is likely to continue rising for at least the next few weeks
 - The U.S. currently ranks 11th in the world in deaths with the coronavirus per capita
 - Belgium ranks 1st, with a rate 75% higher than that of the U.S.
 - Italy ranks 5th; Spain, 6th and the UK, 9th
- Strain from Covid-19 on the U.S. health system is an on-going concern
 - **Covid-19 inpatients totaled more than 100,000 for the 5th consecutive day**
 - **Covid-19 patients occupy nearly 80% of inpatient beds in Nevada and nearly 70% in Connecticut**
 - The day-to-day increase in patient days, however, continues to slow:
 - **Covid-19 hospital occupancy more than doubled in November**
- **Thus far in December, however, it is up only 1%**
- **The rate of inpatient days-to-new cases has now declined on six consecutive days**
- The % of ER visits for coronavirus-like illnesses has declined since Thanksgiving Eve
- **Testing volume continues to increase in the U.S and compares favorably with other countries**
 - The 7-day average volume per capita established another new high yesterday
 - The U.S. ranks 14th in the world on this measure
- **Newly-detected cases per capita in the U.S. continue to rise, even while this rate falls in many European countries**
 - The U.S. currently ranks 12th in the world on new cases per capita over the past seven days
 - Two weeks ago, the U.S. ranked 17th on this measure
 - Among the countries that have experienced sharp declines in this rate, relative to two weeks ago: Austria, Belgium, Czech Republic and Switzerland

The infection spread continues to be a U.S. issue - while many parts of Europe are cooling off



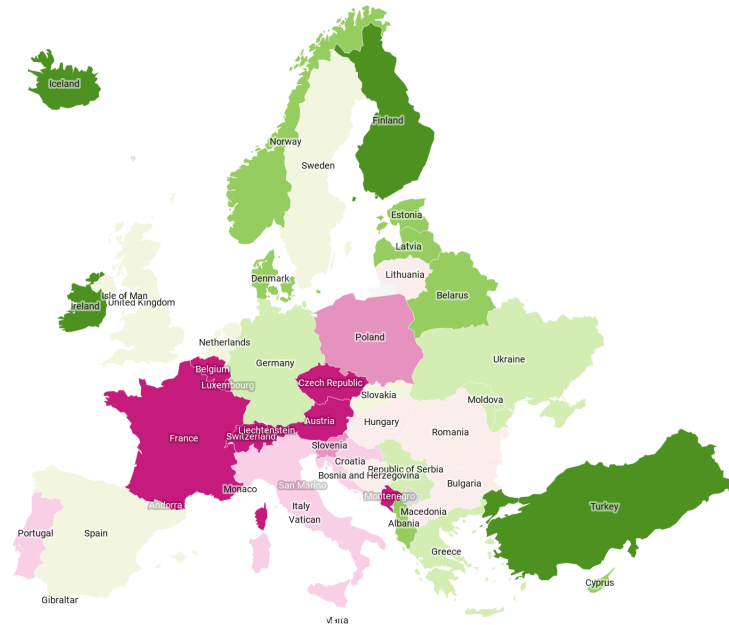
While much of Europe “cools’ somewhat, Andorra, Croatia, Hungary Liechtenstein, Lithuania Luxembourg, Montenegro, San Marino, Serbia and Slovenia are still experiencing relatively high new infection rates

As of November 9

New Daily Infections / Million - Europe

7-Day Moving Average, As of November 9

Legend: < 100, 100-200, 200-300, 300-400, 400-500, 500-600, 600-700, ≥ 700



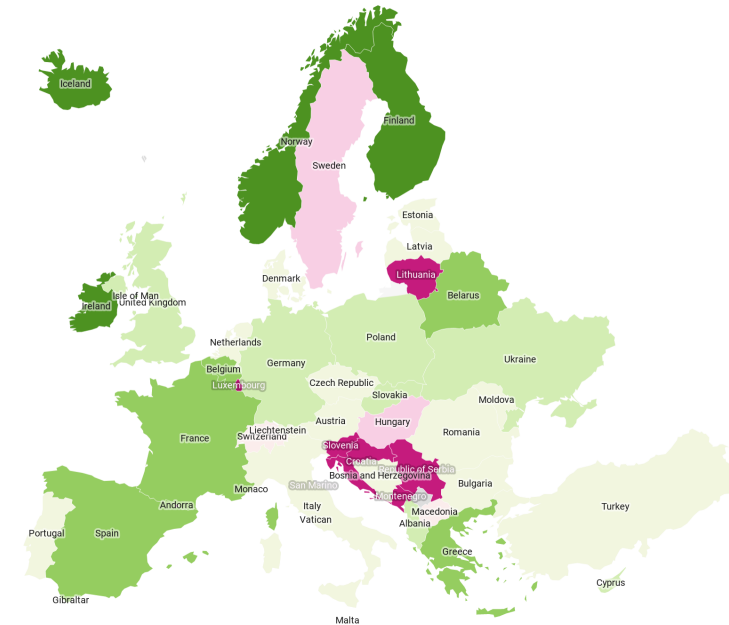
Map: Health Industry Advisor LLC • Source: Worldometer.info • Created with Datawrapper

As of December 7

New Daily Infections / Million - Europe

7-Day Moving Average, As of December 7

Legend: < 100, 100-200, 200-300, 300-400, 400-500, 500-600, 600-700, ≥ 700



Map: Health Industry Advisor LLC • Source: Worldometer.info • Created with Datawrapper

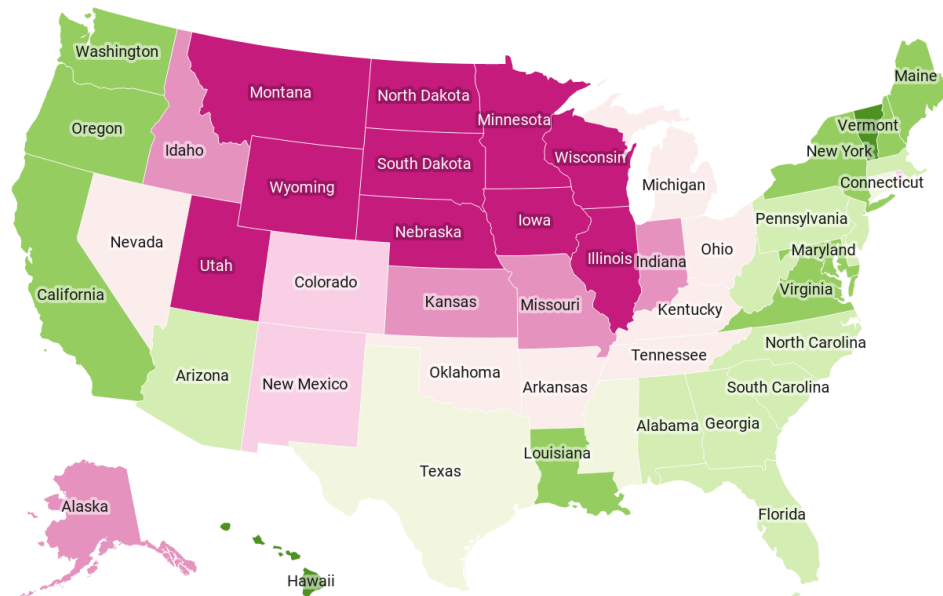
Newly detected cases per capita have generally increased in the past four weeks and are high across the country

