

Compared to people in the rest of the US, a permanent Florida resident was almost twice as likely to die due to Covid during September 16–22, 2022. Floridians accounted for 12% of all Covid deaths reported that week: a vast improvement from my August 25 and September 8 reports (25% and 22%).

The bright green line on the right represents 357 people, giving Florida the 5th worst per capita mortality rate in the nation for the week.

During May through August, Florida's death rate was 3x that of the other 10 states with the largest populations, the highest temperatures, and the oldest people.

Since everyone 16+ became eligible for vaccination on April 1, 2021, people in Florida were 60% more likely to require Covid hospitalization than people in the rest of the US. For September 16–22, 2022, that elevated risk was 20%, down from 135% a week earlier. Per capita, there were 120 admissions in Florida for every 100 admissions in the rest of the US.

The state continued to improve to 5th in the nation for adult Covid admissions. During June 2–August 16, 2022, there were only 4 days that the state did not rank last.

Florida's pediatric admissions rank remained at 3rd worst. August 11th marked the first time pediatric admissions were better than 3rd worst in at least 18 weeks.

Despite having a higher proportion of senior citizens and similar age-related demographics, Maine's per capita Covid death rate is about half of Florida's (190 vs. 376/100,000).

Before vaccines were available to everyone aged 16+ in the US, Floridians had a lower death rate than elsewhere in the US and a slightly elevated risk of hospitalization. What accounts for this dramatic shift?

[Trends in Number of COVID-19 Cases and Deaths in the US Reported to CDC, by State](#)

[Tampa Bay Times: Why Are So Many Floridians Still Dying from COVID? How Florida's Death Rate Compares to Other States, Including California, Texas, and New York](#)

[COVID Data Tracker: New Admissions of Patients with Confirmed COVID-19 per 100,000 Population](#)

[Risk of Hospitalization and Death in Florida vs. the Rest of the US Before and After 16+ Vaccination and During September 16–22, 2022](#)

[Sept 8, 2022 Florida Covid Stats: What Is Really Happening?](#)

[Aug 25, 2022 Florida Covid Stats: What Is Really Happening?](#)

[PRB: Which States have the Oldest Populations?](#)

[CDC: United States COVID-19 Cases, Deaths, and Laboratory Testing by State and Territory](#)

To check on other locations in the US, I recommend finding the statistical category you're seeking on this post and then clicking on Dr. Salemi's or the CDC's site and entering a different state or county.

[I have](#) also published an archived [omicron variant](#) post, archived [delta variant information](#), and archived general [Covid-19 information](#). **However, the most recent omicron information is here.**

New and Urgent Information:

2/3 of children and teens with Covid had a ¼ reduction in lung function for up to a year. 41% of them still had not recovered after 360 days.

On August 31, 2022, the FDA granted Emergency Use Authorizations to Moderna and Pfizer for omicron-specific boosters. The CDC recommends this booster two months after previous Covid vaccination or three months after infection. People who should receive the older mRNA versions are those without two shots and children aged 5–11:

What You Need to Know

- CDC recommends everyone stay up to date with COVID-19 vaccination, including all primary series doses and boosters for their age group:
 - People ages **6 months through 4 years** should get all COVID-19 primary series doses.
 - People ages **5 years and older** should get all primary series doses, and the booster dose recommended for them by CDC, if eligible.
 - People ages **5 years to 11 years** are currently recommended to get the **original (monovalent) booster**.
 - People ages **12 years and older** are recommended to receive one **updated Pfizer or Moderna (bivalent) booster**.
 - This includes people who have received all primary series doses and people who have previously received one or more original (monovalent) boosters.
 - At this time, people aged **12 years to 17 years** can only receive the **updated Pfizer bivalent booster**.
- Getting a COVID-19 vaccine after you recover from COVID-19 infection provides added protection against COVID-19.
- People who are moderately or severely immunocompromised have [different recommendations for COVID-19 vaccines](#), including boosters.
- [COVID-19 vaccine and booster recommendations](#) may be updated as CDC continues to monitor the latest data.

[MedPage: Persistent Pulmonary Dysfunction Seen in Kids with COVID](#)

[FDA: Coronavirus \(COVID-19\) Update: FDA Authorizes Moderna, Pfizer-BioNTech Bivalent COVID-19 Vaccines for Use as a Booster Dose](#)

[AMA: New Omicron Boosters Available from Pfizer and Moderna with Sandra Fryhofer, MD](#)

[CDC: COVID-19 Vaccine Booster Shots](#)

Until September 2nd, each household could order up to three sets of four Covid tests at Covid.gov. Funding for this expired, except for people with Medicare Part B. They can receive 8 tests/month at participating pharmacies.

[The Hill: Federal Government to Halt Free COVID-19 At-home Tests by Early September](#)

An Overview:

If you were infected with Covid in Florida before the end of March, you are highly unlikely to have immunity to the current subvariants. Three doses of the original vaccine formulas are also significantly less protective than for earlier omicron subvariants. Recent research indicates that additive damage occurs to numerous organ systems with each Covid infection.

In the US during July 2022, 2 boosters prevented 91% of deaths; 1 booster prevented 82%; and a primary series prevented 84% of Covid fatalities. A 2nd booster of the original vaccines is much less effective at preventing infections. For people 50+ during August 14–20, having at least 2 boosters prevented 72% of cases; 1 booster prevented 68%; and a primary series prevented 84%.

Evusheld does not work against the rapidly increasing BA.4.6 and several other subvariants which derive from BA.4 and BA.5, such as BF.7. Currently BA.4.6 accounts for 16% of samples in the region which includes Florida and BF.7 for 2%.

This week, Florida ranks 5th worst in Covid deaths. Compared to other people in the US (2,533), a permanent Florida resident was 2.0x as likely to die from Covid (357; 12% of all Covid deaths). During August 19–25, 2022, 1/4 of Covid deaths reports in the US came from Florida (25.6%).

Until mid-August, Florida ranked near the worst in the US for confirmed cases for 10 straight weeks. The state seems to be emerging from the latest omicron wave, improving to 13st best for permanent residents. Cases in children declined by 30% for those <5 and 36% for school-aged children.

For September 16–22, people in FL were 20% more likely to need hospital care than people in the rest of the US, down from 135% more likely a week earlier. During June 2–August 16, 2022, there were only 4 days that the state did not rank last in Covid adult hospital admissions. It now ranks 17th worst.

Florida's pediatric admissions rank remained at 3rd worst in the US, with no change from a week earlier. Until the August 11th report, it had been no better than 3rd for at least 18 weeks. In the last week, 61 children were admitted to Florida hospitals.

Florida has the 3rd highest number of excess deaths compared to other states. That is the total number of excess deaths, not the number per 100,000 people. California has 80% more people than Florida; TX has 35% more. Among the 6 largest states, Florida has the worst death rate.

During May through August, Florida's death rate was 3x that of the other 10 states with the largest populations, the highest temperatures, and the oldest people.

A report released by the US House Select Subcommittee on the Coronavirus Crisis in June 2022 explains Florida's approach to the pandemic: get as many lower-risk people infected as quickly as possible to reach herd immunity.

In July 2020, one senior federal official advocated for deliberate infection “kind of like measles parties.” He wrote, “Infants, kids, teens, young adults, middle aged with no conditions, etc. have zero to little risk...so we use them to develop herd...we want them infected...and recovered...with antibodies...Hospitals are NOW geared, PPE in place, ICU beds are on the ready, doctors and nurses alert....”

Scott Atlas, the chief architect of the herd immunity plan, advised the DeSantis Administration before joining the federal government. Dr. Joseph Ladapo also promoted this “low testing/no masks/no lockdown” strategy to the White House before becoming the state’s surgeon general.

Overall, 63 Floridians <15 have died from Covid, with an infant dying last week. So far, 20 permanent Florida residents under 1 year old have died. Florida children aged 1–4 have a death rate 9% worse than the national average, with 12 deaths. Compared to the rest of the US, ages 5–14 and 15–29 are dying at 33% and 35% higher rates than their peers nationwide. When I remove smaller states with higher ranks but only one death, Florida’s rankings worsen to 9th for <1; 3rd for 1–4; and 7th for 5–14.

Over 3,000 Covid deaths in 2020 which a state auditor detected in early June will not be added to the state tally. According to a spokesman, the Florida Department of Health does not consider having Covid listed on a death certificate sufficient to count it as due to Covid.

As of 9-22-22, 1.3% of all permanent Florida residents who are 65+ had died from Covid. That this improved after July 14th—when it was also 1.3%—is impossible. The dip occurred in the 7-28-22 report even though the size of that demographic group remained the same.

Comparing the June 30th to the June 16th report, there is an increase of 500,000 people who had received at least one shot by the same date (June 16th). The FL Department of Health spokesman refused to explain the discrepancy.

Until receiving a demand from a bipartisan Congressional committee on June 18th, the FL Dept of Health prevented hospitals and doctors’ offices from preordering the vaccines which the FDA and CDC approved for children at least 6 months old. One page of the official Department of Health web site lies about the FDA’s recommended age for vaccination, saying it is 12+, not 6 months+. Another of the agency’s pages cites it accurately. See the Vaccination section for a more detailed account.

There were more cumulative cases reported for children under five in the June 16th report (192,875) than in the June 30th report (191,640). That gives us -1,235 for June 17–23, when the state was hindering vaccination of that age group. To my knowledge, that has not been corrected.

On June 28th, Dr. Ladapo testified to Congress that he and Governor DeSantis made the decision not to preorder vaccines and to prevent county health departments from administering them. He estimated that would affect 33,000 children. When asked about the risk of Covid infections compared to the risk of vaccination, the surgeon general called it “a perverse question.” He asserted what matters is the risk of vaccination vs. non-vaccination.

On June 30th, the day the president of the Florida Academy of Pediatrics began vaccinating young children, the state removed her from her board position at Florida Healthy Kids. Florida’s Chief Financial Officer claimed it was for “some very political statements that do not reflect the CFO’s point of view, even going so far as to say that the state is ‘obstruct(ing)’ access to vaccines. The CFO does not share your opinion and believes the state has gone to great lengths to protect lives in the face of the Coronavirus.”

Children <5 years old in the US were 5x as likely to need hospital care during the first omicron wave than during delta. When Florida officials refused to preorder vaccines for young children, the state was the 2nd worst in the US for pediatric admissions.

Among 1,040,000 children under 5 who received vaccination, symptoms were like those from routine childhood immunizations. No cases of myocarditis occurred. Only 19 experienced severe reactions (0.2%). Two of them were hospitalized due to vaccination (0.0002%).

[Trends in Number of COVID-19 Cases and Deaths in the US Reported to CDC, by State](#)

[CDC: Excess Deaths Associated with COVID-19 by Jurisdiction/Cause](#)

[American Heart Assn: Rethink What You Thought You Knew about COVID-19 Reinfection](#)

[MedRxiv: Further Humoral Immunity Evasion of Emerging SARS-CoV-2 BA.4 and BA.5 Subvariants](#)

[Florida Covid Statistics: What is Really Happening?](#)

[CDC: Variant Proportions](#)

[MedRxiv: Further Humoral Immunity Evasion of Emerging SARS-CoV-2 BA.4 and BA.5 Subvariants](#)

[CDC: CDC Strengthens Recommendations and Expands Eligibility for COVID-19 Booster Shots](#)

[MedPage: Report Shows Trump Administration Embraced Herd Immunity via Mass Infections—The Strategy Likely Contributed to Many Preventable Deaths, Report Notes](#)

[Salemi USF: Covid-19 in Florida](#)

[Florida Covid Response: Who Is Eligible for a Covid-19 Vaccine](#)

[FDoH: Covid-19 Vaccines in Florida](#)

[McClatchy: Congressional Panel Demands DeSantis Briefing on COVID Vaccines for Kids by End of Month](#)

[FDA: FDA Roundup July 8, 2022](#)

[FDA: Coronavirus \(COVID-19\) Update: FDA Authorizes Emergency Use of Novavax COVID-19 Vaccine, Adjuvanted](#)

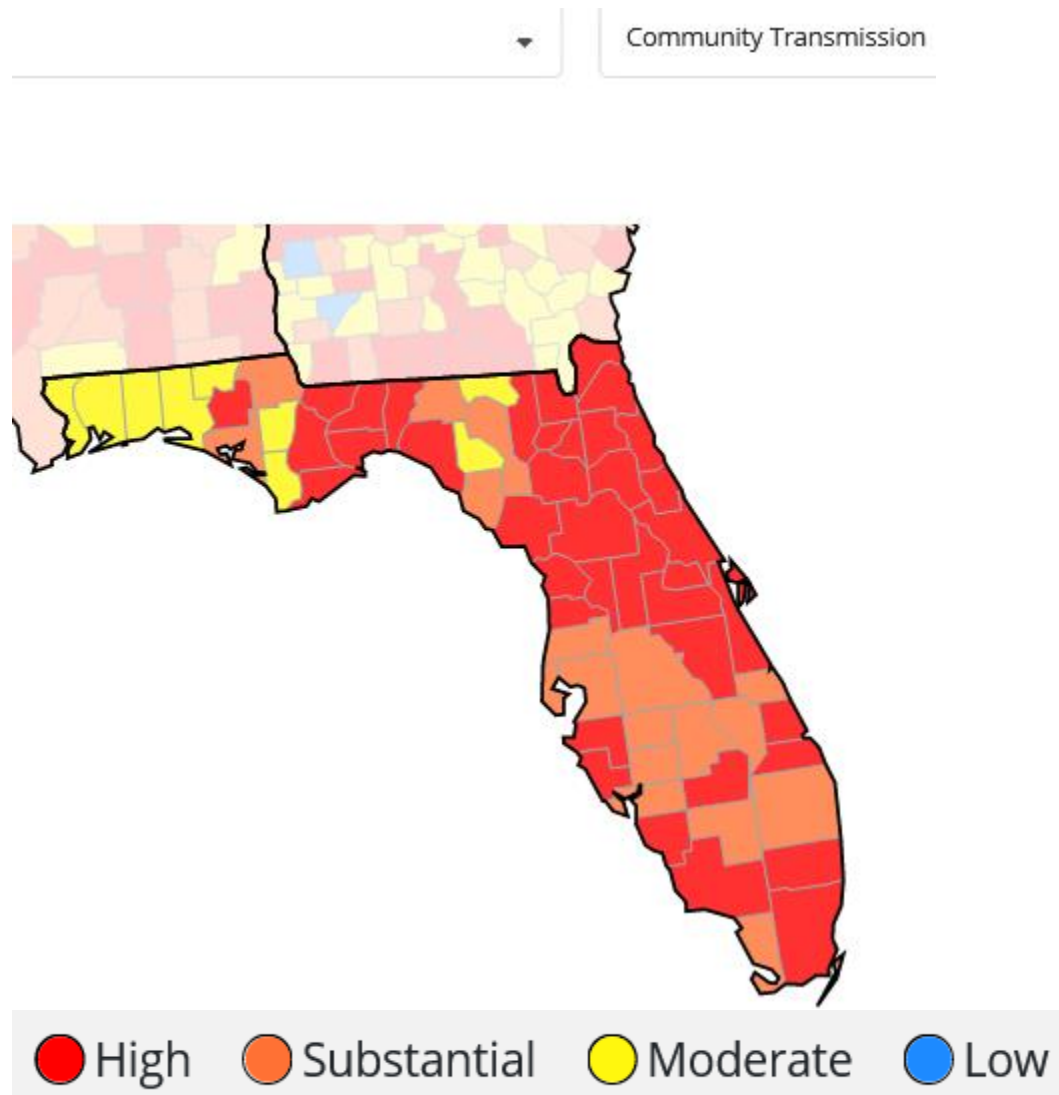
[Tampa Bay Times: Ladapo Tells Congress that Florida Decision Could Limit Kids' Vaccine Access](#)

[Florida Politics: Doctor Ousted from Florida Children’s Health Board Over Vaccine Views](#)

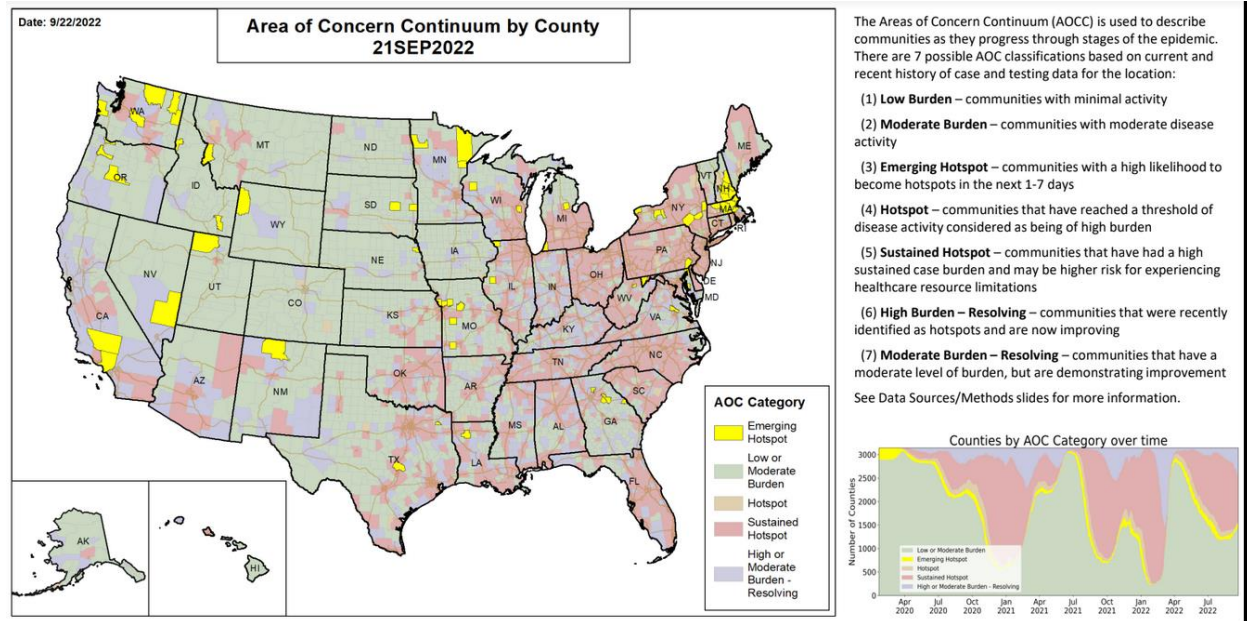
[MMWR: Hospitalization of Infants and Children Aged 0–4 Years with Laboratory-Confirmed COVID-19—COVID-NET, 14 States, March 2020–February 2022](#)

[MMWR: COVID-19 mRNA Vaccine Safety Among Children Aged 6 Months–5 Years—United States, June 18, 2022–August 21, 2022](#)

Forty-one of Florida’s 67 counties have high transmission (61%); 17 have substantial transmission and 9 have moderate transmission. This is an improvement from a week earlier, when 50 counties were at the highest level, 15 had substantial transmission, and 2 had moderate transmission: “substantial”:



On September 21st, the CDC deemed almost all of Florida as a sustained or resolving hotspot. More counties in the Panhandle have improved to the “low or moderate burden” category:



There are 7 possible AOC classifications based on current and recent history of case and testing data for the location:

Low Burden Community	Hotspot	High Burden - Resolving
Purpose: Identify communities with minimal activity. Definition: <ul style="list-style-type: none"> <10 new cases per 100k population in the last week 	Purpose: Identify communities that have reached a threshold of disease activity considered as being of high burden. Definition: <ul style="list-style-type: none"> >100 new cases per 100k population OR >500 new cases in the past week AND Number of days in downward case trajectory* ≤ 7 days AND >50 cases during past week AND Conditions must hold for at least 3 of the previous 5 days 	Purpose: Identify communities that were recently identified as hotspots and are now improving. Definition: <ul style="list-style-type: none"> Identified as a Hotspot or Sustained Hotspot within the last 2 weeks AND Not currently a Emerging Hotspot, Hotspot, or Sustained Hotspot AND >100 new cases per 100k population OR >500 new cases in last week AND Number of days in downward trajectory* ≥ 7 AND >50 cases during last week OR both ≥ 10 cases in last week and >8% test positivity in last week
Moderate Burden Community Purpose: Identify communities with moderate disease activity. Definition: <ul style="list-style-type: none"> Has NOT been identified as a Hotspot, Sustained Hotspot, or High Burden—Resolving within the last 2 weeks AND Does not meet the definition for an Emerging Hotspot, Hotspot, Sustained Hotspot, or High Burden—Resolving AND Does not meet the definition for being a Low Burden Community 	Sustained Hotspot Purpose: Identify communities that have had a high sustained case burden and are at potentially higher risk for experiencing healthcare resource limitations. Definition: <ul style="list-style-type: none"> Either Hotspot for at least 7 preceding days or already a Sustained Hotspot on previous day AND >200 new cases per 100k population OR >1,000 new cases in the past two weeks AND Daily incidence rate >15 new cases per 100k population for 8 or more of the last 14 days OR test positivity >8% over last 14 days AND >100 cases during the last two weeks AND Conditions must hold for at least 3 of the previous 5 days 	Moderate Burden - Resolving Purpose: Identify communities that have a moderate level of burden, but are demonstrating improvement. Definition: <ul style="list-style-type: none"> Identified as a Hotspot, Sustained Hotspot, or High Burden—Resolving within the last 2 weeks AND Does not meet the definition for an Emerging Hotspot, Hotspot, Sustained Hotspot, or High Burden—Resolving AND Does not meet the definition for being a Low Burden Community
Emerging Hotspot Purpose: Generate early and reliable signals of communities with emerging increases in disease burden that have a high likelihood for becoming a hotspot in the next 1-7 days. Method: Decision tree model that leverages the following features, trained based on prior data: Cases <ul style="list-style-type: none"> Total cases in the last week Total cases per 100k population in the last week New cases in the last week minus new cases the previous week Ratio of total cases in last 7 days to total cases in last 30 days Testing <ul style="list-style-type: none"> Number of tests last week Difference in percent positive tests in last 7 days from last 21 days 	Data Sources: CDC Aggregate County Data; Unified Testing Dataset; US Census 2019	<p>*Number of Days in Downward Case Trajectory: This field is calculated using a CDC algorithm that first fits a smooth spline curve to daily case counts, and then counts the number of days that curve has been decreasing or at a low level. More specifically, the computation is based on a cubic spline fit of the 7-day rolling average of cases. The number of days decreasing (in downward trajectory) is calculated by summing the number of consecutive days of decline or near-zero incidence. A day is considered part of a downward trajectory if it (i) was previously at elevated incidence (had a two-week incidence greater than 20 cases per 100k population), and (ii) meets one of the following three conditions: (a) had a negative slope, OR (b) was in a low incidence plateau (two-week incidence ≤ 10 cases per 100k population and a slope ≥ 0 to < 0.1 new cases per 100k population based on a 7-day moving average), OR (c) had less than 5 cases in the past 2 weeks.</p>

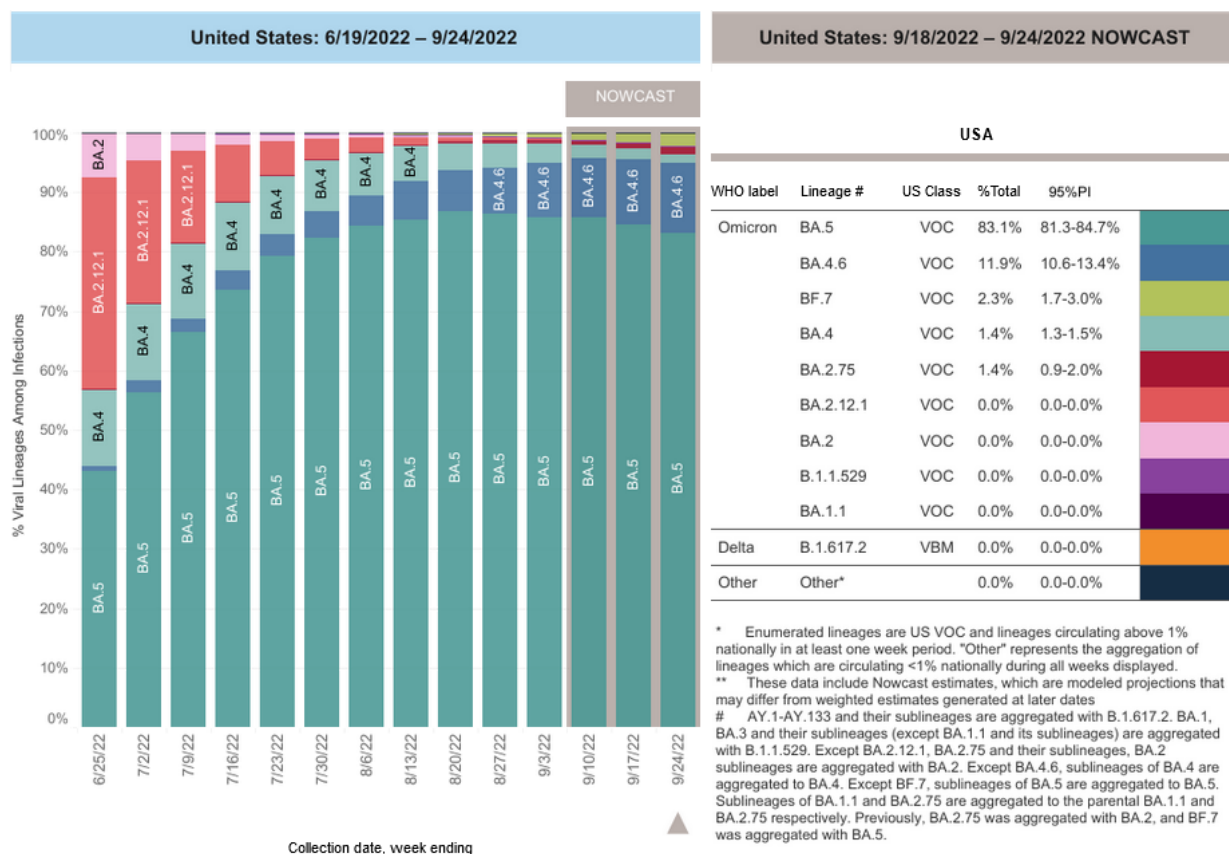
Page 33 / 33

[CDC: Community Transmission in Florida](#)

[CDC: COVID-19 Community Profile Report](#)

[Sept 15, 2022 Florida Covid Stats: What Is Really Happening?](#)

People who were previously infected with omicron BA.1 or BA.2 are susceptible to reinfection from the newer subvariants omicron BA.275, BA.4 and omicron BA.5. This very likely includes the sub lineages which descended from them: BA4.6, and BF.7. The CDC separated BF.7 from BA.5 on September 10th:



These newer strains replicate in people's nasal passages, tending to result in less severe illness. Serious cases are rare but do occur, especially in unvaccinated individuals.

The early omicron variants triggered long Covid in 4% of people, compared to 10% of those infected with the delta variant.

[NEJM: Neutralization Escape by SARS-CoV-2 Omicron Subvariants BA.2.12.1, BA.4, and BA.5](#)

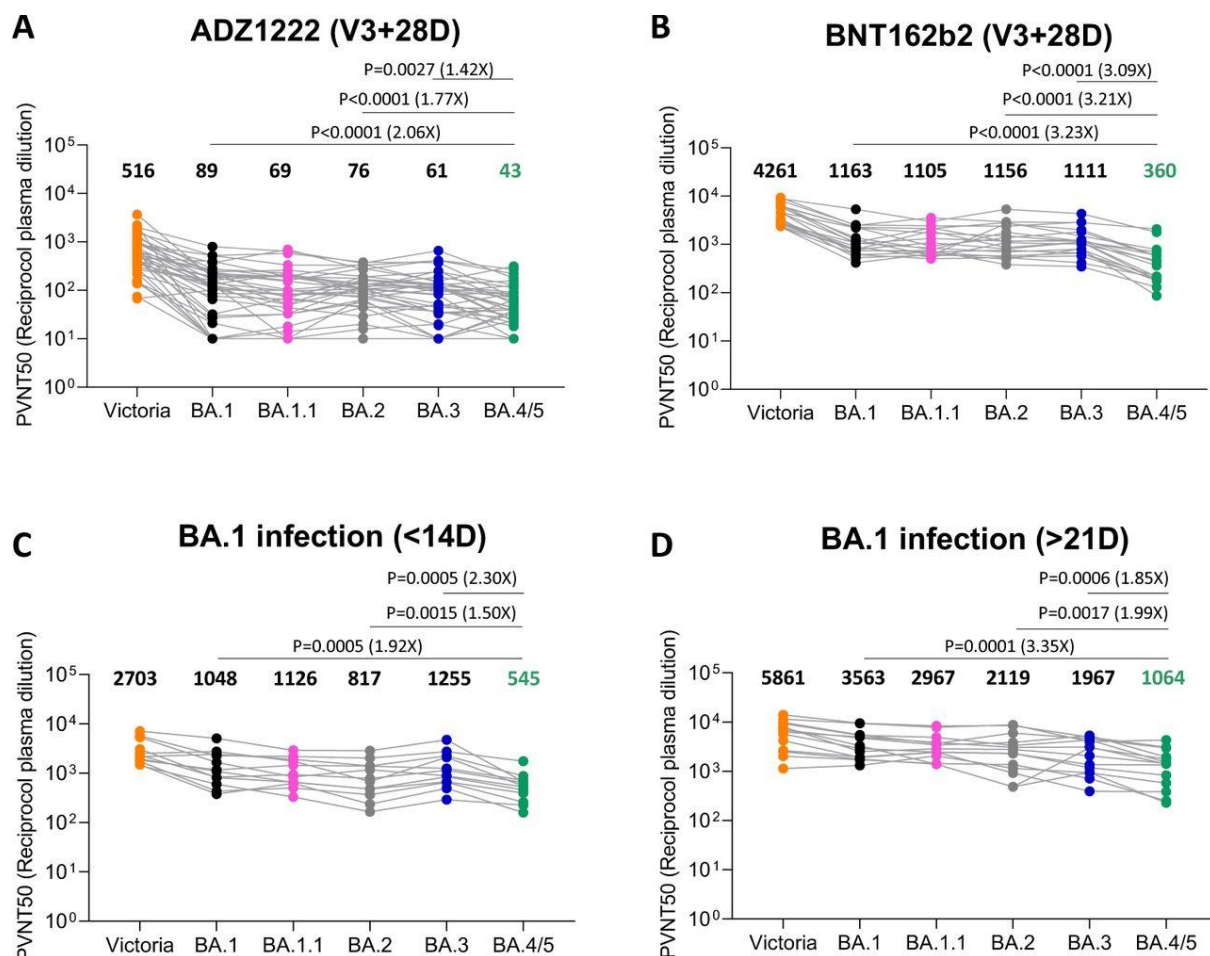
[MedPage: Omicron BA.4 and BA.5: Starting from Scratch Yet Again—Here's What We Know and What We Still Need to Find Out](#)

[CDC: Variant Proportions](#)

[Lancet: Risk of Long COVID Associated with Delta versus Omicron Variants of SARS-CoV-2](#)

Laboratory evidence on serum samples corroborates evidence of increased susceptibility to reinfection with BA.2.12.1, BA.4, and BA.5 for people who had breakthrough infections due to the omicron BA.1 variant. Three doses of the original vaccines are also significantly less protective when compared to earlier omicron subvariants.

These charts are on logarithmic scales, so the declines are larger than they appear until you see the lower dilution number required to neutralize the viruses:



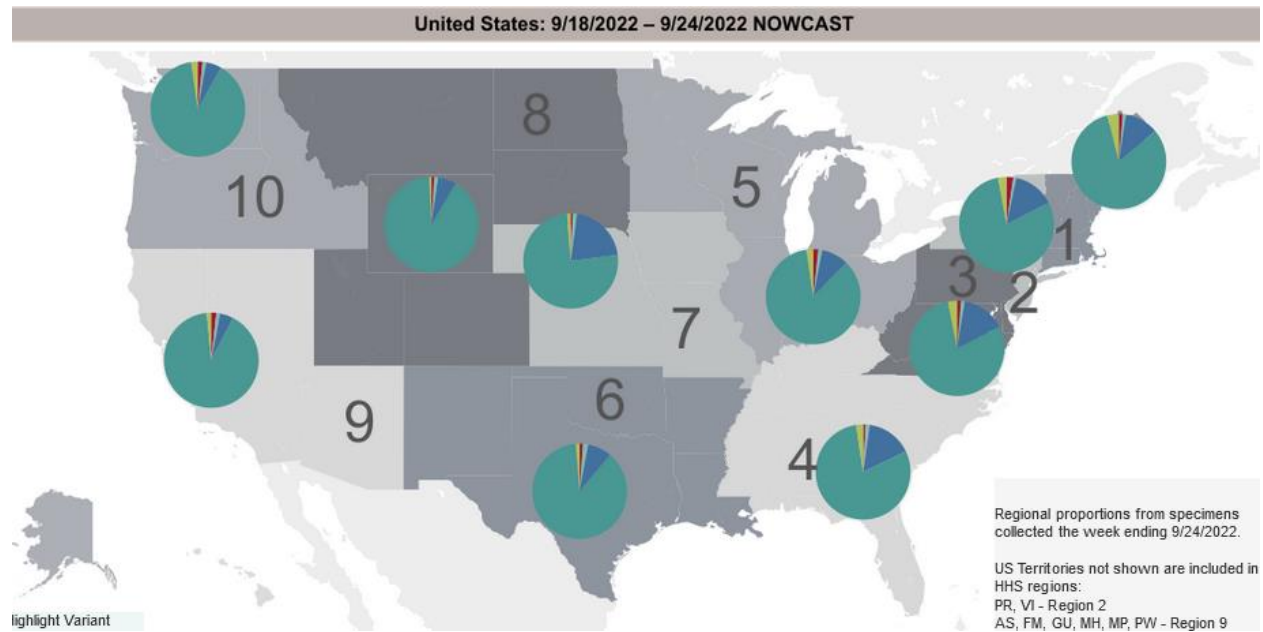
Subsequent research indicates that infection with the BA.2 subvariant also fails to confer immunity against BA.2.12.1, BA.4, and BA.5.

[MedRxiv: Omicron Sub-Lineages BA.4/BA.5 Escape BA.1 Infection-Elicited Neutralizing Immunity](#)

[Nature: BA.2.12.1, BA.4 and BA.5 Escape Antibodies Elicited by Omicron Infection](#)

[DPZ: Emerging Omicron Subvariants BA.2.12.1, BA.4, and BA.5 are Inhibited Less Efficiently by Antibodies](#)

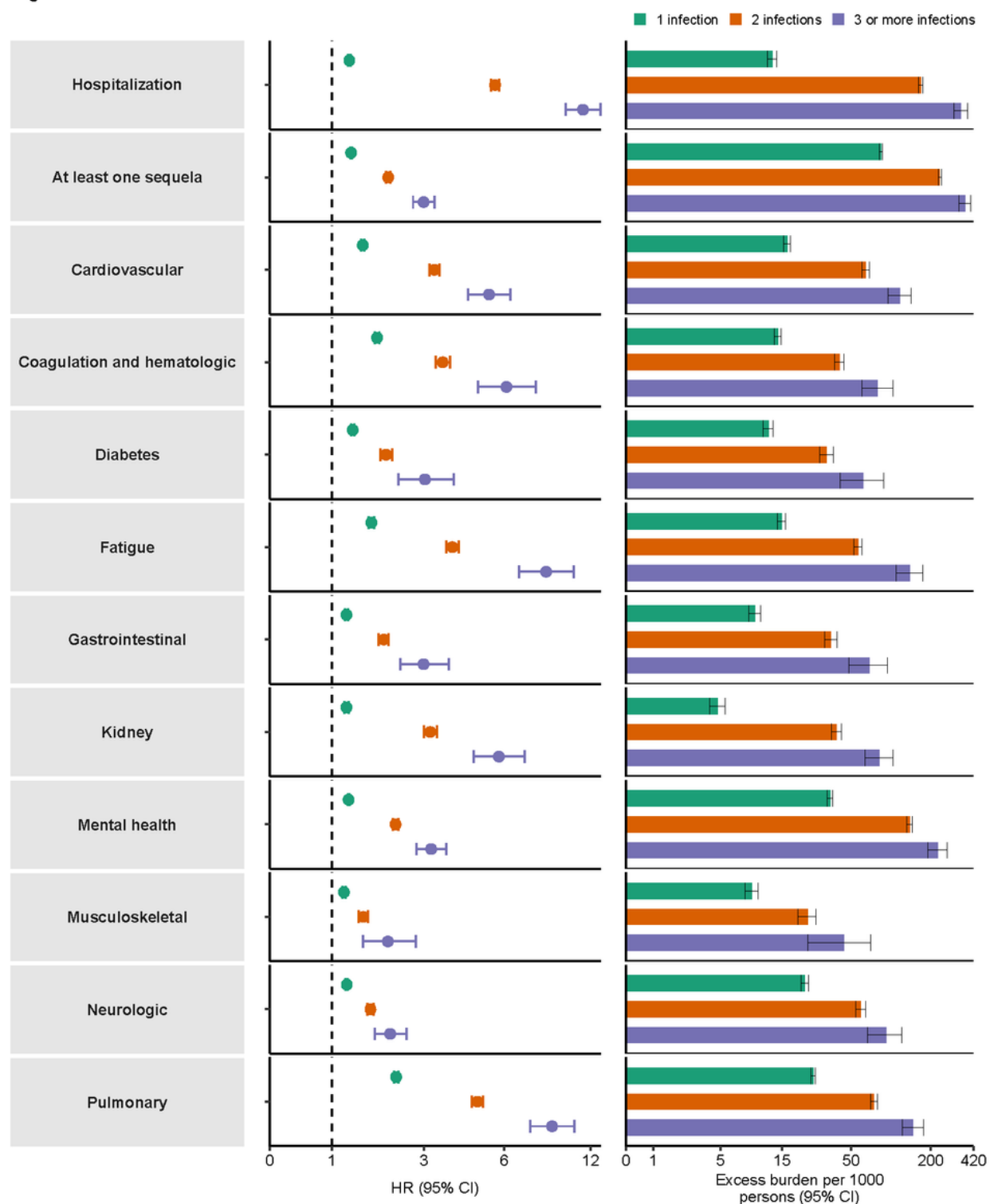
On September 24, 2022, 100% of sequenced samples in the US and in the region which includes Florida were BA.2.75, BA.4, BA.4.6, BA.5 or BF.7. That means that the SARS-CoV-2 virus infection which is spreading in the state cannot be completely prevented by the original vaccine formulations or an infection which occurred before late March 2022:



[CDC: Variant Proportions](#)

A preprint study of veterans in the US reveals additive damage to numerous organ systems as the number of Covid infections increases in each patient. Reinfection is something to avoid:

Figure 5

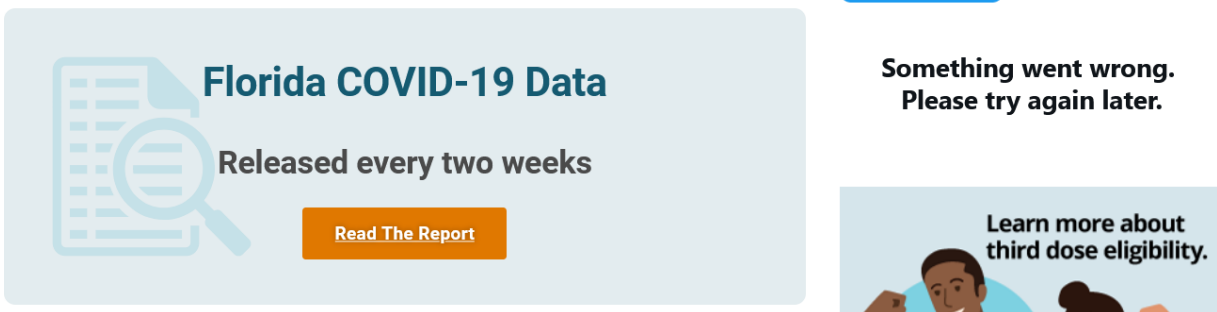


[American Heart Assn: Rethink What You Thought You Knew about COVID-19 Reinfection](#)

Tyee: "I'm Dropping My COVID Hubris," Vows a Top Immunologist: After the Virus Harmed Chris Goodnow's Heart, He Joined a Growing Chorus Against Reinfection Complacency

[Research Square: Outcomes of SARS-CoV-2 Reinfection](#)

Until June 2021, Florida reported Covid statistics every day with an online database. Weeks before the delta variant took hold in the state with devastating effects, the Department of Health switched to a weekly pdf while withholding data previously available to the public. Now Florida is halving the frequency of reports to the public to every two weeks. The state is directing people to the CDC, where there is an information lag:



[Tampa Bay Times: Florida Limits COVID Data to Every 2 Weeks, State Says Via Meme: Department of Health Officials Announced the Change Via Twitter, Using Vince McMahon and Cat Memes](#)

[Palm Beach Post: Florida to Update COVID-19 Data Less Frequently than All Other States](#)

[Florida Covid-19 Response](#)

I **heartily disagree** with this official announcement made from the Florida Department of Health retweeting their spokesman's personal Twitter account on March 11, 2022. We need more information, not less. Unfortunately, the tactic works: Floridians tend to express shock when I tell them about the most recent statistics:



[Florida Covid-19 Response](#)

[March 17, 2022 Florida Covid Stats: What is Really Happening?](#)

Dr. Jason Salemi from the University of South Florida was compiling some data from the CDC during weeks when the state did not issue an official report. Even before his hard drive crashed after April 24th, he did not have direct access to the Florida data. His rebuilt site is omitting data derived from the Florida Department of Health reports:



COVID-19 in
Florida

Last update:
Fri, 04/22/2022

Next update:
Fri, 04/29/2022

FLORIDA FOCUS
NATIONAL
COMMUNITY
PROFILE
VACCINES
NATIONALLY
CURRENTLY

4/28/2022: ATTENTION ALL USERS

This week, I had a catastrophic hard drive failure which compromised my COVID-19 dashboard.

Although the Tableau file itself was backed up, the 50 or so modified source datasets that feed into the dashboard were lost (I just received word from the data recovery folks at my university).

I will have to rebuild many aspects of the dashboard, and this will take quite a while (perhaps a few weeks) since I am also at a very busy portion of the academic year.

I will leave the dashboard in its current state - up and available for everyone - and will begin refreshing as soon as possible.

My sincere apologies - this is a service I've been providing for over 2 years, non-stop, and it pains me that this has happened.



COVID-19
Dashboard

Last update:
Thu,
09/15/2022

Next update:
Tue,
09/20/2022

RISK INDICATORS
CASES
HOSPITALIZATIONS

LIST OF VISUALIZATIONS ON THIS PAGE

Can access other pages by clicking on the links below or the left panel of the web site

COUNTY-LEVEL RISK INDICATORS

(updated every Friday following weekly CDC update)

1. CDC's **Community Risk Levels** by County
2. CDC's **Community Risk Levels** for any two reporting weeks
3. Directly **Comparing CDC Community Risk** Measures
4. % of the Population Living in Counties with Different **Community Transmission Levels** (National)
5. % of the Population Living in Counties with Different **Community Risk Levels** (National)
6. % of the Population Living in Counties with Different **Community Transmission Levels** (State)
7. % of the Population Living in Counties with Different **Community Risk Levels** (State)
8. **Change** in Community Risk Levels Over the Past Week
9. **Health Service Areas** Used To Calculate CDC Community Levels
10. County-Level Map of the 2020 **Population**

Other pages on this site

- [CASES](#) page
- [HOSPITALIZATIONS](#) page
- [DEATHS](#) page
- [VAX](#) page

[May 19, 2022 Florida Covid Stats: What Is Really Happening?](#)

[Salemi USEF: COVID-19 in Florida](#)

Beginning in June 2021, Florida removed all archived Covid data from their web site. Until March 17, 2022, they replaced the statistics from the previous week with a new report. Now that occurs every two weeks. That makes it much more difficult—even for those who have saved the old data—to see the actual numbers of cases and deaths. The state does not include hospitalization information. On the Florida Department of Health web site, you can locate influenza records from 2001 but no comprehensive Covid data from earlier than September 16, 2022.

[TBT: Why Doesn't Florida Trust Its Residents with Basic COVID Information?](#)

[Florida Covid-19 Response](#)[Florida Influenza Surveillance Reports 2001–2022](#)

These bullet points are a summary of the data in the rest of this post:

Florida Covid Deaths:

As of 9-22-22, the state has reported 81,139 Covid deaths among permanent FL residents to the CDC.