As of November 9

New Cases / Million

7-Day Moving Average, As of November 9

< 100 100–200 200–300 300–400 400–500 500–600 600–700 ≥ 700



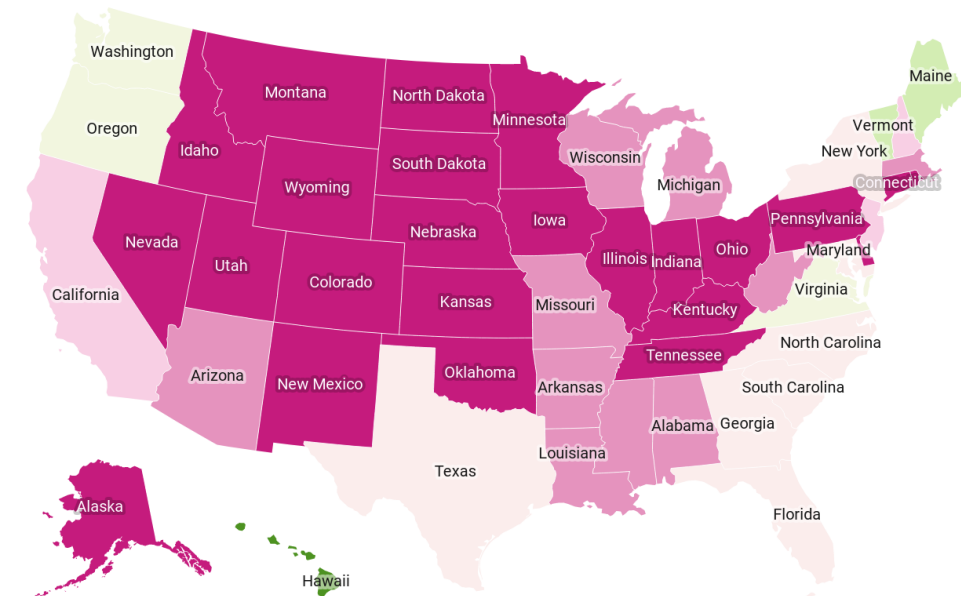
Map: Health Industry Advisor LLC • Created with Datawrapper

As of December 7

New Cases / Million

7-Day Moving Average, As of December 7

< 100 100–200 200–300 300–400 400–500 500–600 600–700 ≥ 700



Map: Health Industry Advisor LLC • Created with Datawrapper

The United States ranks 12th in the world in the % of its population that have a detected Covid-19 infection at some time during the pandemic (4.6%)

Andorra has the highest rate in the world (9.2%), followed by Montenegro and Luxembourg (each at 6.1%)

Countries With the Highest % of Population With A Detected Infection

As of December 7

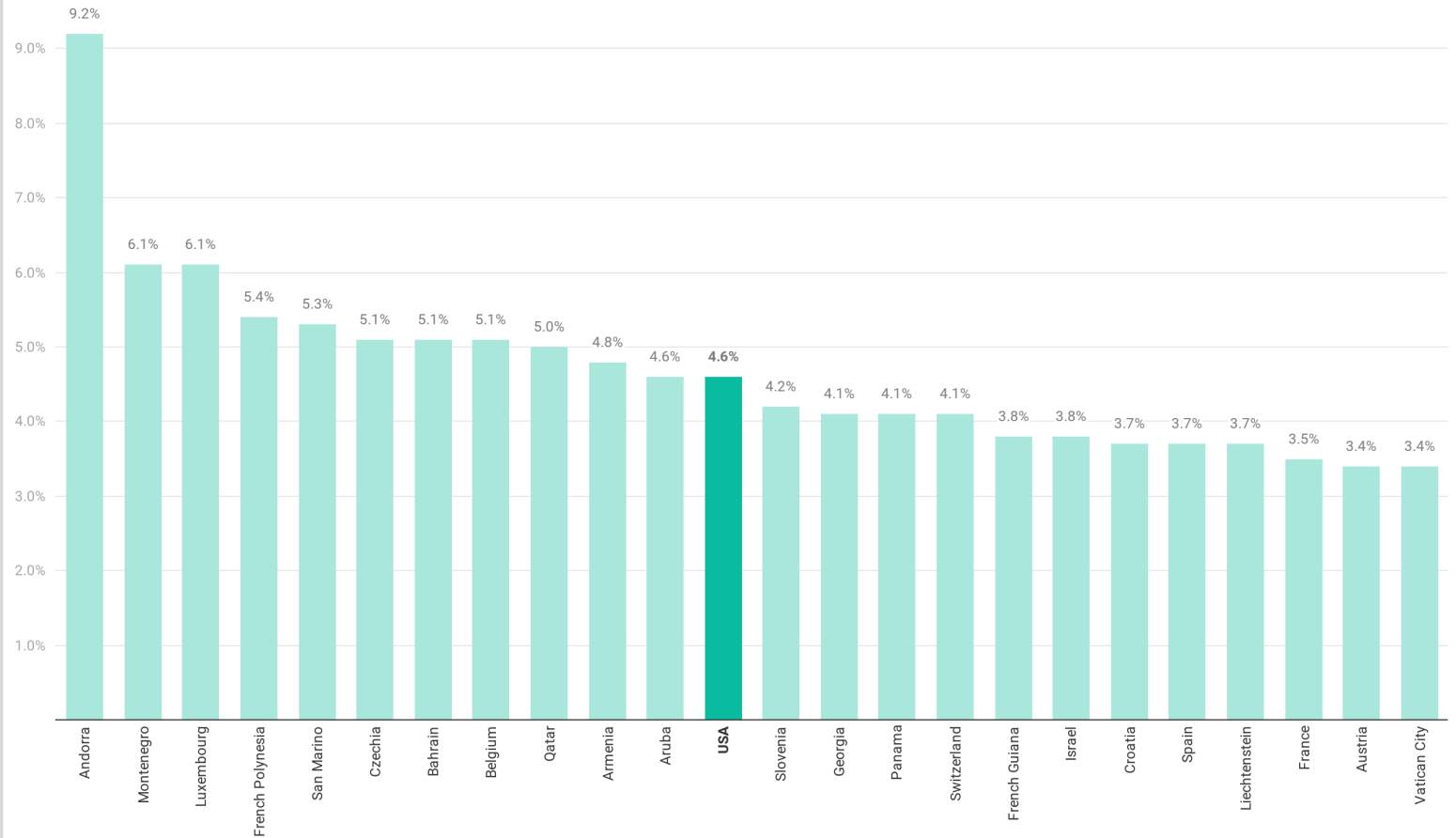


Chart: Health Industry Advisor LLC • Created with Datawrapper

The United States had the 14th highest testing volume per capita over the past 7 days

Countries With the Highest Recent Test Volume Per Capita

7-Day Moving Average, As of December 7

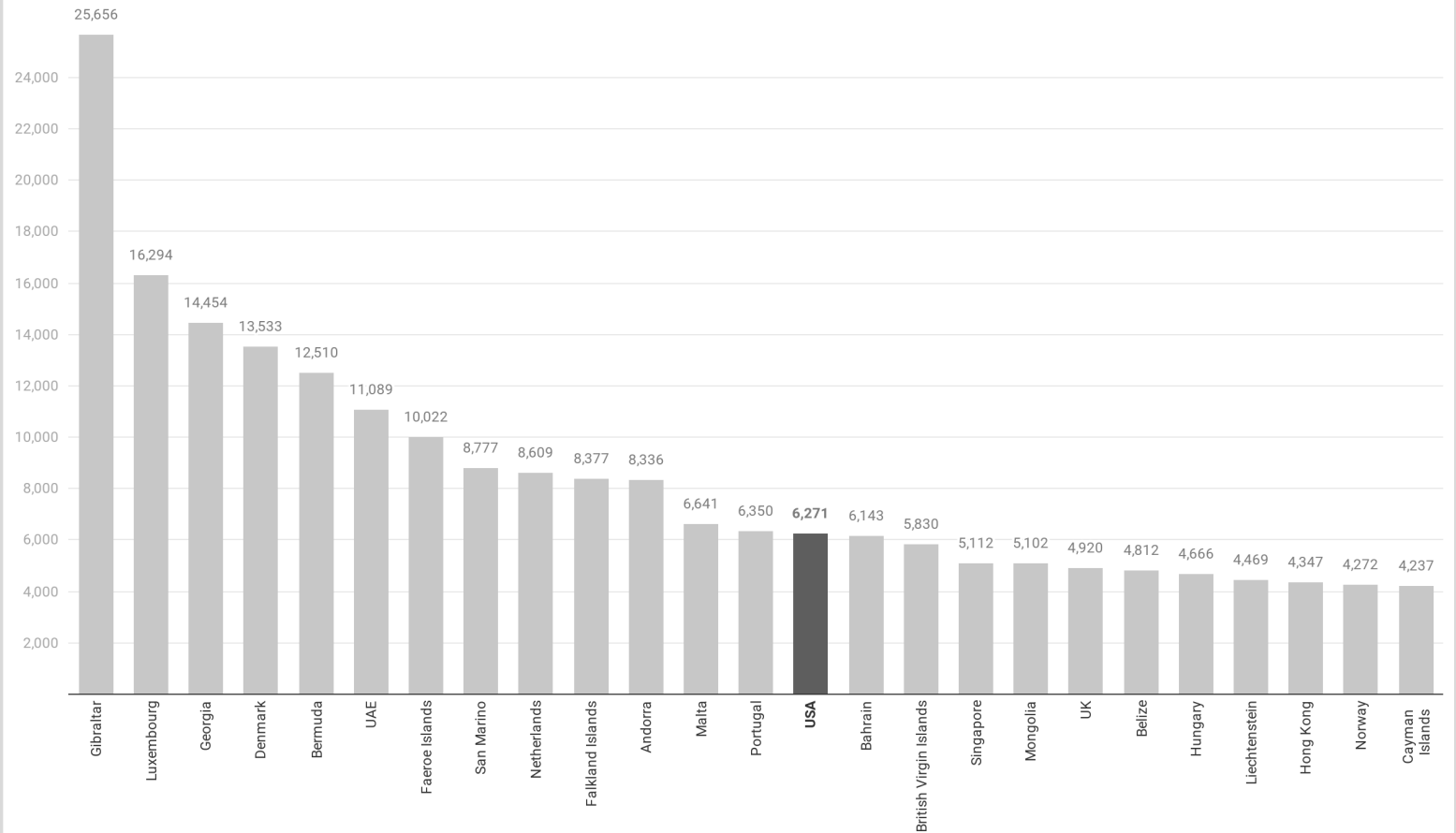


Chart: Health Industry Advisor LLC • Created with Datawrapper

The Covid-19 Top 25 Rankings:

The United States ranks 12th in the world in newly-detected infections per capita over the past week

Two weeks ago, the U.S. ranked 15th

Georgia (the country) ranks 1st in the world, as it did two weeks ago

Curacao moved up 58 places, to 6th in the world

Rank	Country	New Daily Infections Per 1M Population (7-Day M.A.)	Change in Rank From 2 Weeks Ago	Change in New Infection Rate From 2 Weeks Ago
1	Georgia	1053	0	127
2	Luxembourg	861	1	-13
3	Serbia	832	6	196
4	Croatia	830	1	126
5	San Marino	791	8	210
6	Belize	788	58	673
7	Lithuania	777	1	127
8	Montenegro	750	(6)	-125
9	Slovenia	720	(3)	16
10	Curaçao	691	16	344
11	Andorra	626	(7)	-94
12	USA	624	5	91
13	Hungary	548	8	97
14	Sweden	505	8	68
15	Liechtenstein	475	(5)	-150
16	Switzerland	448	3	-52
17	North Macedonia	443	1	-71
18	Panama	441	17	179
19	Azerbaijan	401	20	146
20	Palestine	391	18	133
21	Bulgaria	390	(1)	-89
22	Portugal	379	(8)	-170
23	Turkey	374	62	313
24	French Polynesia	373	(12)	-218
25	Czechia	370	0	-45

The United States ranks 11th in the world in deaths with the coronavirus per capita