On 6-6-22, a report from the Florida Auditor General revealed the state omitted 3,000 Covid deaths from official reporting during March–October 2020.

The state says having Covid listed on a death certificate is not sufficient reason to count the death as Covid-related, so they will not be added to the Cumulative Deaths.

On June 4, 2021, the state removed 744 deaths among non-permanent residents and stopped reporting them.

During June 2021–August 2022, Florida reported only 7,695 of the 44,625 Covid deaths among permanent residents as “New Deaths” (17%).

1,845 permanent Florida residents died from Covid in August 2022, a 5% decrease from July (1,940). Only 151 were counted as “New Deaths” (8%).

During September 16–22, 2022, 12% of all Covid death reports in the US came from Florida. Per capita, there were 195 deaths in Florida for every 100 deaths elsewhere in the US.

For August 18–25, 475 permanent Florida residents died per 100 in the rest of the US; for September 2–8, it was 399.

There were 357 deaths among permanent residents reported during September 16–22 (-10%). That is the 5th worst in the nation per capita (1.73/100,000).

The state is claiming only 17% of them as “New Deaths” (62).

Miami-Dade County reported 27 deaths (-41%); Broward had 83 (+22%); Palm Beach County had 23 (-28%); Orange—where Disney is located—had 14 (+27%); and Hillsborough had 21 (+40%).

FL has 9.5% of US deaths when vaccinations were available to all 16+, for 6.6% of the US population.

Over half of Florida’s Covid deaths have occurred since everyone 16+ became eligible for vaccination, with a 46% higher risk of death than those in the rest of the US. Before then, a permanent Florida resident was 10% *less* likely to die.

Permanent Florida residents aged 80+ rank 9th best among the 50 states and Washington DC, with 22% fewer deaths than the national average for that age group.

Overall, 63 Floridians <15 have died from Covid, including an infant in the last week.

20 children under 1 year old have died, with 1 in the last week. Without small states with one death, FL ranks 9th worst. Infants fared 4% better than the national average.

Removing small states with 1 death makes Florida the 3rd worst for ages 1–4, with 12 deaths. The state has 9% more deaths in that age group than expected.

Without small states with 1 death, children 5–14 rank 7th in the nation with 31 deaths, 33% worse than anticipated.

People aged 15–24 are the demographic with the worst Mortality Rate Ratio, 35% higher than the national average with 220 deaths.

Since the pandemic began until 9-22-22, 5.9% of Florida seniors with a + test died from Covid (6.3% nationwide).

During September 9–22, 2022, 87.2% of all deaths among permanent Florida residents were among senior citizens.

As of 9-22-22, 1.3% of all permanent Florida residents who are 65+ had died from Covid.

The state reported a decrease in that statistic in the 7-28-22 report, although the size of that demographic group remained the same. That is impossible.

FL does not report Covid deaths stratified by vaccination status. However, deaths roughly correspond to vaccination percentages by demographic group.

CA has 80% more people than Florida yet almost the same number of excess deaths.

Maine has an older population, but its death rate (190) was about half of Florida's.

Among the 6 largest states, the Florida death rate is the worst. In August, we passed PA.

During **May**–August 2022, Florida's death rate was 3x higher than for other large states; 3x higher than the 10 hottest states; and 3x higher than the 10 oldest states.

FL Covid Vaccinations:

On 8-31-22, the FDA granted Emergency Use Authorizations to Moderna and Pfizer for omicron-specific boosters.

The CDC recommends a booster two months after previous Covid vaccination or three months after infection.

People who should receive the older mRNA versions are those without two shots and children aged 5–11.

People aged 12–17 getting a booster are limited to the Pfizer formulation developed against the omicron variants.

On 7-13-22, the FDA issued an Emergency Use Authorization for Novavax in adults. Novavax received an EUA for teens on 8-22-22. That vaccine employs older technology which some people who have resisted vaccination to this point may find acceptable.

On 7-8-22, the FDA upgraded the status for the Pfizer vaccine in ages 12–17 from an Emergency Use Authorization to full approval.

On 6-17-22, the FDA issued an Emergency Use Authorization for the Pfizer and Moderna vaccines for children as young as 6 months old. The CDC recommended them a day later.

As of 9-24, 22, the newest update on the FL Dept of Health Covid Vaccine Latest Updates page is from 6-17-22.

The main FL Dept of Health Covid website continues to claim the FDA recommends vaccination for those 12+, not 6 months+. Meanwhile, the Latest Updates page correctly cites it as 6 months+. The 9-22-22 official report says it is 5+.

Florida was the only state which failed to preorder doses for the youngest children, a move Governor DeSantis and the Department of Health spokesman said was deliberate.

Despite claiming health care providers could order doses directly, they were unable to do so for several days.

Within an hour of receiving a demand for an explanation from a bipartisan Congressional committee, the state began enabling healthcare providers to order the vaccines.

On 6-28-22, Dr. Ladapo testified to Congress that 33,000 young children are unlikely to access vaccination due to the ban on county health departments providing them.

I recommend using the Vaccines. gov site to locate a participating pharmacy. Young children can receive Covid vaccines at the same time as routine immunizations.

Publix has announced they will not vaccinate children under 5, although they were the first in the state to receive adult dosages.

On 6-30-22, the president of the Florida Chapter of the American Academy of Pediatrics was removed from the board of FL Healthy Kids for disagreeing with the DeSantis administration about the necessity of vaccination.

As of 9-22-22, 2.5% of permanent Florida residents aged 6 months–4 years had received their first shot (26,429).

Nationwide, 8% of children <5 received a Covid shot by 9-14-22.

By 9-24,22, 1,240,000 children <5 had been vaccinated, +100,000 in 2 weeks.

Among 1,040,000 children under 5 who received vaccination, symptoms were like those from routine childhood immunizations. No cases of myocarditis occurred. Only 19 experienced severe reactions. 0.0002% were hospitalized due to vaccination.

For those <6 months, having a mother who received 2 doses while pregnant reduced hospitalizations by 38% during omicron and 80% during delta. Vaccine efficacy doubled when given after 20 weeks.

Pregnant women who received boosters had 4x the antibodies of those with 2 doses. Their newborns had 2x as many antibodies as their mothers.

On 3-7-22, a discussion panel moderated by Governor DeSantis recommended against Covid vaccination for healthy children due to the risk of adolescent males developing myocarditis. Florida is the only state to make such a declaration.

On 5-27-22, the Special Olympics dropped their vaccine mandate for a national tournament after the state threatened to fine them \$27,500,000.

The risk of cardiac inflammation due to Covid is 540% higher for boys aged 5–11 than vaccination. No girls developed symptoms after vaccination.

Among 400 children hospitalized during the omicron wave, 1 in 3 had no preexisting conditions, 1 in 5 required care in the ICU, and 9 in 10 were unvaccinated.

Children <5 years old in the US had hospitalization rates 5x greater than during delta.

2/3 of children and teens with Covid had a ¼ reduction in lung function for up to a year. 41% of them still had not recovered after 360 days.

6% of children who tested + in ERs had post-Covid health issues 90 days later (10% of those hospitalized and 5% of those discharged). The risk rose with more symptoms and age 14+. Respiratory, systemic, neurological, and gastrointestinal issues were common.

Since August 2020, 15,870 minors have required hospitalization for Covid in Florida, with 61 of those in the last week.

During July 2022 in the US, unvaccinated children aged 5–11 were 106% more likely to need hospital admission than their peers with a vaccine primary series. Vaccination prevented 52% of hospitalizations in that age group.

Unvaccinated teens (12–17) were 138% more likely to require inpatient hospital care than boosted teens. A booster prevented 58% of hospitalizations in those adolescents.

As of 9-22-22, only 25% of Floridians aged 5–11 had at least one shot; 64% of adolescents did.

On 6-30-22, the state claimed a 7% rise in vaccinated teens with new 10,500 doses, not a 0.5% rise.

On 9-22-22, Florida claimed a 72% vaccination rate. This includes anyone with at least one shot, over 600,000 snowbirds, and “vaccine tourists.” The state report inexplicably claims to exclude children under 5 and include those 6 months–1 year old.

CDC data shows 68% of people in Florida had at least completed a vaccine series by September 8th. They include 840,000 federal personnel whom the state does not count. Using state data, my calculation is 62%.

In the June 30th and June 16th reports, there is an increase of 500,000 people who had received at least one shot by the same date (June 16th). The FL DoH spokesman refused to explain the discrepancy.

Long Covid, heart attacks, and ischemic strokes occur significantly less often in vaccinated people. Vaccination after infection can also reduce or eliminate Long Covid symptoms.

28% had booster shots by 9-22-22, an important precaution against severe illness and transmission of the omicron variants. Only 6% of Floridians have had a second booster.

During July 2022, boosters prevented 72% of omicron hospitalizations among people in the US aged 18–49; 76% for ages 50–64; and 82% for senior citizens.

Compared to people with boosters during July 24–30, 2022, unvaccinated people aged 18–29 were over 3x as likely to die (0.03 vs. 0); it was 4.75x for 30–49; 5.7x for ages 50–64; 9.4x for ages 65–79; and 4.2x for people over 80.

During the initial omicron wave in Israel, a second booster prevented 64% of hospitalizations and 72% of Covid deaths among nursing home residents compared to those who received only a first booster.

As of 9-22-22, 1,406,470 people in Florida had a second booster shot, only 32% of those who had previously gotten a first booster. That is 6% of Florida’s population.

In the US during July 24–30, 2022, 2 boosters prevented 91% of deaths; 1 booster prevented 82%; and a primary series prevented 84%.

A 2nd booster of the original vaccines is much less effective at preventing infections. For people 50+ during August 14–20, having at least 2 boosters prevented 72% of infections; 1 booster prevented 68%; and a primary series prevented 90% compared to the rate in unvaccinated people.

Mixing booster vaccine types will give you the best protection: they stimulate different parts of your immune system. If you had 2 or 3 Moderna, I recommend getting a Pfizer and vice versa.

Medicare will cover 100% of the cost of an additional booster shot.

The state does not report cases or deaths by vaccination status. However, vaccination rates tend to parallel the death rates for each age group.

On 1-14-22, the governor refused to enforce the federal mandate for healthcare workers upheld by the Supreme Court a day earlier.

On 1-19-22, the state put Orange County's epidemiologist on leave for chiding his employees' 40% vaccination rate.

On 1-15-22 the governor said many nurses avoid vaccination due to "trying to have families." Numerous studies confirm vaccination does not cause infertility.

Florida Covid Cases:

With the rise in at-home testing since the omicron wave began, it is important to know that official confirmed cases are likely to be significantly undercounted.

The CDC reported 17,438 confirmed cases among permanent Florida residents (-30%).

There have been 7,106,653 confirmed Covid cases in Florida among permanent residents.

On 6-6-22, a report from the Florida Auditor General revealed that 60% of people who tested positive for Covid during March–October 2020, were never notified of their results. That affected at least 183,000 infected individuals.

On June 4, 2021, the state removed all data from anyone who is not a permanent resident and stopped reporting it. This deleted 43,535 cases.

After 14 weeks of ranking near the worst in the US during May 25th–August 24th, on 9-22-22, Florida's state rank for confirmed cases improved to 13st best.

CDC data shows 61% of Florida counties have high transmission rates, down from 75% a week ago. The areas with lower transmission tend to be in the Panhandle.

During September 16–22, Miami-Dade had 2,946 (-30%); Broward had 1,588 (-26%); Palm Beach had 1,187 (-19%); and Hillsborough had 1,121 (-25%).

Orange County—where Disney is located—had 981 (-22%).

During this week, 111 infants <6 months old tested + (-38%). Ages 6 months–**4 years had 509 confirmed cases (-28%). Overall, children <5 had a 30% decline.**

Florida reported -1,235 cases for children <5 during June 17–23, 2022, when the state was preventing their vaccination.

532 elementary-aged children tested positive (-29%). Ages 12–19 had 886 positive reports (-39%). Combining these age groups yields a 36% decrease.

During the 2021–2022 school year, the Hillsborough County School District reported 29,000 cases among students and personnel.

There is not a dashboard for the 2022–2023 school year which began on August 10th.

Healthcare workers who wore respirator masks like N95s had half the risk of getting Covid compared to those with surgical masks.

Florida law prohibits requiring masks in non-medical settings.

Parents decide about quarantining after a close contact at school.

On 1-31-22, FL shifted its focus to “high congregate settings,” not schools and day cares.

During the week leading up to that announcement 38,629 school-aged children in Florida had tested positive.

On 1-31-22, FL students absent due to Covid exposure are truant per Orange County.

Florida Covid Testing and Prevention:

A report released by the US House Select Subcommittee on the Coronavirus Crisis in June 2022 explains Florida’s approach to the pandemic: get as many people infected as quickly as possible to reach herd immunity.

One Trump Administration official wrote, “Infants, kids, teens, young adults, middle aged with no conditions, etc. have zero to little risk...so we use them to develop herd...we want them infected...and recovered...with antibodies.”

Scott Atlas, the chief architect, advised the DeSantis Administration before joining the federal government. Dr. Joseph Ladapo also promoted this “low testing/no masks/no lockdown” strategy to the White House before becoming the state’s surgeon general.

Dr. Birx wrote an email refusing to meet with the group which included Dr. Ladapo, calling them, “a fringe group without grounding in epidemics, public health, or on the ground common sense experience.”

With omicron reinfection becoming common, we now know that achieving herd immunity against SARS-CoV-2 is a myth, yet their tactics have not changed.

Recent research indicates that additive damage occurs to numerous organ systems with each Covid infection.

Due to at-home testing, the number of cases is likely to be under-reported.

The CDC advises notifying your doctor of positive at-home tests.

Public health officials recommend maintaining a positivity rate <5% for 2 weeks before reopening.

Florida crossed the 5% threshold during April 9–21, 2022.

For the week ending September 22nd, Florida claimed an 8.4% positivity rate. The data the state reported to the CDC indicates that April 20th was the last time it was that low.

There is a consistent pattern of underreporting the positivity rate in the Florida Department of Health reports by about two percentage points.

CDC positivity data using information from the state for September 16–22 trended down from 11.23% to 9.40%, with an average of 10.25% (-20% difference in a week).

That means there were about 36,000 cases during September 16–22, 2022 (-43%).

60 of Florida's 67 counties are above the 5% threshold; 4 of them are above 15%.

Orange County, where Disney is located, reported that 10.5% of tests were positive.

Of the 60 counties with decreased positivity, 22 fell by at least 2 full percentage points, down from 45 a week earlier.

Twenty counties reported increases, with half of them by at least 2 percentage points. Areas with positivity increases are in the northern and southwestern parts of the state.

On 12-30-21, **when it was virtually impossible to find an at-home test**, FL's Agriculture Secretary revealed 1,000,000 expired antigen tests.

On 1-4-22, Dr. Ladapo decried the "testing psychology" in Florida to identify all cases.

On 1-8-22, FL's web site told those not at high risk of severe cases to avoid testing.

On 1-9-22, the governor announced 1,000,000 tests for long-term care and nursing homes

On 2-7-22, the state reprimanded two companies which failed to report 230,000 test results from December and January until that week.

On 3-2-22 Governor DeSantis chided a group of teens in a county with a high alert level and told them to remove their face masks. He then used that episode to raise campaign funds. Under those conditions, the CDC recommends that everyone wear masks indoors.

On 3-31-22, a UF faculty committee revealed discrepancies in the surgeon general's hiring as a tenured professor.

Florida Covid Treatment:

Omicron mutations render ineffective almost all monoclonal antibodies previously in use.

100% of US cases are due to those viral strains.

For the week ending January 8th, 97% of sequenced cases in the region which includes Florida were omicron.

Sotrovimab worked against the **omicron BA.1 variant** at a dosage 3x more than for delta.

During the first week of January, Florida used 140 of its 4,400 Sotrovimab doses and 2,700 of Regeneron.

On 1-18-22, FL opened more infusion centers to distribute 15,000 doses of Regeneron.

The FDA revised its EUA for Regeneron on 1-24-22, prohibiting its use against omicron.

DeSantis objected to no shipments; all FL antibody infusion centers closed on 1-25-22.

Nevertheless, Florida administered over 37,500 doses after that date. Monoclonal antibodies can produce severe side effects.

Sotrovimab is 27 times less effective for omicron BA.2 and ineffective for newer subvariants.

During April 3–9, 2022, the percentage of BA.2 increased from 80% to 91% in the region which includes Florida (71.7% BA.2 and 19.3% of the newer BA.2.12.1).

On 4-5-22, the FDA revoked the Emergency Use Authorization for Sotrovimab nationwide due to the predominance of BA.2 in every state.

On 9-24-22, the percentage of the BA.2.75 subvariant was 1%; BA.4.6 rose to 16%; BA.4 dropped to 1%. BF.7 remained at 2%, and BA.5 fell to 80% in the region which includes Florida.

A monoclonal antibody called bebtelovimab is effective against all omicron subvariants.

It began shipping to Florida during February 14–20. The federal government delivered its final shipment of bebtelovimab on 9-4-22.

Here is the most recent weekly federal allocation of 8,632 Covid-specific treatments to Florida: 6,520 of the oral Paxlovid; 2,112 of the less-effective oral Molnupiravir.

As of 9-18-22, Florida patients had used 65% of the state's cumulative Paxlovid deliveries (+1%); 21% of the Molnupiravir (+1%); 60% of the Bebtelovimab (+1%); and 46% of the Evusheld (+1%).

On 7-6-22, the FDA authorized pharmacists to prescribe Paxlovid since treatment must begin within 5 days of symptoms developing.

On 12-8-21, the FDA issued an Evusheld EUA for those with severe immunosuppression.

People with certain cancers or organ transplants receive the highest priority.

DeSantis announced it on 12-17-21, when Covid was raging through Miami-Dade County.

First shipments only to a small private fee-based clinic in Broward County on 12-24-21.

People flew from out of state to receive it at the iCare Clinic.

The large transplant hospital in Miami was to receive it four weeks later.

During Jan 24–30, 2022 the federal government sent 32,000 outpatient treatments.

Evusheld requires a much higher dosage against omicron BA.2.75, BA.4, and BA.5, which account for 82% of cases in Florida's region.

Unfortunately, Evusheld is ineffective for some subvariants which derive from BA.4 and BA.5, such as BA.4.6 (16% of FL samples) and BF.7 (2%).

On 6-29-22, the FDA increased the dosage and recommended getting the shots every 6 months.

On 8-29-22, Florida received a monthly allocation of 12,336 doses of pre-exposure Evusheld for severely immunocompromised people.

Florida Covid Hospitalizations:

You won't find any hospitalization info on Florida's Weekly Reports since 6-4-21.

Florida must relay all hospitalization data to the US Dept of Health and Human Services.

For August 1, 2020–September 22, 2022, Florida has had 490,949 new hospital admissions for Covid patients. This represents 9.2% of *all* Covid admissions for 6.6% of the US population.

During September 16–22, 2022, there was an average of 316 admissions per day, a total of 2,230 (-9%).

This is 86% fewer than a record 13,028 hospitalizations on 8- 24-21.

On September 22nd, there were 1.47 new admissions/100,000 Floridians; 1.76 the week before.

Admissions for most demographic groups fell. The amount of change for adults ranged from -25% (ages 30–39) to -9% (50–59). Pediatric admissions declined by 37%.

61 children were admitted to FL hospitals in the last week.

Compared to delta, omicron admissions are higher for younger than 30 and older than 69.

Since everyone 16+ became eligible for vaccination on April 1, 2021, Florida admissions are 60% higher than in the rest of the US.

For September 16–22, the Florida admissions rate was 20% higher. Per capita, there were 120 admissions in Florida compared to every 100 admissions elsewhere in the US. This has dropped by almost half: a week earlier, there were 235.

On 9-22-22, Florida shifted from 5th to 10th worst in the nation for adult Covid admissions. During June 2–August 16, 2022, there were only 4 days that the state did not rank last. Florida improved significantly to 17th worst for adult hospitalizations; the state remained almost the same at 18th worst for adult ICU patients.

Pediatric admissions dropped back to 3rd worst, yet pediatric hospitalizations are close to the national average (27th best).

When Florida officials refused to preorder vaccines for young children, the state **was** the 2nd worst in the US for pediatric admissions. Children <5 years old were 5x as likely to need hospital care during the first omicron wave than during delta.

On 9-22-22, 1,856 adult Covid patients were hospitalized (-10%).

The state had 307 adult admissions on that day (-10%).

247 patients needed ICU care, 13% of adults hospitalized with Covid (+6%).

40 children were hospitalized (-35%), with 42 pediatric admissions on that day (no change).

Florida's pediatric admissions rank stayed at 3rd worst in the US. Until the August 11th report, it had been no better than 3rd for at least 18 weeks.

One in 8 admissions are for children, down from 1 in 4 on April 20th.

On 9-21-22, Orange County—where Disney is located—had 110 new hospital admissions in the last 7 days (-17%).

Miami-Dade had 261 (-17%); Broward had 188 (-17%); Palm Beach had 168 (-25%); and Hillsborough had 181 (-16%).

Largest decreases were in the Panhandle. Only 3 counties had large increases.

On 9-23-22, 79% of hospital beds in Florida were full (no change); 4.1% used by Covid patients (down from 4.6%). Covid patients accounted for 2,157 hospital beds (-11%).

On 9-23-22, 4.1% of ICU beds were used by 240 Covid patients (+1%). Overall, 73% of ICU beds were occupied (no change). 11% of hospitalized Covid patients were in the ICU.

On October 18th, I followed the Dept of Health's recommendation to contact their COVID Data Analytics section, then went outside. When I returned, I had to do a major recovery process following an unauthorized attempt to access my hard drive. I still have not received a response

from the FL COVID Data Analytics group. Even the main site for the Florida Dept of Health appears on an unsecure connection: www.floridahealth.gov.

For a few weeks in the spring, my computer downloaded the official Florida Covid report. Then it again refused to open the file, citing a security risk. Dr. Salemi has resumed posting a link to each report, which is how I safely access it:



[Florida Covid Statistics: What is Really Happening?](#)

[Florida Covid-19 Response](#)

[Salemi USF: COVID-19 in Florida](#)

Faculty at the University of Florida charge that they have felt external pressure from the highest levels of state government to delete data related to their Covid research. They also encountered “barriers to accessing and analyzing” data and “barriers to publication of scientific research which inhibited the ability of faculty to contribute scientific findings during a world-wide pandemic.”

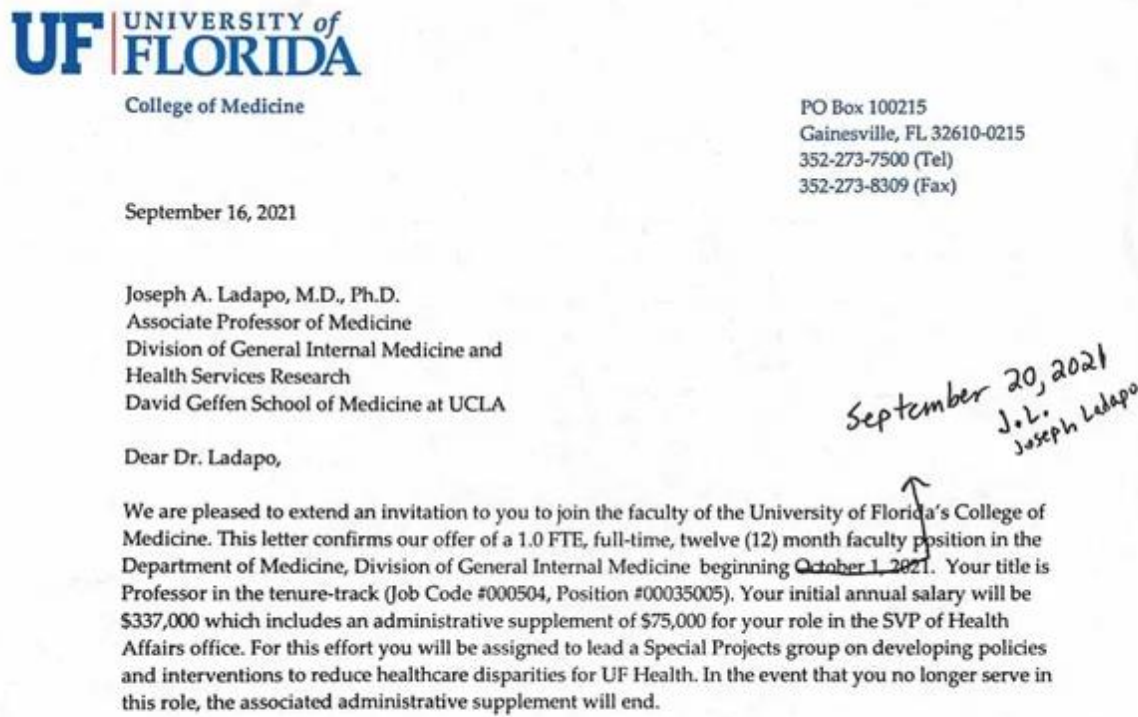
On January 21, 2022, a federal judge sided with the plaintiffs in a 74-page ruling. He asserted the University of Florida was “willing to suffer threats to its accreditation, congressional inquiries, unrelenting bad press, an all-but-certain hit to its rankings, and the substantial monetary cost of hiring an experienced D.C. firm to defend its policy. The only thing UF will not do, it seems, is amend its policy to make clear that it will never consider viewpoint in denying a request to testify.” As in *The Emperor’s New Clothes*, the emperor’s lords, “fearing the loss of their jobs and the Emperor’s good grace, enabled the charade by praising the Emperor’s fine suit.”

[The Hill: University of Florida Initiates Investigation into Alleged Destruction of COVID-19 Research Data](#)

[Tampa Bay Times: Federal Judge Orders Injunction to UF’s Conflict of Interest Policy](#)

On March 31, 2022, a University of Florida faculty committee released a report charging that the university violated its own practices when hiring Joseph Ladapo, Florida’s surgeon general to a tenured position. Required faculty input regarding his application was due on September 17, 2021. However, Dr. Ladapo was informed he had the appointment on September 16th.

After receiving the letter with an October 1, 2021, start date, Dr. Ladapo changed it to September 20th, just prior to the news conference where the governor announced him as our new surgeon general:



A screenshot of an offer letter extended to Dr. Joseph Ladapo in which the incoming Florida surgeon general changed his own start date from Oct. 1, 2021, to Sept. 20, 2021. [UF Health]

In response to a reporter's questions, Jeremy Redfern, the Florida Department of Health spokesman, sent an email stating, "The time of those at the University of Florida writing 100-page reports regarding hiring practices would be better spent working on important issues like research and curing cancer."

[Tampa Bay Times: Joseph Ladapo Hiring Violated UF Procedures, Faculty Report Says: Some Faculty Felt Ladapo, Florida's Surgeon General, Was the Subject of "Preferential Treatment on the Basis of His Political Opinions"](#)

Here is some of the data for September 16–22, 2022 from the Florida Department of Health report. Percentages of people who completed a vaccine series or received a booster shot are based upon the total population of eligible permanent Florida residents:

COVID-19 Weekly Situation Report: State Overview

Previous week (September 16, 2022 - September 22, 2022)

Published September 23, 2022

All data are provisional and subject to change. Data include only Florida residents.



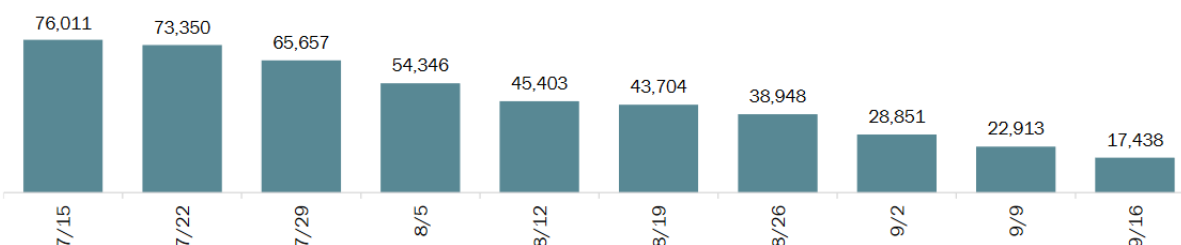
Case data	Previous week	Cumulative
Total	17,438	7,106,653
New case positivity	8.4%	28.9%
Deaths	62	81,139

See additional notes at the end of this report for information on positivity rate, deaths, and vaccination status.

Vaccine data	Previous week (doses administered)	Cumulative (people vaccinated)
Total	45,139	16,032,216
First dose	5,402	2,206,064
Series completed	4,352	7,812,897
Additional or booster dose	35,385	6,013,255

Vaccine age groups	Population	Vaccinated
Total (6+ months)	22,207,477	72%
6 months-4 years	1,049,999	2.5%
5-11 years	1,709,114	25%
12-19 years	1,982,626	64%
20-29 years	2,735,328	66%
30-39 years	2,857,581	73%
40-49 years	2,690,641	80%
50-59 years	2,944,284	84%
60-64 years	1,482,302	88%
65+ years	4,755,602	94%

New cases for the past 10 weeks



- New cases = 17,438; Cumulative cases = 7,106,653
- Positivity rate = 8.4%
- New deaths = 62; Cumulative deaths = 81,139
- Vaccination rate = 72% of those eligible with at least one dose
- Fully vaccinated people minus those with booster shots: 7,812,897 (35%)
- Vaccinated with at least one booster dose: 6,013,255 (27%)

COVID-19 Weekly Situation Report: County Overview

Previous week (September 16, 2022 - September 22, 2022)



County	2022 population	Cumulative (since March 1, 2020)		Cases	Case positivity	Previous week (September 16, 2022 - September 22, 2022)			
		People 6+ months old vaccinated	Percent of 6+ months old vaccinated			People 6+ months old vaccinated	Cases	New case positivity	Cases per 100,000 population
Florida	22,324,144	16,032,216	72%	7,106,653	28.9%	5,402	17,438	8.4%	78.1

[Salemi USF: COVID-19 in Florida](#)

Here is some of the data from September 9–September 15, 2022, which the state submitted to the CDC. Cumulative numbers are derived from adding the new CDC information to the September 8th Florida Department of Health report. The corrected vaccination rate is from the CDC. Positivity data reflects the average for the week as reported to the CDC:

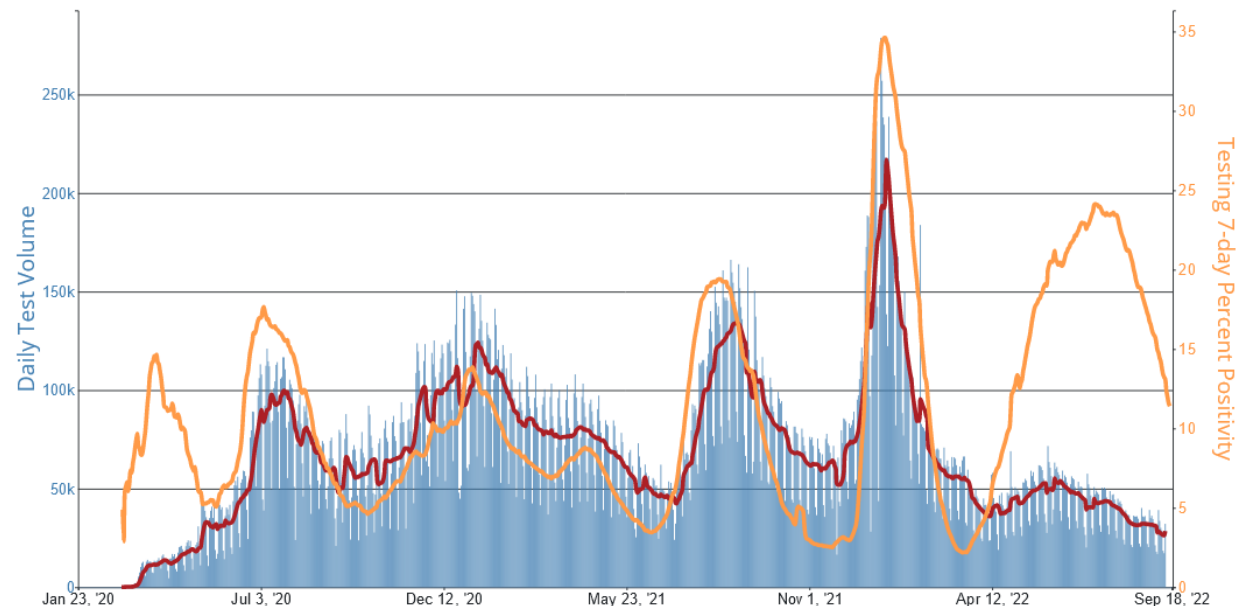
Cases & Deaths in Florida

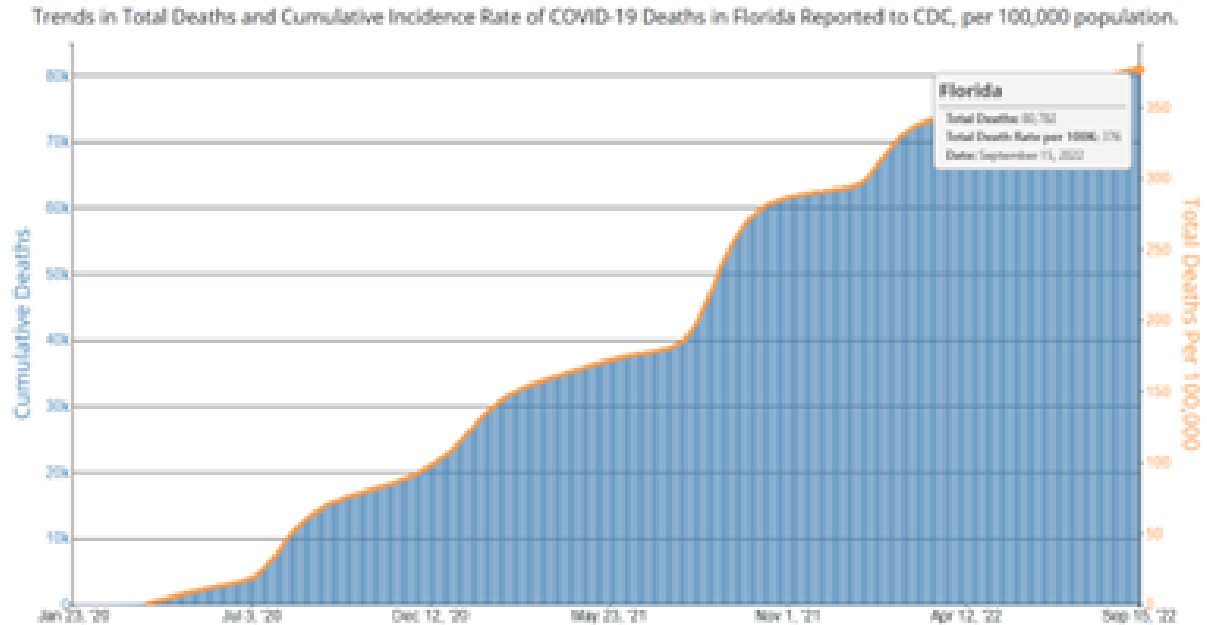
Data through Thu Sep 15 2022

Total Cases	24755
Case Rate (last 7 days)	115.3

Total Deaths	46
Death Rate (last 7 days)	0.2

Daily Nucleic Acid Amplification Tests (NAATs) Performed and COVID-19 Nucleic Acid Amplification Tests (NAATs) 7-day Percent Positivity in Florida Reported to CDC





Vaccinations in Florida

People Vaccinated	At Least One Dose	Fully Vaccinated
Total	17,400,470	14,666,081
% of Total Population	81%	68.3%
Population ≥ 5 Years of Age	17,365,948	14,656,770
% of Population ≥ 5 Years of Age	85.4%	72.1%
Population ≥ 12 Years of Age	16,915,685	14,298,838
% of Population ≥ 12 Years of Age	90.5%	76.5%
Population ≥ 18 Years of Age	15,924,709	13,474,448
% of Population ≥ 18 Years of Age	92.3%	78.1%
Population ≥ 65 Years of Age	4,854,285	4,162,472
% of Population ≥ 65 Years of Age	95%	92.6%

People with a First Booster Dose *	Boosters
Total	6,233,991
% of Fully Vaccinated Population with a First Booster Dose	42.5%
Fully Vaccinated Population ≥ 5 Years of Age with a First Booster Dose	6,233,870
% of Fully Vaccinated Population ≥ 5 Years of Age with a First Booster Dose	42.5%
Fully Vaccinated Population ≥ 12 Years of Age with a First Booster Dose	6,203,053
% of Fully Vaccinated Population ≥ 12 Years of Age with a First Booster Dose	43.4%
Fully Vaccinated Population ≥ 18 Years of Age with a First Booster Dose	6,041,118
% of Fully Vaccinated Population ≥ 18 Years of Age with a First Booster Dose	44.8%
Fully Vaccinated Population ≥ 65 Years of Age with a First Booster Dose	2,683,013
% of Fully Vaccinated Population ≥ 65 Years of Age with a First Booster Dose	64.5%

COVID-19 Weekly Situation Report: County Overview

Previous week (August 19, 2022 - August 25, 2022)



County	2022 population	Cumulative (since March 1, 2020)				Previous week (August 19, 2022 - August 25, 2022)			
		People 6+ months old vaccinated	Percent of 6+ months old vaccinated	Cases	Case positivity	People 6+ months old vaccinated	Cases	New case positivity	Cases per 100,000 population
Florida	22,324,144	15,999,823	72%	6,998,561	28.7%	8,724	43,703	16.2%	195.8

- New cases = 24,755; Cumulative cases = 7,090,989
- Positivity rate = 12.8%
- New deaths = 46; Cumulative deaths = 80,782
- Vaccination rate = 78% of the population has at least one dose
- Fully vaccinated people minus those with booster shots: 8,432,090 (38%)
- People with at least one booster dose: 6,233,991 (30%)

[CDC: Integrated County View Florida](#)

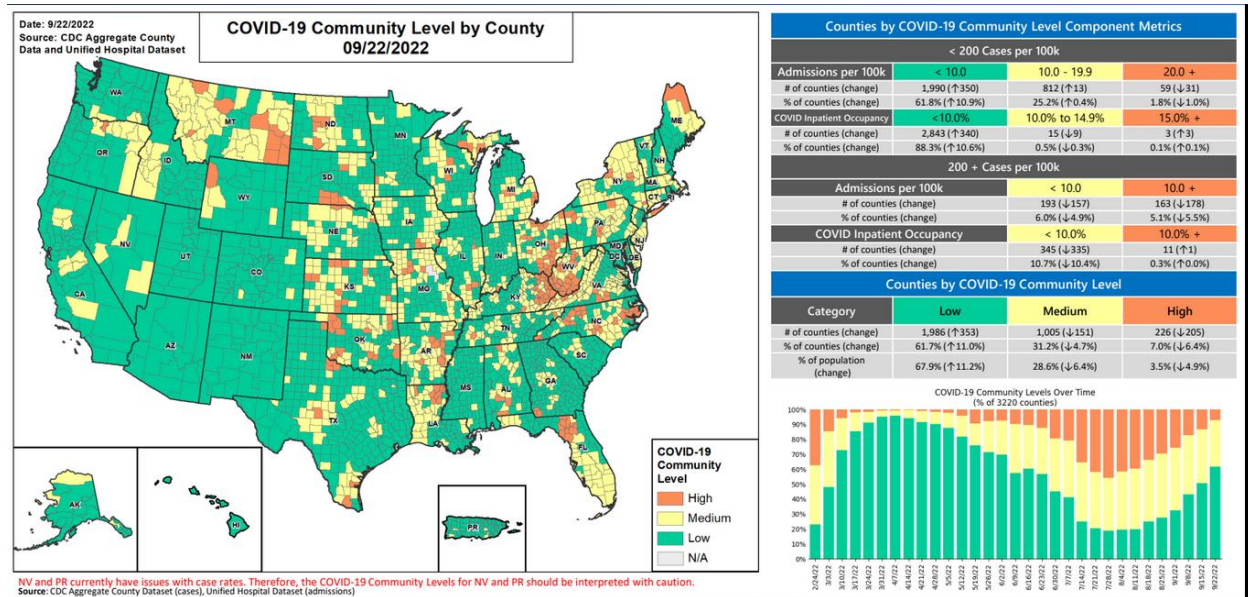
[CDC: Florida Daily Covid Testing](#)

[Trends in Number of COVID-19 Cases and Deaths in the US Reported to CDC, by State](#)

[Salemi USF: COVID-19 in Florida](#)

On February 25, 2022, the CDC updated their masking guidelines *based heavily upon Covid hospital admissions and utilization* and, to a lesser extent, upon the number of new cases in a county. **It does not reflect the level of transmission.** They range from low (green) through medium (yellow) to high risk (orange). Rural areas without hospital services may look better than they are. You can click on the hyperlink below this for more specific information and the interactive map.

This is the situation in Florida as of September 22, 2022. Ten of our counties are at the highest level (-2); 29 are at the medium level (-3); and 28 are green (+5):

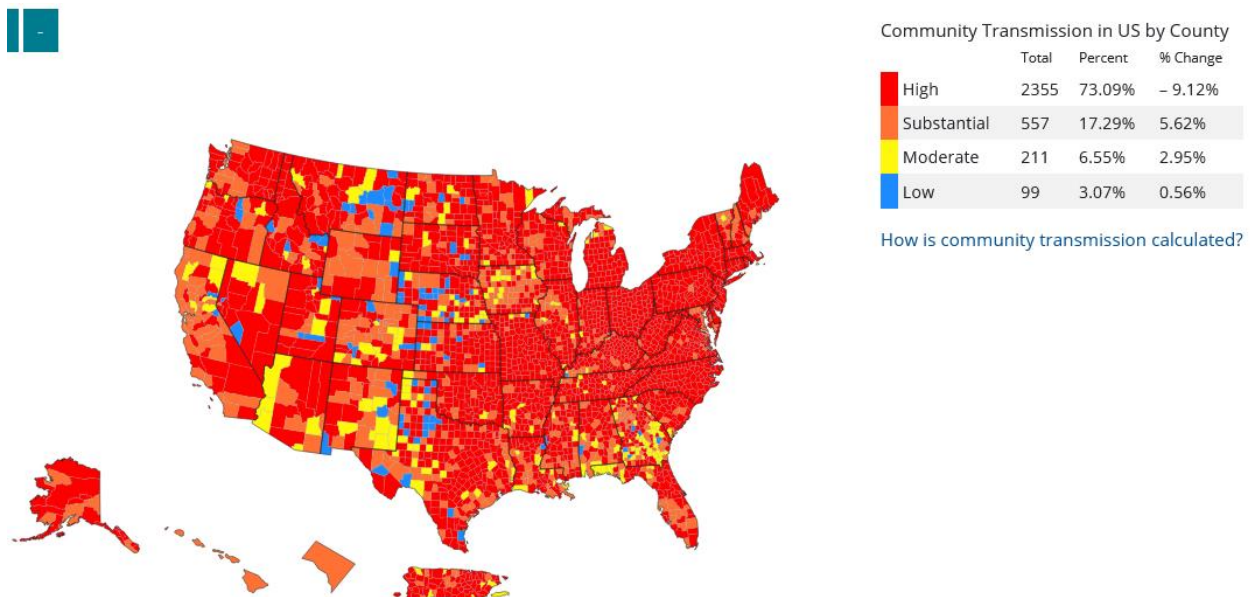


In areas of high alert, the CDC advises everyone to wear a high-quality tight-fitting mask indoors. **Please note that relaxed masking guidelines in green areas do not apply to severely immunocompromised people.**

[CDC: COVID-19 Community Levels](#)

[Sept 15, 2022 Florida Covid Stats: What Is Really Happening?](#)

Here is the map for the same date based upon the level of Community Transmission:



[CDC: Community Transmission in US](#)

On March 2, 2022, Governor DeSantis visited Hillsborough County. As he approached a group of masked high school students, he said, “You do not have to wear those masks. I mean, please take them off. Honestly, it’s not doing anything and we’ve gotta stop with this COVID theater. So, if you want to wear it, fine, but this is ridiculous.”

He then used that outburst to raise campaign funds.

[WFLA: ‘This Is Ridiculous’: DeSantis Scolds Students for Wearing Face Masks During USF Visit](#)

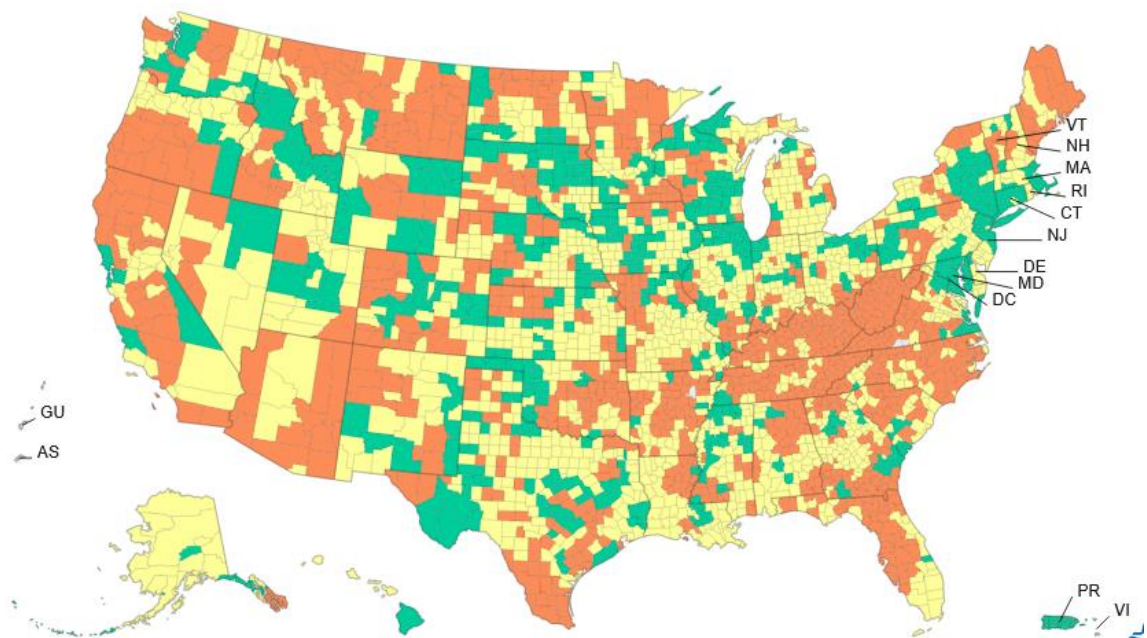
[The Hill: DeSantis Fundraises off Video of Him Chiding Students for Wearing Masks](#)

Hillsborough County had a high alert level for Covid before and after that date:

U.S. COVID-19 Community Levels by County

Data provided by CDC

Updated: Feb. 24, 2022



[Feb 25, 2022 Florida Covid Stats: What Is Really Happening?](#)

[March 3, 2022 Florida Covid Stats: What Is Really Happening?](#)

Florida Covid Vaccinations:

Compare the FDA's June 17, 2022, Emergency Use Authorization for eligibility in children (6 months+) to what Florida says on the Department of Health website (12+ on one page and 6 months+ on another) and in the September 8, 2022, Department of Health report's vaccination notes (5+):

FDA NEWS RELEASE

Coronavirus (COVID-19) Update: FDA Authorizes Moderna and Pfizer-BioNTech COVID-19 Vaccines for Children Down to 6 Months of Age

[f Share](#) [t Tweet](#) [in LinkedIn](#) [✉ Email](#) [🖨 Print](#)

For Immediate Release: June 17, 2022

[Español](#)

Today, the U.S. Food and Drug Administration authorized emergency use of the Moderna COVID-19 Vaccine and the Pfizer-BioNTech COVID-19 Vaccine for the prevention of COVID-19 to include use in children down to 6 months of age.

- For the Moderna COVID-19 Vaccine, the FDA amended the emergency use authorization (EUA) to include use of the vaccine in individuals 6 months through 17 years of age. The vaccine had been authorized for use in adults 18 years of age and older.
- For the Pfizer-BioNTech COVID-19 Vaccine, the FDA amended the EUA to include use of the vaccine in individuals 6 months through 4 years of age. The vaccine had been authorized for use in individuals 5 years of age and older.



[Public Services](#) | [Resources](#) | [News](#) | [FAQ](#) | [Specific ir](#)

[Vaccine Information](#)

[Vaccine Locator](#)

[Testing Site Locator](#)

[Treatment Locator](#)

Who is eligible for a COVID-19 vaccine?



The U.S. Food and Drug Administration has authorized and recommended three vaccines to prevent COVID-19 in the U.S.:

- The Pfizer-BioNTech COVID-19 vaccine for individuals 12 years of age and older.
- The Moderna and Janssen (Johnson & Johnson) COVID-19 vaccines for individuals 18 years of age and older.

As of September 24, 2022, this is the most recent update on the Department of Health site:

COVID-19 Vaccines in Florida

Latest Vaccine Updates



6/17/22

The U.S. Food and Drug Administration [authorized emergency use](#) of the Moderna and Pfizer-BioNTech COVID-19 vaccine for the prevention of COVID-19 to include use in children down to six months of age. Enrolled providers are able to order COVID-19 vaccines for this age group through Florida SHOTS. [Learn more.](#)

Vaccination notes

Data in this summary pertain to COVID-19 vaccines approved by the U.S. Food and Drug Administration (FDA) or have been issued an Emergency Use Authorization (Janssen COVID-19 Vaccine, Moderna COVID-19 Vaccine and Pfizer-BioNTech COVID-19 Vaccine) by the FDA. These data summarize the number of people who have received either their first dose or have completed their primary series for a COVID-19 vaccine. A person can only be counted in one category, first dose, series complete or additional or booster dose. For persons receiving Moderna or Pfizer vaccines, once they receive their second dose, they are moved from the first dose column to the series completed column. Once a person receives their additional or booster dose, they are moved from the series completed column to the additional or booster dose column. Because of this, the total in each category may show a change from report to report not matching the totals from the previous week. Persons receiving Johnson & Johnson vaccines are not counted in the first dose category. The age group table displays the current percentage of people in an age group who have received at least one dose of the Moderna or Pfizer doses or one Johnson & Johnson dose. The total line is the current percentage of the eligible population (ages 5+).

[FDA: FDA Authorizes Pfizer-BioNTech COVID-19 Vaccine for Emergency Use in Children 5 through 11 Years of Age](#)

[Florida Covid Response: Who Is Eligible for a Covid-19 Vaccine](#)

[FDoH: Covid-19 Vaccines in Florida](#)

[Salemi USF: COVID-19 in Florida](#)

As expected, on June 18th, the CDC issued a statement recommending vaccination for all children at least 6 months old. They also expanded eligibility for the Moderna vaccine to children aged 5–17 years old. On July 8th, the FDA upgraded the status for the Pfizer vaccine in ages 12–17 to full approval. Novavax received an EUA for adolescents on August 22nd.

COVID-19 primary series vaccination for children and teens

Child's Age	Pfizer-BioNTech	Moderna	Novavax	J&J/Janssen
6 months – 4 years old	3-dose primary series	2-dose primary series	Not authorized	Not authorized
5 – 11 years old	2-dose primary series	2-dose primary series	Not authorized	Not authorized
12 – 17 years old	2-dose primary series	2-dose primary series	2-dose primary series	Not authorized

[CDC: CDC Recommends COVID-19 Vaccines for Young Children](#)

[FDA: Coronavirus \(COVID-19\) Update: FDA Authorizes Moderna and Pfizer-BioNTech COVID-19 Vaccines for Children Down to 6 Months of Age](#)

[FDA: FDA Roundup, July 8, 2022](#)

[CDC: CDC Recommends Novavax COVID-19 Vaccine for Adolescents](#)

Since the clinical trials in young children occurred while omicron was prevalent, it is not surprising that both vaccines showed lower efficacy in preventing infection. Two doses of Moderna were more effective (51% in 6 months–under 2 years; 37% in 2–4 years) than two shots of the Pfizer vaccine, which failed to produce a sufficient immune response. That is why a full series of Pfizer consists of three shots (80% effective in trials; 73% against BA.2). Both types were well-tolerated, with side effects comparable to other childhood vaccines.

[Ars Technica: Why Moderna's FDA-Authorized COVID Shot for Under 5s Has the Edge Over Pfizer's](#)

[MedPage: Pfizer or Moderna: Which COVID Vaccine Is the Best Bet for Your Toddler?](#)

[Pfizer: Updated COVID-19 Vaccine Data Supporting Efficacy in Children 6 Months through 4 Years of Age](#)

In anticipation of FDA approval, the federal government created a June 13, 2022, deadline for states to preorder the smaller doses of the Pfizer and Moderna vaccines required for children aged 6 months–4 years old. Florida was the only state to miss that deadline.

While federal pharmacies like Costco, Publix, Sam's Club, Walgreens, and Winn-Dixie can order doses directly from the US government, most of them do not administer any vaccinations to children under 3 years old. CVS Minute Clinics are an exception, accepting children at least

18 months old. Despite being the first pharmacies to receive the adult vaccines in Florida, Publix has announced they will not provide them for children under 5. I recommend using the **Vaccines.gov** website to locate a participating pharmacy.

During a press conference, Governor DeSantis asserted, “I would say we are affirmatively against the COVID vaccine for young kids. These are the people who have zero risk of getting anything.”

The spokesman for the Florida Department of Health stated, “The Florida Department of Health [DoH]... has made it clear to the federal government that states do not need to be involved in the convoluted vaccine distribution process, especially when the federal government has a track record of developing inconsistent and unsustainable COVID-19 policies. It is also no surprise we chose not to participate in distribution of the COVID-19 vaccine when the Department does not recommend it for all children.”

As with all other childhood vaccines, Florida hospitals were able to preorder the Pfizer vaccine for children aged 5–11 in November 2021 from the state program Florida SHOTS. However, the state’s website did not provide that option for the younger cohort for several days after receiving widespread attention in the national press. The president of the FL chapter of the American Academy of Pediatrics stated that in her contacts with the FL DoH on this issue, the agency never claimed the situation would change after the FDA authorized the vaccines.

Within an hour of the bipartisan House Select Subcommittee on the Coronavirus demanding an explanation, pediatric healthcare providers were able to place orders directly beginning on June 17, 2022.

Participants in the Florida SHOTS program must order at least 100 doses. Unlike for all other age groups, the state will not store the lower dosage vaccines. As a result, small independent pediatric clinics may find it harder to deliver these shots, making it even more difficult for parents with children under 18 months old. A ten-dose vial must be thrown away 12 hours.

According to a federal official, “The state of Florida intentionally missed multiple deadlines to order vaccines to protect its youngest kids. Now despite repeated efforts to reach out and engage officials in the state of Florida, elected officials deliberately chose to delay taking action to deny Florida parents the choice of whether to vaccinate their children or not.”

[Tampa Bay Times: Florida Infants, Toddlers Face COVID Vaccine Delay, White House Says](#)

[Fox: Florida Pharmacies Will Have COVID Vaccines for Eligible Kids Under 5](#)

[CNBC: Covid Vaccine “Deserts” and Tech Woes: Publix’s Florida Rollout Highlights Risks as Retailers Play a Larger Role](#)

[The Hill: Florida-Based Publix Says They Will Not Offer Vaccine “At This Time” to Kids Under 5](#)

[Web MD: Florida Governor Rejects COVID Vaccines for Young Kids](#)

[WFLA: Pediatrics Group Calls on Florida to Order COVID Vaccine for Kids](#)

[NY Times: After Public Pressure, Florida Allows Pediatricians to Order Vaccines for Very Young Children](#)

[McClatchy: Congressional Panel Demands DeSantis Briefing on COVID Vaccines for Kids by End of Month](#)

[Tampa Bay Times: “Waiting for So Long”: COVID Vaccines Reach Youngest Floridians](#)

[Miami Herald: COVID Vaccine for Infants Arrive in Florida. Here’s Why Doctors Are Throwing Them Away](#)

On June 28th, Florida Surgeon General Joseph Ladapo testified to the House subcommittee. He confirmed that he and Governor DeSantis made the decision not to preorder the lower dose vaccines and to prohibit county health departments from vaccinating young children. Dr. Ladapo admitted this would likely prevent 33,000 children without a regular doctor from receiving vaccination.

When a subcommittee member asked Dr. Ladapo about the risk of Covid infections compared to the risk of vaccination, the surgeon general called it “a perverse question.” He asserted the comparison which matters is the risk of vaccination vs. non-vaccination, as if SARS-CoV-2 poses “little to no risk of severe illness complications.”

That same day, a high-ranking federal health official pledged to deliver smaller quantities of vaccines directly to health care providers who request them.

Based upon the experience with other age groups, pediatricians can safely give Covid vaccines with routine immunizations.

On June 30th, the same day she began vaccinating young children, the state removed the president of the Florida Academy of Pediatrics from her board position at Florida Healthy Kids. Florida’s Chief Financial Official made the move due to “some very political statements that do not reflect the CFO’s point of view, even going so far as to say that the state is ‘obstruct(ing)’ access to vaccines.’ The CFO does not share your opinion and believes the state has gone to great lengths to protect lives in the face of the Coronavirus.”

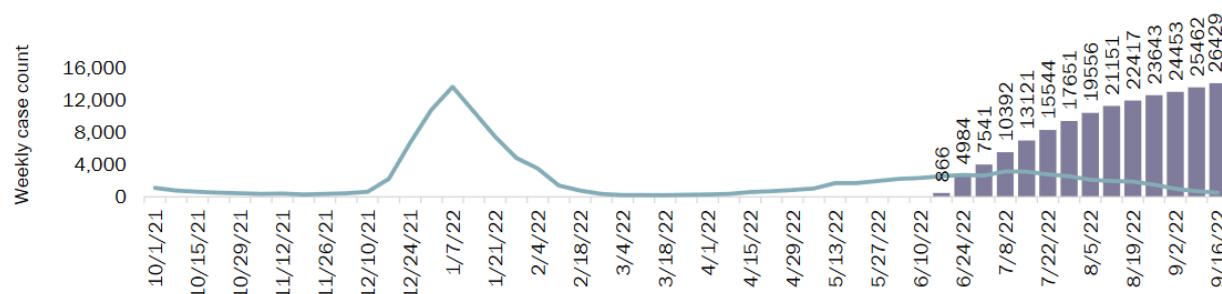
[Tampa Bay Times: Ladapo Tells Congress that Florida Decision Could Limit Kids’ Vaccine Access](#)

[MedPage: Pediatrician Axed for Advocating COVID Vax in Youngest Kids](#)

[MedPage: Youngest Kids Can Get COVID Shots with Other Vaccines](#)

As of September 22nd, 26,429 young children had received their first shot in Florida, 2.5% of that age group. Only 25% of children aged 5–11 and 64% of adolescents had at least one dose:

Ages 6 months to 4 years



COVID-19 Weekly Situation Report: State Overview

Previous week (September 16, 2022 - September 22, 2022)

Published September 23, 2022

All data are provisional and subject to change. Data include only Florida residents.

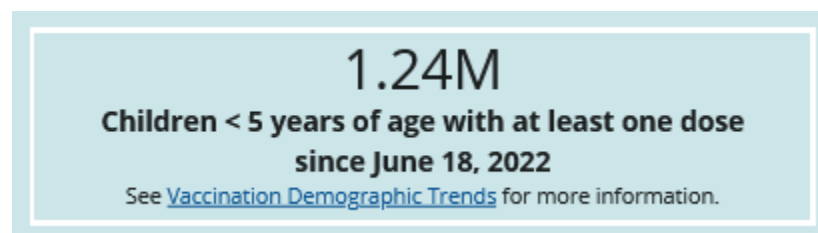


Case data	Previous week	Cumulative	Vaccine data	Previous week (doses administered)	Cumulative (people vaccinated)
Total	17,438	7,106,653	Total	45,139	16,032,216
New case positivity	8.4%	28.9%	First dose	5,402	2,206,064
Deaths	62	81,139	Series completed	4,352	7,812,897
			Additional or booster dose	35,385	6,013,255

See additional notes at the end of this report for information on positivity rate, deaths, and vaccination status.

Vaccine age groups	Population	Vaccinated
Total (6+ months)	22,207,477	72%
6 months-4 years	1,049,999	2.5%
5-11 years	1,709,114	25%
12-19 years	1,982,626	64%
20-29 years	2,735,328	66%
30-39 years	2,857,581	73%
40-49 years	2,690,641	80%
50-59 years	2,944,284	84%
60-64 years	1,482,302	88%
65+ years	4,755,602	94%

Nationwide, 1,240,000 children <5 had received a Covid vaccination by September 22, 2022. That is an increase of 100,000 in two weeks. On September 8th, 8% of children in that age bracket in the US had received a vaccine:



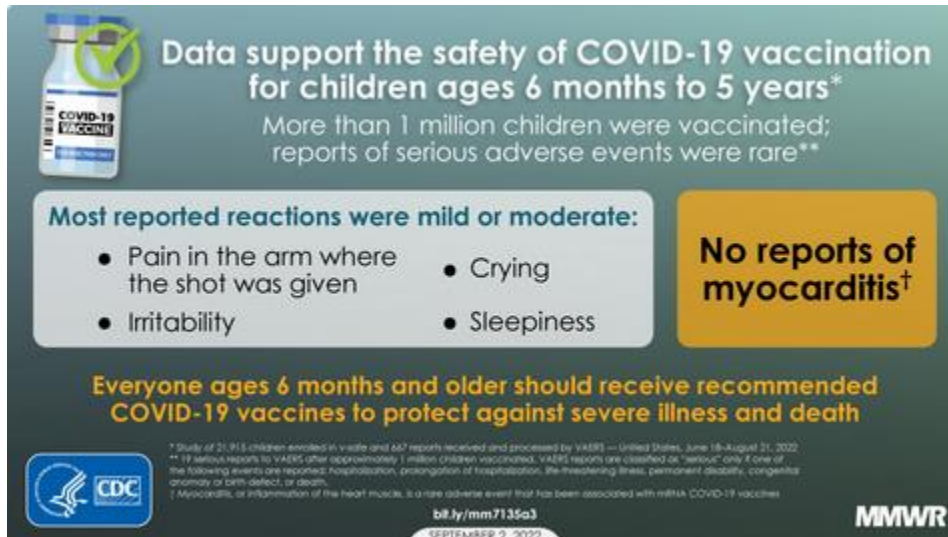
[Salemi USF: COVID-19 in Florida](#)

[CDC: COVID-19 Vaccinations in the United States](#)

[Sept 15, 2022 Florida Covid Stats: What Is Really Happening?](#)

[American Academy of Pediatrics: Summary of Data Publicly Reported by the CDC on 9/14/22](#)

Among the first 1,040,000 children under 5 who received vaccination, symptoms were like those from routine childhood immunizations. No cases of myocarditis occurred. Only 19 experienced severe reactions (0.2%). Four of the children needed hospital care; however, the parents of two of them asserted the medical emergencies were unrelated to the vaccinations. That makes the hospitalization rate 0.0002%:



[MMWR: COVID-19 mRNA Vaccine Safety Among Children Aged 6 Months–5 Years—United States, June 18, 2022–August 21, 2022](#)

For infants too young to receive vaccination, having a mother who received two doses of a vaccine while pregnant reduced hospitalizations by 38% during the omicron wave and 80% during delta. Vaccine efficacy doubled when administered after 20 weeks rather than earlier. The American College of Obstetrics and Gynecology recommends that unvaccinated pregnant women become vaccinated as soon as possible to protect them and their fetuses from significant harm or death.

Pregnant women who received boosters had 4x the antibodies of those with 2 doses. Their newborns had 2x as many antibodies as their mothers.

[MedPage: Newborns' Protection with Moms' COVID Vax Dips During Omicron](#)

[NEJM: Maternal Vaccination and Risk of Hospitalization for Covid-19 among Infants](#)

[ACOG: COVID-19 Vaccines and Pregnancy: A Conversation Guide](#)

[JAMA: COVID-19 mRNA Vaccine Booster During Pregnancy Increases Maternal and Fetal Antibodies](#)

On March 7, 2022, a discussion panel moderated by Governor DeSantis recommended against Covid vaccination for healthy children due to the risk of adolescent males developing myocarditis. The state surgeon general noted that Florida is the only state to make such a declaration.

[Tampa Bay Times: Florida Says Healthy Kids Shouldn't Get COVID Vaccine, Contradicting CDC](#)

At least four researchers cited by the state disagreed with how Florida officials used their work. A pediatrics professor from Vanderbilt University Medical Center who co-authored one of the papers said, "I think there is cherry-picking of sentences to support what (the state) wanted. You don't just pick one sentence from one paper that agrees with what you think you want to say. That's not what a health department is supposed to do."

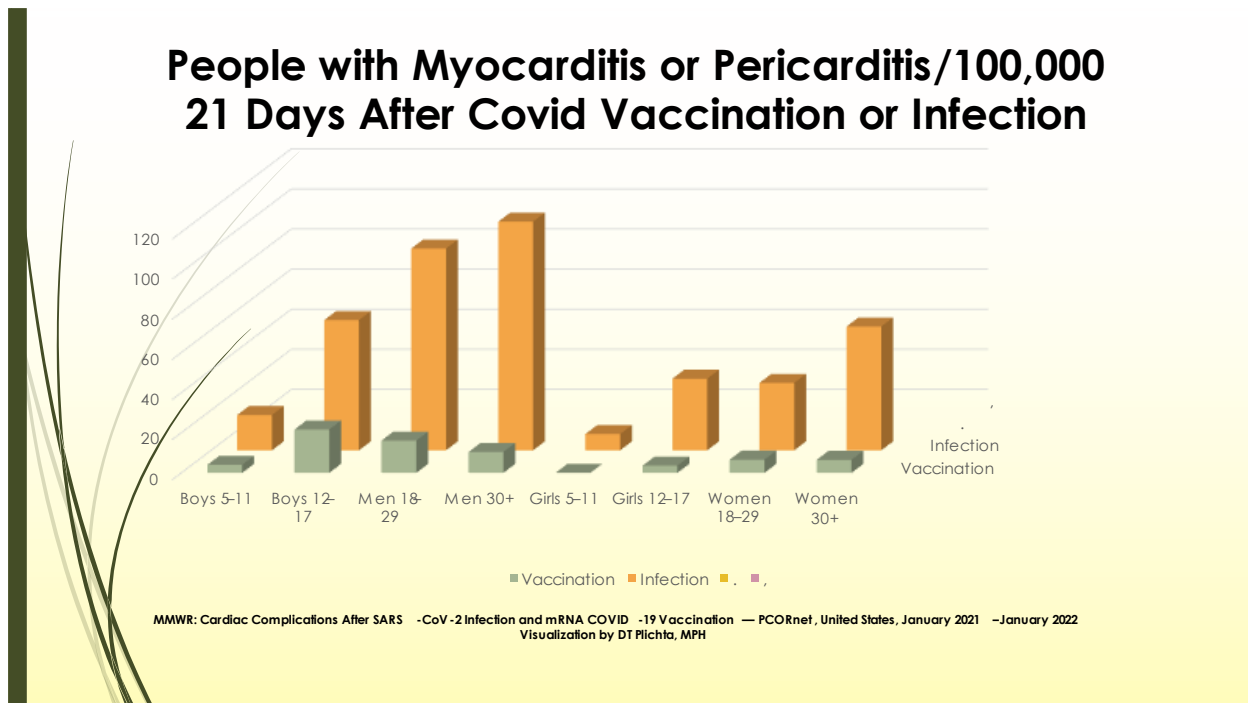
Each of the studies Florida officials cited recommended Covid vaccination for children as safe and effective. Florida health officials omitted that information in their updated guidelines. The researchers asserted that vaccination remains the best way to protect children from severe Covid.

[Tampa Bay Times: COVID Researchers: Florida "Cherry-Picked" Our Work in Kid Vaccine Recommendation](#)

On May 27, 2022, the Florida Department of Health threatened to fine the Special Olympics \$27,500,000 if the organization continued to mandate vaccination for participants in a week-long national tournament. The organization issued a statement saying they would nullify the decree "based upon the Florida Department of Health's interpretation of Florida law."

[Politico: Special Olympics Reverses Vaccine Requirement After Florida Threatens \\$27.5M Fine](#)

In contrast to the myocarditis arising from vaccination, the inflammation resulting from SARS-CoV-2 can cause life-threatening heart conditions in children, adolescents, and adults. A study of 77,000 children found that 5–11-year-old boys were 540% more likely to develop heart inflammation after a Covid infection than after vaccination. No girls of that age who were vaccinated developed myocarditis or pericarditis. Hormones account for the differences in risk between age groups and sexes:



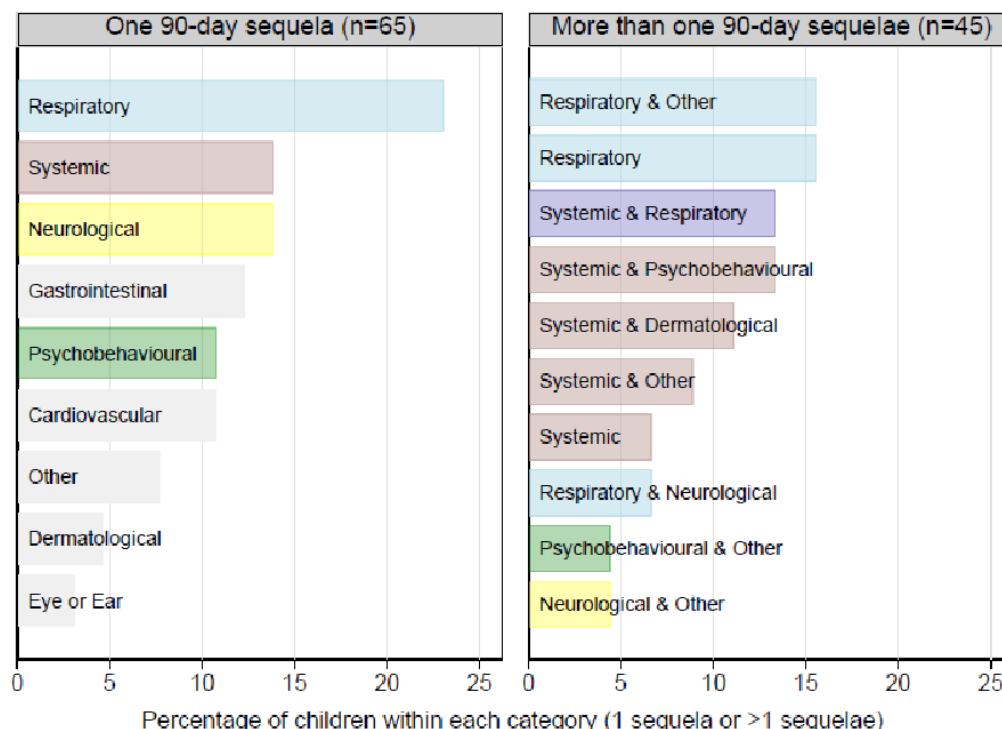
[Circulation: Myocarditis with COVID-19 mRNA Vaccines](#)

[MMWR: Cardiac Complications After SARS-CoV-2 Infection and mRNA COVID-19 Vaccination—PCORnet, United States, January 2021–January 2022](#)

A comparison of children and adolescents who had Covid versus uninfected controls found that 2/3 of the previously infected group had a ¼ reduction in their lung function for up to one year. Forty-one percent had still not recovered after 360 days.

Research examining the health of children 90 days after they tested + in emergency rooms revealed that 6% developed post-Covid health issues. The rate doubled for those with hospital admission (10% vs 5%). Those with at least 4 symptoms and age 14+ were at greatest risk of Long Covid. Respiratory, systemic, neurological, and gastrointestinal issues were the most common symptoms:

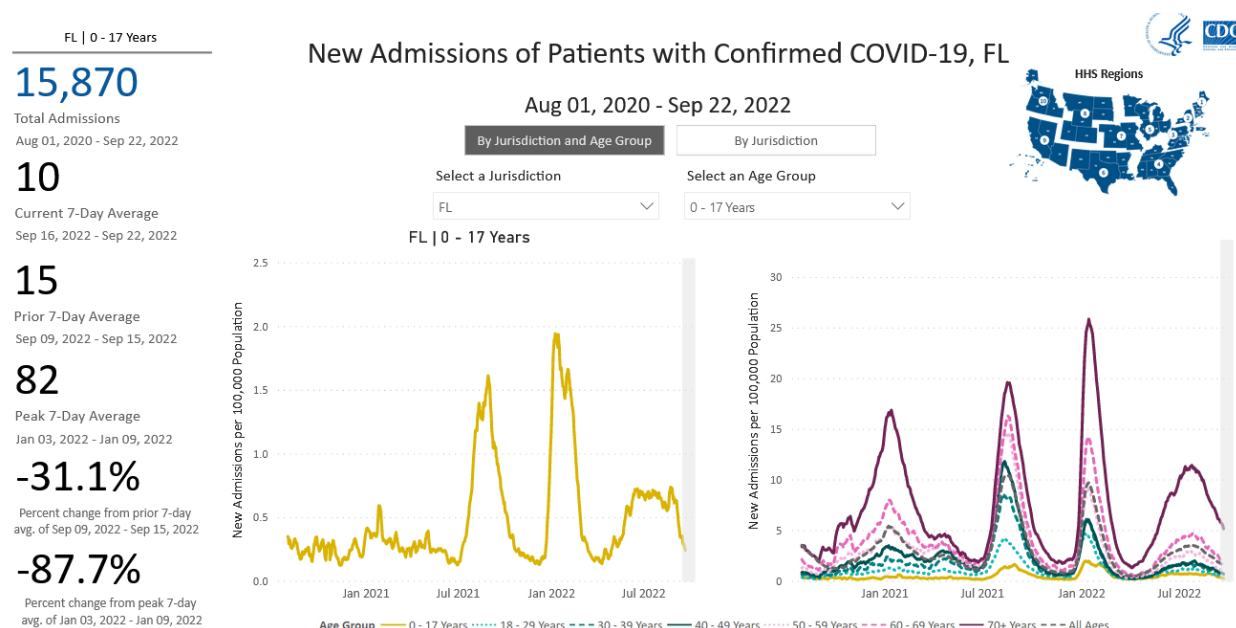
eFigure 1. Types of 90-Day Persistent, New or Recurring Health Problem According to Number of Health Problems Reported Among the 110 SARS-CoV-2-Positive Children Reporting Any Persistent New or Recurring Health Problem



[MedPage: Persistent Pulmonary Dysfunction Seen in Kids with COVID](#)

[JAMA: Post-COVID-19 Conditions Among Children 90 Days After SARS-CoV-2 Infection](#)

Since August 2020, 15,870 minors have required hospitalization for Covid in Florida, with 61 of those in the last week:



[COVID Data Tracker: New Admissions of Patients with Confirmed COVID-19 per 100,000 Population by Age Group](#)

[Sept 15, 2022 Florida Covid Stats: What Is Really Happening?](#)

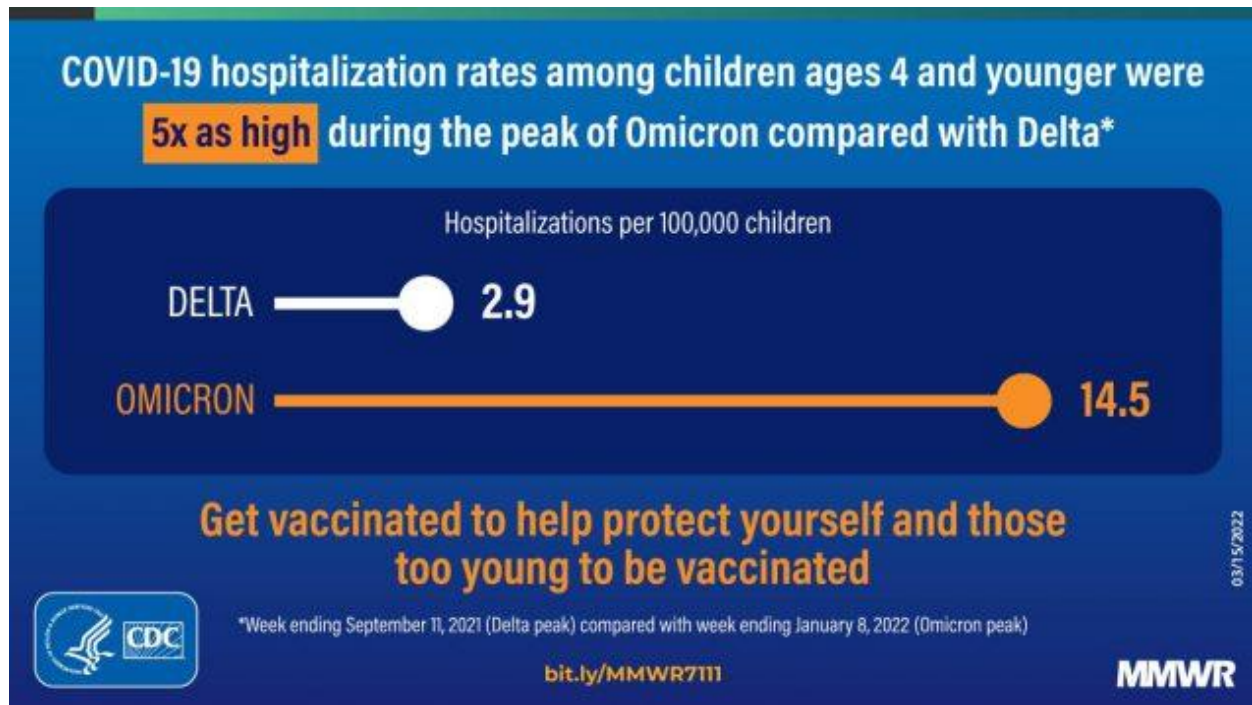
In the US, children are three times as likely to have had severe disease from omicron than from previous variants:



[JAMA: Acute Upper Airway Disease in Children with the Omicron \(B.1.1.529\) Variant of SARS-CoV-2—A Report from the US National COVID Cohort Collaborative](#)

[MMWR: Hospitalizations of Children Aged 5–11 Years with Laboratory-Confirmed COVID-19—COVID-NET, 14 States, March 2020–February 2022](#)

Children <5 years old experienced hospitalization rates 5x greater than during the delta wave:



[MMWR: Hospitalization of Infants and Children Aged 0–4 Years with Laboratory-Confirmed COVID-19—COVID-NET, 14 States, March 2020–February 2022](#)

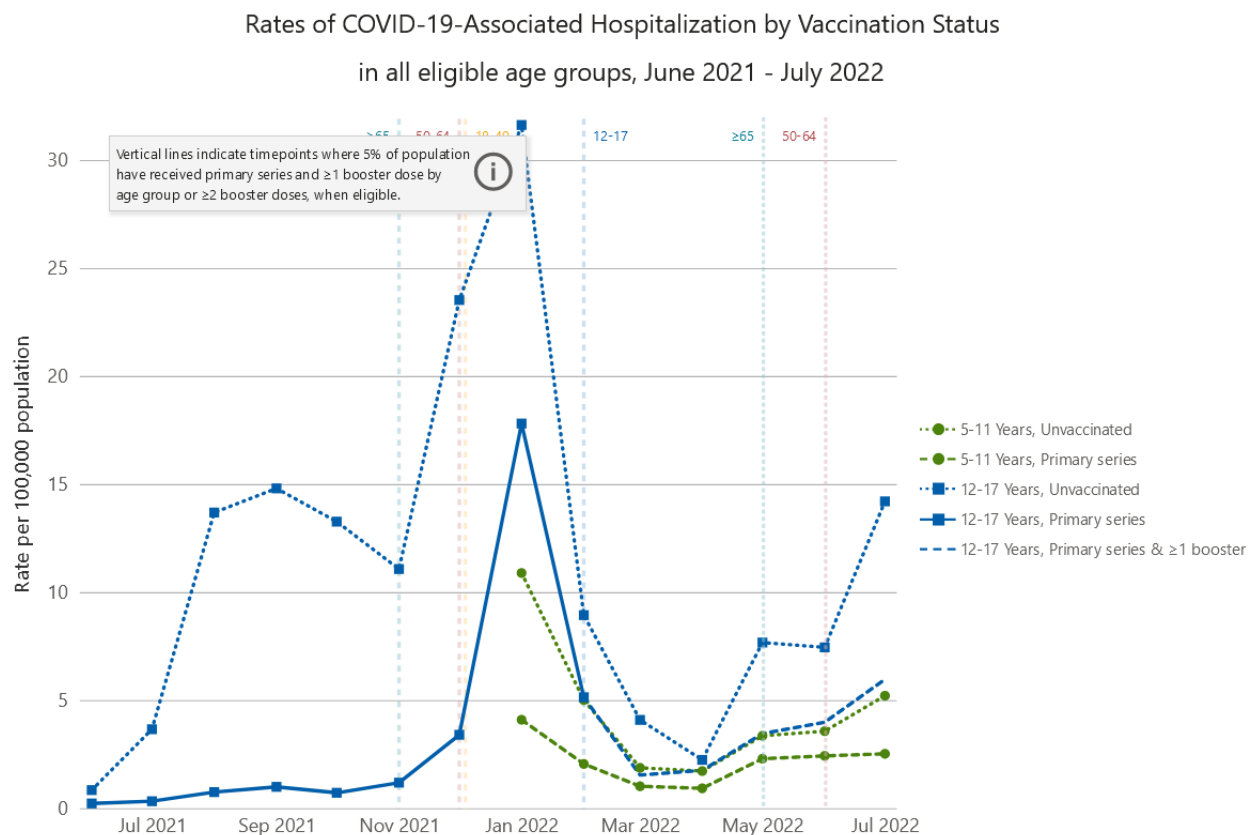
On May 17, 2022, the FDA approved a booster shot of the Pfizer vaccine for children aged 5–11. The CDC recommends using only the original formulation—not the one developed against omicron variants—for that age group:

What You Need to Know

- CDC recommends everyone stay up to date with COVID-19 vaccination, including all primary series doses and boosters for their age group:
 - People ages **6 months through 4 years** should get all COVID-19 primary series doses.
 - People ages **5 years and older** should get all primary series doses, and the booster dose recommended for them by CDC, if eligible.
 - People ages **5 years to 11 years** are currently recommended to get the **original (monovalent) booster**.
 - People ages **12 years and older** are recommended to receive one **updated Pfizer or Moderna (bivalent) booster**.
 - This includes people who have received all primary series doses and people who have previously received one or more original (monovalent) boosters.
 - At this time, people aged **12 years to 17 years** can only receive the **updated Pfizer bivalent booster**.
- Getting a COVID-19 vaccine after you recover from COVID-19 infection provides added protection against COVID-19.
- People who are moderately or severely immunocompromised have [different recommendations for COVID-19 vaccines](#), including boosters.
- [COVID-19 vaccine and booster recommendations](#) may be updated as CDC continues to monitor the latest data.

[CDC: Stay Up to Date with COVID-19 Vaccines Including Boosters](#)

During July 2022 in the US, unvaccinated children aged 5–11 were 106% more likely to need hospital admission than their peers with a primary vaccine series. Vaccination prevented 52% of hospitalizations in that age group. Unvaccinated teens (12–17) were 138% more likely to require inpatient hospital care than boosted teens. A booster prevented 58% of hospitalizations:



[MedPage: FDA Authorizes COVID Booster for Younger Kids—Agency Cites Concern over Omicron, Long Covid in Its Reasoning](#)

[CDC: Rates of Laboratory-Confirmed COVID-19 Hospitalizations by Vaccination Status](#)

Sixty-three Floridians <15 have died, including an infant in the last week. Many of the survivors have subsequently developed serious health conditions, like diabetes. While children are at lower risk than adults, throughout the US, Covid was one of the top ten causes of death in those aged 0–19 during January 2021 through March 2022:

Age-Specific COVID-19 Mortality Rates by State

Age groups are <1 year, 1-4 years, and then 10-year age groups

Can filter to any combination of years, age groups, and states

State	Age Group	State Rank (1=best)	Population	Covid 19 Deaths	% of C19 Deaths in Age Group	C19 Deaths Per100K (state)	C19 Deaths Per100K (nation)	Mortality Rate Ratio
Florida	< 1 year	38	219,558	20	0.6	9.1	9.5	0.96
	1-4 years	44	915,447	12	1.6	1.3	1.2	1.09
	5-14 years	45	2,390,568	31	3.2	1.3	1.0	1.33
	15-24 years	42	2,466,792	220	3.6	8.9	6.6	1.35
	25-34 years	40	2,818,471	881	6.1	31.3	25.3	1.23
	35-44 years	39	2,649,160	2,188	10.2	82.6	68.2	1.21
	45-54 years	35	2,692,803	4,945	13.5	183.6	169.9	1.08
	55-64 years	30	2,942,419	10,706	12.5	363.9	358.3	1.02
	65-74 years	23	2,539,576	16,645	12.4	655.4	735.3	0.89
	75-84 years	11	1,502,209	20,185	11.7	1,343.7	1,652.9	0.81
	85+ years	9	596,309	19,203	9.5	3,220.3	4,127.5	0.78

September 22, 2022

Age-specific rank of COVID-19 deaths among leading causes of death in the U.S., January 2021 - January 2022

Ages	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
January 2021	6	4	3	2	1	1	1	1	1
February	7	5	5	4	3	3	2	2	2
March	9	6	6	5	4	3	3	3	5
April	7	6	6	5	4	3	3	3	5
May	9	6	6	5	4	3	3	5	6
June	11	7	7	7	4	4	6	7	9
July	7	5	6	4	4	4	4	6	7
August	5	4	2	1	1	1	3	3	3
September	5	4	2	1	1	1	1	3	2
October	6	4	2	2	1	2	3	3	3
November	7	4	4	2	1	3	3	3	4
December	6	4	2	2	1	2	3	3	3
January 2022	4	4	2	2	1	1	1	1	2

Note: COVID-19 deaths in each month are compared to monthly average deaths for other leading causes in the first half of 2021 or the most recent year available.

Source: KFF analysis of CDC Provisional data, CDC Wonder data, and KFF COVID-19 Tracker data • [Get the data](#) • [PNG](#)

Peterson-KFF
Health System Tracker

[Tampa Bay Times: The CDC Says Kids Should Get the COVID Vaccine—Despite Florida](#)

[Salemi USF: Covid Deaths by State](#)

[Peterson-KFF: COVID-19 Leading Cause of Death Ranking](#)

[MedRxiv: Covid-19 Is a Leading Cause of Death in Children and Young People Ages 0–19 Years in the United States](#)

According to the CDC, as of September 22, 2022, 68% of people in Florida had at least completed a vaccine series. 840,000 of the increase compared to the Florida Department of Health's September 22nd data is attributed to including federal personnel stationed in Florida whom the state does not count:

Vaccinations in Florida

People Vaccinated	At Least One Dose	Fully Vaccinated
Total	17,420,313	14,682,192
% of Total Population	81.1%	68.4%
Population ≥ 5 Years of Age	17,384,591	14,671,570
% of Population ≥ 5 Years of Age	85.5%	72.1%
Population ≥ 12 Years of Age	16,933,292	14,312,678
% of Population ≥ 12 Years of Age	90.6%	76.6%
Population ≥ 18 Years of Age	15,941,448	13,487,599
% of Population ≥ 18 Years of Age	92.4%	78.2%
Population ≥ 65 Years of Age	4,859,856	4,168,016
% of Population ≥ 65 Years of Age	95%	92.7%

COVID-19 Weekly Situation Report: State Overview

Previous week (September 16, 2022 - September 22, 2022)

Published September 23, 2022

All data are provisional and subject to change. Data include only Florida residents.