Belgium ranks 1st in the world; Italy, 5th; Spain, 6th; and the UK, 9th

Countries With the Most Deaths Per Capita

As of December 7

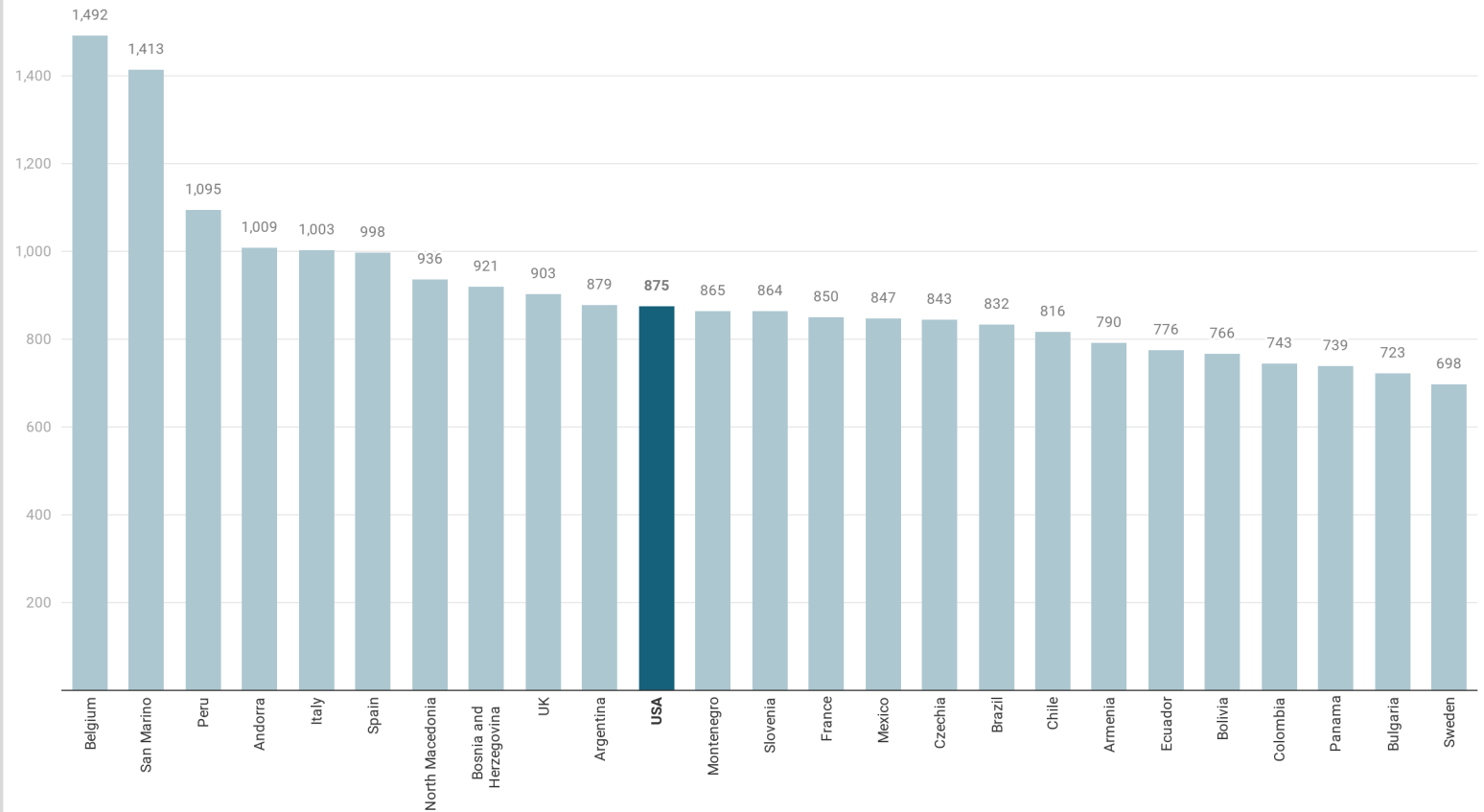


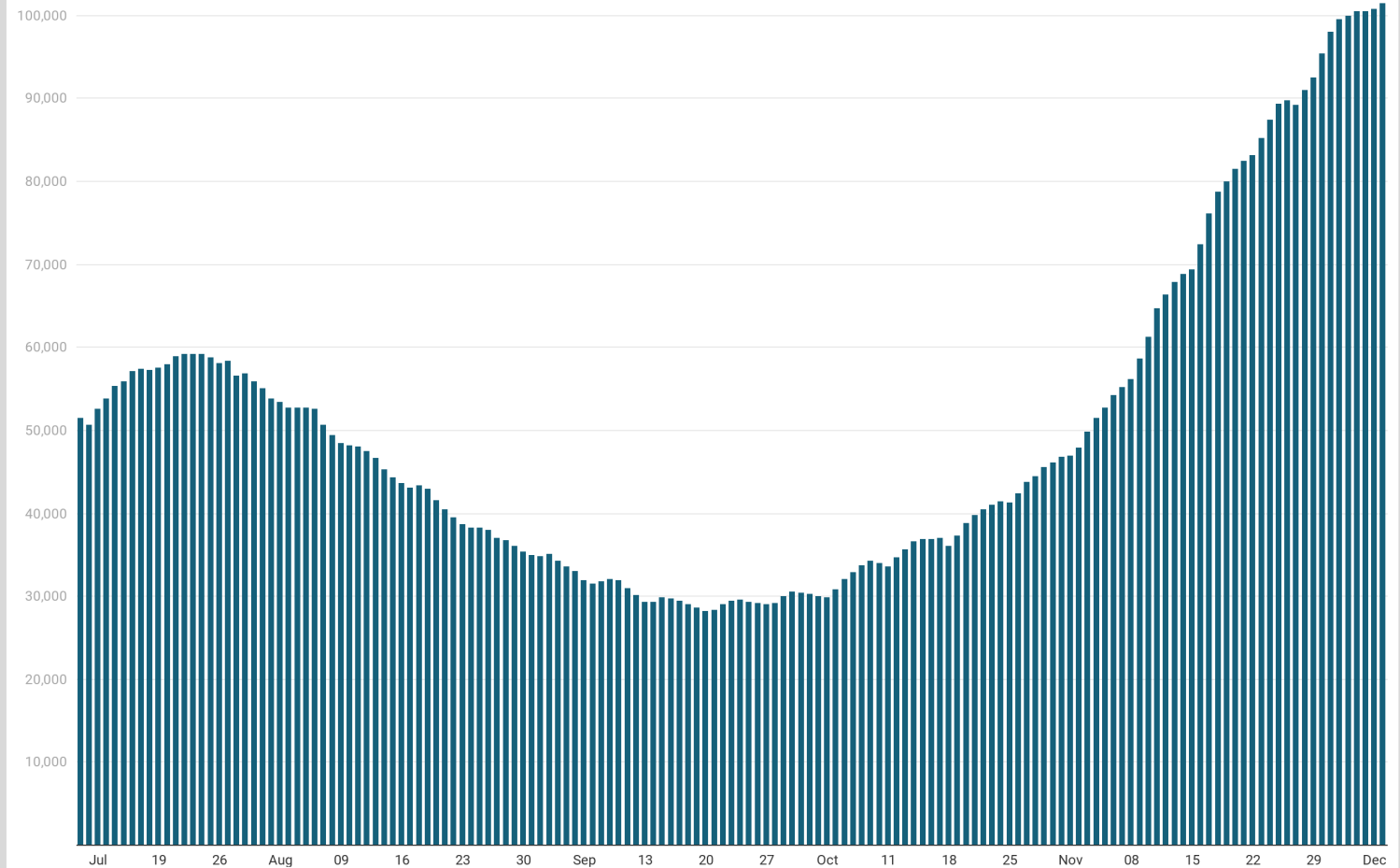
Chart: Health Industry Advisor LLC • Created with Datawrapper

There were more than 100,000 Covid-19 patients in U.S. hospitals for the fifth consecutive day

Nevertheless, the daily increases in hospitalizations seem to have slowed over the past six days

Hospital Census: COVID-19 Patients

As of December 7



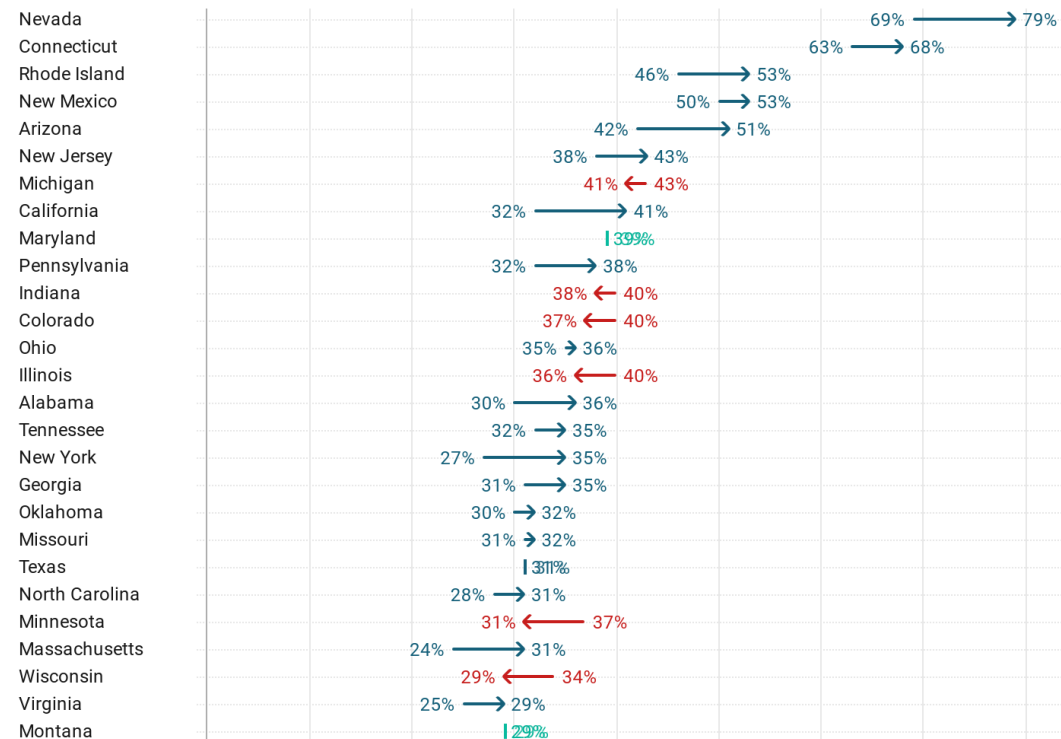
Florida data first available on July 10

Chart: Health Industry Advisor LLC • Source: the Atlantic's Covid Tracking Project • Created with Datawrapper

Covid-19 census increased slightly to 32.5% (from 32.3%) of all inpatient beds
 Nevertheless, Covid-19 patients occupy more than ½ of all beds in Arizona, Connecticut, Nevada, New Mexico and Rhode Island – each of these experienced increasing Covid-19 patients over last week
 Eleven states experienced week-over-week declines in Covid-19 patients

Covid-19 Patients / Total Inpatient Beds

7-Day Moving Average, As of November 30 & December 7



Covid-19 Patients / Total Inpatient Beds

7-Day Moving Average, As of November 30 & December 7

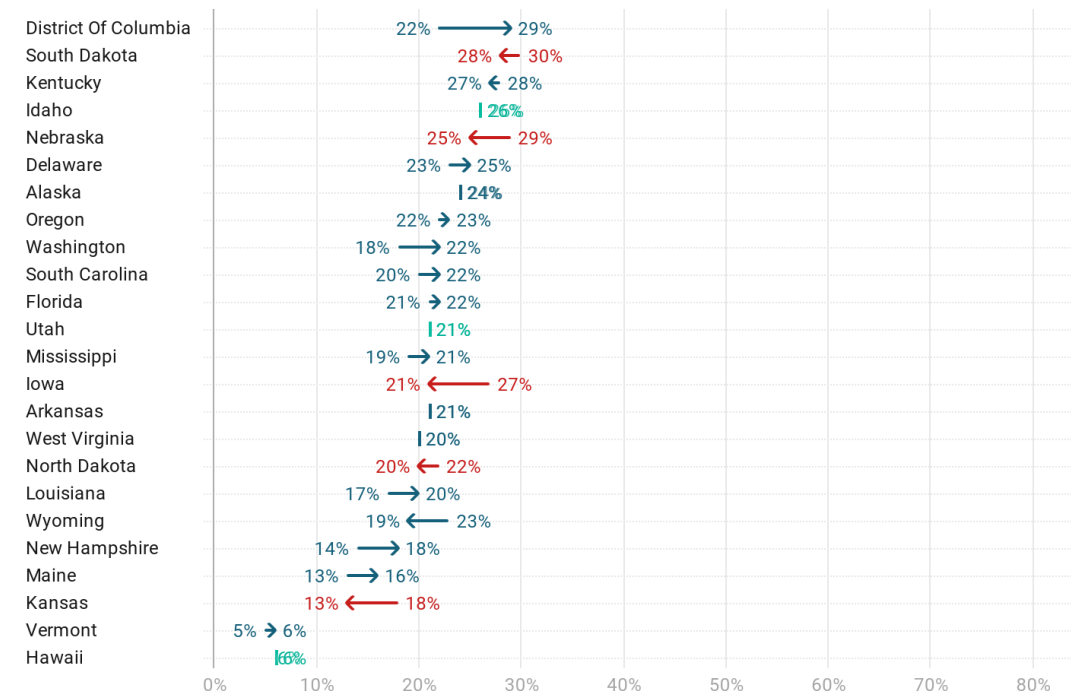


Chart: Health Industry Advisor LLC • Source: The Atlantic's Covid Tracking project & worldometers.info • Created with Datawrapper

The average Covid-19 census per 100 new-cases declined for the sixth consecutive day

Covid-19 Hospital Census / 100 Daily New Detected Cases

7-Day Moving Average, As of December 7

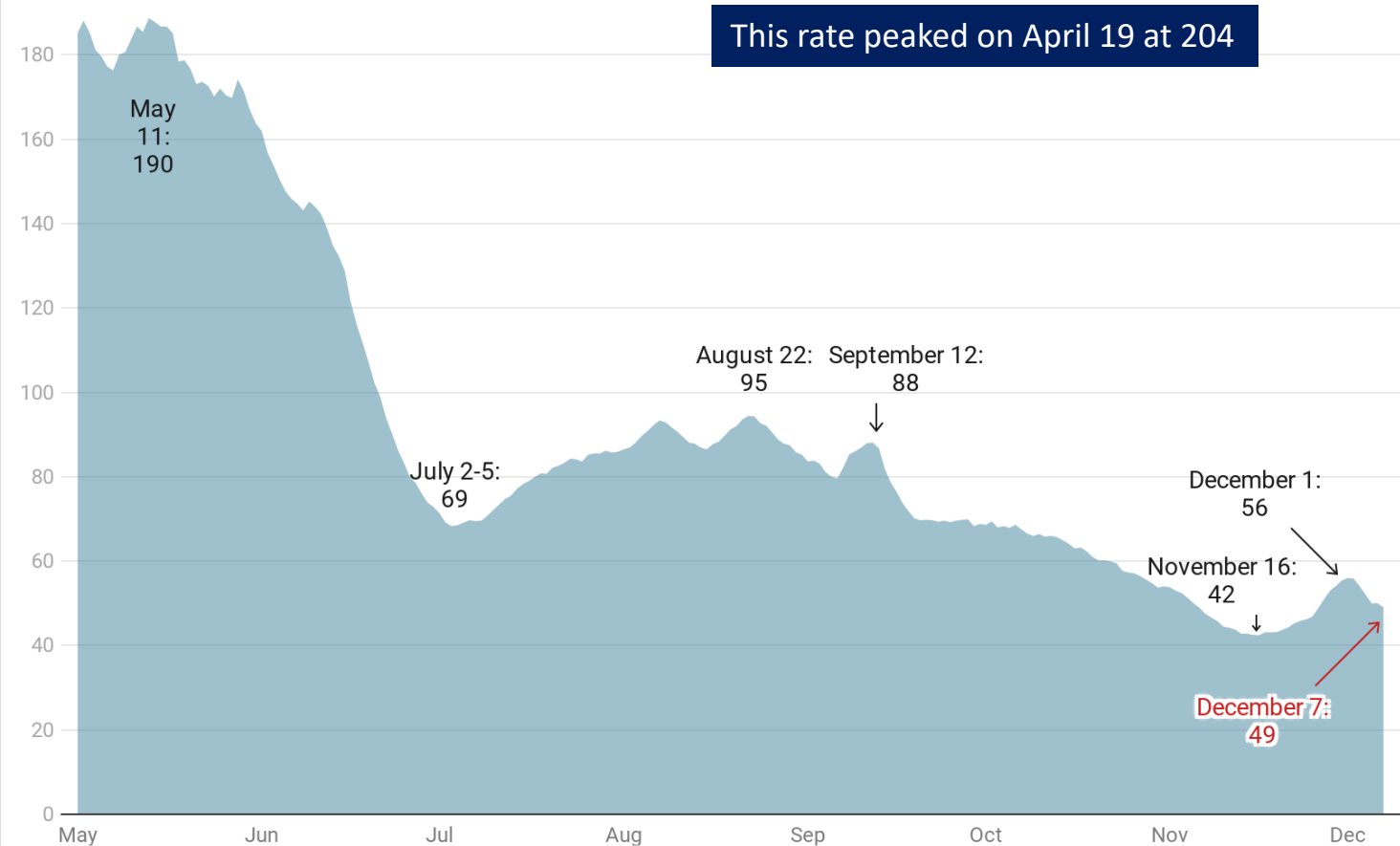


Chart: Health Industry Advisor LLC • Source: The Atlantic's Covid Tracking project & worldometers.info • Created with Datawrapper

The highest average census per new case is currently experienced in the District of Columbia

The lowest rates are found in Alaska, Delaware, New Hampshire, Vermont and Utah,

Contrast these rates to those experienced in selected hard-hit states during earlier surges:

- Arizona: 305 (4/20)
- California: 416 (4/17)
- Connecticut: 293 (4/29)
- Massachusetts: 475 (6/21)
- Michigan: 422 (4/21)
- New York: 330 (5/22)