Case data	Previous week	Cumulative	Vaccine data	Previous week (doses administered)	Cumulative (people vaccinated)
Total	17,438	7,106,653	Total	45,139	16,032,216
New case positivity	8.4%	28.9%	First dose	5,402	2,206,064
Deaths	62	81,139	Series completed	4,352	7,812,897
			Additional or booster dose	35,385	6,013,255

Based upon CDC data, 28% of permanent Florida residents and snowbirds have received a booster shot:

People with a First Booster Dose †	Boosters
Total	6,252,270
% of Fully Vaccinated Population with a First Booster Dose	42.6%
Fully Vaccinated Population ≥ 5 Years of Age with a First Booster Dose	6,252,138
% of Fully Vaccinated Population ≥ 5 Years of Age with a First Booster Dose	42.6%
Fully Vaccinated Population ≥ 12 Years of Age with a First Booster Dose	6,220,749
% of Fully Vaccinated Population ≥ 12 Years of Age with a First Booster Dose	43.5%
Fully Vaccinated Population ≥ 18 Years of Age with a First Booster Dose	6,058,003
% of Fully Vaccinated Population ≥ 18 Years of Age with a First Booster Dose	44.9%
Fully Vaccinated Population ≥ 65 Years of Age with a First Booster Dose	2,690,720
% of Fully Vaccinated Population ≥ 65 Years of Age with a First Booster Dose	64.6%

COVID-19 Weekly Situation Report: County Overview

Previous week (September 16, 2022 - September 22, 2022)



County	2022 population	Cumulative (since March 1, 2020)				Previous week (September 16, 2022 - September 22, 2022)			
		People 6+ months old vaccinated	Percent of 6+ months old vaccinated	Cases	Case positivity	People 6+ months old vaccinated	Cases	New case positivity	Cases per 100,000 population
Florida	22,324,144	16,032,216	72%	7,106,653	28.9%	5,402	17,438	8.4%	78.1

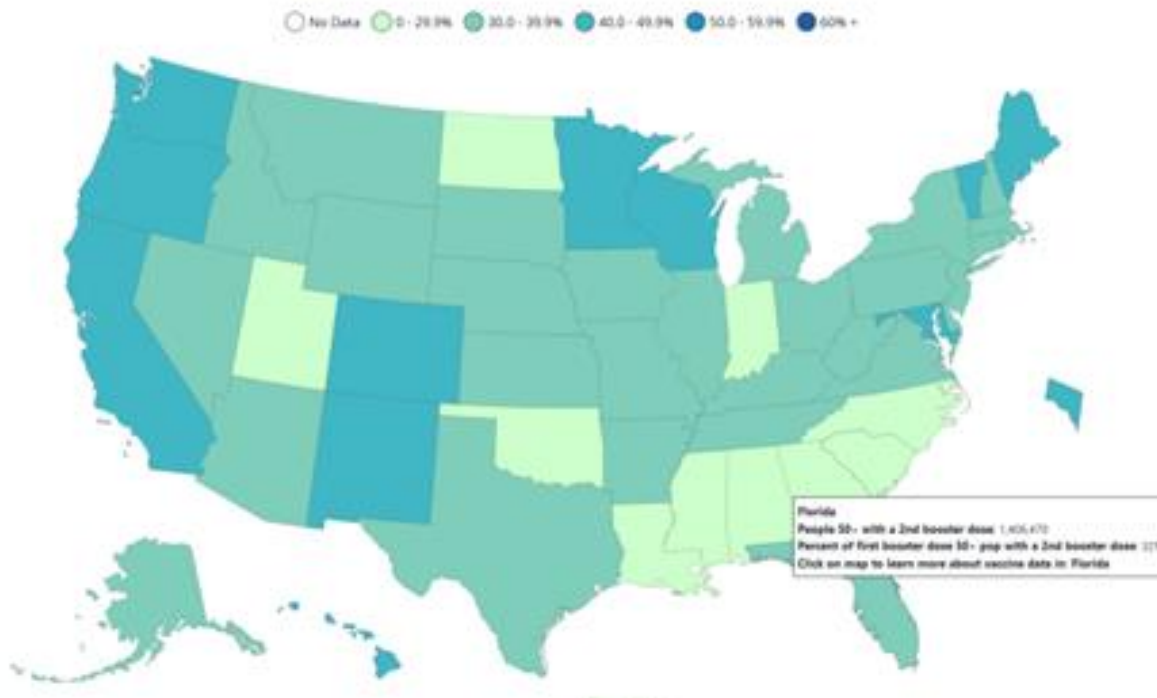
[CDC: Integrated County View Florida](#)

[Palm Beach Post: COVID-19 in Florida: Wave Appears to Be Flattening with New Infections, Hospitalizations Holding Steady](#)

[Salemi USF: COVID-19 in Florida](#)

As of September 22, 2022, 1,406,470 people in Florida had a second booster shot. That amounts to 32% of those 50+ who had previously received a first booster and 6% of the total population:

Percent of the Population Population 50 Years of Age and Older with a First Booster Dose that Received a Second Booster Dose Reported to CDC by Jurisdictions and Select Federal Entities



[CDC: Percent of People with a First Booster Dose Who Received a Second Booster Dose Reported to the CDC by State/Territory for the Population 50 Years of Age and Older](#)

Note that the segments of the population with the highest percentage of boosted individuals also have lower than expected death rates compared to the national averages. Vaccinated individuals who get infected have less than half the risk of a heart attack or stroke due to narrowed arteries:

People with a First Booster Dose †	Boosters
Total	6,252,270
% of Fully Vaccinated Population with a First Booster Dose	42.6%
Fully Vaccinated Population ≥ 5 Years of Age with a First Booster Dose	6,252,138
% of Fully Vaccinated Population ≥ 5 Years of Age with a First Booster Dose	42.6%
Fully Vaccinated Population ≥ 12 Years of Age with a First Booster Dose	6,220,749
% of Fully Vaccinated Population ≥ 12 Years of Age with a First Booster Dose	43.5%
Fully Vaccinated Population ≥ 18 Years of Age with a First Booster Dose	6,058,003
% of Fully Vaccinated Population ≥ 18 Years of Age with a First Booster Dose	44.9%
Fully Vaccinated Population ≥ 65 Years of Age with a First Booster Dose	2,690,720
% of Fully Vaccinated Population ≥ 65 Years of Age with a First Booster Dose	64.6%

Age-Specific COVID-19 Mortality Rates by State

Age groups are <1 year, 1-4 years, and then 10-year age groups

Can filter to any combination of years, age groups, and states

State	Age Group	State Rank (1=best)	Population	Covid 19 Deaths	% of C19 Deaths in Age Group	C19 Deaths Per100K (state)	C19 Deaths Per100K (nation)	Mortality Rate Ratio
Florida	< 1 year	38	219,558	20	0.6	9.1	9.5	0.96
	1-4 years	44	915,447	12	1.6	1.3	1.2	1.09
	5-14 years	45	2,390,568	31	3.2	1.3	1.0	1.33
	15-24 years	42	2,466,792	220	3.6	8.9	6.6	1.35
	25-34 years	40	2,818,471	881	6.1	31.3	25.3	1.23
	35-44 years	39	2,649,160	2,188	10.2	82.6	68.2	1.21
	45-54 years	35	2,692,803	4,945	13.5	183.6	169.9	1.08
	55-64 years	30	2,942,419	10,706	12.5	363.9	358.3	1.02
	65-74 years	23	2,539,576	16,645	12.4	655.4	735.3	0.89
	75-84 years	11	1,502,209	20,185	11.7	1,343.7	1,652.9	0.81
	85+ years	9	596,309	19,203	9.5	3,220.3	4,127.5	0.78

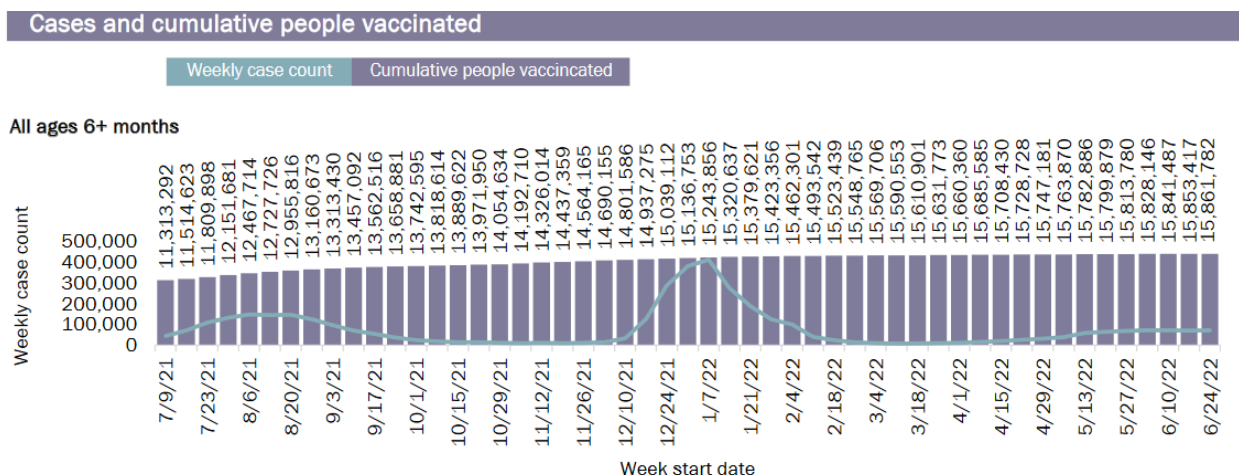
September 22, 2022

[CDC: Integrated County View Florida](#)[Salemi USF: Covid Deaths by State](#)[MedPage: Vaccinated Have Lower Heart, Stroke Risk from COVID](#)

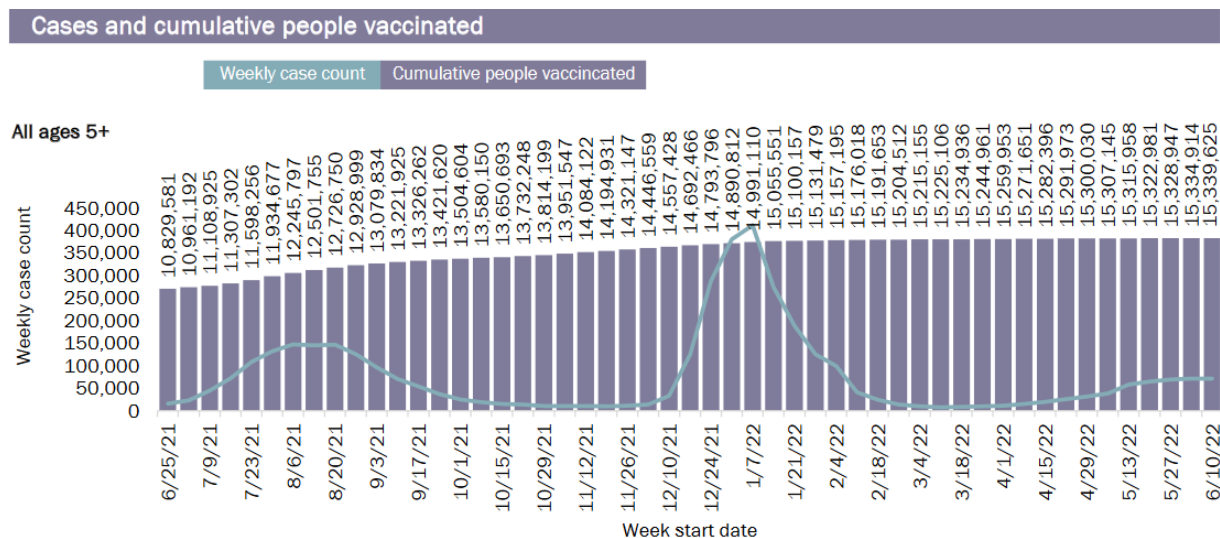
On March 25, 2022, USA Today reported that over 600,000 snowbirds had been included in Florida's official vaccination tally. That happened in over 100 zip codes. Many "vaccine tourists" were in Miami-Dade County. For cases and deaths in the state, Florida counts only permanent residents.

[USA Today: Florida Overcounts Vaccinations by 600,000 People. Snowbirds Responsible, Analysis Shows](#)

This is from the June 30th report. For the week beginning on June 10th, about 15,841,000 people had at least one shot:



And this is from the June 16th report. For the week beginning on June 10th, about 15,340,000 people had at least one shot. That is a difference of about 500,000 people for the same date:



[June 30, 2022 Florida Covid Stats: What Is Really Happening?](#)

[June 16, 2022 Florida Covid Stats: What Is Really Happening?](#)

The spokesman for the Florida Department of Health offered no explanation other than “Please read the last page of the report.” According to that section, the population is based upon the number of Floridians at least 5 years old, a statement which contradicts the portion above which discusses how they derived the number of infants to include. It is also identical to the Vaccination Notes from the previous report:

Vaccination notes

Data in this summary pertain to COVID-19 vaccines approved by the U.S. Food and Drug Administration (FDA) or have been issued an Emergency Use Authorization (Janssen COVID-19 Vaccine, Moderna COVID-19 Vaccine and Pfizer-BioNTech COVID-19 Vaccine) by the FDA. These data summarize the number of people who have received either their first dose or have completed their primary series for a COVID-19 vaccine. A person can only be counted in one category, first dose, series complete or additional or booster dose. For persons receiving Moderna or Pfizer vaccines, once they receive their second dose, they are moved from the first dose column to the series completed column. Once a person receives their additional or booster dose, they are moved from the series completed column to the additional or booster dose column. Because of this, the total in each category may show a change from report to report not matching the totals from the previous week. Persons receiving Johnson & Johnson vaccines are not counted in the first dose category. The age group table displays the current percentage of people in an age group who have received at least one dose of the Moderna or Pfizer doses or one Johnson & Johnson dose. The total line is the current percentage of the eligible population (ages 5+).

Persons are considered vaccinated in this report if they have received at least the first dose of a two-dose series or one dose of a single-dose series.

First dose: current number of people who have only received their first dose of the Moderna or Pfizer vaccine.

Series complete: current number of people who have received both Moderna or Pfizer vaccine doses or one Johnson & Johnson dose and are considered to have their primary vaccination series completed.

Additional or booster dose: current number of people who received their additional dose of Pfizer or Moderna COVID-19 vaccine or their booster dose of Janssen COVID-19, Pfizer or Moderna COVID-19 vaccine following their primary vaccination series completion. Additional doses are indicated for individuals who may not build the same level of immunity to two-dose vaccine series compared to people who are not immunocompromised. Booster doses are recommended to counteract waning immunity.

[June 30, 2022 Florida Covid Stats: What Is Really Happening?](#)

[Palm Beach Post: Florida's COVID-19 Vaccination Count Jumps 263,000 in Two Weeks. DeSantis Officials Won't Say Why](#)

[June 23, 2022 Florida Covid Stats: What Is Really Happening?](#)

A review of fifteen studies concerning vaccination and the conglomeration of symptoms known as “long Covid” found a significantly reduced rate in those who were vaccinated before getting infected. Post-viral vaccination reduced or eliminated symptoms in up to 30% of long Covid sufferers. However, symptoms did worsen on occasion after vaccination.

[UK Health Security: The Effectiveness of Vaccination Against Long Covid](#)

Mixing vaccine types for a booster shot will give you the best protection because they stimulate different parts of your immune system. If you had at least 2 Moderna, I recommend getting a Pfizer and vice versa. Children aged 5–11 are restricted to the booster without the omicron component, while those aged 12–17 are limited to the one with it. The CDC recommends using the same vaccine for the first two doses:

What You Need to Know

- CDC recommends everyone stay up to date with COVID-19 vaccination, including all primary series doses and boosters for their age group:
 - People ages **6 months through 4 years** should get all COVID-19 primary series doses.
 - People ages **5 years and older** should get all primary series doses, and the booster dose recommended for them by CDC, if eligible.
 - People ages **5 years to 11 years** are currently recommended to get the **original (monovalent) booster**.
 - People ages **12 years and older** are recommended to receive one **updated Pfizer or Moderna (bivalent) booster**.
 - This includes people who have received all primary series doses and people who have previously received one or more original (monovalent) boosters.
 - At this time, people aged **12 years to 17 years** can only receive the **updated Pfizer bivalent booster**.
- Getting a COVID-19 vaccine after you recover from COVID-19 infection provides added protection against COVID-19.
- People who are moderately or severely immunocompromised have [different recommendations for COVID-19 vaccines](#), including boosters.
- [COVID-19 vaccine and booster recommendations](#) may be updated as CDC continues to monitor the latest data.

[Ars Technica: Pfizer, Moderna Vaccines Aren't the Same; Study Finds Antibody Differences: The Findings Add Further Weight to the Idea of Mix-and-Match Boosting](#)

[CDC: Stay Up to Date with COVID-19 Vaccines Including Boosters](#)

[CDC: Interchangeability of COVID-19 Vaccine Products](#)

On May 24th, the CDC added approval for a fifth shot for people 12+ with moderate to severe immunocompromisation. The agency previously approved a second booster shot of the Moderna or Pfizer vaccine for all adults aged 50+.

People on Medicare can receive an additional booster shot at no cost. During the initial omicron wave in Israel, a second booster prevented 64% of hospitalizations and 72% of Covid deaths among nursing home residents compared to those who received only a first booster.

[CDC: CDC Strengthens Recommendations and Expands Eligibility for COVID-19 Booster Shots](#)

[CDC: COVID-19 Vaccines for People Who Are Moderately or Severely Immunocompromised](#)

[Medicare: Coronavirus Disease 2019 \(COVID-19\) Vaccine](#)

[CDC: COVID-19 Vaccine Boosters](#)

[MedPage: Second COVID Booster Protected Seniors in Long-Term Care](#)

Research involving breakthrough omicron infections indicates the number of viral particles is significantly lower in people who have had booster shots. People with two doses carried the same amount of virus as unvaccinated people.

[Nature: Infectious Viral Load in Unvaccinated and Vaccinated Individuals Infected with Ancestral, Delta or Omicron SARS-CoV-2](#)

The CDC has removed hospitalization information for adults who received only a primary series, backdated to December 2021. This data compares people with at least one booster to those who remain unvaccinated. You can click on the link to see the charts. During July 2022, boosters prevented 72% of hospitalizations among people aged 18–49; 76% for ages 50–64; and 82% for senior citizens:

In July 2022, compared to people who are up to date with COVID-19 vaccination, monthly rates of COVID-19-associated hospitalizations were **4.8x Higher in Unvaccinated Adults Ages 18 Years and Older.**

2.1x Higher
in Unvaccinated Children
Ages 5-11 Years

2.4x Higher
in Unvaccinated Adolescents
Ages 12-17 Years

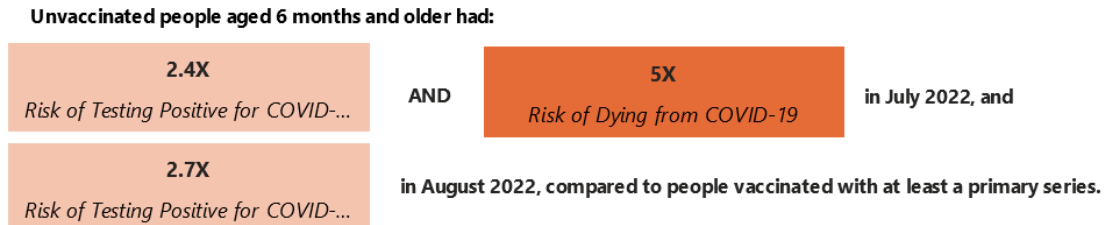
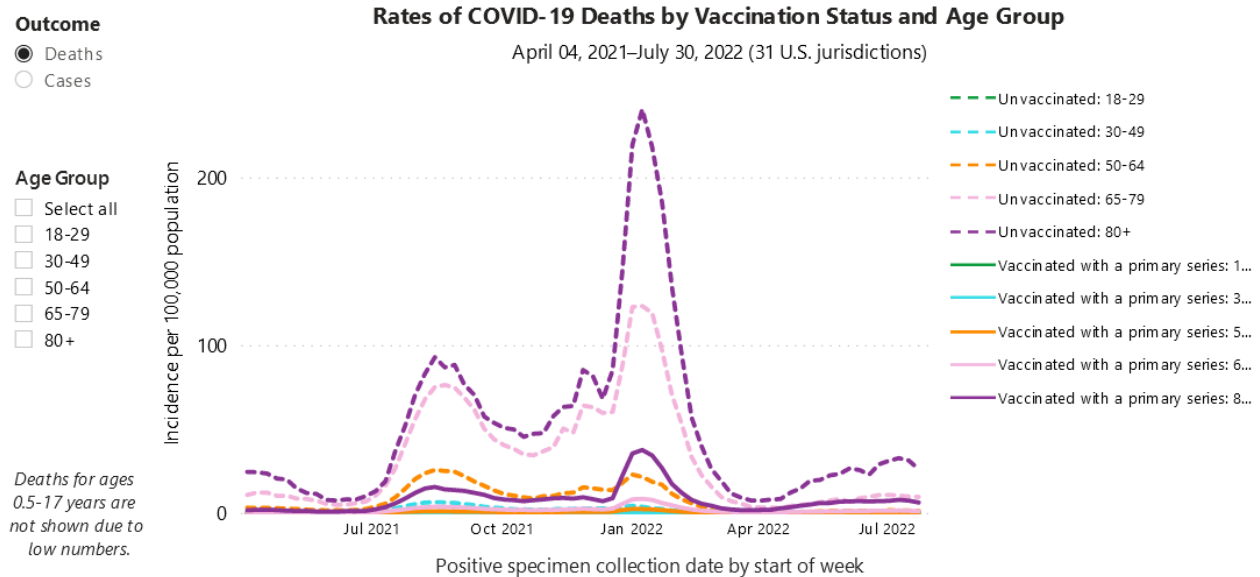
3.5x Higher
in Unvaccinated Adults
Ages 18-49 Years

4.2x Higher
in Unvaccinated Adults
Ages 50-64 Years

5.7x Higher
in Unvaccinated Adults
Ages 65 Years and Older

[CDC: Rates of Laboratory-Confirmed COVID-19 Hospitalizations by Vaccination Status](#)

The risk of death among unvaccinated people and those with a primary series during the week of July 24–30, 2022, is as follows:

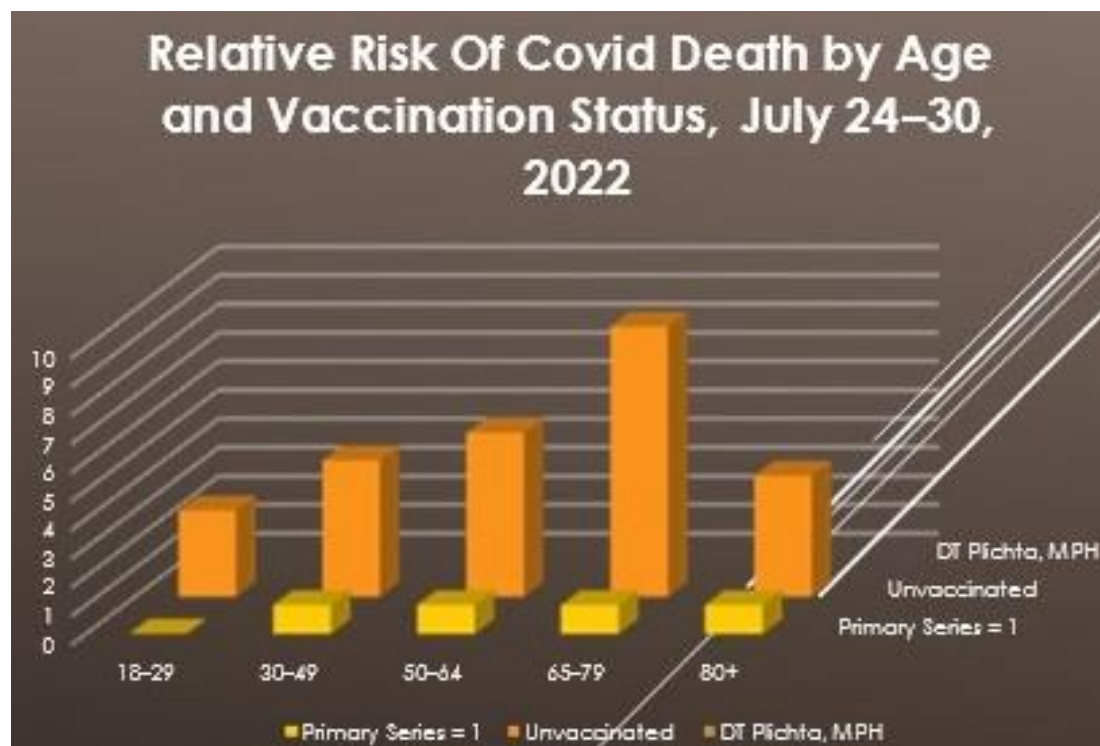


Source: CDC COVID-19 Response, Epidemiology Task Force, Surveillance & Analytics Team, Vaccine Breakthrough

Here is another way to visualize that data by making the risk of death after receiving a primary series = 1 and comparing the death rates for unvaccinated people to the vaccinated. Unvaccinated senior citizens under the age of 80 were over 9x more likely to die than their vaccinated peers:

Relative Risk of Death by Age and Vaccination Status

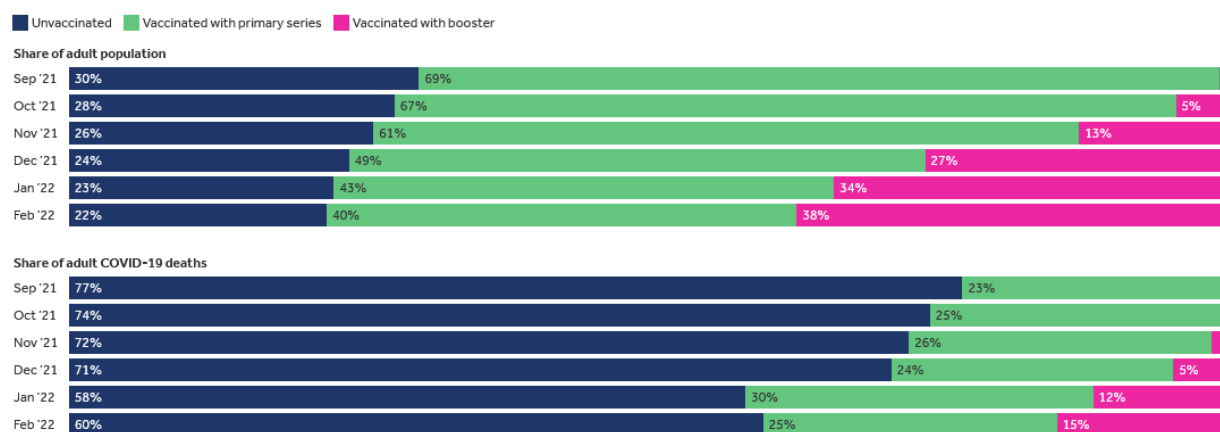
Age	Primary Series	Unvaccinated
18-29	0	3
30-49	1	4.75
50-64	1	5.71
65-79	1	9.41
80+	1	4.21



[CDC: Rates of COVID-19 Cases and Deaths by Vaccination Status](#)

This graphic depicts the vaccination status of the US adult population compared to the death rates during September 2021–February 2022:

Share of adult population and adult COVID-19 deaths by vaccination status, 23 jurisdictions in the U.S., September 2021 to February 2022



Note: Partially vaccinated people are excluded from this CDC data source. Share of adult population by vaccination status is for the end of each month.

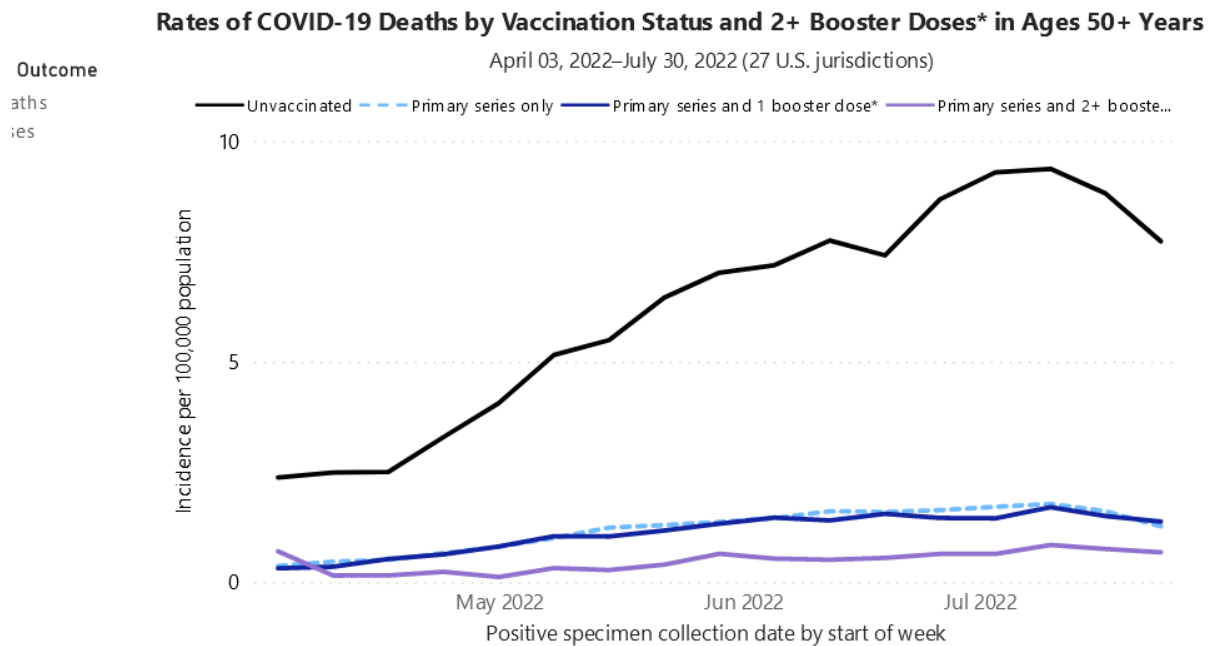
Source: KFF analysis of CDC data • [Get the data](#) • [PNG](#)

Peterson-KFF
Health System Tracker

[Peterson-KFF: COVID-19 Mortality Preventable by Vaccines](#)

A second booster in people 50+ makes an enormous difference in the risk of dying from Covid. During July 24–30, 2022, having at least 2 boosters prevented 91% of deaths; 1 booster

prevented 82% of deaths; and a primary series prevented 84% of deaths compared to unvaccinated individuals (7/10.730,000):



In July 2022, among people ages 50 years and older, unvaccinated people had:

12X

Risk of Dying from COVID-19

compared to people vaccinated with a primary series and two or more booster doses.*

Among people ages 50 years and older, vaccinated people with a primary series and one booster dose had:

2X

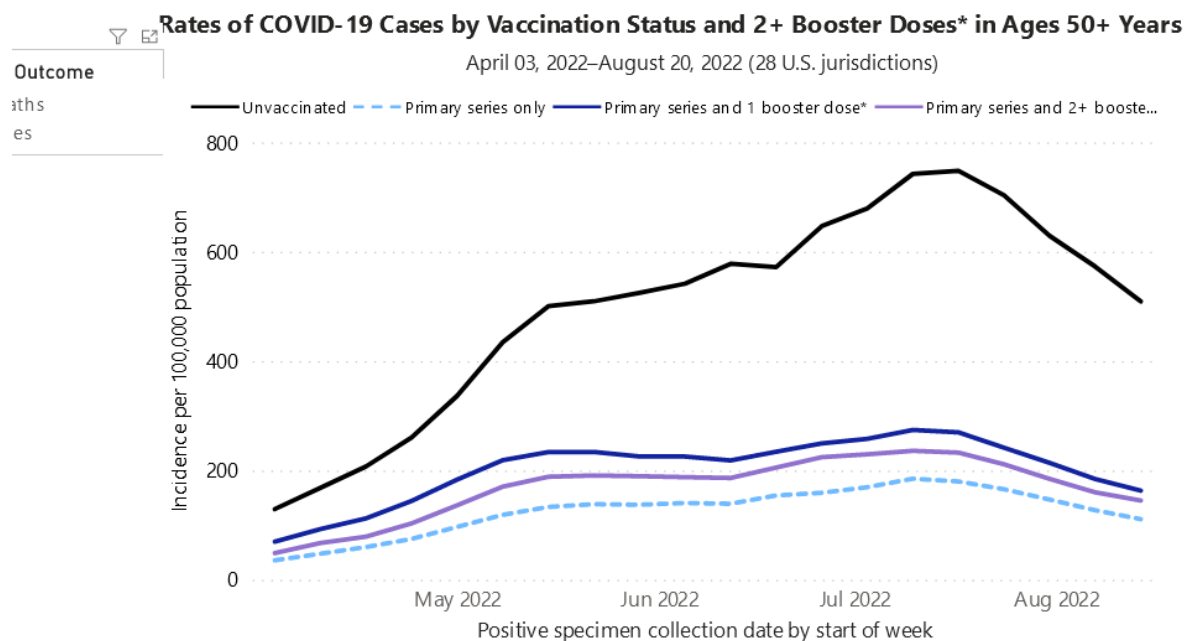
Risk of Dying from COVID-19

compared to people vaccinated with a primary series and two or more booster doses.*

Source: CDC COVID-19 Response, Epidemiology Task Force, Surveillance & Analytics Team, Vaccine Breakthrough

[CDC: Rates of COVID-19 Deaths by Vaccination Status and 2+ booster Doses in Ages 50+ Years](#)

As we are currently seeing in the US, a second booster of the original vaccines is much less effective at preventing infections than hospitalizations or deaths. For people 50+ during August 14–20, 2022, having at least 2 boosters prevented 72% of infections; 1 booster prevented 68% of infections; and a primary series prevented 90% of infections compared to the rate in unvaccinated people:



In July 2022, among people ages 50 years and older, unvaccinated people had:

12X

Risk of Dying from COVID-19

compared to people vaccinated with a primary series and two or more booster doses.*

Among people ages 50 years and older, vaccinated people with a primary series and one booster dose had:

2X

Risk of Dying from COVID-19

compared to people vaccinated with a primary series and two or more booster doses.*

Source: CDC COVID-19 Response, Epidemiology Task Force, Surveillance & Analytics Team, Vaccine Breakthrough

[CDC: Rates of COVID-19 Cases by Vaccination Status and 2+ Booster Doses in Ages 50+ Years](#)

On January 14, 2022, Governor DeSantis's office announced it would not enforce the federal government's vaccine mandate for healthcare workers. The US Supreme Court upheld the requirement for all healthcare facilities which receive federal funds on the 13th.

On January 19th, the Florida Department of Health placed the epidemiologist who led Orange County's pandemic response on administrative leave. The state considered charging him with a criminal offense for sending an email chiding the county's public health employees for their 40% vaccination rate. That suspension ended on March 22, 2022.

A day later, Governor DeSantis promoted a conspiracy theory by asserting that many nurses are avoiding vaccination because "they're trying to have families." Numerous studies confirm that vaccination does not cause infertility; in fact, getting Covid can reduce male fertility.

[Becker's Hospital Review: DeSantis Casts aside CMS Vaccine Rule for Hospitals](#)

[BBC: Top Florida Health Official on Leave over Support for Vaccination](#)

[Physicians Society Central FL: Orange's State Health officer Raul Pino Reinstated After Leave over Vaccine E-mail](#)

[Twitter: DeSantis Pushes Infertility Conspiracy](#)

[Covid-19: The Omicron Variant](#)

[MedPage: Sexual Dysfunction, Hair Loss Among Long COVID Symptoms](#)

[Nature Medicine: Symptoms and Risk Factors for Long COVID in Non-hospitalized Adults](#)

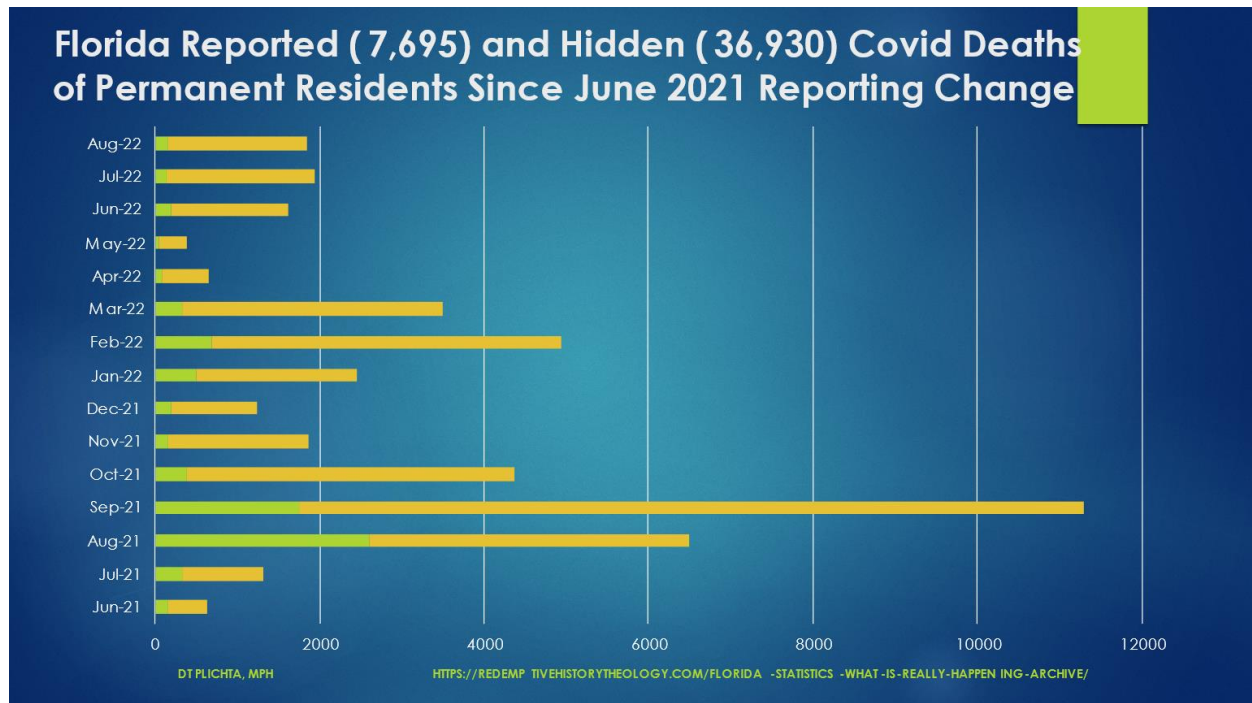
Covid Deaths in Florida:

On June 6, 2022, a report from the Florida Auditor General revealed that the state omitted approximately 3,000 Covid deaths from official reporting during March–October 2020. The Tampa Bay Times article includes a link to the audit. Those deaths are still not reflected in the official state report or in the chart below. The Department of Health responded that having Covid listed on a death certificate is not sufficient to count that as a Covid death, so the state will not amend the cumulative death statistic.

[Tampa Bay Times: Florida's Health Department Undercounted COVID Cases and Deaths, State Audit Says](#)

[Palm Beach Post: Florida Leads Nation in New COVID Deaths, CDC Data Shows](#)

During June 2021–August 2022, Florida reported only 7,695 of the 44,625 Covid deaths among permanent residents as “New Deaths” (17%). In August 2022, cumulative data indicated there were 1,845 Covid deaths among permanent Florida residents, a 5% decrease from July (1,940). Only 151 were counted as “New Deaths” (8%):



[Florida Covid Statistics: What is Really Happening?](#)

Despite making national news for the state government's attempt to cover up the number of deaths, nothing has changed in the Florida Department of Health's methodology.

[The Hill: Florida Reported 'Artificial Decline' in COVID-19 Deaths as Cases Were Surging](#)

On June 4, 2021, the state removed all data from anyone who has not established permanent residency. It stopped reporting information from visitors, seasonal residents, and migrant workers. This deleted 744 deaths. I can no longer access this file, as my browser deems it a security risk:

COVID-19: summary of cases and monitoring
Data through Jun 2, 2021, verified as of Jun 3, 2021 at 09:25 AM
Data in this report are provisional and subject to change.

Cases: people with positive PCR or antigen test result		Cases: people with positive PCR or antigen test result	
Total cases	2,329,867	Risk factors for Florida residents	
Florida residents	2,286,332	Traveled	18,931
Non-Florida residents	43,535	Contact with a known case	920,896
Type of testing		Traveled and contact with a known case	24,985
Florida residents	2,286,332	Neither	1,321,520
Positive by BPHL/CDC	83,364	No travel and no contact	280,411
Positive by commercial/hospital lab	2,202,968	Travel is unknown	733,532
PCR positive	1,819,119	Contact is unknown	511,267
Antigen positive	467,213	Contact is pending	459,732
Non-Florida residents	43,535		
Positive by BPHL/CDC	1,037		
Positive by commercial/hospital lab	42,498		
PCR positive	29,688		
Antigen positive	13,847		
Characteristics			
Florida residents hospitalized	95,607		
Florida resident deaths	36,973		
Non-Florida resident deaths	744		

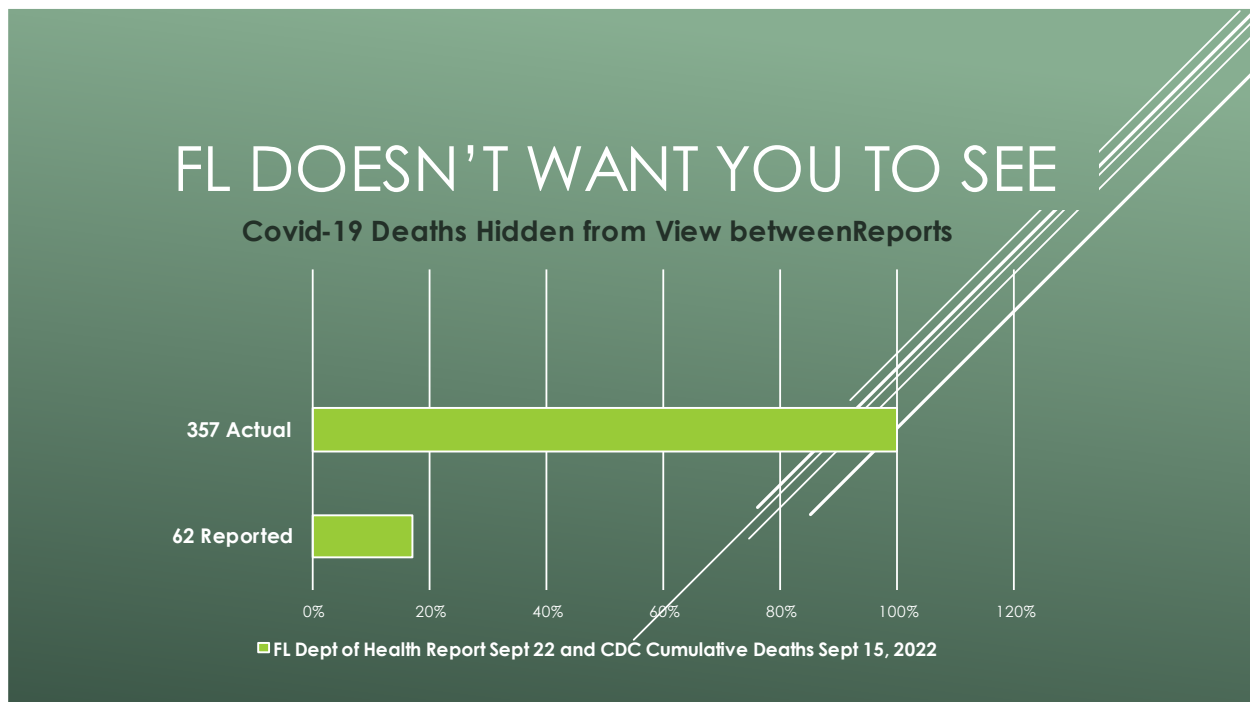
Hospitalized counts include anyone who was hospitalized at some point during their illness. It does not reflect the number of people currently hospitalized.

More information on deaths identified through death certificate data is available on the National Center for Health Statistics website at www.cdc.gov/nchs/nvsr/covid21/index.htm.

[FL Covid-19 Cases and Monitoring as of June 3, 2021](#)

When the state receives a report of a death from an earlier week, that information is added to “Cumulative Deaths” without being noted in “Previous Week Deaths.” It usually takes more than one week for death reports to get sent to the state.

[Florida Politics: Florida Reports 1000+ Covid-19 Deaths in Past Week](#)



September 22nd cumulative data from the state showed 81,139 deaths, while CDC data from September 15th indicated 80,782 permanent Florida residents had died. Therefore, there were 357 Covid deaths reported in Florida during September 16–22, 2022. That is a decrease of 10% (396). Only 62 of them were counted as new deaths (17%):

COVID-19 Weekly Situation Report: State Overview

Previous week (September 16, 2022 - September 22, 2022)

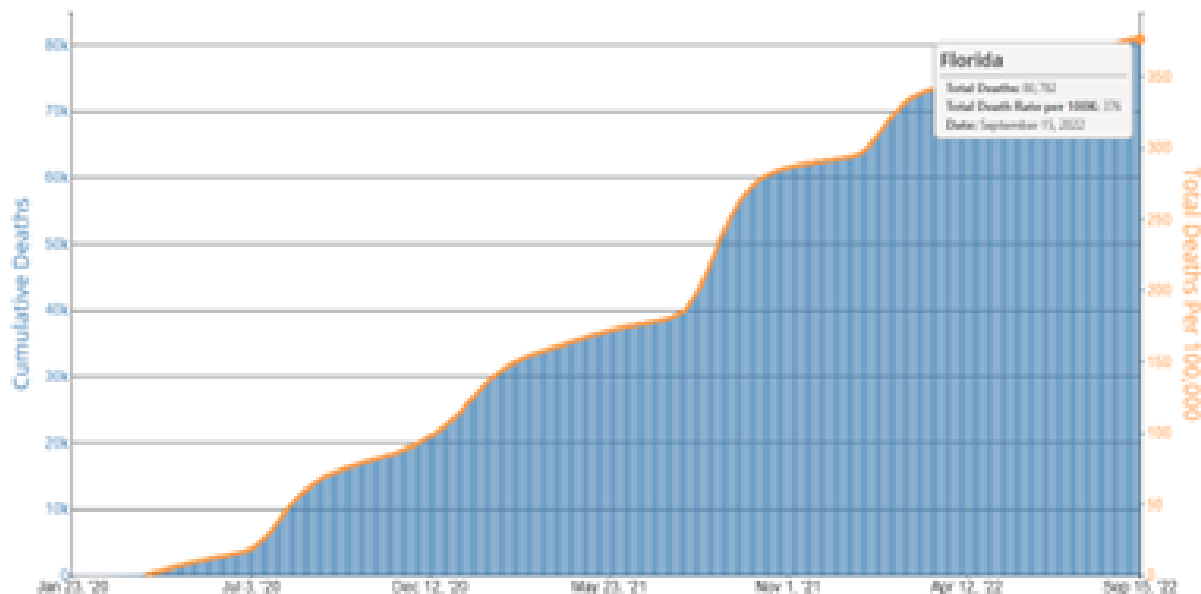
Published September 23, 2022

All data are provisional and subject to change. Data include only Florida residents.