Covid-19 Census / 100 New Cases

7-Day Moving Average, As of December 7

U.S. Peak (4/19)

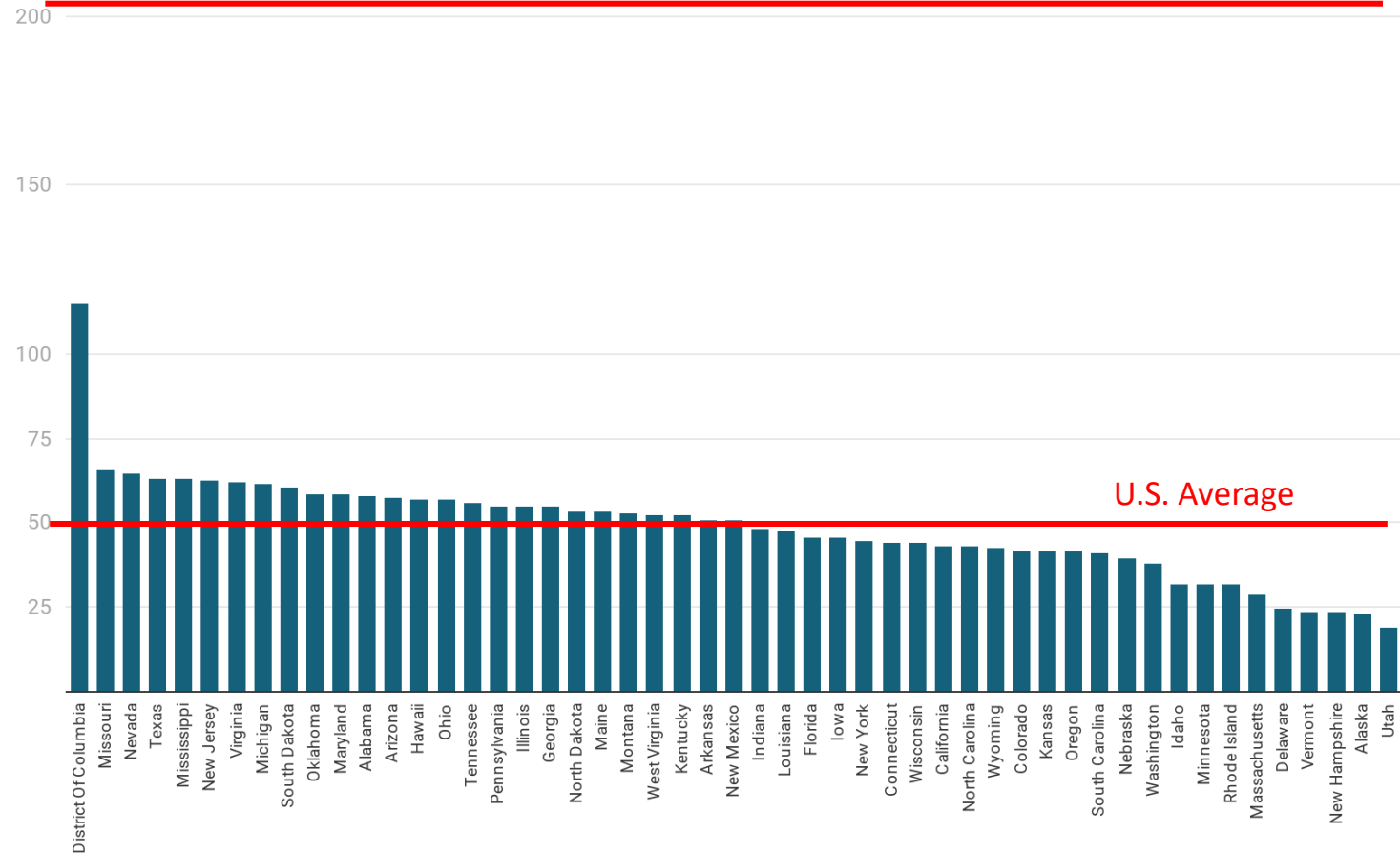


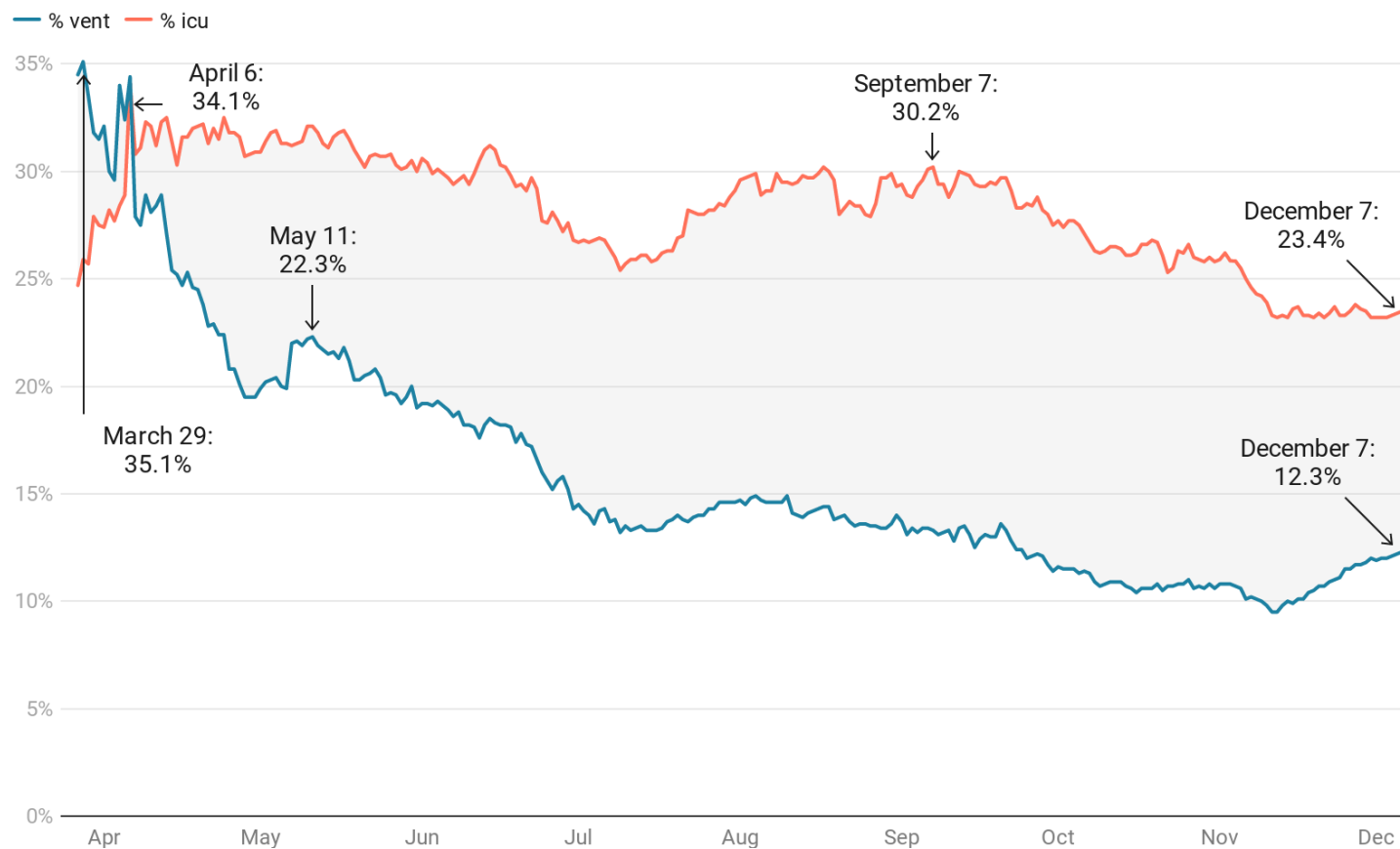
Chart: Health Industry Advisor LLC • Source: The Atlantic's Covid Tracking Project & worldometers.info • Created with Datawrapper