Case data	Previous week	Cumulative	Vaccine data	Previous week (doses administered)	Cumulative (people vaccinated)
Total	17,438	7,106,653	Total	45,139	16,032,216
New case positivity	8.4%	28.9%	First dose	5,402	2,206,064
Deaths	62	81,139	Series completed	4,352	7,812,897
			Additional or booster dose	35,385	6,013,255

Trends in Total Deaths and Cumulative Incidence Rate of COVID-19 Deaths in Florida Reported to CDC, per 100,000 population.

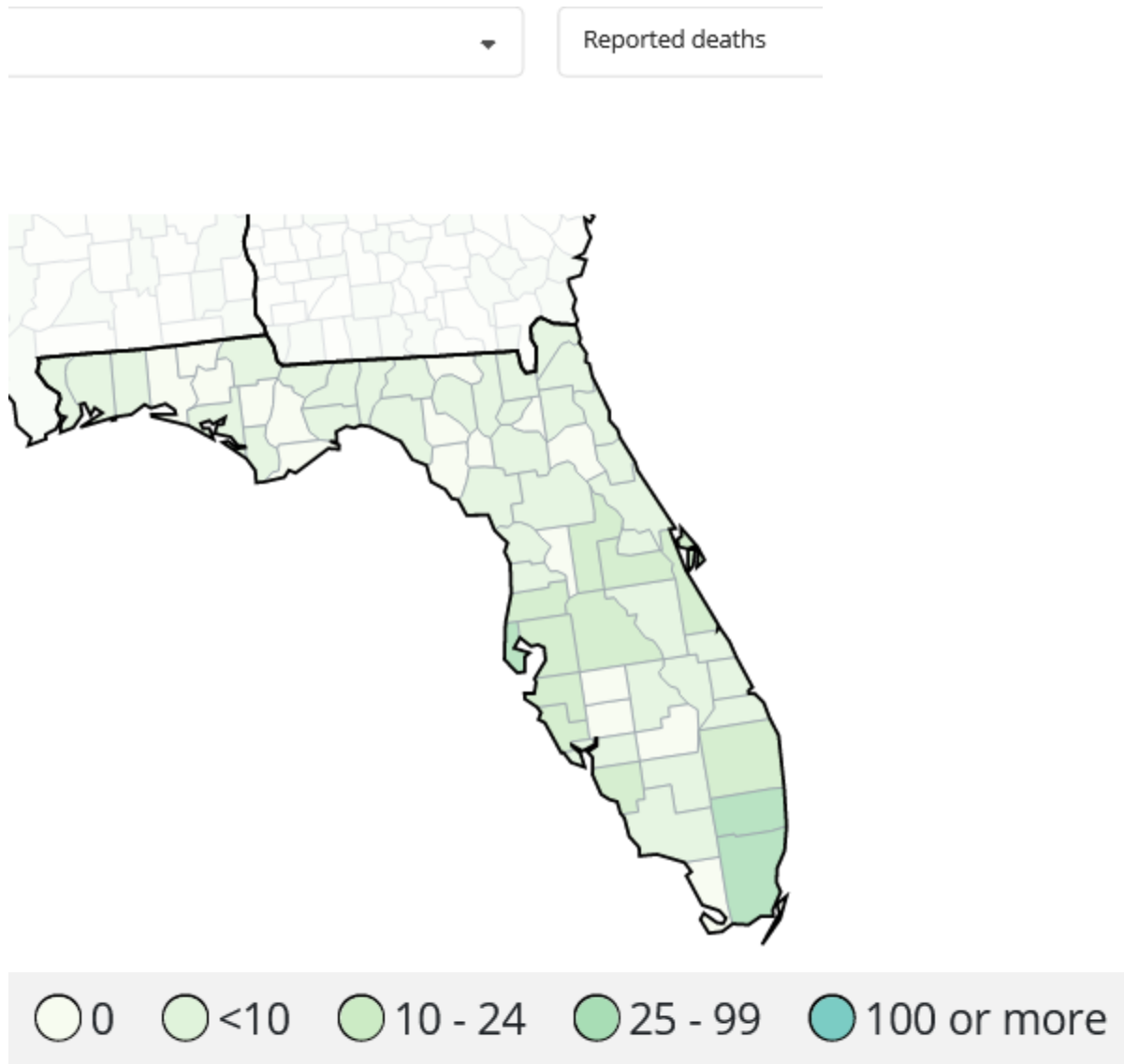


[Salemi USF: COVID-19 in Florida](#)

[Trends in Number of COVID-19 Cases and Deaths in the US Reported to CDC, by State](#)

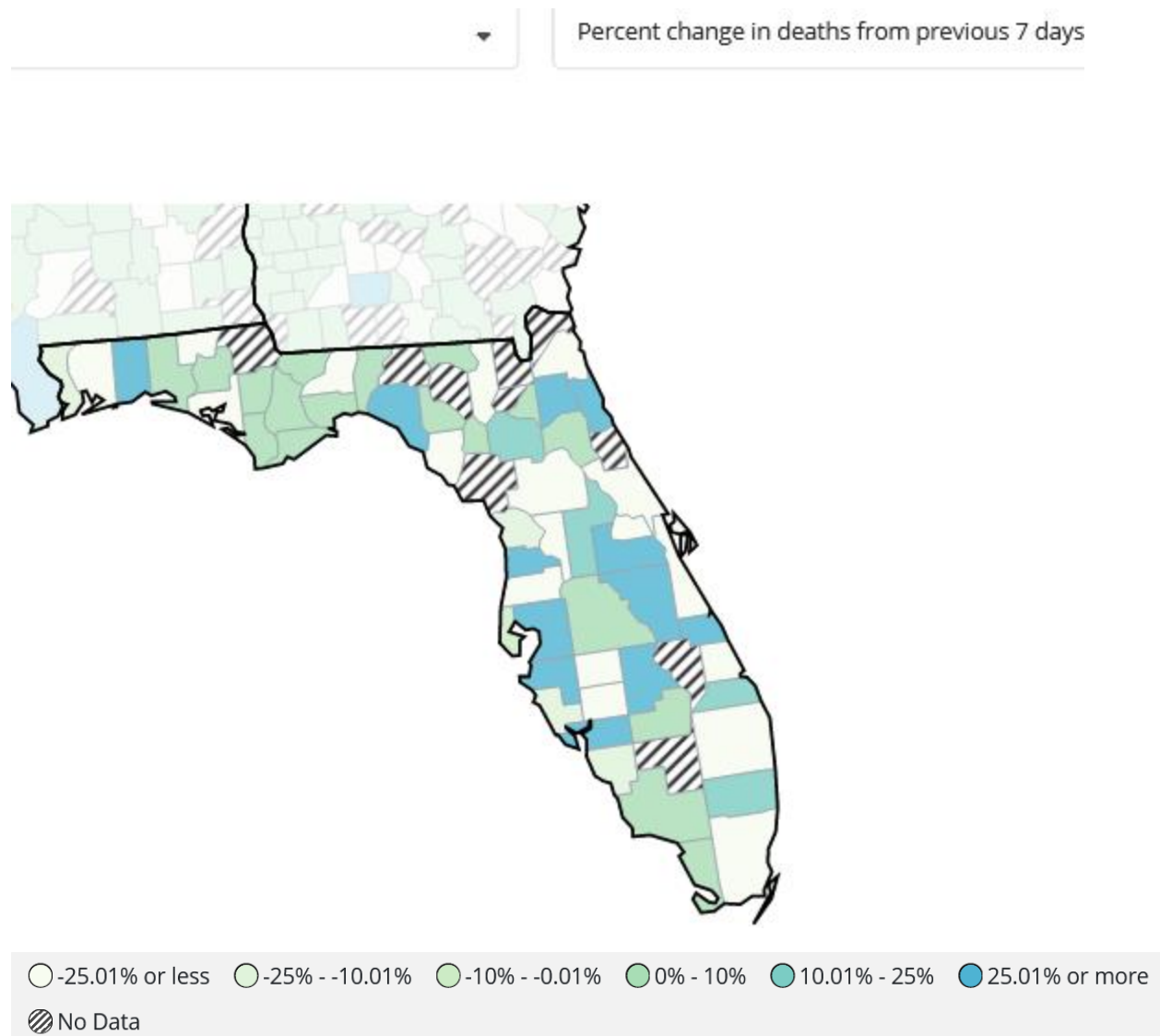
Clicking on individual counties reveals a higher number than the state's "new deaths" total. During September 16–22, Miami-Dade County reported 27 deaths (-41%); Broward had 83 (+22%); Palm Beach County had 23 (-28%); Orange—where Disney is located—had 14 (+27%); and Hillsborough had 21 (+40).

Sixteen counties reported 0 deaths. That often means they failed to report this week:



[CDC: Florida Reported Deaths by County](#)

Compared to the previous week, the CDC indicates that 10 of the 67 counties failed to report data. Another 5 showed drops of 100%, which often means they did not report data. 12 had increases of at least 25%:



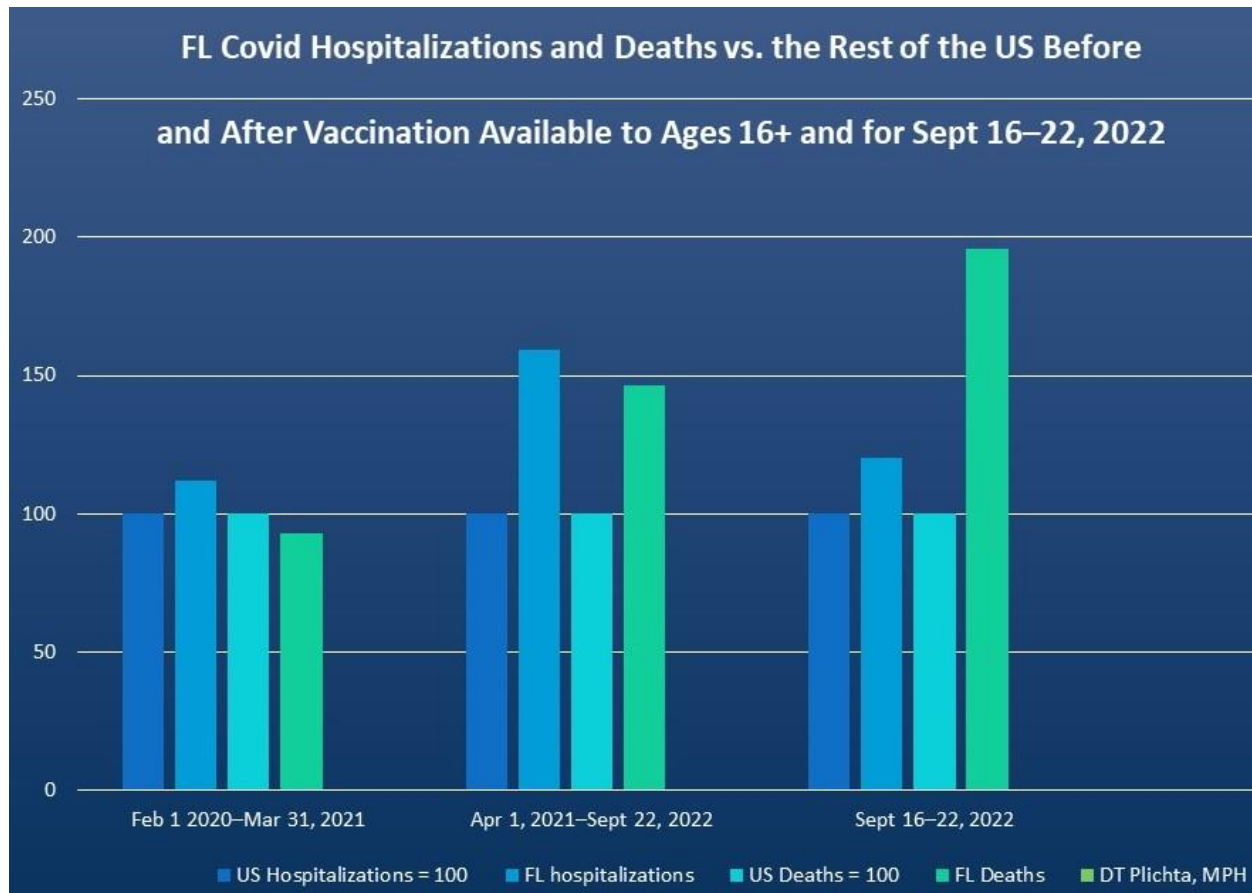
[CDC: Percent Change in Florida Deaths from Previous 7 Days](#)

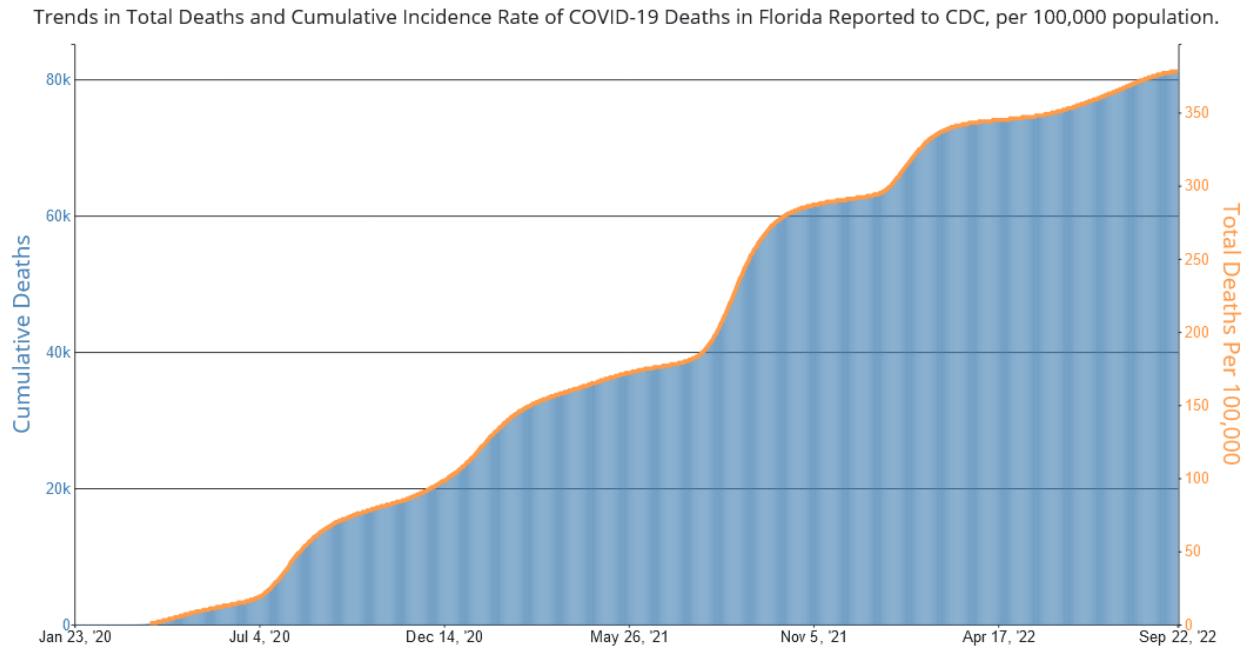
According to Florida Department of Health data, there had been 81,139 Covid deaths in Florida by September 22, 2022. Florida residents at least sixteen years old became eligible for vaccination on April 1, 2021. SARS-CoV-2 infections have killed 47,017 permanent residents of the state since that date. Over half the Covid deaths in Florida have occurred since April 1, 2021 (58%).

Despite having only 6.6% of the US population, this represents 9.5% of all American Covid-19 deaths since everyone at least 16 years old qualified for vaccination. That means permanent Florida residents were 46% more likely to die than people living in the rest of the US.

During September 16–22, 2022, 12% of all Covid deaths reports in the US came from Florida (357). Compared to other people in the US (2,533), a permanent Florida resident was almost

twice as likely to die from Covid. Per capita, there were 196 deaths in Florida for every 100 deaths elsewhere in the US. That is a major improvement from my reports during August 18–25 (475 FL/100 US) and September 2–8 (399 FL/100 US):





[Risk of Hospitalization and Death in Florida vs. the Rest of the US Before and After 16+ Vaccination and During September 16–22, 2022](#)

[Sept 8, 2022 Florida Covid Stats: What Is Really Happening?](#)

[Aug 25, 2022 Florida Covid Stats: What Is Really Happening?](#)

[Trends in Number of COVID-19 Cases and Deaths in the US Reported to CDC, by State](#)

In the aftermath of his hard drive crashing, Dr. Salemi has made some impressive upgrades to his site. Here is Florida's ranking of Covid deaths stratified by age. A Mortality Rate Ratio = 1 is the national average, so infants under one year old and senior citizens are the only age groups which have fared better than expected.

Permanent Florida residents aged 85+ rank 9th best among the 50 states and Washington DC, with 22% fewer deaths than the national average for that age group. Twenty Floridians under 1 year old have died, some of whom may have fallen within the new vaccination eligibility criteria. Infants fared 4% better than the national average and rank 38th.

Florida has the 8th worst death rate in the nation for ages 1–4 with 12 deaths, 9% more than expected. Children 5–14 rank 7th with 31 deaths and a mortality rate 33% worse than expected. People aged 15–24 have died at a rate 35% higher than the national average.

When I remove smaller states with higher ranks but only one death, Florida's rankings change to 9th worst for <1; 3rd worst for 1–4; and 6th worst for 5–14:

Age-Specific COVID-19 Mortality Rates by State

Age groups are <1 year, 1-4 years, and then 10-year age groups

Can filter to any combination of years, age groups, and states

State	Age Group	State Rank (1=best)	Population	Covid 19 Deaths	% of C19 Deaths in Age Group	C19 Deaths Per100K (state)	C19 Deaths Per100K (nation)	Mortality Rate Ratio
Florida	< 1 year	38	219,558	20	0.6	9.1	9.5	0.96
	1-4 years	44	915,447	12	1.6	1.3	1.2	1.09
	5-14 years	45	2,390,568	31	3.2	1.3	1.0	1.33
	15-24 years	42	2,466,792	220	3.6	8.9	6.6	1.35
	25-34 years	40	2,818,471	881	6.1	31.3	25.3	1.23
	35-44 years	39	2,649,160	2,188	10.2	82.6	68.2	1.21
	45-54 years	35	2,692,803	4,945	13.5	183.6	169.9	1.08
	55-64 years	30	2,942,419	10,706	12.5	363.9	358.3	1.02
	65-74 years	23	2,539,576	16,645	12.4	655.4	735.3	0.89
	75-84 years	11	1,502,209	20,185	11.7	1,343.7	1,652.9	0.81
	85+ years	9	596,309	19,203	9.5	3,220.3	4,127.5	0.78

September 22, 2022

By dividing Maine's population for each age group by Florida's, we can see the two states have very similar demographics. Except for infants, people in Maine and Florida have fared quite differently:

Age-Specific COVID-19 Mortality Rates by State

Age groups are <1 year, 1-4 years, and then 10-year age groups

Can filter to any combination of years, age groups, and states

State	Age Group	State Rank (1=best)	Population	Covid 19 Deaths	% of C19 Deaths in Age Group	C19 Deaths Per100K (state)	C19 Deaths Per100K (nation)	Mortality Rate Ratio
Maine	< 1 year	34	12,272	1	0.6	8.1	9.5	0.86
	1-4 years	1	51,108	0	0.0	0.0	1.2	0.00
	5-14 years	33	139,193	1	2.5	0.7	1.0	0.73
	15-24 years	3	151,491	1	0.3	0.7	6.6	0.10
	25-34 years	2	164,443	15	1.9	9.1	25.3	0.36
	35-44 years	6	156,841	54	4.2	34.4	68.2	0.50
	45-54 years	3	170,543	121	5.4	70.9	169.9	0.42
	55-64 years	3	210,474	328	6.0	155.8	358.3	0.43
	65-74 years	3	175,368	561	6.3	319.9	735.3	0.44
	75-84 years	4	84,783	795	7.0	937.7	1,652.9	0.57
	85+ years	3	33,625	820	5.8	2,438.7	4,127.5	0.59

September 22, 2022

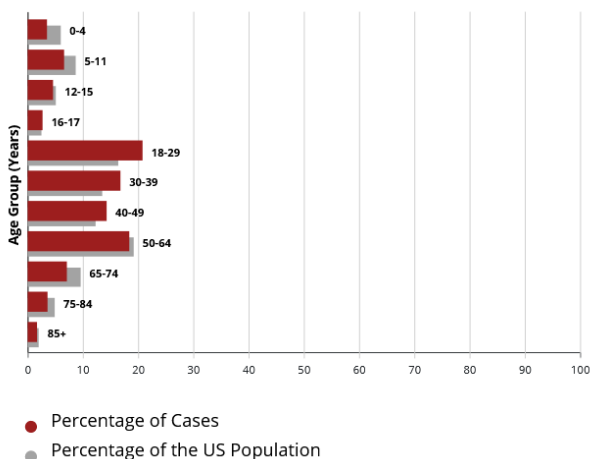
[Salemi USF: Covid Deaths by State](#)

As of September 22nd, 6.3% of senior citizens who have tested positive in the US have died. According to the September 22, 2022, report, Florida seniors had a 5.9% case-fatality rate. In all, the state reported that 1.3023% of permanent Florida residents over 64 years old have died from Covid:

Cases by Age Group:

Download

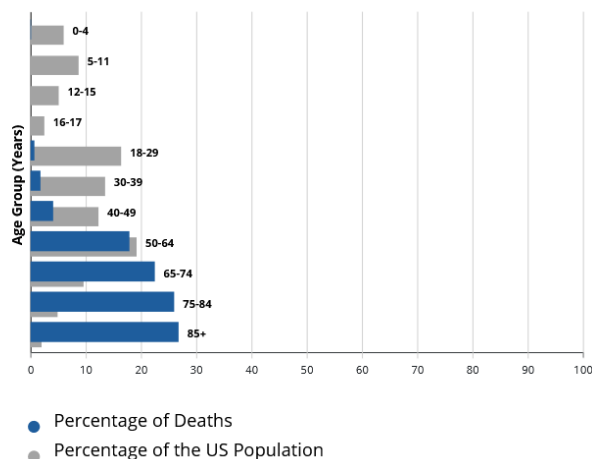
Data from 88,106,446 cases. Age group was available for 87,325,276 (99%) cases.



Deaths by Age Group:

Download

Data from 905,686 deaths. Age group was available for 904,849 (99%) deaths.



Note that the data for 2022 alone is one month behind, while the cumulative data is current. This makes what has happened recently look better than it really is:

Demographic	Cumulative (since March 1, 2020)				January 1 - August 23, 2022		
	Deaths	Cases	Case fatality rate	Mortality per 100,000 population	Deaths	Cases	Case fatality rate
All ages	81,139	7,106,653	1.1%	363.5	16,092	2,734,756	0.6%
Under 16	50	943,267	0.0%	1.3	11	369,548	0.0%
16-29	516	1,499,506	0.0%	13.9	62	497,922	0.0%
30-39	1,378	1,167,126	0.1%	48.2	154	417,968	0.0%
40-49	3,241	1,038,406	0.3%	120.5	331	389,370	0.1%
50-59	7,609	998,794	0.8%	258.4	964	400,017	0.2%
60-64	6,412	411,854	1.6%	432.6	1,007	176,499	0.6%
65+	61,933	1,046,258	5.9%	1,302.3	13,563	483,255	2.8%
Unknown	0	1,442	0.0%		0	177	0.0%
All ages	81,139	7,106,653	1.1%	363.5	16,092	2,734,756	0.6%

September 22, 2022

Demographic	Cumulative (since March 1, 2020)				January 1 - August 9, 2022		
	Deaths	Cases	Case fatality rate	Mortality per 100,000 population	Deaths	Cases	Case fatality rate
All ages	80,386	7,066,234	1.1%	360.1	15,241	2,642,753	0.6%
Under 16	50	939,456	0.0%	1.3	11	355,313	0.0%
16-29	514	1,493,781	0.0%	13.8	58	484,053	0.0%
30-39	1,376	1,162,504	0.1%	48.2	151	406,099	0.0%
40-49	3,227	1,033,693	0.3%	119.9	314	378,439	0.1%
50-59	7,570	993,095	0.8%	257.1	915	387,033	0.2%
60-64	6,372	408,547	1.6%	429.9	963	170,116	0.6%
65+	61,276	1,033,725	5.9%	1,288.5	12,828	461,531	2.8%
Unknown	1	1,433	0.1%		1	169	0.6%
All ages	80,386	7,066,234	1.1%	360.1	15,241	2,642,753	0.6%

September 8, 2022

By comparing the last two reports taken over three weeks, we can see the number and percentage of deaths in each demographic group which were reported during **September 9–22, 2022**. I have checked these numbers twice and they total 755, not 753. Most likely, the new death of someone from an unknown age group is the infant reported by Dr. Salemi.

- Under 16 = 0 (0.0%)
- 16–29 = 2 (0.3%)
- 30–39 = 2 (0.3%)
- 40–49 = 14 (4.0%)
- 50–59 = 39 (5.2%)
- 60–64 = 40 (5.3%)
- 65+ = 657 (87.2%)
- Unknown = 1 (0.1%)

753 100%

[CDC: Demographic Trends of COVID-19 Cases and Deaths in the US Reported to CDC](#)

[Salemi USF: COVID-19 in Florida](#)

Looking at the 7-14-22 report, the mortality rate/100,000 senior citizens was 1265.5:

Demographic	Cumulative (since March 1, 2020)				January 1 - June 14, 2022		
	Deaths	Cases	Case fatality rate	Mortality per 100,000 population	Deaths	Cases	Case fatality rate
All ages	76,662	6,640,046	1.2%	343.4	11,507	2,071,443	0.6%
Under 16	50	888,917	0.0%	1.3	10	300,706	0.0%
16-29	505	1,432,045	0.0%	13.6	49	392,911	0.0%
30-39	1,349	1,103,898	0.1%	48.4	123	323,707	0.0%
40-49	3,180	979,198	0.3%	119.1	265	300,863	0.1%
50-59	7,427	928,596	0.8%	253.9	754	297,689	0.3%
60-64	6,141	376,612	1.6%	426.8	743	126,906	0.6%
65+	58,010	929,384	6.2%	1,265.5	9,563	328,531	2.9%
Unknown	0	1,396	0.0%		0	130	0.0%

July 14, 2022

The mortality rate *declined* in the July 28, 2022, report below to 1236.7. That is a number which can only grow, since the population sizes are identical in each report:

Demographic	Cumulative (since March 1, 2020)				January 1 - June 28, 2022		
	Deaths	Cases	Case fatality rate	Mortality per 100,000 population	Deaths	Cases	Case fatality rate
All ages	77,565	6,789,498	1.1%	347.4	12,343	2,220,133	0.6%
Under 16	50	900,922	0.0%	1.3	10	311,898	0.0%
16-29	503	1,450,758	0.0%	13.5	47	414,809	0.0%
30-39	1,358	1,126,418	0.1%	47.5	129	346,248	0.0%
40-49	3,189	999,619	0.3%	118.5	276	321,874	0.1%
50-59	7,452	953,699	0.8%	253.1	790	322,714	0.2%
60-64	6,199	389,101	1.6%	418.2	790	139,065	0.6%
65+	58,813	967,561	6.1%	1,236.7	10,301	363,380	2.8%
Unknown	1	1,420	0.1%		0	145	0.0%

July 28, 2022

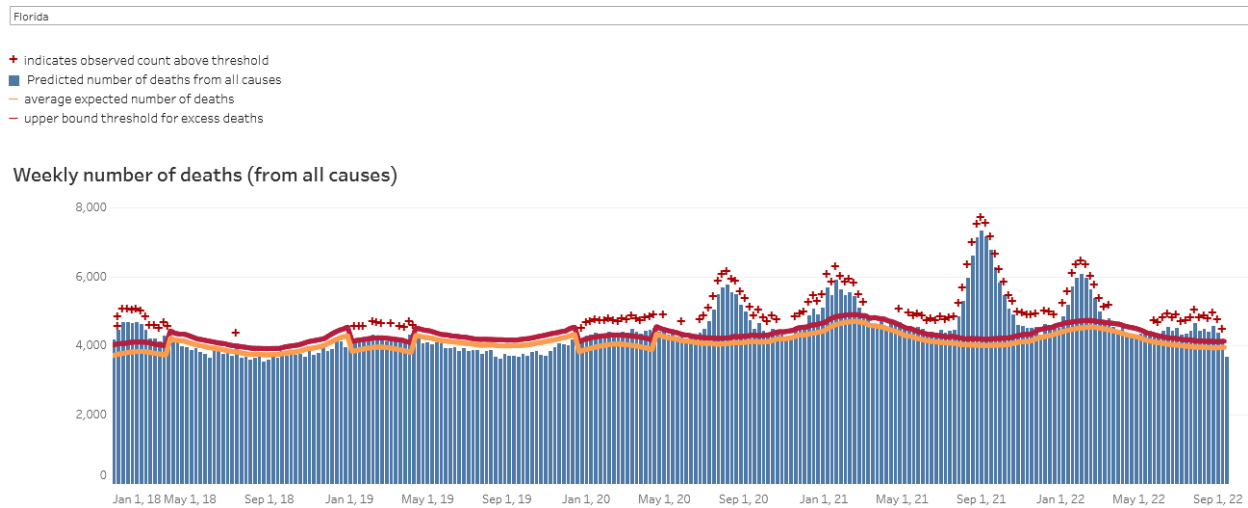
[July 14, 2022 Florida Covid Stats: What Is Really Happening?](#)

[Salemi USF: COVID-19 in Florida](#)

Florida does not report deaths by vaccination status, so I cannot determine the percentage of deaths occurring in unvaccinated people, those who received a full series, or boosted individuals.

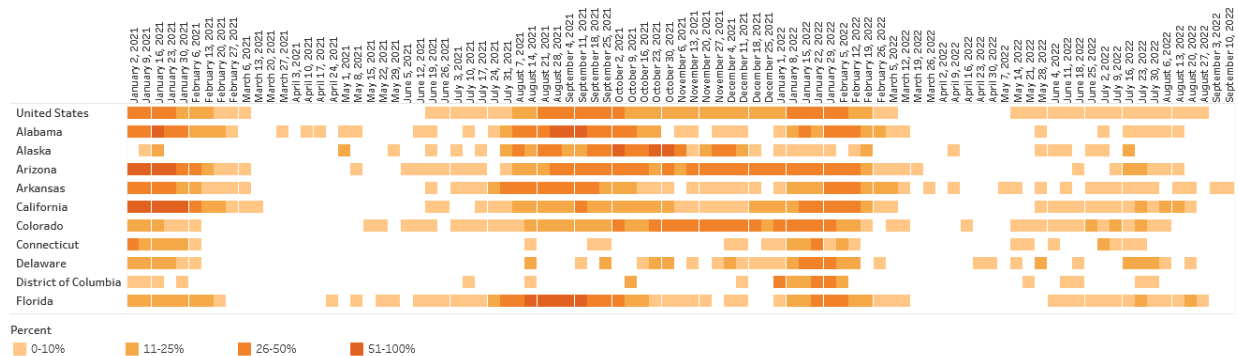
The CDC recently updated their algorithm for calculating excess deaths in the US to include six years of data, rather than four, due to the pandemic skewing the expected numbers. This accounts

for the higher than typical age of Florida's population. You can click on each bar on their site to see the data for that week. It takes up to eight weeks for complete reporting:



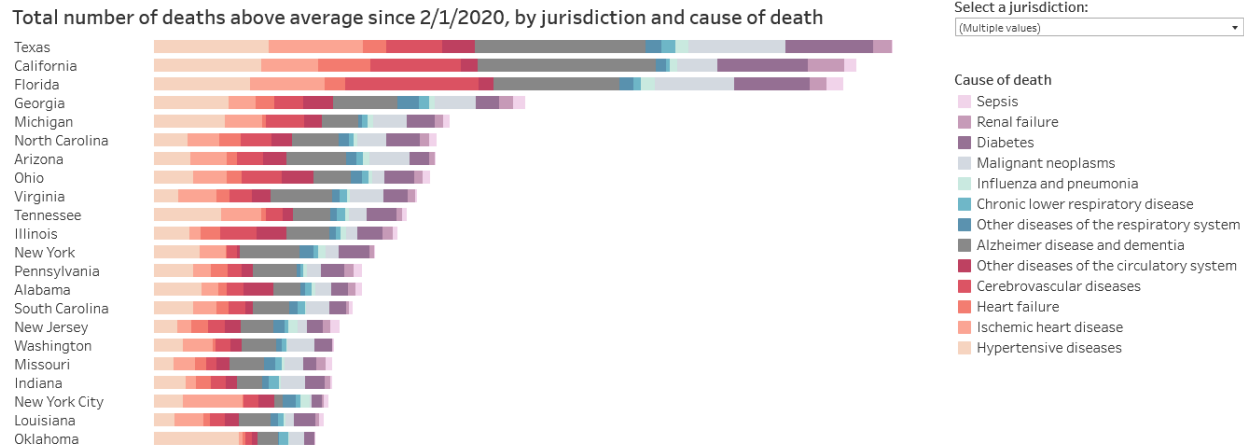
Here is another way to visualize that information. You can see all states by clicking Percent Excess Deaths on the CDC's site:

Percent by which predicted count exceeds threshold, by week



[CDC: Excess Deaths Associated with COVID-19](#)

Florida has a higher than expected proportion of excess deaths compared to other states, including at least 17,000 unrelated to Covid. This is the total number of excess deaths throughout the pandemic, not the number per 100,000 people. California has 80% more people than Florida yet the number of excess deaths is nearly the same:

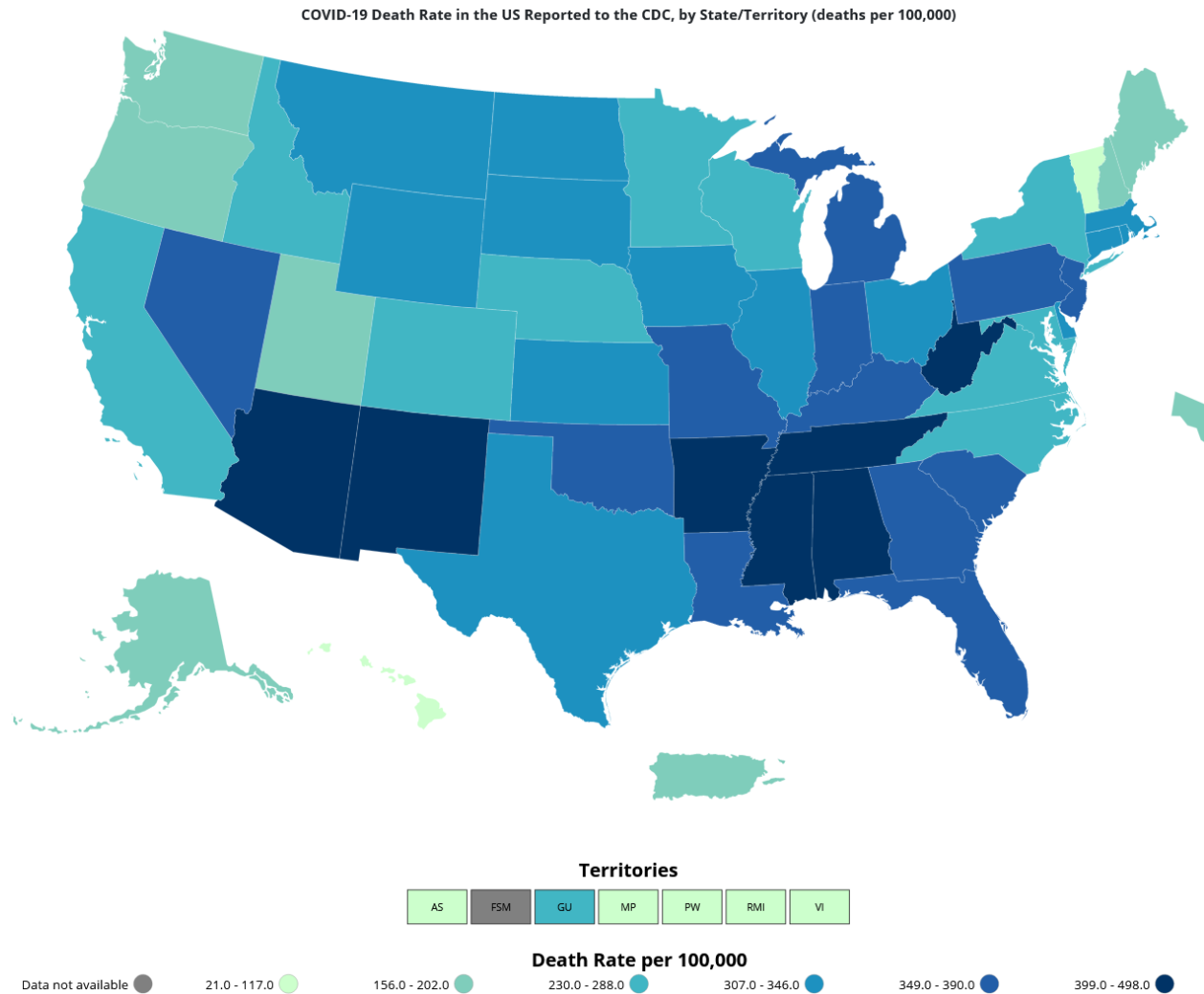


[Tampa Bay Times: Florida's Preventable Deaths Rose During the Pandemic. It Wasn't Just COVID](#)

[CDC: Excess Deaths Associated with COVID-19 by Jurisdiction/Cause](#)

This map of Covid deaths rates from September 24th shows that Florida reported only 62 deaths for the last 7 days. Comparing the state's cumulative deaths for September 22, 2022, with September 15th's yields 357 deaths.

Among the six largest states, Florida ranks first for the highest proportion of Covid deaths. Due to the current wave, we have overtaken Pennsylvania: CA (240); TX (307); FL (377); NY (262); PA (367); IL (312):

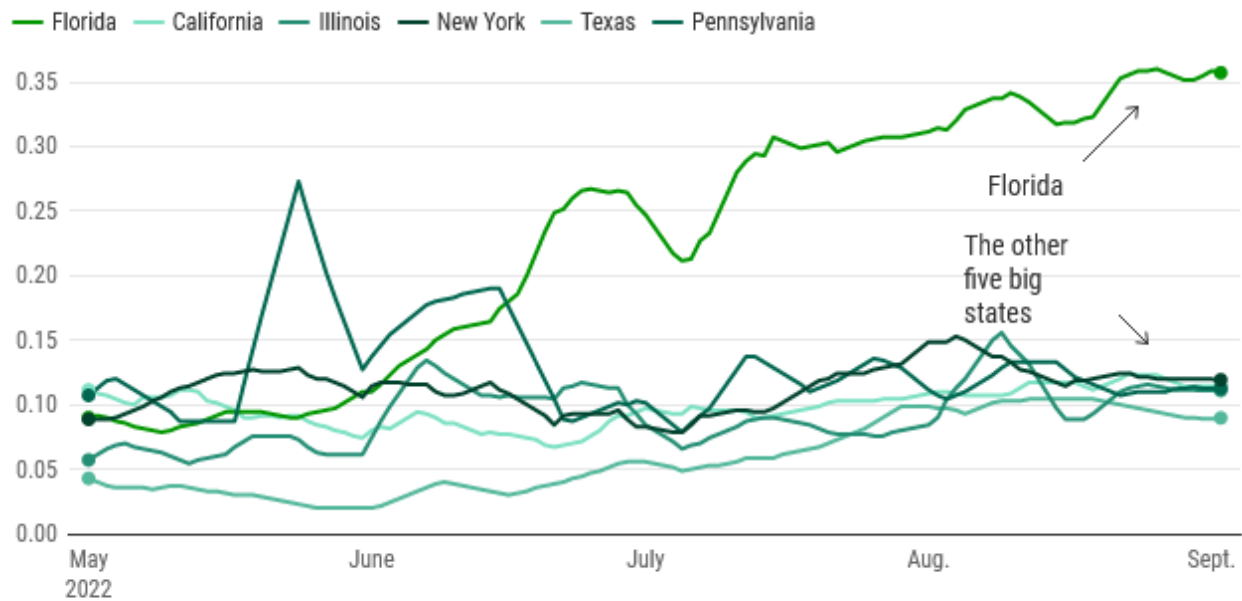


[CDC: United States COVID-19 Cases, Deaths, and Laboratory Testing by State and Territory](https://www.cdc.gov/covid/covid-19-cases-deaths-and-laboratory-testing-by-state-and-territory)

Florida's death rate was 3x higher than the other large states during May–August 2022:

A tough summer

Daily COVID deaths per 100,000 residents since May 1.

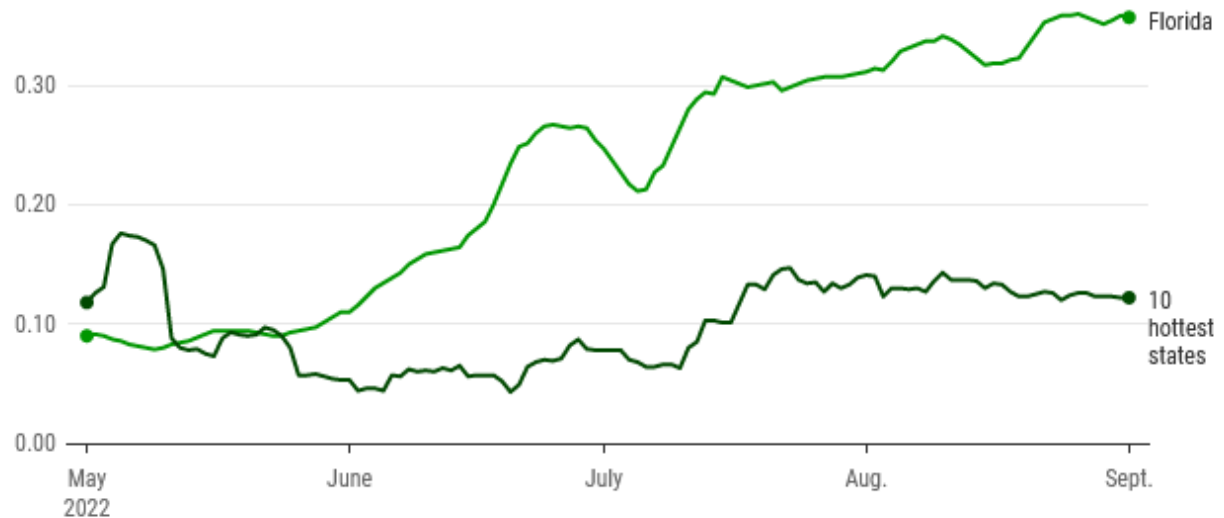


Tampa Bay Times • Source: CDC COVID Tracker

Florida's heat is often blamed for the large numbers of summertime Covid deaths, as people crowd into airconditioned spaces. An analysis of the other 10 hottest states revealed their combined death rate was 1/3 of Florida's during May through August 2022:

Is it because Florida is hot?

Florida's COVID death rate compared to the average rate of the 10 other states with the hottest summer temperatures.



* Louisiana, Texas, Oklahoma, Mississippi, Arkansas, Georgia, Alabama, South Carolina, Arizona and Kansas.

Tampa Bay Times • Source: CDC COVID Tracker; National Oceanic and Atmospheric Administration

Florida's large percentage of elderly people is often cited as the reason for the high mortality rate. In 2020, at least 20% of the populations of 5 states were aged 65+. Florida ranked 2nd behind Maine:

States Ranked by Percent of Population Age 65 or Older, 2020

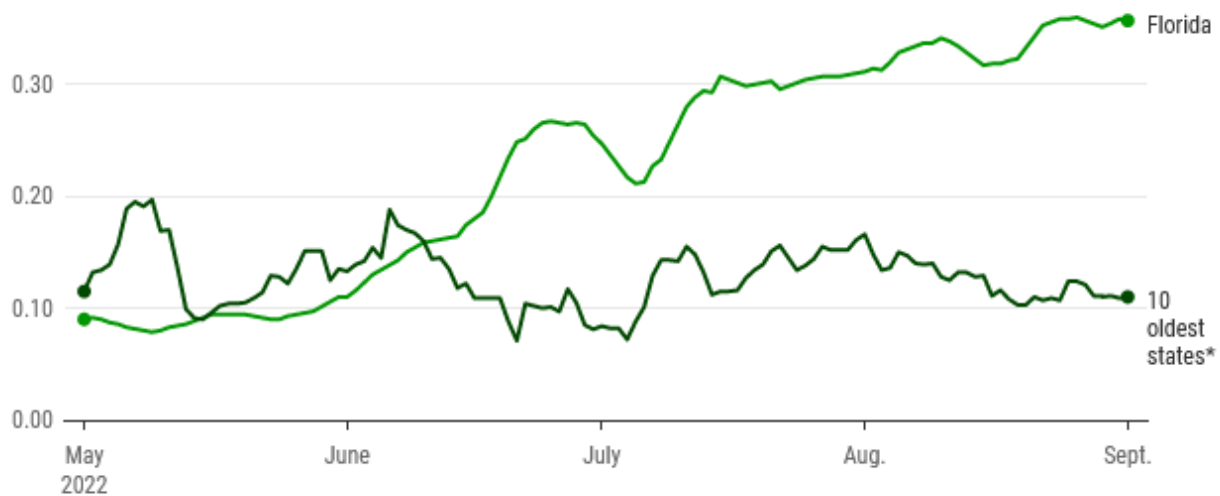
Print Excel CSV Copy

RANK	STATE ▲	TOTAL RESIDENT POPULATION (THOUSANDS) ▲	POPULATION AGES 65+ (THOUSANDS) ▲	POPULATION AGES 65+ (PERCENT OF STATE POPULATION) ▲
1	Maine	1,350	294	21.8%
2	Florida	21,733	4,638	21.3%
3	West Virginia	1,785	374	20.9%
4	Vermont	623	129	20.6%
5	Delaware	987	198	20.0%
6	Montana	1,081	213	19.7%

Maine's death rate (191) was roughly half of Florida's (377). Others in the top 6 states with the oldest populations are WV (411); VT (109); DE (317); and MT (328). The chart below shows data for only May through August:

Is it because Florida is old?

Florida's COVID death rate compared to the average of the 10 other states* with the highest percentage of residents 65 years and over.



* Florida is second only to Maine in the highest percentage of residents 65 years and older. The others: West Virginia, Vermont, Delaware, Montana, Pennsylvania, Hawaii, New Hampshire, South Carolina and Oregon.

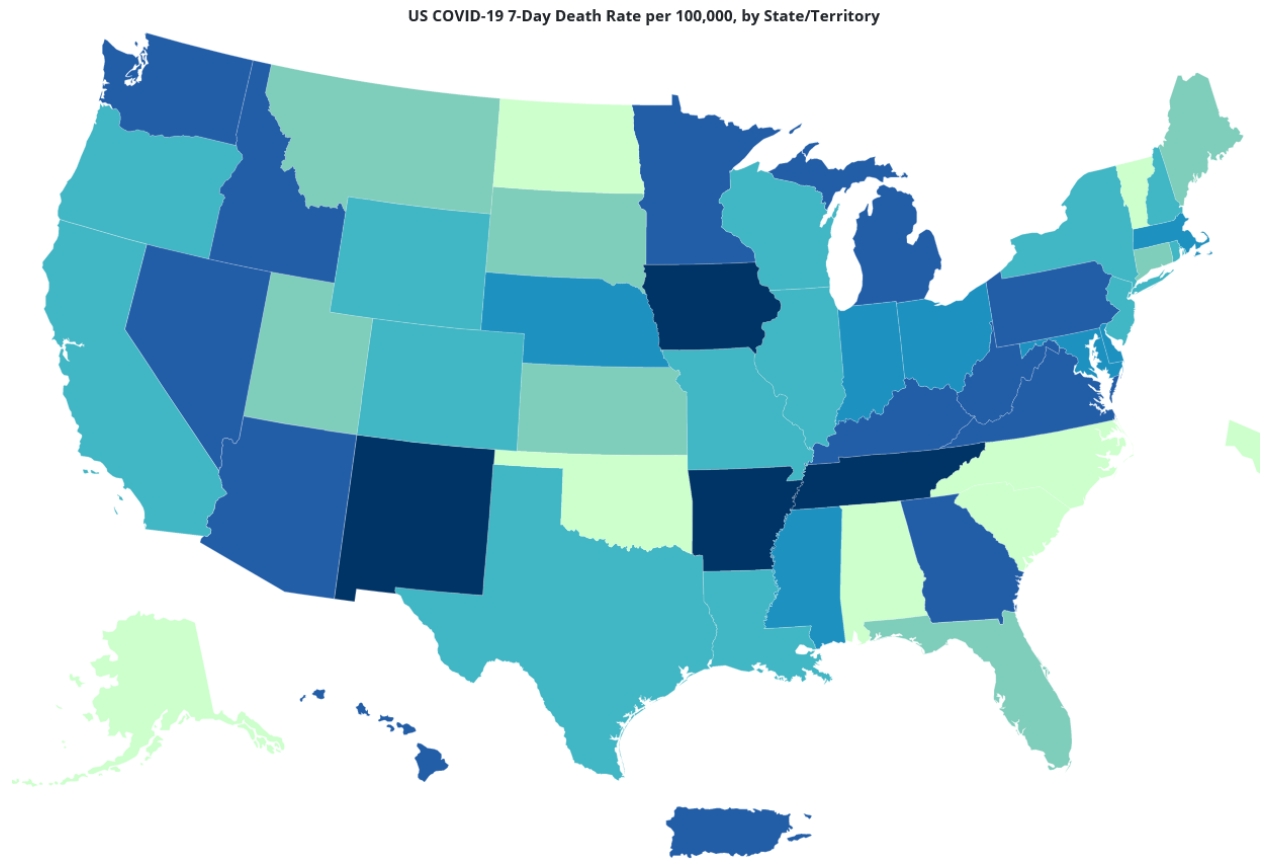
Tampa Bay Times • Source: CDC COVID Tracker; U.S. Census

[PRB: Which States have the Oldest Populations?](#)

[CDC: United States COVID-19 Cases, Deaths, and Laboratory Testing by State and Territory](#)

[Tampa Bay Times: Why Are So Many Floridians Still Dying from COVID? How Florida's Death Rate Compares to Other States, Including California, Texas, and New York](#)

To get an accurate picture of that map for the last seven days, we must determine the death rate for 357 deaths, not 62. Doing that shows that Florida had 1.7 deaths/100,000, ranking 5th worst in per capita deaths reported in the last 7 days:



[CDC: US Covid-19 7-Day Death Rate per 100,000, by State/Territory](https://www.cdc.gov/covid/weekly-reports/7-day-death-rate)

Covid Cases in Florida:

With the rise in at-home testing since the omicron wave began, it is important to know that official confirmed cases are likely to be significantly undercounted.

For the week ending on September 22, 2022, the Florida Department of Health reported 17,438 confirmed Covid cases. Adding those to the state's previous cumulative count gives us a total of 7,106,653 cumulative Covid cases among permanent residents. Compared to the week ending on September 15th, that is a 30% decrease (24,755):

COVID-19 Weekly Situation Report: State Overview**Previous week (September 16, 2022 - September 22, 2022)**

Published September 23, 2022

All data are provisional and subject to change. Data include only Florida residents.

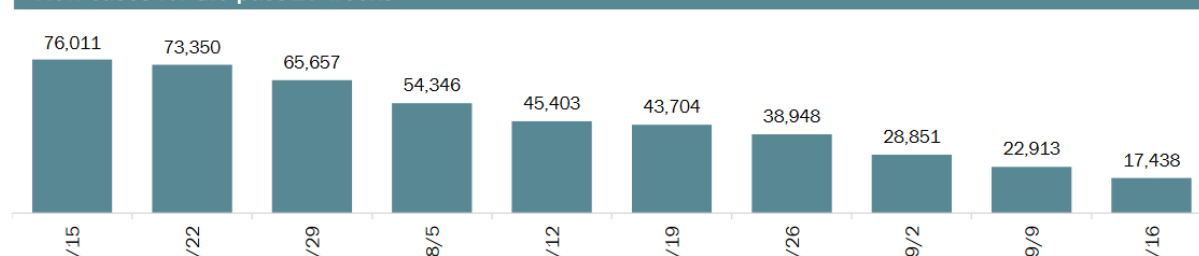


Case data	Previous week	Cumulative
Total	17,438	7,106,653
New case positivity	8.4%	28.9%
Deaths	62	81,139

See additional notes at the end of this report for information on positivity rate, deaths, and vaccination status.

Vaccine data	Previous week (doses administered)	Cumulative (people vaccinated)
Total	45,139	16,032,216
First dose	5,402	2,206,064
Series completed	4,352	7,812,897
Additional or booster dose	35,385	6,013,255

Vaccine age groups	Population	Vaccinated
Total (6+ months)	22,207,477	72%
6 months-4 years	1,049,999	2.5%
5-11 years	1,709,114	25%
12-19 years	1,982,626	64%
20-29 years	2,735,328	66%
30-39 years	2,857,581	73%
40-49 years	2,690,641	80%
50-59 years	2,944,284	84%
60-64 years	1,482,302	88%
65+ years	4,755,602	94%

New cases for the past 10 weeks[Salemi USF: COVID-19 in Florida](#)

On June 6, 2022, a report from the Florida Auditor General revealed that 60% of people who tested positive for Covid during March–October 2020, were never notified of their results. That affected at least 183,000 individuals infected with the SARS-CoV-2 virus and likely had a major impact on preventing Covid transmission in the state. The Tampa Bay Times article includes a link to the audit.

[Tampa Bay Times: Florida's Health Department Undercounted COVID Cases and Deaths, State Audit Says](#)

On June 4, 2021, the state removed all data from anyone who has not established permanent residency and stopped reporting information from visitors, seasonal residents, and migrant workers. This deleted 43,535 cases. I can no longer access this file, as my browser deems it a security risk:

COVID-19: summary of cases and monitoring
Data through Jun 2, 2021 verified as of Jun 3, 2021 at 09:25 AM
Data in this report are provisional and subject to change.

Cases: people with positive PCR or antigen test result		Risk factors for Florida residents	
Total cases	2,329,867	Traveled	18,931
Florida residents	2,286,332	Contact with a known case	920,896
Non-Florida residents	43,535	Traveled and contact with a known case	24,985
Type of testing		Neither	1,321,520
Florida residents	2,286,332	No travel and no contact	280,411
Positive by BPHL/CDC	83,364	Travel is unknown	733,532
Positive by commercial/hospital lab	2,202,968	Contact is unknown	511,267
PCR positive	1,819,119	Contact is pending	459,732
Antigen positive	467,213		
Non-Florida residents	43,535		
Positive by BPHL/CDC	1,037		
Positive by commercial/hospital lab	42,498		
PCR positive	29,688		
Antigen positive	13,847		
Characteristics			
Florida residents hospitalized	95,607		
Florida resident deaths	36,973		
Non-Florida resident deaths	744		

Travel can be unknown and contact can be unknown or pending for the same case; these numbers will sum to more than the "neither" total.

Hospitalized counts include anyone who was hospitalized at some point during their illness. It does not reflect the number of people currently hospitalized.

More information on deaths identified through death-certificate data is available on the National Center for Health Statistics website at www.cdc.gov/nchs/nvss/vsus/covid20/index.htm.

FL Covid-19 Cases and Monitoring as of June 3, 2021

Dr. Salemi has been publishing state rankings of confirmed cases, with the addition of Washington DC and New York City. After fourteen weeks of terrible rankings during May 25th–August 24th, Florida has improved to above average (13th best):

FLORIDA: PAST 8 WEEKS				
7-DAY AVERAGE DAILY CASES and WEEKLY % CHANGE*				
	Total Last 7	Average daily Last 7	% change from previous week	State rank cases per capita (1=best, 52=worst)
3-Aug	67,344	9,620	-9%	47
10-Aug	55,805	7,972	-17%	43
17-Aug	43,849	6,264	-21%	32
24-Aug	46,284	6,612	5%	42
31-Aug	40,126	5,732	-13%	34
7-Sep	29,490	4,212	-26%	29
14-Sep	24,764	3,537	-16%	21
21-Sep	17,887	2,555	-27%	13

*Only includes Florida residents

updated 9/22/22
@JasonSalemi

FLORIDA: PAST 8 WEEKS 7-DAY AVERAGE DAILY CASES and WEEKLY % CHANGE*				
	Total Last 7	Average daily Last 7	% change from previous week	State rank cases per capita <small>(1=best, 52=worst)</small>
27-Jul	74,549	10,649	-1%	48
3-Aug	67,344	9,620	-9%	47
10-Aug	55,805	7,972	-17%	43
17-Aug	43,848	6,264	-21%	32
24-Aug	46,287	6,612	5%	42
31-Aug	40,128	5,732	-13%	34
7-Sep	29,495	4,213	-26%	29
14-Sep	24,755	3,536	-16%	21

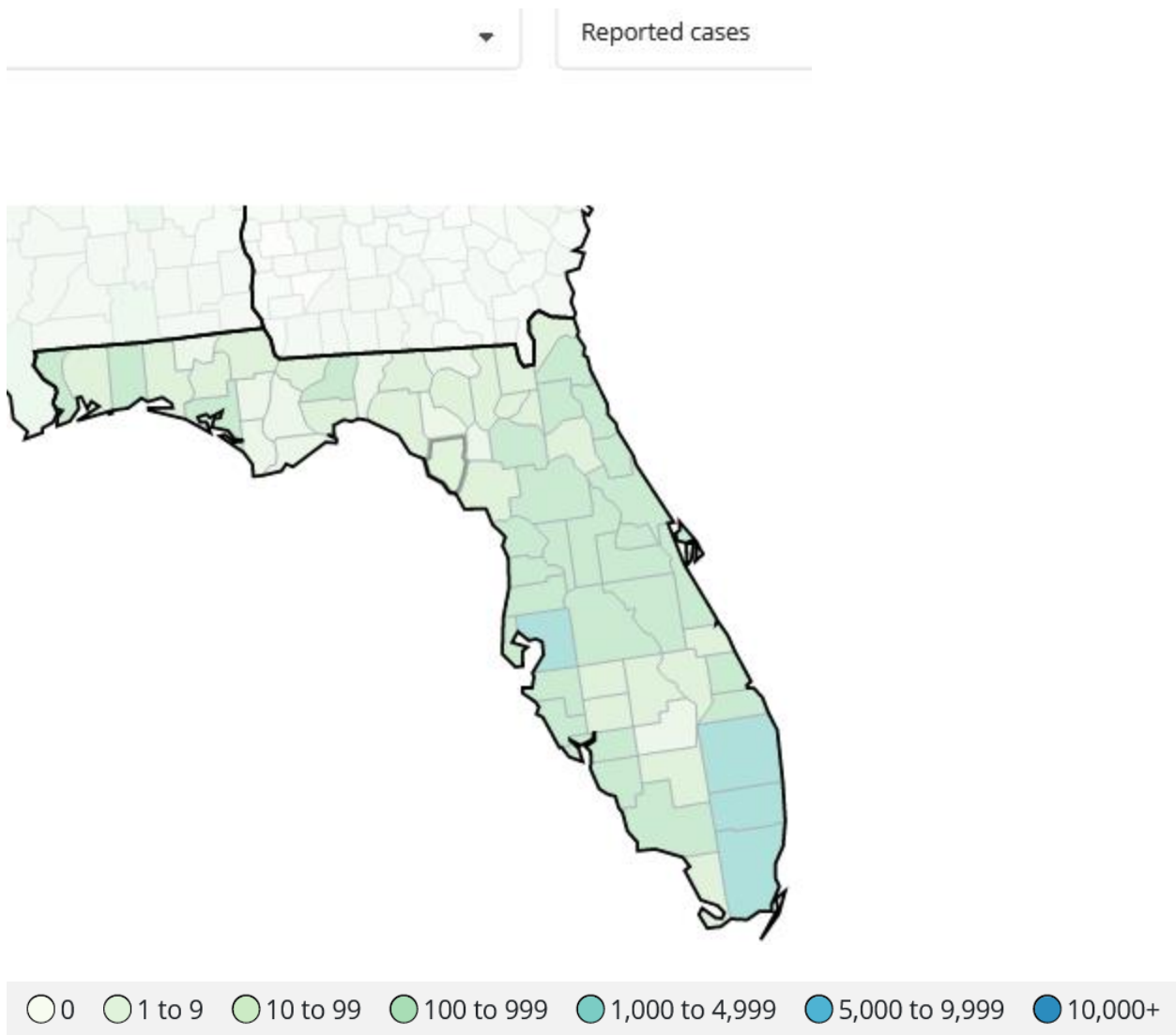
*Only includes Florida residents

updated 9/15/22
@JasonSalemi

[Florida Covid Statistics: What is Really Happening?](#)

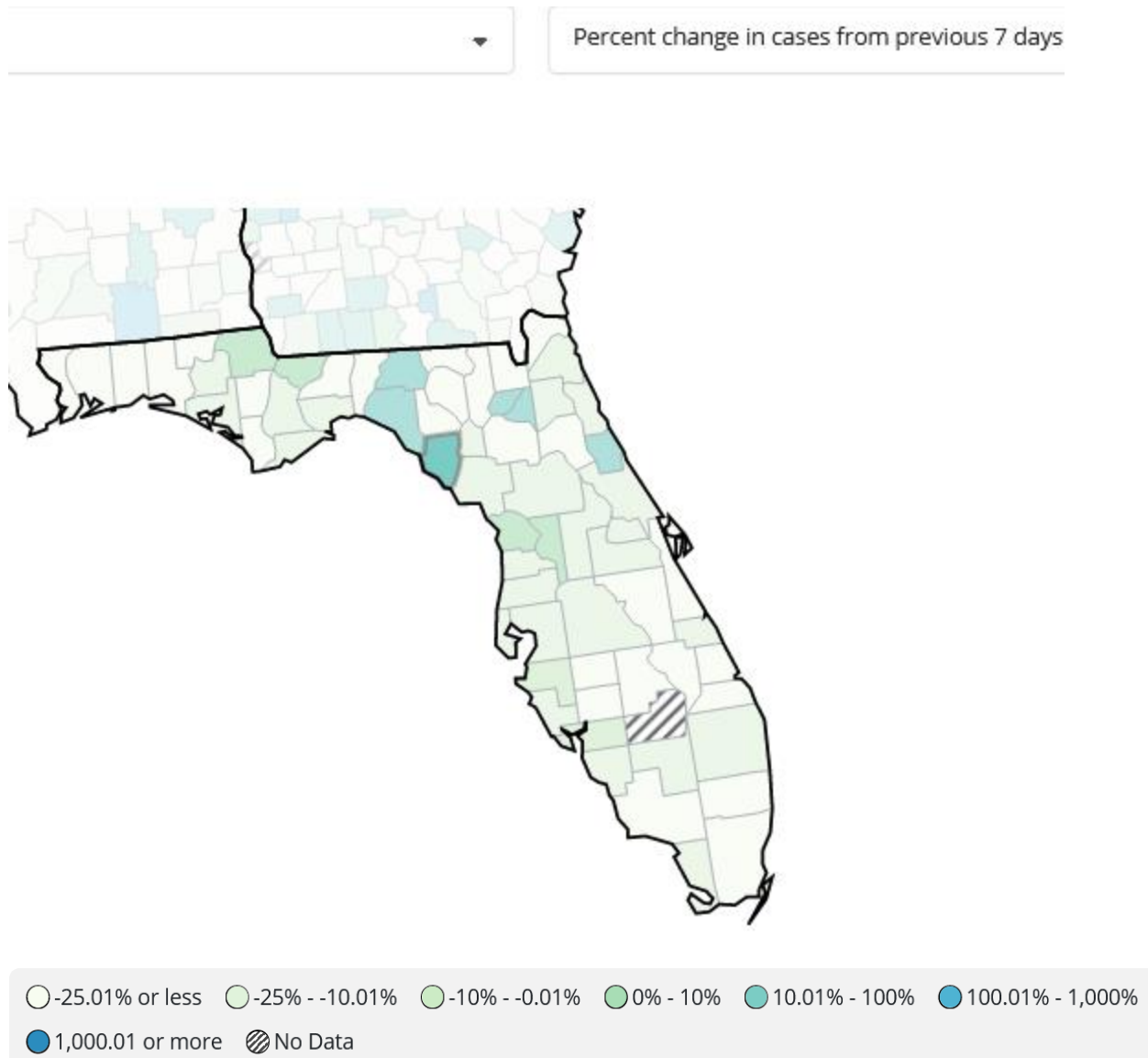
[Salemi USF: COVID-19 Cases in Florida](#)

Clicking on this map at the CDC's web site will show you the exact number of confirmed cases for any county. During September 16–22, Miami-Dade had 2,946 (-30%); Broward had 1,588 (-26%); Palm Beach had 1,187 (-19%); and Hillsborough had 1,121 (-25%). Orange County—where Disney is located—had 981 (-22%):



[CDC: Florida Reported Cases by County](#)

With a few exceptions, the greatest increases in cases are concentrated in the northern parts of the state:



[CDC: Florida Percent Change of Cases](#)

Dr. Jason Salemi was posting very helpful county-level case data until April 22nd. Unfortunately, the county-level data he used to post is no longer available:



COVID-19 in
Florida

Last update:
Fri, 04/22/2022

Next update:
Fri, 04/29/2022

FLORIDA FOCUS
NATIONAL
COMMUNITY
PROFILE
VACCINES
NATIONALLY
CURRENTLY

4/28/2022: ATTENTION ALL USERS

This week, I had a catastrophic hard drive failure which compromised my COVID-19 dashboard.

Although the Tableau file itself was backed up, the 50 or so modified source datasets that feed into the dashboard were lost (I just received word from the data recovery folks at my university).

I will have to rebuild many aspects of the dashboard, and this will take quite a while (perhaps a few weeks) since I am also at a very busy portion of the academic year.

I will leave the dashboard in its current state - up and available for everyone - and will begin refreshing as soon as possible.

My sincere apologies - this is a service I've been providing for over 2 years, non-stop, and it pains me that this has happened.



COVID-19
Dashboard

LIST OF VISUALIZATIONS ON THIS PAGE

CASES

(updated several times each week)

1. Map of Recent Trends in New **Cases**, By State
2. Temporal Trends in New **Cases**, By State
3. State Rankings in New **Cases per Capita**, Over Time

Date	Cases	Rate	Rate	Rate	Rate	Rate
Apr 15	18	107%	25	2.3	100%	14
Jul 30	18,639	57%	573	12.7	48,700	4%
Aug 06	21,381	10%	739	12.4	44,622	4%
Aug 13	29,906	4%	660	12.6	96,708	11%
Aug 20	16,706	10%	572	10.4	81,960	10%
Aug 27	12,163	27%	417	8.1	29,300	1%
Aug 28	8,733	20%	234	6.1	25,003	10%
Aug 29	7,423	24%	254	5.8	22,372	4%
Aug 27	8,556	19%	293	5.3	26,823	20%
Aug 24	5,027	42%	172	3.7	11,139	10%
Oct 02	3,816	24%	135	2.8	10,181	10%
Oct 09	5,033	23%	104	2.2	13,233	10%
Oct 15	3,379	22%	80	2.2	13,217	10%
Oct 22	2,215	1%	76	2.0	13,448	2%
Oct 29	2,099	4%	72	1.8	12,121	10%
Nov 05	2,124	1%	73	1.7	20,127	60%
Nov 12	1,967	1%	67	1.7	20,224	10%
Nov 19	1,801	4%	60	1.6	17,589	10%
Nov 26	2,090	1%	70	1.8	18,371	4%
Dec 03	2,771	37%	80	2.5	22,719	11%
Dec 10	11,889	82%	402	7.0	18,287	12%
Dec 17	12,429	88%	5,786	10.6	17,104	10%
Dec 24	98,437	98%	3,373	27.3	18,704	10%
Dec 31	110,406	13%	5,797	10.3	18,284	10%
Jan 07	88,877	10%	3,217	25.3	18,577	17%
Jan 14	47,414	40%	1,625	10.2	19,842	10%
Jan 21	23,396	50%	809	14.8	7,931	17%
Jan 28	14,617	30%	569	10.5	6,389	10%
Feb 04	18,896	20%	680	11.2	6,389	10%
Feb 11	4,885	17%	160	3.7	4,714	11%
Feb 18	9,176	30%	309	3.8	3,872	20%
Feb 25	2,121	13%	73	2.0	2,713	10%
Mar 04	1,876	21%	57	2.6	2,284	10%
Mar 11	1,729	3%	53	1.7	1,811	11%
Mar 18	3,009	79%	103	3.5	3,947	80%
Apr 15	6,170	104%	211	6.5	1,639	40%
Jul 30	140	140	396	16.9	307	

CountyLabel

- ☒ Alachua
- ☒ Baker
- ☒ Bay
- ☒ Bradford
- ☒ Brevard
- ☒ Broward
- ☒ Calhoun
- ☒ Charlotte
- ☒ Citrus
- ☒ Clay
- ☒ Collier
- ☒ Columbia
- ☒ Dade
- ☒ DeSoto
- ☒ Duval
- ☒ Escambia
- ☒ Flagler
- ☒ Franklin

[Salemi USF: COVID-19 Cases in Florida](#)

[April 28, 2022 Florida Covid Stats: What Is Really Happening?](#)

[April 22, 2022 Florida Covid Stats: What Is Really Happening?](#)

Data released by the state on September 22nd tells us **nothing** about the amount of change:

COVID-19 Weekly Situation Report: County Overview

Previous week (September 16, 2022 - September 22, 2022)



County	2022 population	Cumulative (since March 1, 2020)				Previous week (September 16, 2022 - September 22, 2022)			
		People 6+ months old vaccinated	Percent of 6+ months old vaccinated	Cases	Case positivity	People 6+ months old vaccinated	Cases	New case positivity	Cases per 100,000 population
Florida	22,324,144	16,032,216	72%	7,106,653	28.9%	5,402	17,438	8.4%	78.1
Alachua	277,875	189,492	69%	83,806	28.7%	107	258	8.2%	92.8
Baker	29,061	12,425	43%	10,030	37.8%	4	41	23.0%	141.1
Bay	178,978	98,448	55%	52,636	33.8%	24	131	10.1%	73.2
Bradford	28,931	13,538	47%	8,716	37.4%	4	38	12.6%	131.3
Brevard	626,267	423,458	68%	165,122	28.4%	95	467	10.4%	74.6
Broward	1,963,035	1,610,242	82%	729,934	27.5%	386	1,593	8.1%	81.1
Calhoun	14,755	5,633	38%	4,650	37.5%	1	5	2.4%	33.9
Charlotte	197,297	139,555	71%	44,870	27.9%	22	171	11.8%	86.7
Citrus	152,579	90,754	60%	36,614	31.6%	12	164	8.9%	107.5
Clay	228,176	126,533	56%	63,493	34.8%	27	193	11.0%	84.6
Collier	406,310	302,449	75%	98,669	26.5%	108	253	10.6%	62.3
Columbia	71,427	32,866	46%	24,398	39.0%	8	50	5.7%	70.0
Dade	2,892,370	2,834,099	99%	1,451,171	28.3%	1,591	2,966	6.7%	102.5

[Salemi USF: COVID-19 in Florida](#)

To evaluate the trend in Covid infections among children during the week of September 16–22, 2022, we can compare the current report to the one from two weeks earlier:

COVID-19 Weekly Situation Report: Demographics Overview

Previous week (September 16, 2022 - September 22, 2022)



Demographic	2022 population	Cumulative (since March 1, 2020)				Previous week (September 16, 2022 - September 22, 2022)			
		People 6+ months old vaccinated	Percent 6+ months old vaccinated	Cases	Case positivity	People 6+ months old vaccinated	Cases	New case positivity	Cases per 100,000 population
All ages	22,324,144	16,032,216	72%	7,106,653	28.9%	5,402	17,438	8.4%	78.1
<6 months	116,667			26,369			111		95.1
6 months-4 years	1,049,999	26,429	3%	200,339	22.6%	967	509	4.0%	48.5
5-11 years	1,709,114	428,719	25%	422,482	26.3%	672	532	4.0%	31.1
12-19 years	1,982,626	1,274,804	64%	655,582	30.0%	522	886	7.1%	44.7
20-29 years	2,735,328	1,806,976	66%	1,137,912	32.4%	1,007	1,850	8.6%	67.6
30-39 years	2,857,581	2,081,308	73%	1,167,126	31.9%	969	1,919	7.8%	67.2
40-49 years	2,690,641	2,155,538	80%	1,038,406	31.5%	554	1,994	8.7%	74.1
50-59 years	2,944,284	2,475,783	84%	998,794	29.4%	404	2,509	8.7%	85.2
60-64 years	1,482,302	1,308,042	88%	411,854	26.4%	130	1,465	9.6%	98.8
65+ years	4,755,602	4,474,617	94%	1,046,258	24.3%	177	5,659	10.1%	119.0
Unknown				1,531	7.5%		4	60.0%	

COVID-19 Weekly Situation Report: Demographics Overview

Previous week (September 2, 2022 - September 8, 2022)



Demographic	2022 population	Cumulative (since March 1, 2020)				Previous week (September 2, 2022 - September 8, 2022)			
		People 6+ months old vaccinated	Percent 6+ months old vaccinated	Cases	Case positivity	People 6+ months old vaccinated	Cases	New case positivity	Cases per 100,000 population
All ages	22,324,144	16,017,132	72%	7,066,234	28.8%	4,231	28,791	12.4%	129.0
<6 months	116,667			26,078			256		219.4
6 months-4 years	1,049,999	24,313	2%	199,124	22.6%	733	988	7.4%	94.1
5-11 years	1,709,114	426,820	25%	421,197	26.3%	572	1,213	8.6%	71.0
12-19 years	1,982,626	1,273,131	64%	653,244	30.0%	419	2,546	15.8%	128.4
20-29 years	2,735,328	1,804,301	66%	1,133,505	32.3%	843	3,128	13.1%	114.4
30-39 years	2,857,581	2,078,757	73%	1,162,504	31.9%	683	3,529	12.7%	123.5
40-49 years	2,690,641	2,154,103	80%	1,033,693	31.4%	401	3,358	13.0%	124.8
50-59 years	2,944,284	2,475,209	84%	993,095	29.4%	320	4,068	13.1%	138.2
60-64 years	1,482,302	1,308,187	88%	408,547	26.3%	96	2,155	13.1%	145.4
65+ years	4,755,602	4,472,311	94%	1,033,725	24.1%	164	7,550	12.4%	158.8
Unknown				1,522	7.5%			40.0%	

Children under 5 are now separated into two age brackets based upon their vaccination eligibility. During this week, 111 infants <6 months old tested positive, a decrease of 38% from 180 a week earlier. For ages 6 months–4 years, cases decreased by 28% to 509 from 706. Overall, children <5 had a 30% decline in positive tests reported to the state in one week.

This week, 532 elementary-aged children tested positive, a decrease of 29% over last week (753). Ages 12–19 had 886 positive reports, a 39% decline from 1,452. Combining these age groups yields a 36% decrease.

[Salemi USF: COVID-19 in Florida](#)

There were more cumulative cases reported for children under five in the June 16th report (192,875) than in the June 30th report (191,640). That gives us -1,235 for the week of June 17–23, 2022, at precisely the time when the state was preventing vaccination of that age group:

COVID-19 Weekly Situation Report: Demographics Overview

Previous week (June 24, 2022 - June 30, 2022)



Demographic	2022 population	Cumulative (since March 1, 2020)				Previous week (June 24, 2022 - June 30, 2022)			
		People 6+ months old vaccinated	Percent 6+ months old vaccinated	Cases	Case positivity	People 6+ months old vaccinated	Cases	New case positivity	Cases per 100,000 population
All ages	22,324,144	15,866,087	71%	6,493,977	27.6%	11,794	74,481	19.4%	333.6
<6 months	116,667			21,464			521		446.6
6 months-4 years	1,049,999	4,305	0%	170,176	21.5%	3,429	2,438	16.6%	232.2

COVID-19 Weekly Situation Report: Demographics Overview

Previous week (June 10, 2022 - June 16, 2022)



Demographic	2021 population	Cumulative (since March 1, 2020)				Previous week (June 10, 2022 - June 16, 2022)			
		People vaccinated	Percent 5+ vaccinated	Cases	Case positivity	People vaccinated	Cases	New case positivity	Cases per 100,000 population
All ages	21,975,117	15,339,625	74%	6,345,663	27.2%	4,711	74,323	17.2%	338.2
<5	1,167,863			192,875	20.6%		2,807	13.2%	240.4

[June 30, 2022 Florida Covid Stats: What Is Really Happening?](#)

[June 16, 2022 Florida Covid Stats: What Is Really Happening?](#)

The 2021–2022 school year began on August 10th, and the Hillsborough County School District instituted a mandatory mask mandate on August 18th. They ended it on October 15th. Florida law prohibits requiring masks in non-medical settings and now leaves the decision about quarantining after a close contact at school to the child's parents.

[HCSD: Covid Frequently Asked Questions](#)

A study of schools with more than 1.1 million students and 157,000 staff members determined a 72% drop of in-school Covid transmission occurred with mandatory mask policies instead of optional or partial masking.

Healthcare workers who wore respirator masks like N95s had half the risk of getting Covid compared to colleagues who wore surgical masks.

[NIH: Mandatory Masking in Schools Reduced COVID-19 Cases During Delta Surge](#)

[MedPage: Healthcare Workers Who Wear Better Masks Get Less COVID](#)

The Hillsborough County School District published a notice effective January 31, 2022:

“The Florida Department of Health has shifted COVID-19 case investigation focus to: ‘high-congregate settings’ (nursing homes/skilled nursing/assisted living facilities, correctional facilities, homeless shelters, group homes) at high risk for secondary transmission or poor health outcomes among their residents as a result of COVID-19 infection. Public schools and daycare settings are not considered congregate settings.”

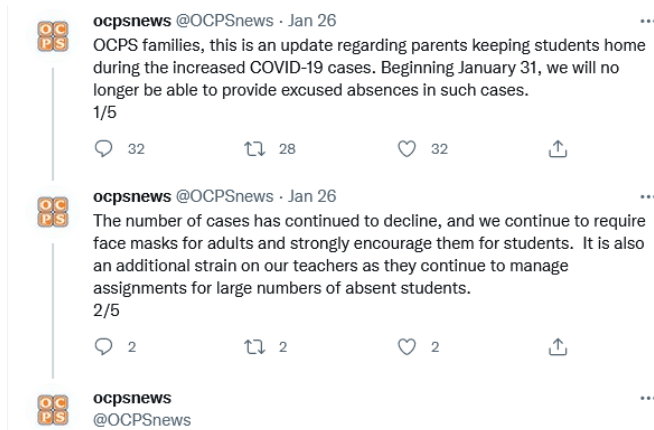


During the week leading up to that announcement 38,629 school-aged children in Florida had tested positive.

[Hillsborough County School District: COVID-19 Student Protocol](#)

[Jan 27, 2022 Florida Covid Stats: What Is Really Happening](#)

On January 26th, the Orange County School District announced that the state will no longer permit excused absences for Covid effective January 31st. Children who quarantined after a Covid exposure would be considered truant:



Additionally, the State has not extended the quarantine code to to be used in accommodation of absences in our attendance records, so students should be considered truant for non-attendance. We simply must discontinue the provision.

[Orange County School District: Unexcused Absences for Covid](#)

Schools closed for the summer after May 26th. As of May 23, 2022, there had been 29,000 cases during that school year in the Hillsborough County School District:



This dashboard is no longer posted online for the school year which began on August 10, 2022:



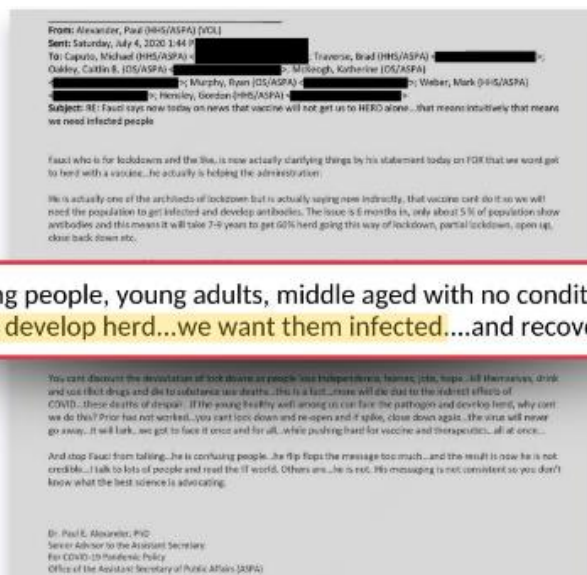
[Hillsborough County Public Schools Covid Dashboard](#)

Florida Covid Testing and Prevention:

A report released by the US House Select Subcommittee on the Coronavirus Crisis in June 2022 explains Florida's approach to the pandemic:

In March 2020, a radiologist named Scott Atlas began pushing the federal government to stop “a massive overreaction” that was “inciting irrational fear.” He claimed that SARS-CoV-2 would kill about 10,000 Americans, a number so small that it “would be unnoticed” compared to influenza. Dr. Atlas advocated isolating high-risk people and exposing lower-risk Americans to the virus as quickly as possible. Masks and widespread social distancing would prevent that from happening, so he eschewed them.

On July 4, 2020, another like-minded Trump Administration official wrote this:



Dr. Deborah Birx pointed out that many Americans over 70 live in multi-generational households, to no avail.

Dr. Atlas advised Ron DeSantis on Florida's Covid response. Several months later, Jared Kushner secretly hired him to join the Trump Administration. Mr. Kushner told him to hide his badge and had him anonymously join Coronavirus Task Force online meetings for the first two weeks he was employed there, because Dr. Birx "would be extremely sensitive and upset and threatened if I came in."

A memorandum written by Dr. Atlas called "Strategy for Moving Forward Covid-19" stated this:

* The current strategy is misguided, because it is focused too broadly on "stopping all cases" and widespread testing. Stopping all cases is not necessary, nor is it possible. It instills irrational fear into the public. Non-prioritized testing is jeopardizing critical resources for truly critical testing and is creating problematic delays in test results for the most important populations. **Moreover, it sets up an unattainable goal that is harming this president.** Instead, we need a strategic policy that leverages what we now know, and what can be accomplished, and we need to instill new confidence in the American people.

He also claimed, "...emerging research adding insights into immunity and suggesting that herd immunity may arise with a far lower population infection rate than originally thought... We expect to see more cases with more social interactions, because this is a contagious disease."

In August 2020, Dr. Atlas invited several doctors to the White House who agreed with his approach. **One of them was Dr. Joseph Ladapo, who now serves as the Florida Surgeon General.** Dr. Birx sent this email to the vice president's chief of staff, calling them "a fringe group without grounding in epidemics, public health, or on the ground common sense experience":

From: "Birx, Deborah L. EOP/NSC" <[REDACTED]>
Date: Tuesday, August 25, 2020 at 7:55 AM
To: "Short, Marc T. EOP/OVP" <[REDACTED]>
Subject: FW: For Review: Draft POTUS Remarks - Meeting with Medical Experts

I can't be part of this with these people who believe in herd immunity and believe we are fine with only protecting the 1.5M Americans in LTCF and not the 80M + with co-morbidities in the populations included the unacceptable death toll among Native Americans, Hispanics and Blacks. With our current mitigation scenario we end up near 300K by Christmas and 500K by the time we have vaccine – close to the 600K live lost with 1918 Flu. We have worked to find a path that is the least disruptive to the economy but moves us under R1 and saves both the economy and American lives. Without masks and social distancing in public and homes we end up with twice as many deaths – we are a very unhealthy nation with a lot of obesity etc – we will never look as good as even Sweden due to our co-morbidities. These are people who believe that all the curves are predetermined and mitigation is irrelevant – they are a fringe group without grounding in epidemics, public health or on the ground common sense experience. I am happy to go out of town or whatever gives the WH cover for Weds. Perhaps do Annapolis and meet with Hogan. Fauci and I could probably do it together – I am open to options. Deb

The group met anyway.

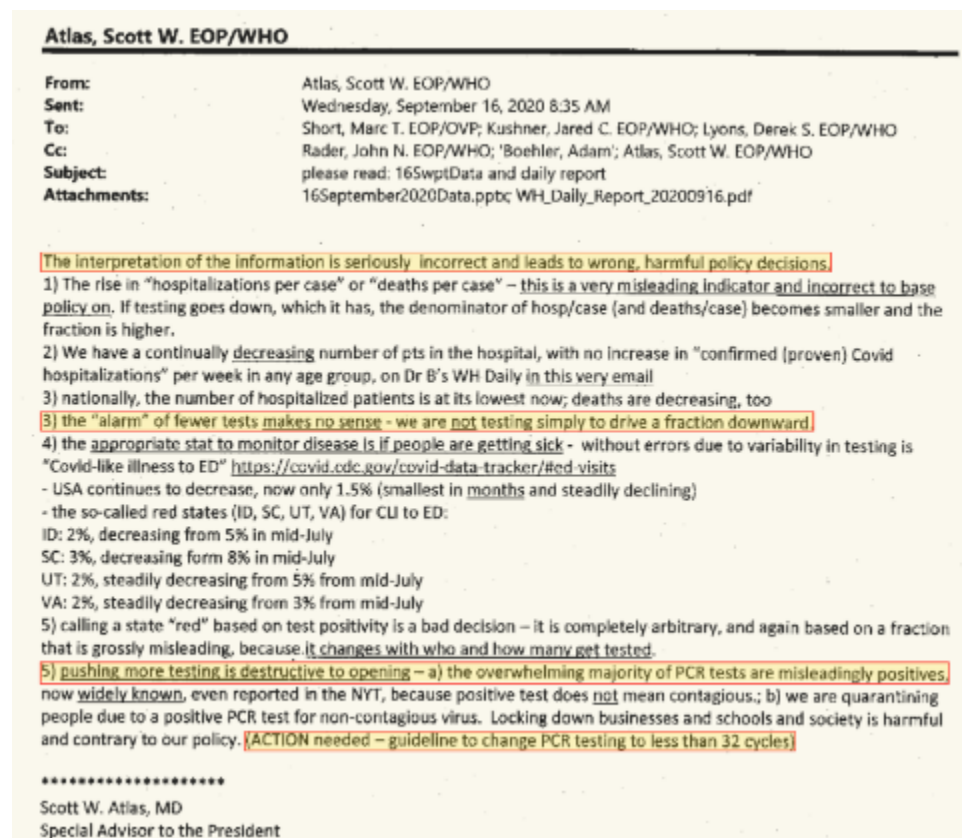
During her testimony to the House Select Subcommittee, Dr. Birx called the meeting "dangerous", and said, "any credibility given to these individuals in this moment while we were headed into the fall would be dangerous for our overall response and ability to contain the virus."

Fearing that large-scale testing was harmful because it would interfere with achieving herd immunity and lead to “lockdowns [which would] hurt Americans more than the virus,” Dr. Atlas wrote this on August 3, 2020:

* broad population testing of asymptomatic people is not a priority – tens of millions of people have been infected; the action item if positive (quarantining asymptomatic, low-risk people) would be both hugely disruptive to society, and interfere with the critical population immunity needed to eradicate the threat (not to mention contrary to American values of personal freedom); and the perception of “needing a test” adds to fear and subsumes needed resources for priority tests;

After fierce debate, the testing guidance was drastically weakened against the wishes of the CDC director. An unknown person removed the recommendation for people without symptoms to self-isolate for 14 days after close contact with an infected person. Testing declined significantly.