The likelihood of a hospitalized Covid-19 patient would require ICU care has been lower throughout November and into December than at any time during the pandemic

The likelihood of a hospitalized Covid-19 patients would be on a ventilator, however, has been trending up for several weeks

Severity of Hospitalized Patients

% of patients on ventilators and in the ICU, As of December 7



Health Industry Advisor LLC analysis

Chart: Health Industry Advisor LLC • Source: The Atlantic's Covid Tracking Project • Created with Datawrapper

On average, less than 1-in-4 Covid-19 inpatients are in the ICU

Rates are highest in Arkansas and Utah where more than 1-in-3 Covid-19 inpatients are in the ICU

% of Covid-19 Inpatients in the ICU

As of December 7

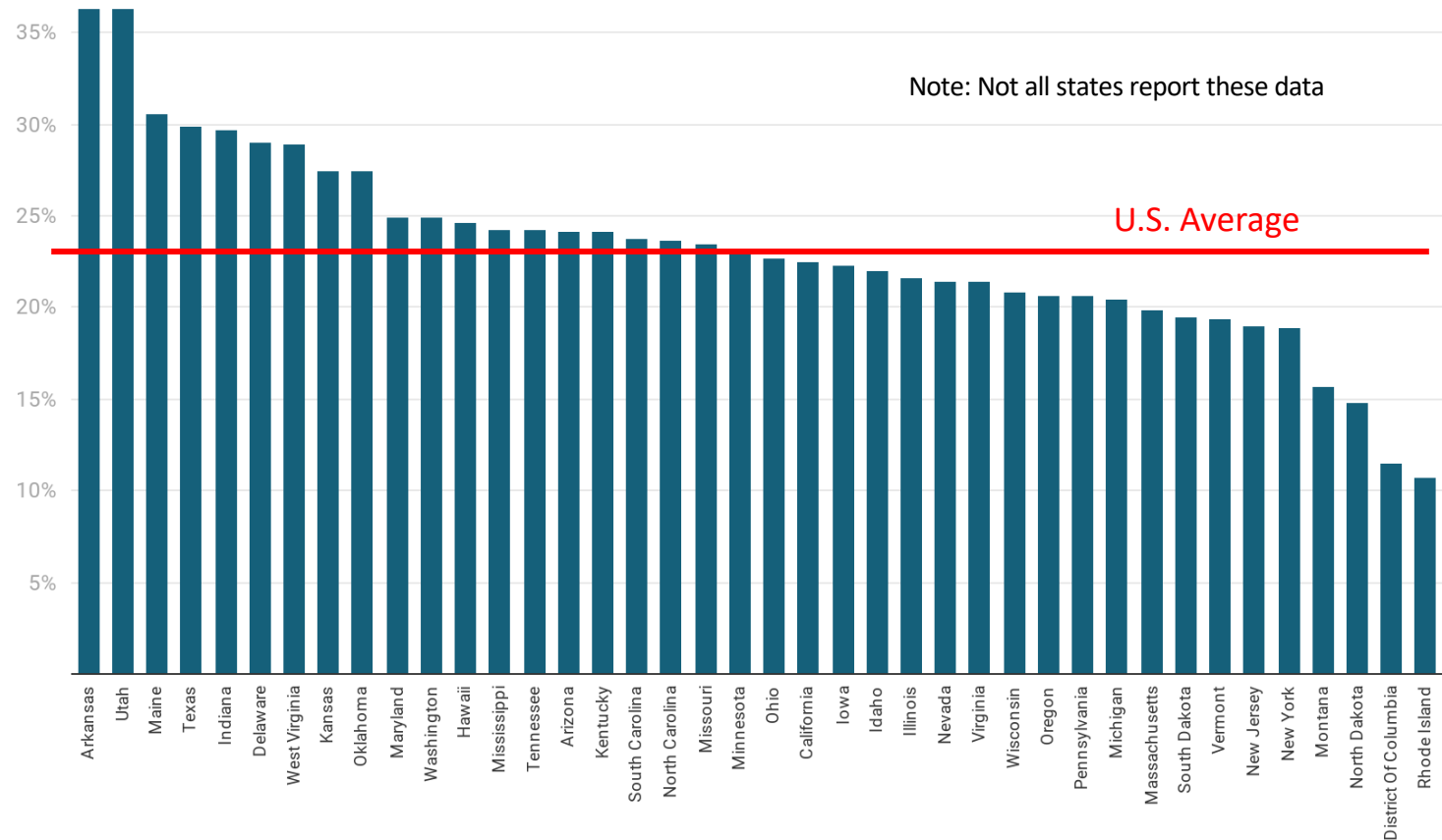
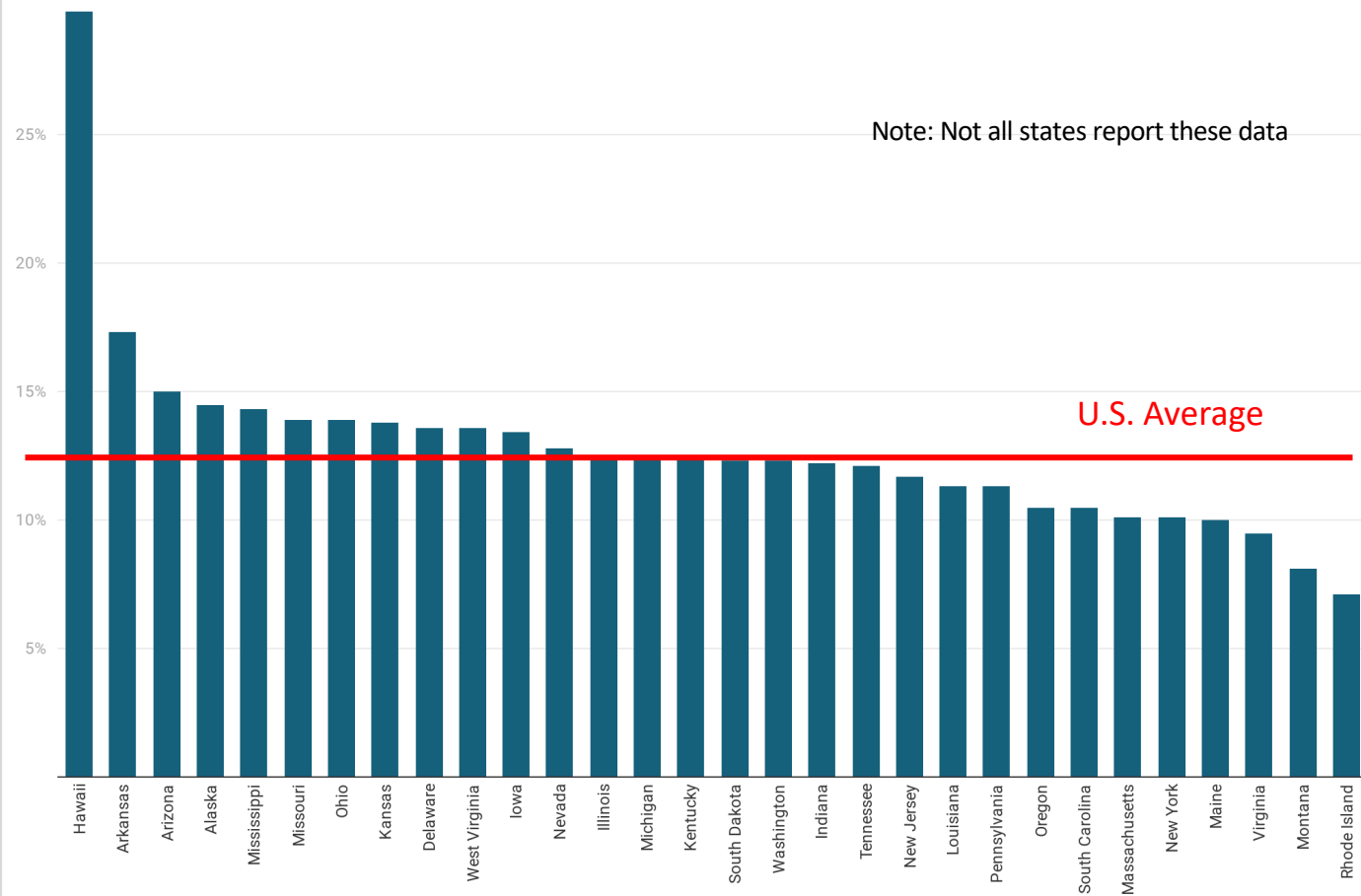