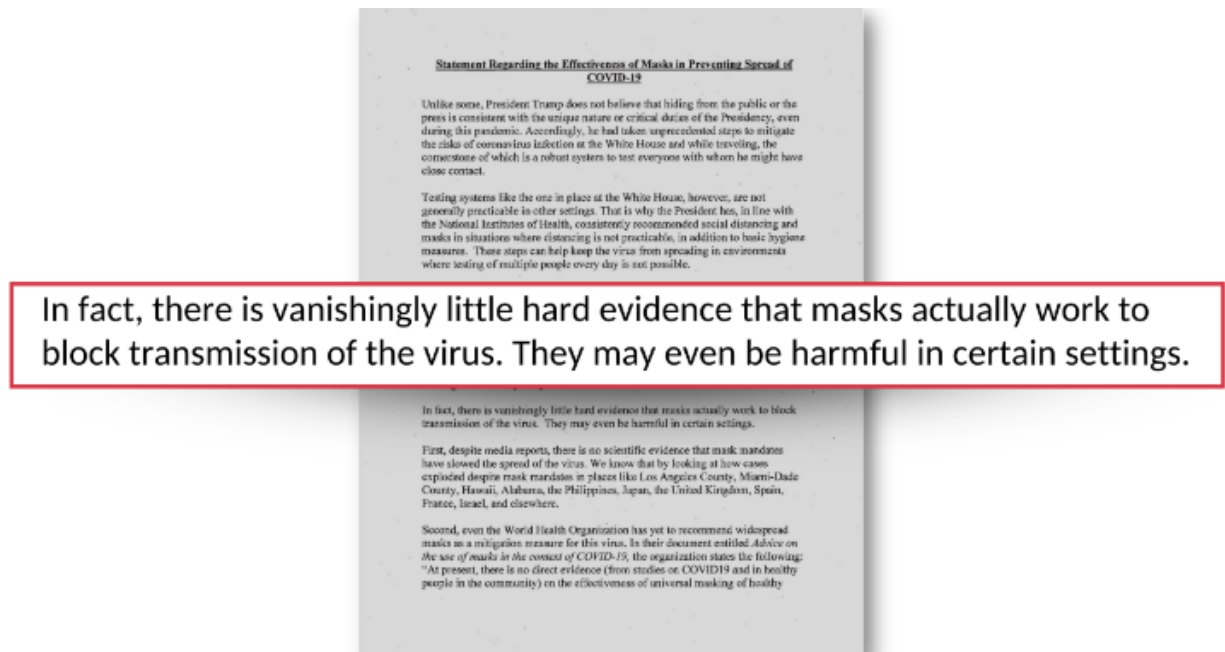
In September, Dr. Atlas sent an email claiming that PCR tests were “misleadingly positive.” His “remedy” was to make the lab work stop after fewer cycles, making the virus harder to detect:



Three weeks after restrictions were loosened, the CDC reinstated 14 days of isolation even with a negative test.

When Jared Kushner read a draft tweet created for President Trump to ask everyone to wear a mask to slow viral spread, Dr. Atlas objected that it wasn’t consistent with the president’s disparagement of masks. It was weakened to read “only if you cannot socially distance.” Dr.

Atlas then wrote several op-eds claiming that masking could be harmful due to contamination and giving a false sense of security:



His anti-mask program enabled the spread of the virus, perfectly in keeping with his desire to get as many people infected quickly as possible. The subcommittee cited Dr. Atlas' schemes to promote herd immunity as a major factor in the subsequent rejection of vaccines by many Americans.

While meeting with the House Select Subcommittee on the Coronavirus, multiple former senior officials on the White House Coronavirus Task Force emphasized that Dr. Atlas severely impaired the effectiveness of the pandemic response. Dr. Birx estimated that 130,000 more lives were lost due to those decisions, which closely mirror what we have seen implemented by the DeSantis Administration in Florida. You can find a link to the full report here:

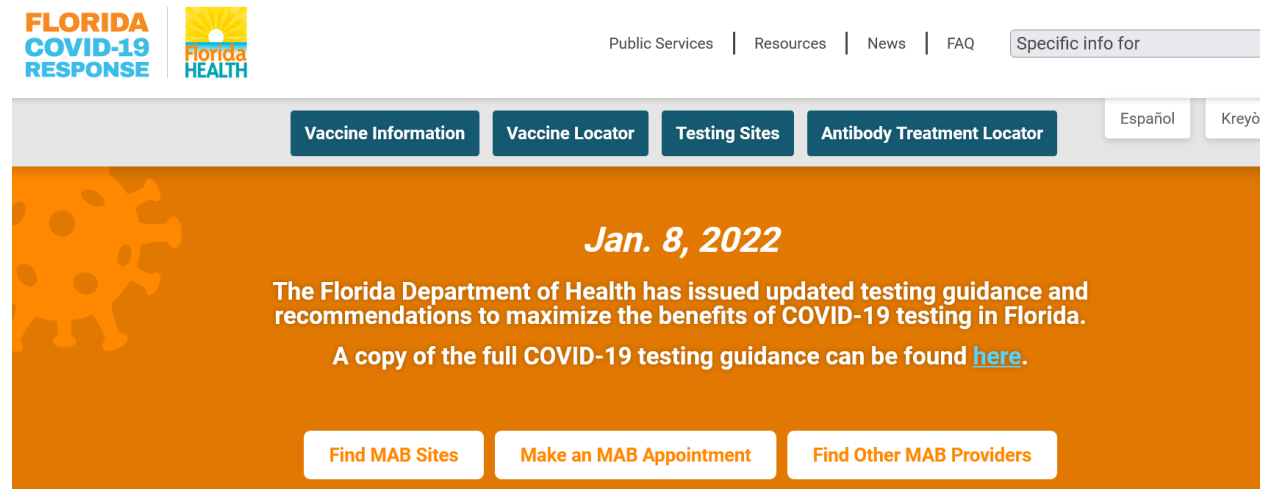
[MedPage: Report Shows Trump Administration Embraced Herd Immunity via Mass Infections—The Strategy Likely Contributed to Many Preventable Deaths, Report Notes](#)

With omicron reinfections becoming common, we now know that achieving herd immunity against SARS-CoV-2 is a myth, yet their tactics have not changed.

[Becker Hospital Review: How Omicron changed the Reinfection Landscape](#)

A scandal erupted on December 30, 2021, concerning 1,000,000 expired antigen tests sitting in a warehouse. At that time, it was virtually impossible to find an at-home test. On January 3, 2022, the Florida Surgeon General decried the "testing psychology" which seeks to identify all Covid cases to slow the rate of community transmission.

On January 6th, the governor announced the state was shipping 1,000,000 test kits to long-term care and nursing facilities. Florida's web site shifted its focus to testing. Specifically, that people who are not high-risk should avoid it:



[The Hill: Florida Surgeon General Blasts “Testing Psychology” around COVID-19](#)

[Florida Covid-19 Response](#)

[The Hill: DeSantis Administration Says It Let a Million COVID-19 Tests Expire in Florida Warehouse](#)

[The Hill: Florida Sending 1 Million Free COVID-19 Tests to Elderly Communities](#)

On February 7th, the Florida Department of Health officially reprimanded two testing companies which failed to report the results of 230,000 Covid tests taken during December and January.

[Tampa Bay Times: Florida Contractors Didn't Report 230,000 COVID Tests on Time During Omicron Wave](#)

Until September 2nd, every household in the US was eligible to receive 3 shipments of 4 free Covid tests from the federal government at [Covid.gov](#). That came to an end due to funding cuts. However, Medicare Part B will cover up to 8 tests/month at participating pharmacies.

The shift to home-based testing with the first omicron wave is highly likely to result in an under-reporting of Covid cases. The CDC advises those with a positive at-home test to report the results to their doctor.

[The Hill: Federal Government to Halt Free COVID-19 At-home Tests by Early September](#)

[Medicare: Coronavirus Disease 2019 \(COVID-19\) Diagnostic Tests](#)

High quality masks do work. Healthcare workers who wore respirator masks like N95s had half the risk of getting Covid compared to colleagues who wore surgical masks.

[MedPage: Healthcare Workers Who Wear Better Masks Get Less COVID](#)

Public health officials recommend maintaining a positivity rate less than 5% for two weeks before reopening. That means enough testing is taking place to capture even asymptomatic cases.

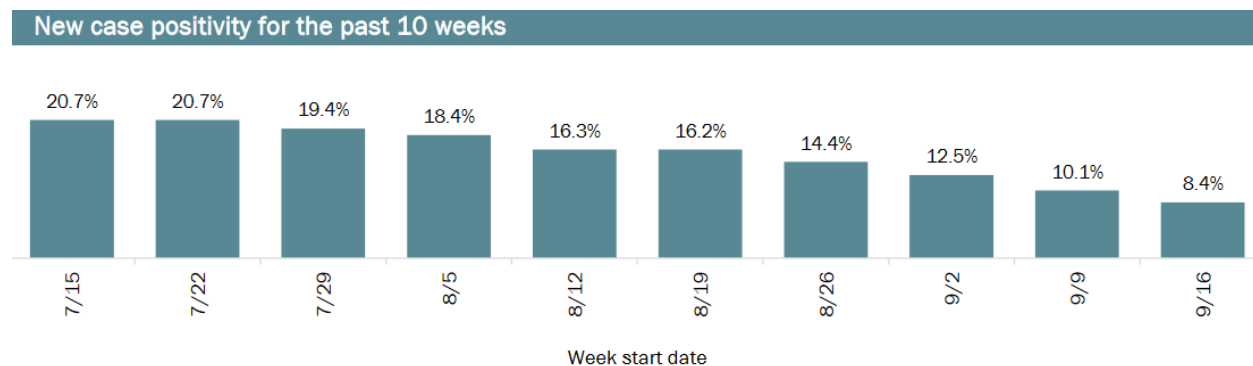
[JHU: COVID-19 Testing: Understanding the “Percent Positive”](#)

Florida crossed the 5% threshold during April 9–21, 2022:



[June 2, 2022 Florida Covid Stats: What Is Really Happening?](#)

The Florida Department of Health reported an average of 8.4% on September 22, 2022:

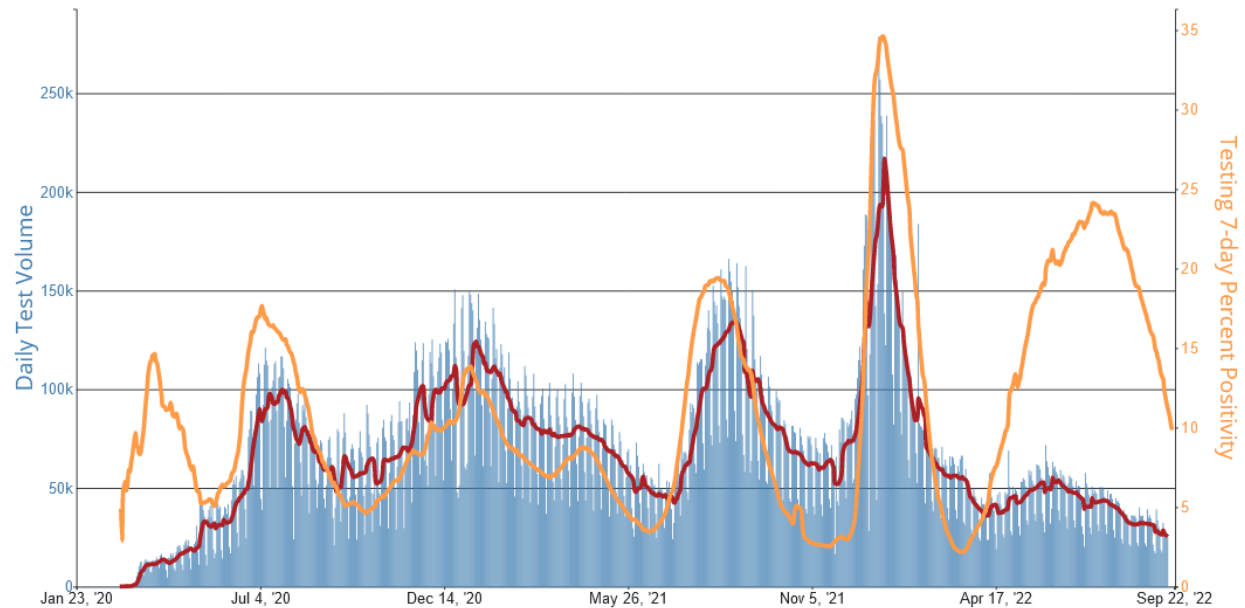


[Salemi USF: COVID-19 in Florida](#)

For the week ending September 22nd, Florida claimed an 8.4% positivity rate. The data the state reported to the CDC indicates that April 20th was the last time it was that low. There is a consistent pattern of underreporting the positivity rate in the Florida Department of Health reports by about two points.

Seven-day positivity rate averages during September 16–22 trended downward with a range of 11.23% to 9.40%, with an average of 10.25% (-20%). That means there were about 36,000 cases in Florida during September 16–22, 2022 (-43%):

Daily Nucleic Acid Amplification Tests (NAATs) Performed and COVID-19 Nucleic Acid Amplification Tests (NAATs) 7-day Percent Positivity in Florida Reported to CDC



[CDC: Florida Daily Covid Testing](#)

Dr. Salemi was posting very helpful county-level data until April 22nd. Unfortunately, his site no longer includes county-level data since the crash of his hard drive:



COVID-19 in
Florida

Last update:
Fri, 04/22/2022

Next update:
Fri, 04/29/2022

FLORIDA FOCUS
NATIONAL
COMMUNITY
PROFILE
VACCINES
NATIONALLY
CURRENTLY

4/28/2022: ATTENTION ALL USERS

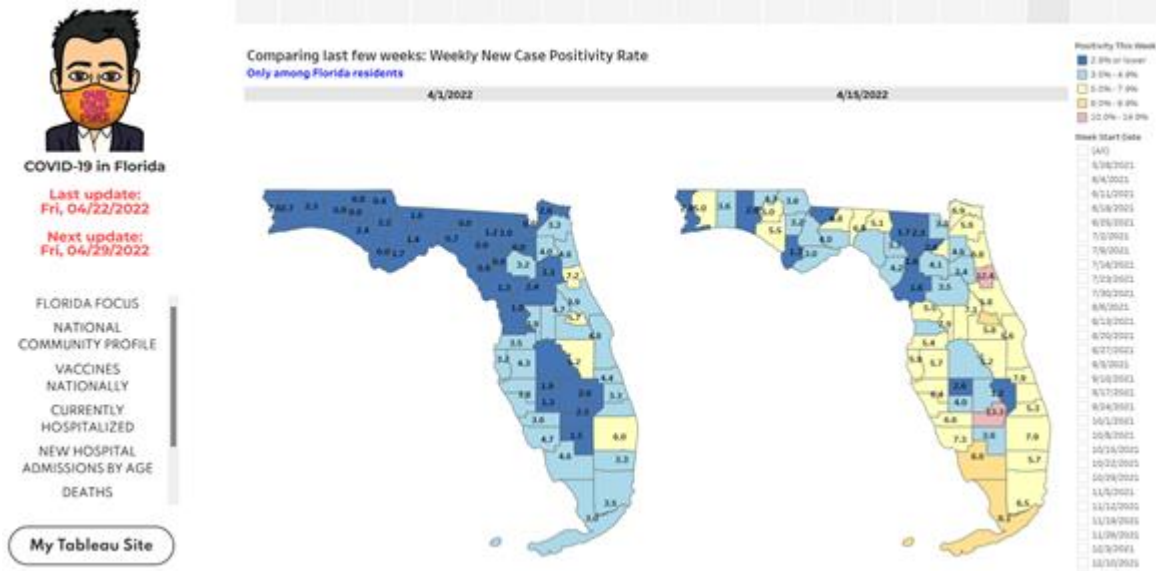
This week, I had a catastrophic hard drive failure which compromised my COVID-19 dashboard.

Although the Tableau file itself was backed up, the 50 or so modified source datasets that feed into the dashboard were lost (I just received word from the data recovery folks at my university).

I will have to rebuild many aspects of the dashboard, and this will take quite a while (perhaps a few weeks) since I am also at a very busy portion of the academic year.

I will leave the dashboard in its current state - up and available for everyone - and will begin refreshing as soon as possible.

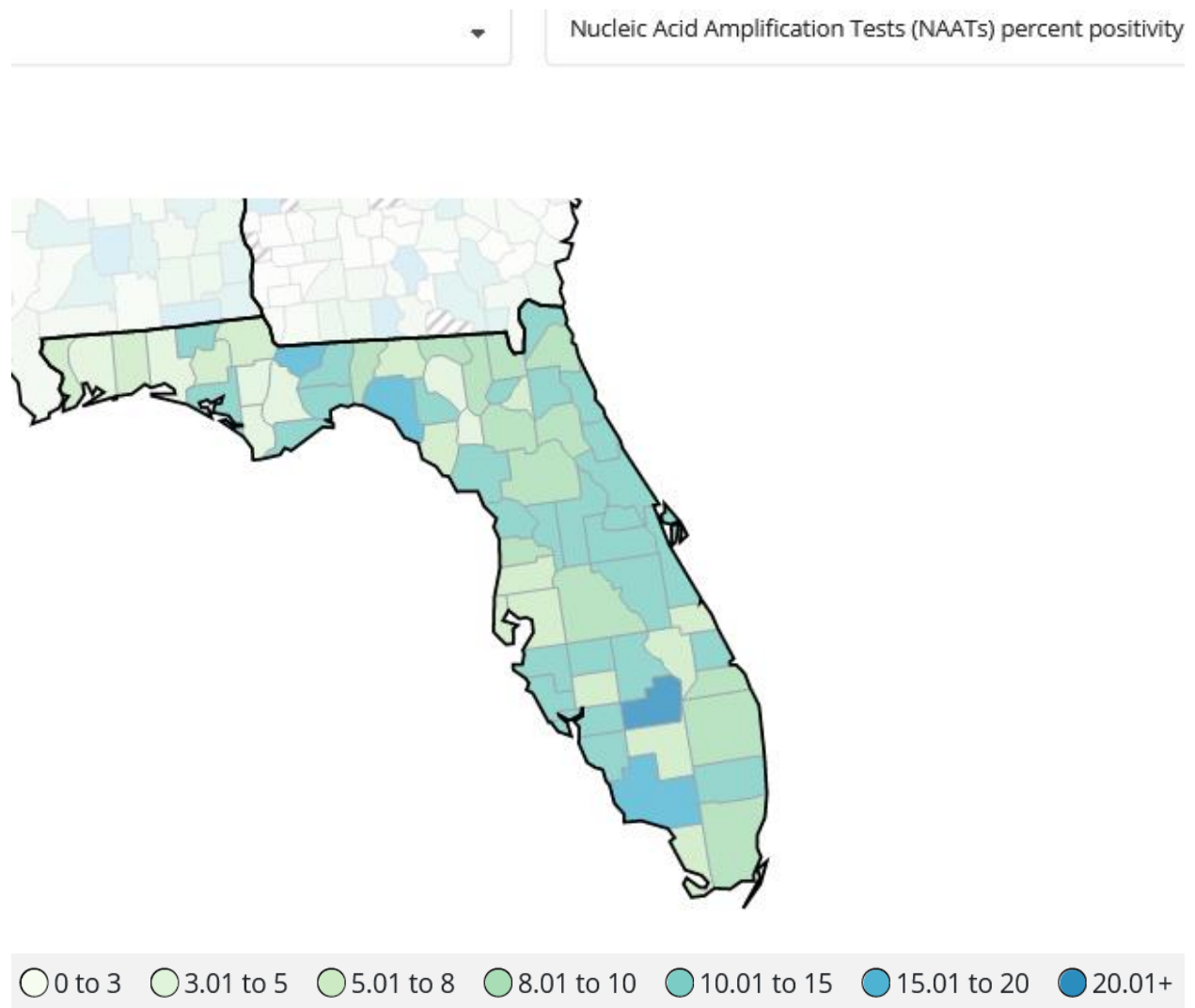
My sincere apologies - this is a service I've been providing for over 2 years, non-stop, and it pains me that this has happened.



[Salemi USF: COVID-19 in Florida](#)

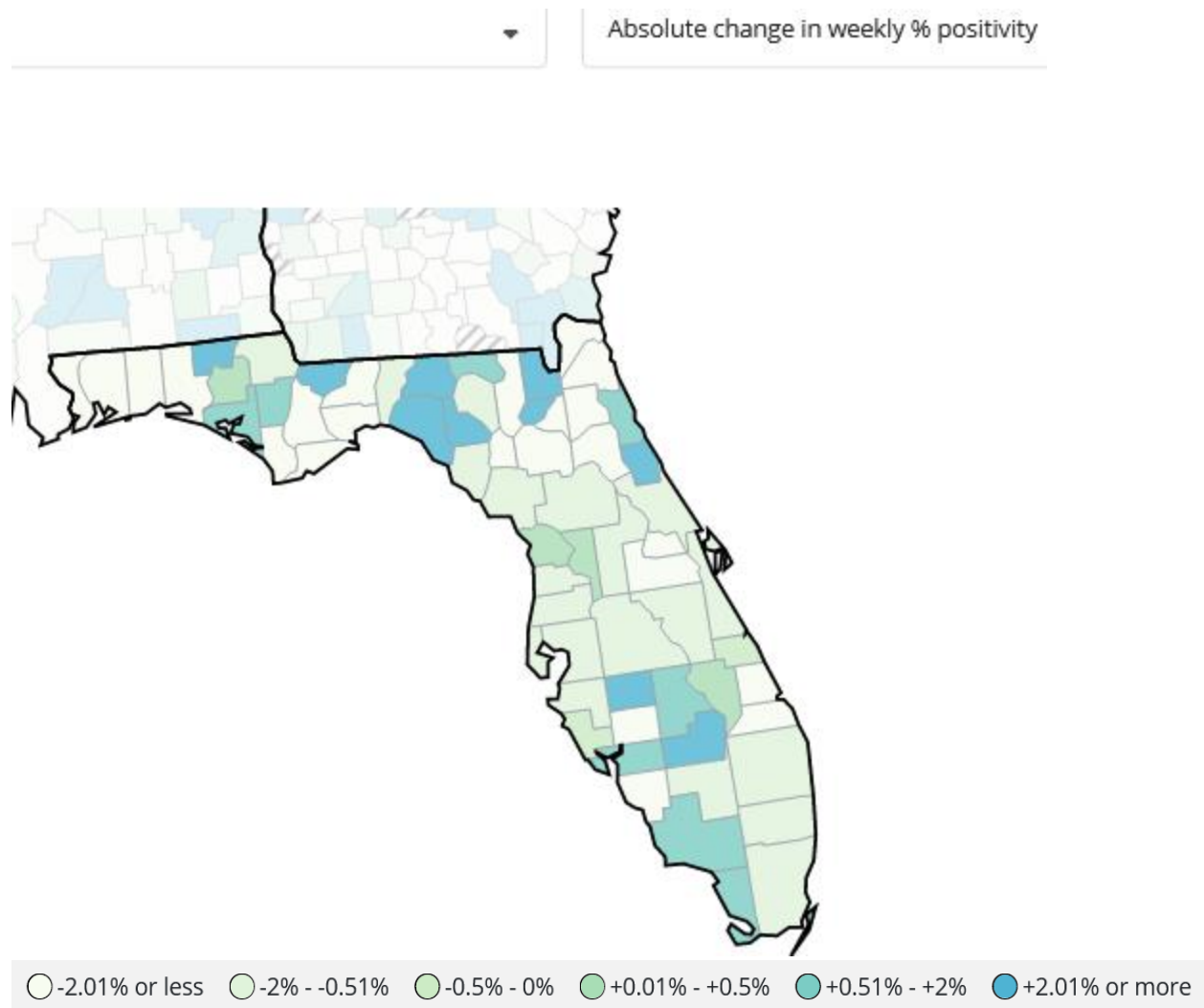
[April 22, 2022 Florida Covid Stats: What Is Really Happening?](#)

On September 24, 2022, 60 of the 67 counties in Florida exceeded the 5% threshold. Four of them were above 15%. Disney's location (Orange County) had a 10.5% positivity rate:



[CDC: Florida Positivity Percentages by County](#)

Twenty counties reported increases this week. Half of them increased by at least two full percentage points, up from two a week earlier. Most of these counties are in the Panhandle and in Southwest Florida. Twenty-two fell by at least two points, down from 45 of them a week ago. You can check on the amount of change in your county's positivity rate by going to the link under this map:



[CDC: Florida Change in Weekly Percentage of Positivity by County](#)

Covid Therapeutics in FL:

Until January 8th, the state continued to emphasize monoclonal antibody treatment as the focus of the Covid-19 Response web site:

FLORIDA COVID-19 RESPONSE **FLORIDA HEALTH**

Public Services | Resources | News | FAQ | Specific info for

Vaccine Information | Vaccine Locator | Testing Sites | Antibody Treatment Locator

Español | Kreyòl Ayisyen

Jan. 4, 2022

Monoclonal Antibody Therapy is Widely Available In Florida

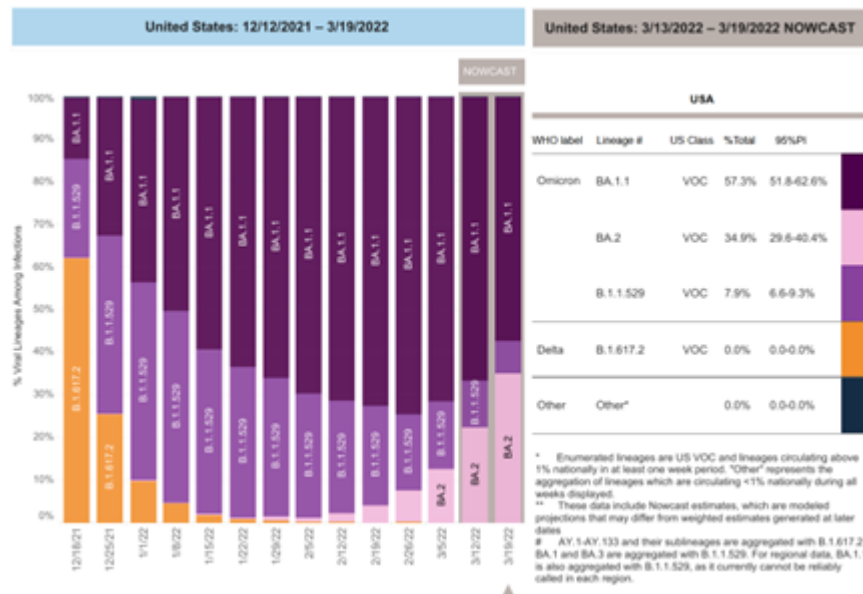
MAB for COVID-19 can prevent severe illness, hospitalization, and death.
You're eligible for MAB if you have been exposed or have COVID-19, and you're at high risk for severe illness.
Treatment is free and your vaccinations status doesn't matter.

Find MAB Sites | Make An Appointment | Find Other MAB Providers

What you need to know now about

[Florida Covid-19 Response](#)

Mutations which have resulted in the omicron variants render ineffective almost all the monoclonal antibodies previously in use, including the antibody combination used in Regeneron against the delta variant (imdevimab and casirivimab). In the US, 100% of new cases were due to the omicron strains by January 29, 2022:

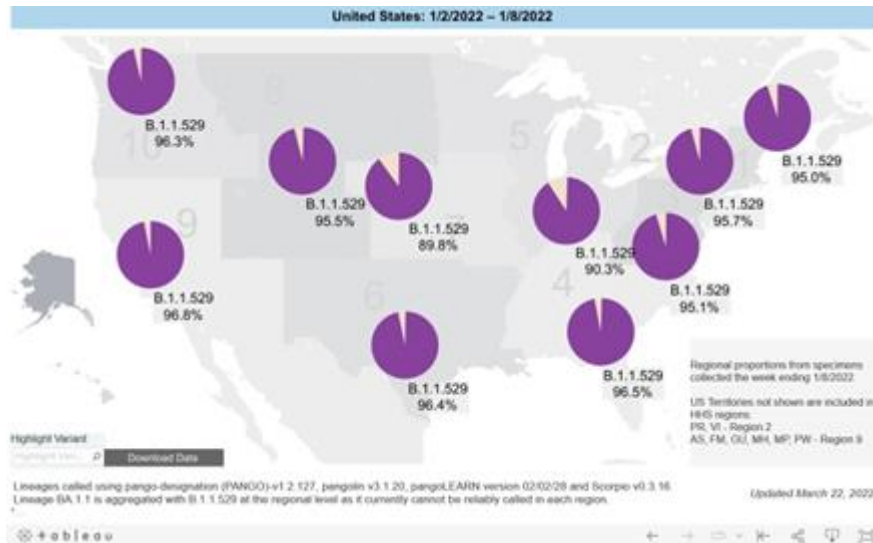


[Covid-19: The Omicron Variant](#)

[NEJM: Efficacy of Antibodies and Antiviral Drugs Against Covid-19 Omicron Variant](#)

[March 24, 2022 Florida Covid Stats: What Is Really Happening?](#)

For the week ending January 8th, 97% of sequenced cases in the region which includes Florida were omicron:



[CDC: Variant Proportions](#)

[Jan 13, 2022 Florida Covid Stats: What Is Really Happening?](#)

At that time, there was only one monoclonal antibody produced in the US which could attach to circulating omicron BA.1 particles. Sotrovimab worked against the original omicron variant and omicron BA.1 at a dosage three times that required to neutralize the delta variant.

[Covid-19: The Omicron Variant](#)

[NEJM: Efficacy of Antibodies and Antiviral Drugs Against Covid-19 Omicron Variant](#)

During the first week of January 2022, hospitals in Florida used 140 of the state's stockpile of 4,400 Sotrovimab doses, in contrast to over 2,700 doses of the ineffective Regeneron monoclonal antibody. On January 18th, the state announced the opening of additional monoclonal antibody infusion centers to distribute what remained of the 15,000 additional doses of Regeneron secured on January 7th.

[Tampa Bay Times: Omicron Undermines Florida's Strategy to Combat Coronavirus: Gov. Ron DeSantis Continues to Tout Monoclonal Antibody Therapies, but New Evidence Shows Their Effectiveness Against COVID-19 Is Waning](#)

[Florida Health: Florida to Open Additional Monoclonal Antibody Therapy Treatment Sites](#)

A week later, the FDA revised its Emergency Use Authorizations for the two components of Regeneron, prohibiting their use against the omicron variant. The federal government stopped shipping those monoclonal antibodies. Why the state continued to emphasize this until at least July 25th is mystifying:

[Public Services](#) | [Resources](#) | [News](#) | [FAQ](#)[Vaccine Information](#)[Vaccine Locator](#)[Testing Site Locator](#)[Treatment Locator](#)

July 25, 2022

On April 5, 2022, the U.S. Food and Drug Administration (FDA) revised the [Emergency Use Authorization \(EUA\)](#) to [discontinue the administration of sotrovimab](#).

[Bebtelovimab](#) is Florida's only available monoclonal antibody treatment.

On January 24, 2022, the U.S. Food and Drug Administration (FDA) revised the [Emergency Use Authorizations \(EUA\)](#) for Eli Lilly's bamlanivimab-etesevimab and Regeneron's [REGEN-COV monoclonal antibody treatments](#), discontinuing their use by any U.S. state or jurisdiction. The full Florida Department of Health press release can be found [here](#).

Those notices have finally been removed:

[Public Services](#) | [Resources](#) | [News](#) |[Vaccine Information](#)[Vaccine Locator](#)[Testing Site Locator](#)[Treatment Locator](#)

What you need to know now about COVID-19 in Florida

Older adults, those with underlying medical conditions (like chronic lung diseases, heart conditions, diabetes, smoking, etc.), and those pregnant and recently pregnant are at [increased risk](#) for severe illness. Here's what you can do right now.

[Florida Covid-19 Response](#)

Governor DeSantis accused the Biden Administration of having no clinical evidence, despite the manufacturers of both antibodies noting they had become ineffective:



Daniel Dale ✓
@ddale8

As the DeSantis administration rails against the FDA decision to limit use of monoclonal antibody treatments made by Regeneron and Eli Lilly, worth noting both companies say they agree with the feds that these drugs aren't effective against omicron.

Regeneron left, Lilly right:

The original REGEN-COV antibody cocktail has been administered to millions of people globally and works well against Delta and other serious variants of concern. We are very proud of this medicine and the critical role it has played during the pandemic. However, it does not work against the Omicron variant in lab tests, which tells us that it is also not going to work in people who are infected with this variant. According to the [CDC](#), over 99% of COVID-19 cases in the U.S. are now caused by the Omicron variant, and thus the FDA's decision to amend the Emergency Use Authorization was appropriate at this time.

It's important for us all to now focus on creating and increasing safe treatment options that will work against Omicron, as well as Delta and even future variants. We have a next generation antibody candidate that, based on preclinical studies, is active against Omicron, Delta and other VOCs. We are in the process of scaling this candidate up and completing the necessary requirements to begin human testing. We'll continue to work closely with the FDA to determine how to bring new safe and effective treatment options to patients as quickly as possible.

The FDA has updated the Fact Sheet for bamlanivimab and etesevimab to include a new Limitation for Authorized Use: due to the high frequency of the Omicron variant, these therapies are not currently authorized in any U.S. region.

Lilly and the FDA agree that it is not medically appropriate, at this time, to treat patients with mild to moderate COVID-19 with bamlanivimab and etesevimab together in the U.S. Evaluation of both pseudovirus and authentic virus confirm that they are not effective at treating the currently predominant Omicron variant. Authorization status will change as needed, depending on prevalence and trends of variants of concern.

Authentic virus analysis of Lilly's third investigational antibody therapy, bebtelovimab, confirm our earlier pseudovirus findings, which demonstrate our investigational antibody potentially inactivates all known variants of concern, including Omicron. We are



Ron DeSantis ✓ @GovRonDeSantis · Jan 25

Without a shred of clinical data to support its decision, the Biden Administration has revoked the emergency use authorization for lifesaving monoclonal antibody treatments.

[Show this thread](#)

1:03 PM · Jan 25, 2022 · Twitter for iPhone

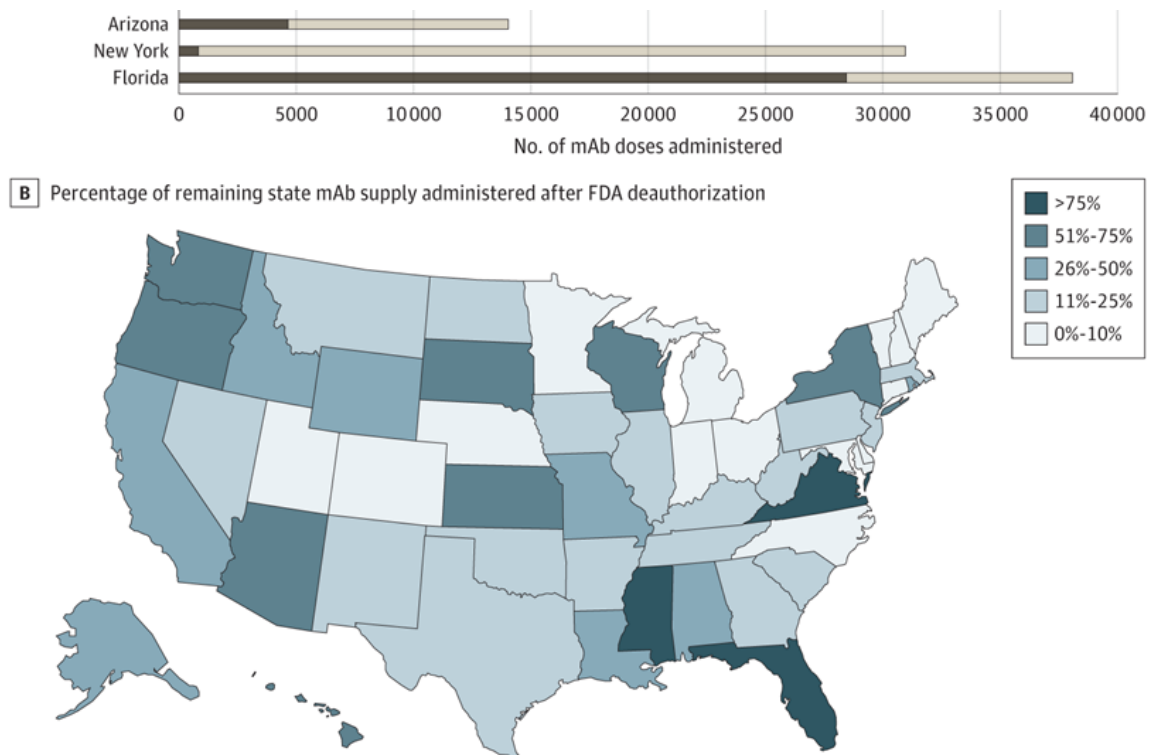
[FDA: Coronaviruses \(COVID-19\) Update: FDA Limits Use of Certain Monoclonal Antibodies to Treat COVID-19 Due to the Omicron Variant](#)

[Daniel Dale: DeSantis vs Regeneron and Lilly](#)

[Abcellera: Statement on the Neutralization Activity of Its Monoclonal Antibody Therapies Against the Omicron Variant of Concern](#)

[Ron DeSantis: Governor DeSantis Condemns Biden Administration's Haphazard Decision to Revoke Authorization of Lifesaving Monoclonal Antibody Treatments](#)

Nevertheless, Florida administered over 37,500 doses of ineffective monoclonal antibodies after the FDA announced they were no longer authorized for use. Monoclonal antibodies can trigger severe side effects:

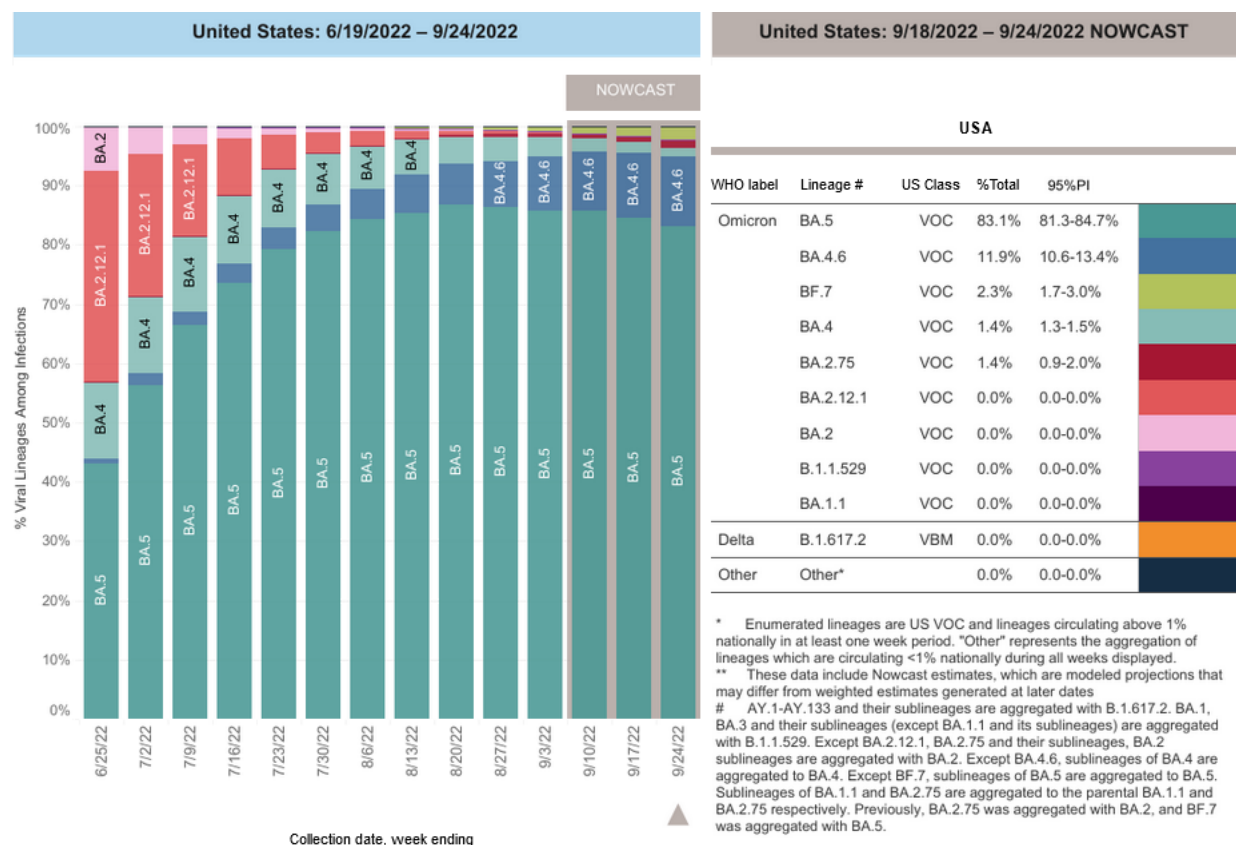


A, Total number administered. B, Percentage of mAb supply administered.