Chart: Health Industry Advisor LLC • Source: The Atlantic's Covid Tracking project • Created with Datawrapper

Hawaii and Arkansas re experiencing significant changes in the % of Covid-19 patients on ventilators

% of Covid-19 Inpatients on Ventilators

As of December 7



Montana first reported these data on November 23. That date is illustrated for Montana

Chart: Health Industry Advisor LLC • Created with Datawrapper

The % of ER visits for COVID-19-like illnesses (CLI) seems to have waned since Thanksgiving Eve

The rate of influenza visits remains low given where we are in the flu season

% of ER Visits For Covid-19-Like Illnesses (CLI); Influenza-Like Illnesses (ILI); Shortness-of-Breath (SoB) and Pneumonia

As of December 4

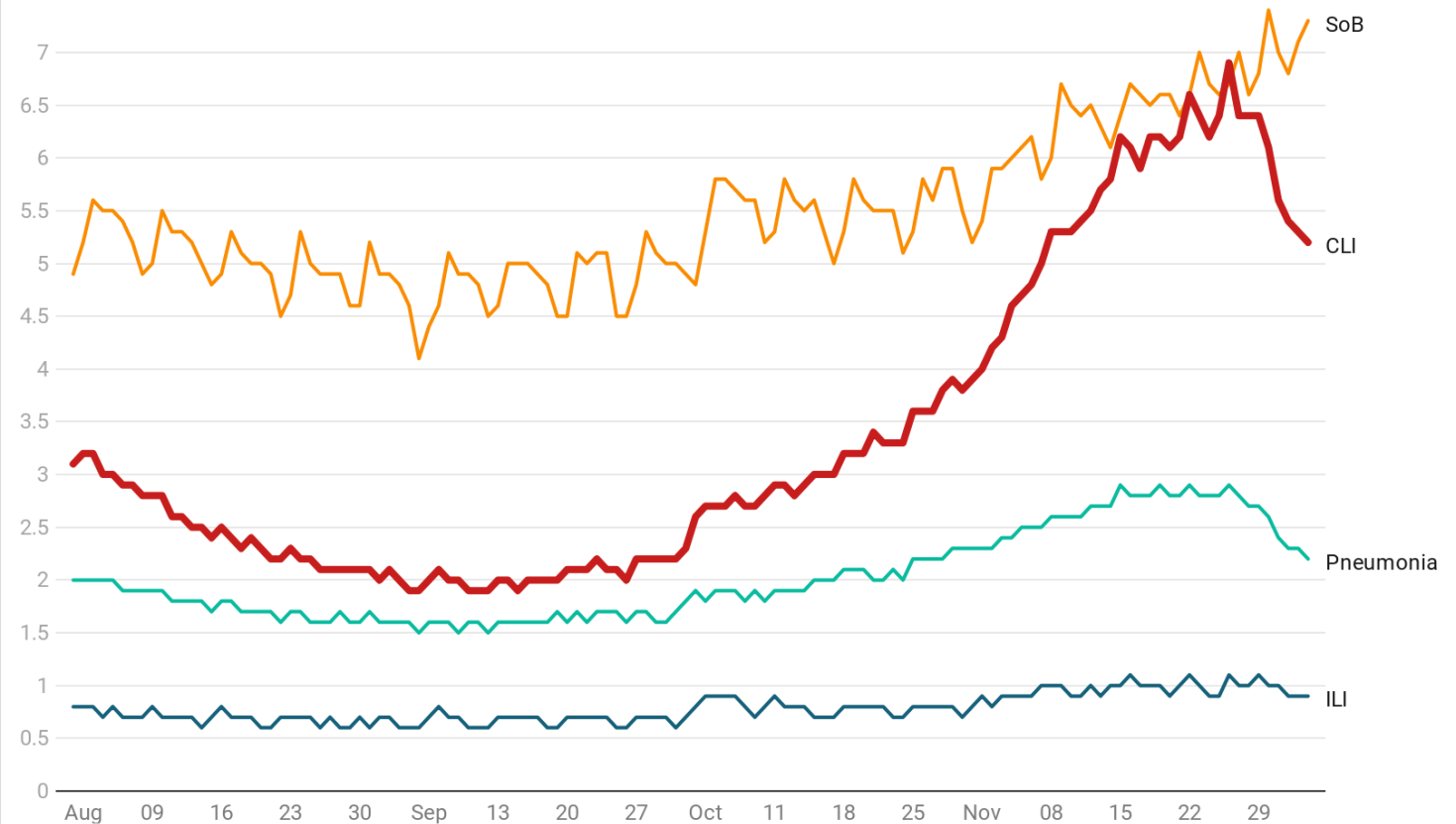


Chart: Health Industry Advisor LLC • Source: CDC • Created with Datawrapper

After a relative respite in the 7-day average deaths since Thanksgiving Day, these have now increased nine consecutive days

This rate now exceeds the rate marked in April . . . And will likely continue rising for at least the next few weeks

Deaths Reported With Coronavirus in the U.S.

Trailing 7-Day Moving Average, As of December 7



Health Industry Advisor LLC analysis

Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Data Sources

The following data sources are accessed on a daily or weekly basis:

- The Atlantic's Covid Tracking Project: <https://covidtracking.com>
- Worldometers.info: <https://www.worldometers.info/coronavirus/>
- Centers for Disease Control, National, Regional, and State Level Outpatient Illness and Viral Surveillance <https://gis.cdc.gov/grasp/fluview/fluportaldashboard.html>
- Centers for Disease Control, COVID-19 Laboratory-Confirmed Hospitalizations https://gis.cdc.gov/grasp/COVIDNet/COVID19_5.html
- Centers for Disease Control, COVID Data Tracker <https://www.cdc.gov/covid-data-tracker/index.html#mobility>
- Institute for Health Metrics and Evaluation, COVID-19 estimate downloads <http://www.healthdata.org/covid/data-downloads>
- New York Times, Covid-19 data <https://github.com/nytimes/covid-19-data>
- COVID-19 Data Repository by the Center for Systems Science and Engineering (CSSE) at Johns Hopkins University <https://github.com/CSSEGISandData/COVID-19>
- COVID-19 Projections Using Machine Learning, <https://covid19-projections.com>
- Oliver Wyman Pandemic Navigator, <https://pandemicnavigator.oliverwyman.com/forecast?mode=country®ion=United%20States&panel=mortality>