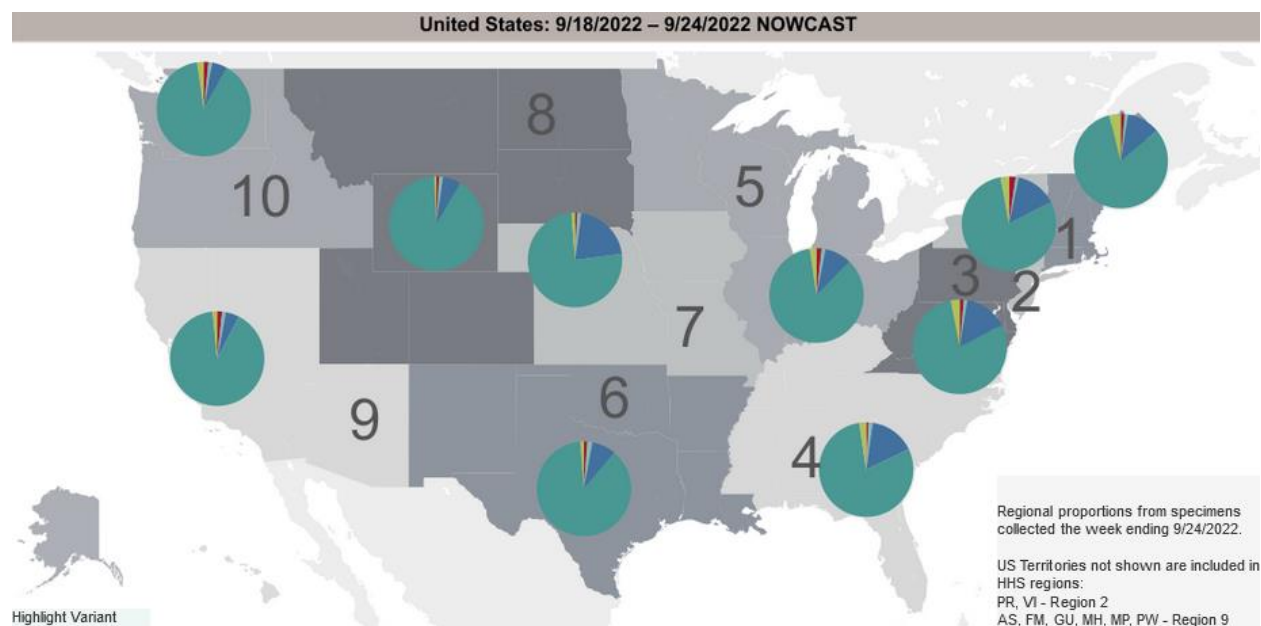
[JAMA: Administration of Anti-SARS-CoV-2 Monoclonal Antibodies After US Food and Drug Administration Deauthorization](#)

[Regen-Cov: January 24, 2022: REGEN-COV Usage Revisions and Important Safety Information](#)

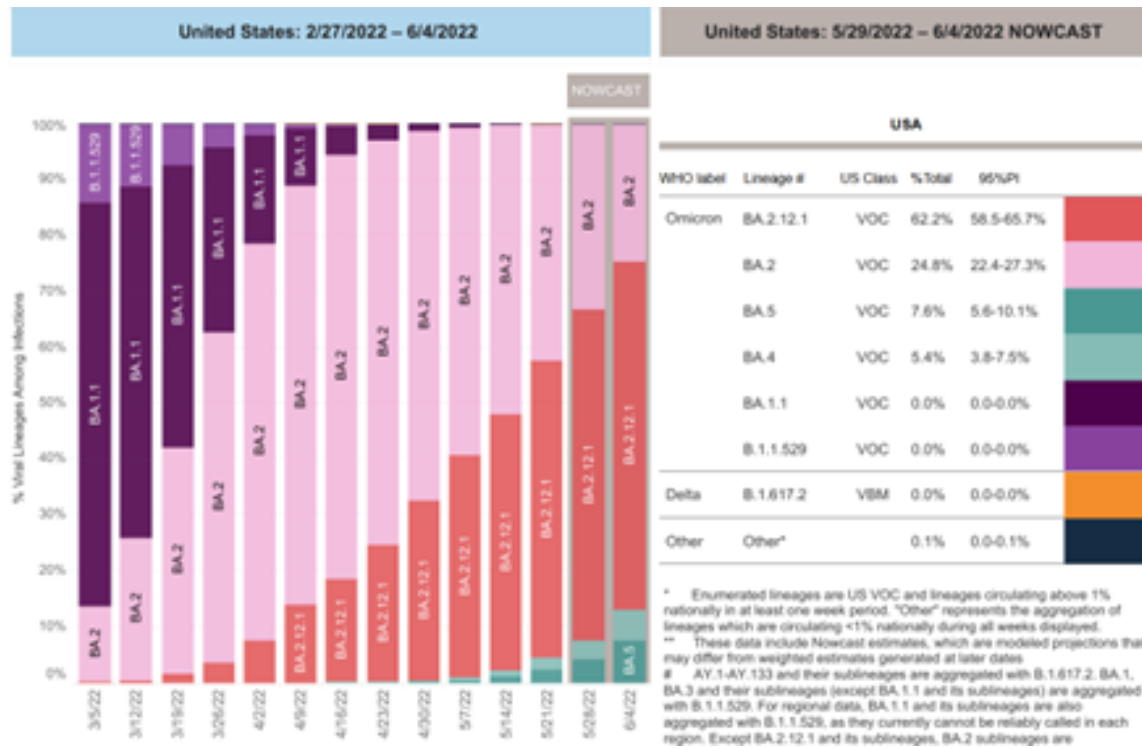
The subvariants called BA.4 and BA.5 were first detected in the US in late May 2022. They have rapidly replaced earlier versions of SARS-CoV-2. BA.2.75 is found in 1% of samples tested. The CDC has separated BA.4.6 from its ancestor, BA.4 and BF.7 from BA.5. During September 18–24, BA.5 accounts for 83% of US samples; BF.7 for 2%; BA.4.6 for 12%; and BA.4 for 1%:



In this map, deep red indicates BA.2.75, light green designates BA.4, blue represents BA.4.6, dark green depicts BA.5, and pea green indicates BF.7. In the region which includes Florida during September 18–24, 2022, the percentage of BA.2.75 is at 1%; BA.4 dropped to 1%; BA.4.6 rose to 16%, and BA.5 dropped to 80%. BF.7 remained at 2%:



Sotrovimab is 27 times less effective against BA.2 than for BA.1 and ineffective for newer subvariants. Therefore, on April 5, 2022, the FDA amended the Emergency Use Authorization to revoke the use of Sotrovimab nationwide:



[CDC: Variant Proportions](#)

[June 2, 2022 Florida Covid Stats: What Is Really Happening?](#)

[Does Any Monoclonal Antibody Work Against BA.2?—Pre-print Lab Data Cast Doubt on the One Remaining Effective Antibody Treatment](#)

[BioRxiv: Antibody Evasion Properties of SARS-CoV-2 Omicron Sublineages](#)

[MedPage: COVID Antivirals Appear to Hold Up Against BA.2—In Lab Study, Monoclonal Antibodies Required Much Higher Concentrations Versus Omicron Subvariant](#)

[FDA: Update \[4/5/2022\] FDA Revokes Use of Sotrovimab to Treat COVID-19 Nationwide Due to the BA.2 Omicron Sub-variant](#)

The September 15, 2022, update of this chart indicates that a different monoclonal antibody called bebtelovimab neutralizes omicron BA.275, BA.4 and BA.5. In this chart, not being highlighted means an antibody works well:

Table 1: Virus variants and spike mutations vs monoclonal antibodies**Fold reduced neutralizing susceptibility to monoclonal antibodies under Emergency Use Authorization (EUA)**

Test\mAb	BAM	ETE	BAM/ETE	CAS	IMD	CAS/IMD	CIL	TIX	CIL/TIX	SOT	BEB	ADI
Alpha	1 ₂₂	11 ₁₉	1.3 ₉	1 ₃₁	0.6 ₃₂	0.9 ₁₄	0.6 ₁₃	1.5 ₁₃	0.8 ₁₄	1.8 ₂₈	0.9 ₈	1.3 ₆
Beta	>1000 ₂₇	474 ₂₄	990 ₁₂	76 ₃₇	0.6 ₃₇	1.6 ₁₉	1.1 ₁₃	5.8 ₁₅	2 ₁₅	1 ₂₈	1 ₈	2.8 ₆
Gamma	>1000 ₁₈	348 ₁₅	404 ₄	124 ₂₄	0.4 ₂₄	1 ₉	0.5 ₁₁	3.7 ₁₁	0.9 ₁₀	1 ₂₃	1 ₅	2.2 ₆
Delta	>1000 ₂₃	0.4 ₂₃	1 ₉	0.7 ₃₀	2 ₃₁	1.5 ₁₂	2.5 ₁₂	1 ₁₃	1 ₁₆	1.1 ₂₇	1 ₁₁	1.5 ₇
Omicron/BA.1	>1000 ₃₇	428 ₃₇	887 ₁₄	>1000 ₄₄	>1000 ₄₅	>1000 ₁₈	272 ₄₀	264 ₄₂	50 ₂₆	3.8 ₅₁	1 ₂₁	110 ₁₇
Omicron/BA.2	>1000 ₂₃	504 ₂₃	794 ₁₃	>1000 ₂₉	259 ₂₈	387 ₁₆	2.1 ₂₇	641 ₂₆	7.5 ₂₂	23 ₃₇	1.1 ₂₃	>1000 ₁₅
Omicron/BA.2.12.1	>1000 ₉	432 ₉	776 ₆	>1000 ₁₀	361 ₁₀	143 ₇	3 ₁₀	382 ₁₀	9.5 ₇	19 ₁₁	1 ₁₀	>1000 ₅
Omicron/BA.4/5	853 ₁₂	408 ₁₂	554 ₇	>1000 ₁₅	488 ₁₅	387 ₆	9.2 ₁₅	>1000 ₁₅	25 ₁₁	21 ₁₇	1 ₁₃	968 ₈
Omicron/BA.2.75	705 ₅	333 ₅	554 ₃	221 ₅	>1000 ₅	>1000 ₃	19 ₅	30 ₅	25 ₃	13 ₅	3.1 ₅	673 ₄

This chart from a preprint study indicates that Bebtelovimab is effective against BA.4.6. The same article notes that it also neutralizes BF.7:

E Therapeutic monoclonal antibodies

Pseudovirus IC50 (ng/mL)	BA.4/5	BA.5.9 (R346I)	BA.4.6 (R346T)	BA.1 (R346T)
Etesevimab (LY-CoV016)	*	*	*	*
Bamlanivimab (LY-CoV555)	*	*	*	*
Bebtelovimab (LY-CoV1404)	0.8	1.3	1.0	1.4
Casirivimab (REGN10933)	*	*	*	*
Imdevimab (REGN10987)	520	2701	2195	1362
Tixagevimab (COV2-2196)	*	*	*	*
Cilgavimab (COV2-2130)	23	*	*	*
Amubarvimab (BRS-196)	7124	4023	4356	3395
Romusevimab (BRS-198)	*	*	*	*
Sotrovimab (S309)	1055	4780	3543	2899
Adintrevimab (ADG-2)	*	*	*	*
Etesevimab+Bamlanivimab	*	*	*	*
Casirivimab+Imdevimab	709	3498	4388	2420
Tixagevimab+Cilgavimab	40	*	*	*
Amubarvimab+Romusevimab	*	7695	8307	5209

<100 100~1,000 >1,000 * >10,000

[Medical News Today: The Latest Omicron Subvariant: What We Know So Far about BA.2.12.1](#)

[Stanford Univ: Coronavirus Antiviral and Resistance Database](#)

[DPZ: Emerging Omicron Subvariants BA.2.12.1, BA.4, and BA.5 are Inhibited Less Efficiently by Antibodies](#)

[MedRxiv: Further Humoral Immunity Evasion of Emerging SARS-CoV-2 BA.4 and BA.5 Subvariants](#)

On February 10, 2022, the US Department of Health and Human Services announced the purchase of enough Bebtelovimab to treat 600,000 people. It began shipping nation-wide within a week.

[Public Health Emergency: State/Territory-Coordinated Weekly Distribution of COVID-19 Therapeutics](#)

On April 25, 2022, the federal government changed its allocation method to one aligned with vaccine delivery and switched to a new web page:

COVID-19 Therapeutics Threshold Determinations

April 25, 2022 – September 25, 2022

	Paxlovid (Standard and Renal)	Lagevrio (molnupiravir)	Bebtelovimab	Evusheld	Total
September 19-September 25, 2022	612,060	91,920	-	0	703,980
September 12-September 18, 2022	612,060	91,920	-	0	703,980
September 6, 2022: Bebtelovimab Final Allocation	-	-	19,500	-	19,500
September 5-September 11, 2022	612,060	91,920	-	0	703,980
August 29-September 4, 2022	613,580	92,352	0	203,736	909,668
August 22-August 28, 2022	612,060	91,920	21,915	0	725,895
August 15-August 21, 2022	612,060	91,920	29,060	0	733,040
August 8-August 14, 2022	612,060	91,896	29,110	0	733,066
August 1-August 7, 2022	612,260	92,328	29,760	203,760	938,108
July 25-July 31, 2022	610,340	91,896	29,190	0	731,426
July 18-July 24, 2022	642,695	113,368	29,250	0	785,313
July 11-July 17, 2022	596,955	114,400	29,200	0	740,555
July 4-July 10, 2022	575,715	114,856	29,210	0	719,781
June 27-July 3, 2022	590,085	114,576	28,710	201,168	934,539
June 20-June 26, 2022	579,120	109,896	28,985	0	718,001
June 13-June 19, 2022	405,084	71,664	29,060	0	505,808
June 6-June 12, 2022	444,225	92,828	29,140	240	566,433
May 30-June 5, 2022	459,638	100,820	29,630	200,808	790,896
May 23-May 29, 2022	473,106	115,960	29,100	0	618,166
May 16-May 22, 2022	463,417	105,036	29,040	0	597,493
May 9-May 15, 2022	386,965	107,208	29,110	0	523,283
May 2-May 8, 2022	348,160	108,920	29,000	199,992	686,072
April 25-May 1, 2022	386,700	177,120	30,000	0	593,820

The US delivered a final allocation of 85 doses of bebtelovimab to Florida on September 7th:

Final Allocation of Bebtelovimab

September 7, 2022

Jurisdiction	Bebtelovimab
Grand total	19,500
Alabama	290
Alaska	50
American Samoa	20
Arizona	405
Arkansas	175
Bureau of Prisons	2,285
California	325
Colorado	215
Connecticut	60
Delaware	50
Department of Defense	40
Department of State	1,250
District of Columbia	595
Federated States of Micronesia	40
Florida	85

Jurisdiction
Missouri
Montana
NIH
Nebraska
Nevada
New Hampshire
New Jersey
New Mexico
New York
North Carolina
North Dakota
Northern Mariana Islands
Ohio
Oklahoma
Oregon
Palau
Peace Corps

Here is the most recent federal allocation of 8,632 Covid-specific treatments to Florida:

6,520 of the oral Paxlovid

2,112 of the less-effective oral Molnupiravir (Lagevrio)

None of the pre-exposure Evusheld

COVID-19 Therapeutics Thresholds by Jurisdiction

September 19, 2022

Units = doses

Jurisdiction	Paxlovid	Paxlovid (Standard Dose Pack)	Paxlovid (Renal Dose Pack)	Lagevrio	Grand total
Grand total	612,060	567,080	44,980	91,920	703,980
Alabama	1,500	1,380	120	480	1,980
Alaska	360	360	0	72	432
American Samoa	0	0	0	0	0
Arizona	2,110	1,940	170	696	2,806
Arkansas	915	840	75	312	1,227
Bureau of Prisons	70	60	10	24	94
California	11,905	10,960	945	3,840	15,745
Colorado	1,695	1,560	135	552	2,247
Connecticut	1,130	1,040	90	360	1,490
Delaware	385	360	25	96	481
Department of Defense	1,590	1,460	130	528	2,118
Department of State	65	60	5	24	89
District of Columbia	380	360	20	72	452
Federated States of Micronesia	0	0	0	0	0
Florida	6,520	6,000	520	2,112	8,632

HHS: COVID-19 Therapeutics Thresholds, Orders, and Replenishment by Jurisdiction

As of September 18th, Florida patients had used 65% of the state's cumulative Paxlovid deliveries (+1%); 21% of the Lagevrio (Molnupiravir) (+1%); 60% of the Bebtelovimab (+1%); and 46% of the Evusheld (+1%):

Cumulative COVID-19 Therapeutics Delivered and Administered Amounts by Jurisdiction

September 18, 2022

Units = doses/patient courses

Jurisdiction	Paxlovid Delivered	Paxlovid Administered	Lagevrio Delivered	Lagevrio Administered	Bebtelovimab Delivered	Bebtelovimab Administered	Evusheld Delivered	Evusheld Administered
Alabama	110,285	58,957	48,692	22,611	11,799	9,298	7,332	4,150
Alaska	23,480	10,413	9,036	2,209	4,480	2,579	2,280	839
American Samoa	4,870	1,219	584	61	890	570	240	23
Arizona	121,205	72,021	43,560	7,818	11,644	4,337	18,750	5,964
Arkansas	58,710	28,149	31,464	23,092	5,315	3,798	5,598	2,500
California	991,104	665,888	270,401	45,862	82,770	67,966	114,590	87,293
Colorado	98,805	59,975	31,852	5,205	9,055	5,707	18,990	29,343
Connecticut	99,355	66,481	32,704	8,454	8,760	5,418	7,494	4,429
Delaware	24,600	15,111	8,584	2,911	2,365	1,815	2,904	667
District of Columbia	19,700	12,998	3,628	652	1,640	369	3,030	719
Federated States of Micronesia	7,280	2,120	652	294	880	23	720	520
Florida	529,425	346,752	154,600	32,095	64,476	38,949	87,634	40,601

[FDA: Coronavirus \(COVID-19\) Update: FDA Authorizes New Monoclonal Antibody for Treatment of COVID-19 that Retains Activity Against Omicron Variant](#)

[HHS: Secretary Becerra Announces HHS Purchase of 600,000 Treatment Courses of New Monoclonal Antibody that Works Against Omicron](#)

[HHS: COVID-19 Therapeutics by Jurisdiction](#)

On July 6, 2022, the FDA granted pharmacists the authorization to prescribe Paxlovid, citing the need to begin treatment within 5 days of symptoms developing. However, the agency does recommend seeing a physician first whenever possible.

[MedPage: FDA Gives Pharmacists Thumbs Up for Paxlovid Prescribing](#)

On December 8, 2021, the FDA issued an Emergency Use Authorization (EUA) for Evusheld, a monoclonal antibody developed to protect people over the age of 12 with severe immunosuppression against infection. Due to the scarce supply, people with certain cancers or who have received organ transplants receive the highest priority.

Governor DeSantis announced the new preventative was available on December 17th, when Covid was raging through Miami-Dade County. However, the first shipments went to a small private fee-based clinic in Broward County, not to a major medical center. People flew from out of state to receive it. A spokesperson for the state claimed the iCare Clinic received priority because it was open on Christmas and New Year's Day.

Jackson Memorial, the hospital in Miami with the most transplant patients in FL, was to receive it four weeks later. Before that time, 11,000 doses had already been shipped to the state.

[FDA: FDA Authorizes New Long-Acting Monoclonal Antibodies for Pre-Exposure Prevention of COVID-19 in Certain Individuals](#)

[Governor's Office: Governor DeSantis Highlights New Preventative Monoclonal Antibody for Immunocompromised Patients](#)

[Dec 23, 2021 Florida Covid Stats: What Is Really Happening?](#)

[Stat: A Tiny Florida Company Got more of a Scarce Covid Therapy than Some Big Hospitals, Raising Equity Questions](#)

[Miami Herald: Florida Sent Scarce COVID-19 Therapy to a Private Broward Clinic before Jackson Memorial](#)

[Local 10: Jackson, UM Hospital to Receive Shipments of Monoclonal Antibody Doses for Immunodeficient Patients](#)

[Public Health Emergency: State/Territory-Coordinated Weekly Distribution of COVID-19 Therapeutics](#)

Evusheld is a combination of tixagevimab and cilgavimab. It appears to remain effective against BA.4 and BA.5 but at a much higher dosage. On June 29th, the FDA revised the dosage of each component of Evusheld and recommended repeating the shots every 6 months.

Unfortunately, it does not work against the rapidly increasing BA.4.6 and several other subvariants which derive from BA.4 and BA.5, such as BF.7. Currently BA.4.6 accounts for 16% of samples in the region which includes Florida and BF.7 for 2%:

Table 1: Virus variants and spike mutations vs monoclonal antibodies

Fold reduced neutralizing susceptibility to monoclonal antibodies under Emergency Use Authorization (EUA)

Copy to clipboard

Test\mAb	BAM	ETE	BAM/ETE	CAS	IMD	CAS/IMD	CIL	TIX	CIL/TIX	SOT	BEB	ADI
Alpha	1 ₂₂	11 ₁₉	1.3 ₉	1 ₃₁	0.6 ₃₂	0.9 ₁₄	0.6 ₁₃	1.5 ₁₃	0.8 ₁₄	1.8 ₂₈	0.9 ₆	1.3 ₆
Beta	>1000 ₂₇	474 ₂₄	990 ₁₂	76 ₃₇	0.6 ₃₇	1.6 ₁₉	1.1 ₁₃	5.8 ₁₅	2 ₁₅	1 ₂₈	1 ₈	2.8 ₆
Gamma	>1000 ₁₆	348 ₁₆	404 ₄	124 ₂₄	0.4 ₂₄	1 ₉	0.5 ₁₁	3.7 ₁₁	0.9 ₁₀	1 ₂₃	1 ₅	2.2 ₆
Delta	>1000 ₂₃	0.4 ₂₃	1 ₉	0.7 ₃₀	2 ₃₁	1.5 ₁₂	2.5 ₁₂	1 ₁₃	1 ₁₆	1.1 ₂₇	1 ₁₁	1.5 ₇
Omicron/BA.1	>1000 ₃₇	428 ₃₇	887 ₁₄	>1000 ₄₄	>1000 ₄₅	>1000 ₁₈	272 ₄₀	264 ₄₂	50 ₂₈	3.8 ₅₁	1 ₂₁	110 ₁₇
Omicron/BA.2	>1000 ₂₃	504 ₂₃	794 ₁₃	>1000 ₂₉	259 ₂₈	387 ₁₆	2.1 ₂₇	641 ₂₆	7.5 ₂₃	23 ₃₇	1.1 ₂₃	>1000 ₁₅
Omicron/BA.2.12.1	>1000 ₉	432 ₉	776 ₆	>1000 ₁₀	361 ₁₀	143 ₇	3 ₁₀	382 ₁₀	9.5 ₇	19 ₁₁	1 ₁₀	>1000 ₅
Omicron/BA.4/5	853 ₁₂	408 ₁₂	554 ₇	>1000 ₁₅	488 ₁₅	387 ₉	9.2 ₁₅	>1000 ₁₅	25 ₁₁	21 ₁₇	1 ₁₃	968 ₈
Omicron/BA.2.75	705 ₅	333 ₅	554 ₃	221 ₅	>1000 ₅	>1000 ₃	19 ₅	30 ₅	25 ₃	13 ₅	3.1 ₅	673 ₄

E Therapeutic monoclonal antibodies

Pseudovirus IC50 (ng/mL)	BA.4/5	BA.5.9 (R346)	BA.4.6 (R346T)	BA.1 (R468)
Etesevimab (LY-CoV016)	*	*	*	*
Bamlanivimab (LY-CoV555)	*	*	*	*
Bebtelovimab (LY-CoV1404)	0.8	1.3	1.0	1.4
Casirivimab (REGN10933)	*	*	*	*
Imdevimab (REGN10907)	520	2701	2195	1362
Tixagevimab (COV2-2196)	*	*	*	*
Cilgavimab (COV2-2130)	23	*	*	*
Amubarvimab (BR3-196)	7124	4023	4356	3395
Romilusevimab (BR3-198)	*	*	*	*
Sotrovimab (S309)	1055	4780	3543	2899
Adintrevimab (ADG-2)	*	*	*	*
Etesevimab+ Bamlanivimab	*	*	*	*
Casirivimab+ Imdevimab	709	3498	4368	2420
Tixagevimab+ Cilgavimab	40	*	*	*
Amubarvimab+ Romilusevimab	*	7695	8307	5209

<100 100–1,000 >1,000 * >10,000

[MedRxiv: Further Antibody Escape by Omicron BA.4 and BA.5 from Vaccine and BA.1 Serum](#)

[Stanford Univ: Coronavirus Antiviral and Resistance Database](#)

[FDA: FDA Authorizes Revisions to Evusheld Dosing](#)

[MedRxiv: Further Humoral Immunity Evasion of Emerging SARS-CoV-2 BA.4 and BA.5 Subvariants](#)

Florida received a monthly allocation of 12,336 doses of Evusheld on August 29th:

COVID-19 Therapeutics Thresholds by Jurisdiction

August 29, 2022

Units = doses

Jurisdiction	Paxlovid	Paxlovid (Standard Dose Pack)	Paxlovid (Renal Dose Pack)	Lagevrio	Evusheld	Grand total
Grand total	613,580	568,400	45,180	92,352	203,736	909,668
Alabama	1,500	1,380	120	480	2,832	4,812
Alaska	440	360	80	72	432	944
American Samoa	240	220	20	48	48	336
Arizona	2,110	1,940	170	696	3,984	6,790
Arkansas	915	840	75	312	1,728	2,955
Bureau of Prisons	70	60	10	24	144	238
California	11,905	10,960	945	3,840	22,560	38,305
Colorado	1,695	1,560	135	552	3,216	5,463
Connecticut	1,130	1,040	90	360	2,136	3,626
Delaware	385	360	25	96	576	1,057
Department of Defense	1,590	1,460	130	528	3,000	5,118
Department of State	65	60	5	24	120	209
District of Columbia	380	360	20	72	432	884
Federated States of Micronesia	240	220	20	48	48	336
Florida	6,520	6,000	520	2,112	12,336	20,968

[HHS: COVID-19 Therapeutics by Jurisdiction](#)

Covid Hospitalizations in Florida:

You won't find **any** hospitalization information on Florida's Weekly Surveillance Reports. Florida stopped reporting Covid hospitalizations on June 4, 2021. However, Florida must relay all hospitalization data to the US Department of Health and Human Services (HHS).

Florida reported a record 13,028 hospitalizations for Covid-19 on August 24, 2021, to the US Department of Health and Human Services.

[COVID Data Tracker: New Admissions of Patients with Confirmed COVID-19 per 100,000 Population by Age Group](#)

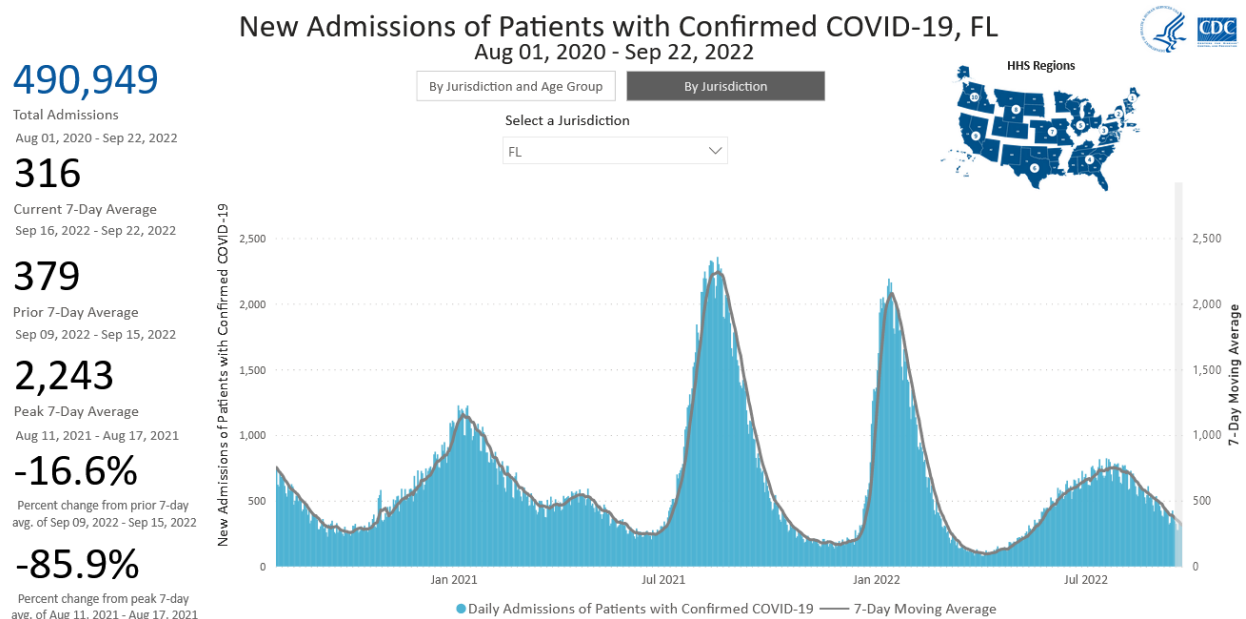
Since the omicron variants became predominant, hospital officials are seeing more incidental Covid cases among people who are in the hospital. Roughly one-third are admitted for a primary diagnosis of Covid; one-third for a Covid infection making an underlying condition worse; and one-third for reasons unrelated to their viral infection.

[WaPo: In the Nation's Hospitals, this Covid Wave Is Different](#)

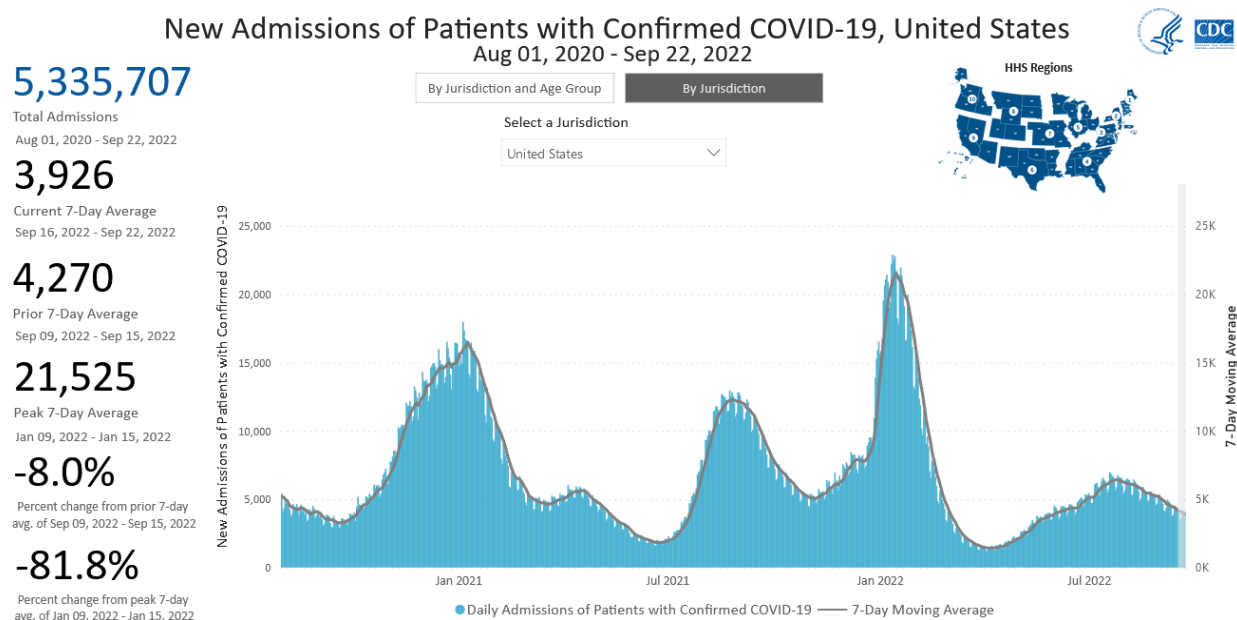
[MedPage: When COVID Pushes Other Conditions Past the “Tipping Point”—Is the Patient Hospitalized “for” COVID, “with” COVID, or Somewhere in Between?](#)

For August 1, 2020–September 22, 2022, Florida has had 490,949 new hospital admissions for Covid patients. This represents 9.2% of *all* Covid admissions for 6.6% of the US population.

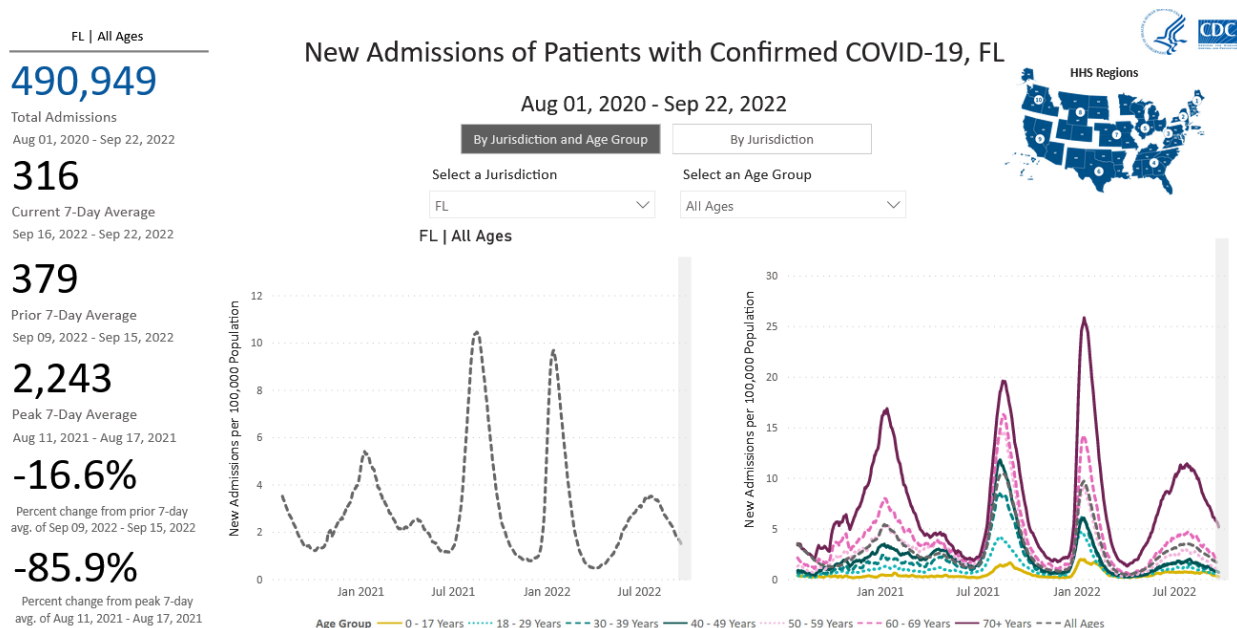
During September 16–22, 2022, there was an average of 316 admissions per day, a total of 2,230. That was a decrease of 17% from the previous week (2,453; 379/day). Nevertheless, that was 86% fewer compared to the peak during August 11–17, 2021, when there were 10.42 admissions/100,000 Floridians:



Here is the information for the entire US. Florida accounted for 8.0% of Covid admissions this week (27,986), down from 14.4% a week earlier:



You can find more detailed hospitalization statistics on the same CDC COVID Data Tracker, choosing Florida as the Jurisdiction and stratifying by any age:



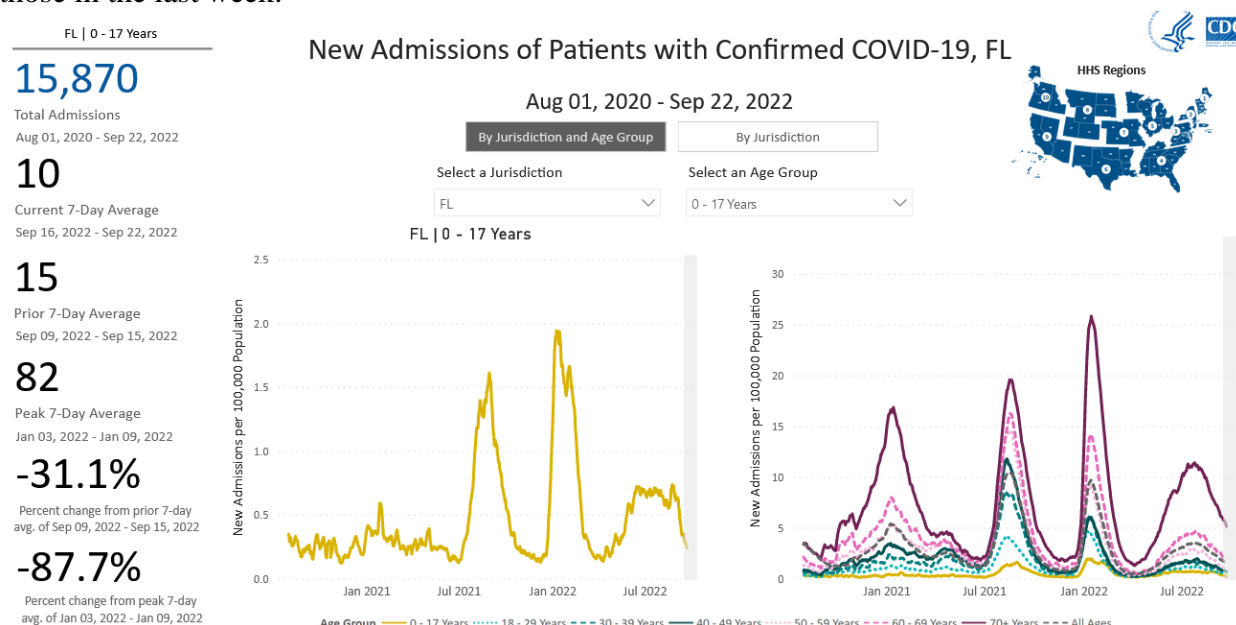
On September 22, 2022, the rate of hospital admissions rose with increasing age. The amount of change for adults this week ranged from -25% (ages 30–39) to -9% (50–59). Pediatric admissions declined by 37%.

Compared to the delta variant wave we encountered in 2021, omicron admissions have been higher for people younger than 30 and older than 69.

There were 1.47 new admissions/100,000 Floridians; 1.76 the week before:

AGE	ADMISSIONS	% CHANGE
0-17	0.24	-37
18-29	0.48	-14
30-39	0.57	-25
40-49	0.66	-18
50-59	0.98	-9
60-69	2.13	-11
<u>70+</u>	<u>5.88</u>	<u>-12</u>
all	1.76	-16

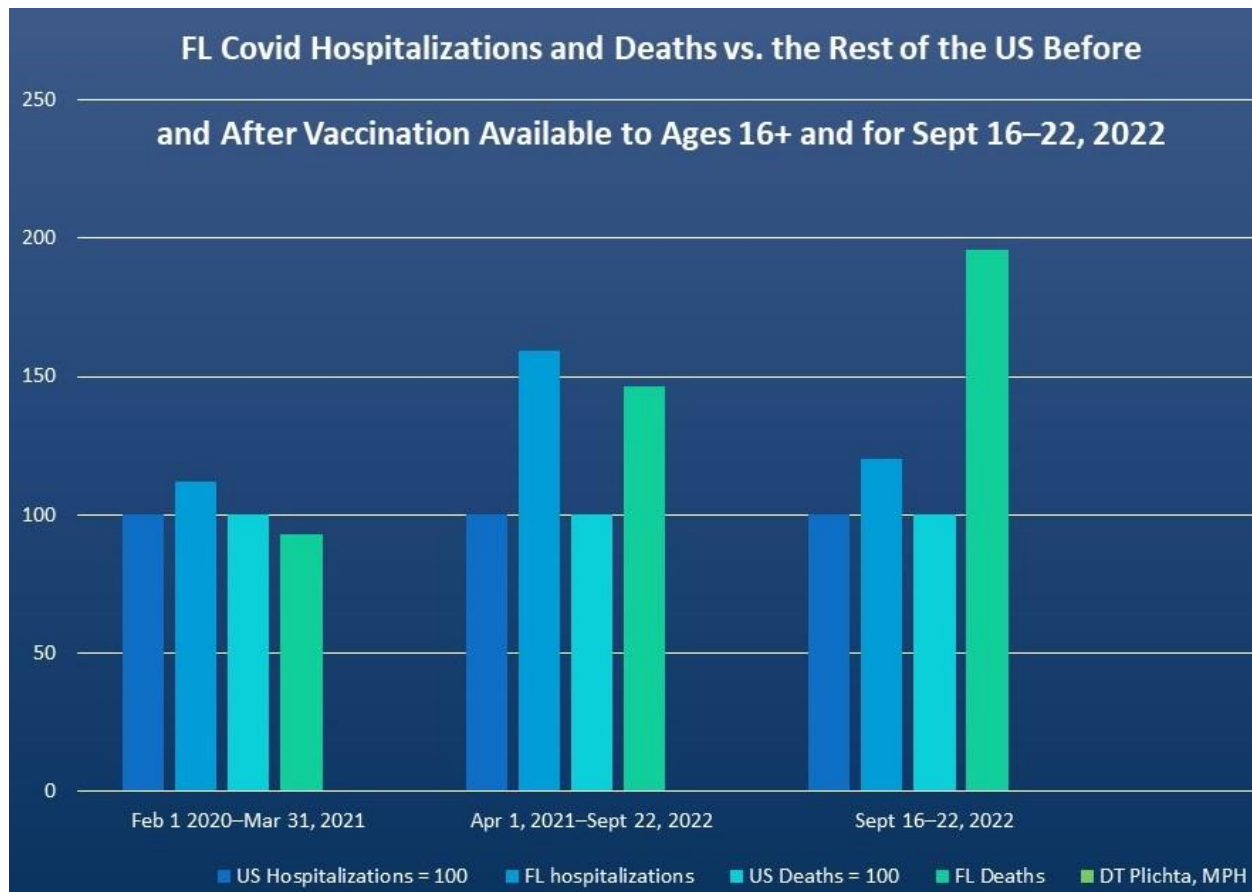
Since August 2020, 15,870 minors have required hospitalization for Covid in Florida, with 61 of those in the last week:



[COVID Data Tracker: New Admissions of Patients with Confirmed COVID-19 per 100,000 Population by Age Group](#)

[Sept 15, 2022 Florida Covid Stats: What Is Really Happening?](#)

Since everyone 16+ became eligible for vaccination on April 1, 2021, people in Florida were 60% more likely to require Covid hospitalization than people in the rest of the US. For September 16-22, 2022, that elevated risk dropped to 20%. Per capita, there were 120 admissions in Florida for every 100 admissions elsewhere in the US, almost half from a week earlier (235):



[Risk of Hospitalization and Death in Florida vs. the Rest of the US Before and After 16+ Vaccination and During September 16–22, 2022](#)

[Sept 8, 2022 Florida Covid Stats: What Is Really Happening?](#)

[Aug 25, 2022 Florida Covid Stats: What Is Really Happening?](#)

Dr. Salemi is now publishing the hospitalization rankings for every state and Washington DC for each age group over time. On September 22nd, Florida shifted from 5th to 10th worst in the nation for adult Covid admissions. During June 2–August 16, 2022, there were only 4 days that the state did not rank last. In the last 3 weeks, Florida has improved significantly to 17th worst for adult hospitalizations; the state remained almost the same at 16th worst for adult ICU patients.

Pediatric admissions have remained at 3rd worst, yet pediatric hospitalizations are close to the national average (27th best):

State Rankings on Reported Hospitalizations for Confirmed COVID-19 Per Capita

Rankings from 1 (best/lowest) to 51 (worst/highest)

Can restrict to any states desired; Presented from most-to-least current date

State Name		9/22/2022	9/21/2022	9/20/2022	9/19/2022	9/18/2022	9/17/2022	9/16/2022	9/15/2022	9/14/2022	9/13/2022	9/12/2022	9/11/2022	9/10/2022	9/9/2022	9/8/2022	9/7/2022	9/6/2022	9/5/2022
Florida	ICU Census All adults	33	32	36	35	37	36	32	27	33	32	34	37	42	42	40	36	37	40
	Census All adults	34	34	34	35	38	37	36	39	40	43	43	43	44	44	44	44	46	45
	Census All Kids	27	26	29	28	24	25	30	35	28	27	25	31	32	22	22	25	37	39
	Admits All adults	41	40	42	44	46	47	47	48	48	47	48	48	48	48	49	49	49	49
	Admits All kids	49	49	49	49	49	49	49	49	49	49	49	49	49	47	46	43	43	49
	Admits 18-19	42	41	45	44	43	42	41	38	34	35	34	32	40	35	32	30	32	41
	Admits 20-29	28	28	31	25	25	25	35	38	35	34	40	40	46	40	39	48	43	40
	Admits 30-39	32	30	32	39	39	39	40	37	38	40	41	42	45	45	47	47	49	50
	Admits 40-49	38	38	40	39	41	40	39	40	41	40	41	40	43	45	44	43	46	47
	Admits 50-59	27	23	21	30	30	26	33	32	41	38	35	38	39	41	43	44	45	46
	Admits 60-69	32	35	36	37	33	34	37	38	41	43	43	43	42	43	45	44	44	43
	Admits 70-79	26	27	26	24	27	31	29	28	31	31	30	33	34	36	37	37	37	35
	Admits 80+	27	28	27	27	27	31	29	28	29	26	28	30	33	36	39	42	38	38

September 5–22, 2022

State Rankings on Reported Hospitalizations for Confirmed COVID-19 Per Capita

Rankings from 1 (best/lowest) to 51 (worst/highest)

Can restrict to any states desired; Presented from most-to-least current date

State Name		9/15/2022	9/14/2022	9/13/2022	9/12/2022	9/11/2022	9/10/2022	9/9/2022	9/8/2022	9/7/2022	9/6/2022	9/5/2022	9/4/2022	9/3/2022	9/2/2022	9/1/2022	8/31/2022	8/30/2022	8/29/2022
Florida	ICU Census All adults	35	35	35	33	36	42	41	40	36	37	38	40	41	39	36	36	36	41
	Census All adults	39	39	43	42	43	44	43	44	44	46	45	45	45	47	47	46	47	46
	Census All Kids	23	23	26	26	32	32	22	22	25	37	39	42	39	43	39	35	37	38
	Admits All adults	47	48	47	47	47	48	48	49	49	49	49	49	48	48	48	48	48	48
	Admits All kids	49	49	49	49	49	49	47	46	43	43	49	46	44	44	44	43	45	43
	Admits 18-19	38	35	35	34	31	40	35	32	30	32	41	40	31	36	41	40	38	33
	Admits 20-29	38	32	34	38	39	46	38	38	46	43	39	42	41	42	35	36	37	41
	Admits 30-39	40	38	40	41	43	45	45	47	47	49	50	48	47	49	50	49	45	39
	Admits 40-49	37	39	38	37	39	43	45	44	43	46	47	47	48	46	48	46	46	44
	Admits 50-59	34	38	37	35	38	40	40	43	44	45	46	47	47	46	45	46	43	44
	Admits 60-69	40	40	42	43	42	42	43	44	44	44	43	43	43	44	44	44	44	45
	Admits 70-79	33	32	33	32	34	34	37	37	37	35	35	35	36	37	39	39	39	40
	Admits 80+	31	28	26	27	28	32	36	38	42	38	38	42	40	38	36	36	40	37

August 29–September 15, 2022

State Rankings on Reported Hospitalizations for Confirmed COVID-19 Per Capita

Rankings from 1 (best/lowest) to 51 (worst/highest)

Can restrict to any states desired; Presented from most-to-least current date

State Name		9/8/2022	9/7/2022	9/6/2022	9/5/2022	9/4/2022	9/3/2022	9/2/2022	9/1/2022	8/31/2022	8/30/2022	8/29/2022	8/28/2022	8/27/2022	8/26/2022	8/25/2022	8/24/2022	8/23/2022	8/22/2022
Florida	ICU Census All adults	35	36	37	37	40	41	39	36	36	36	41	43	39	44	41	44	44	45
	Census All adults	43	44	46	45	45	45	46	47	46	47	46	47	47	48	48	48	48	48
	Census All Kids	26	27	38	39	41	40	43	39	35	37	38	34	35	37	38	38	43	43
	Admits All adults	49	49	49	49	49	48	48	48	48	48	48	48	48	48	48	50	50	50
	Admits All kids	41	45	43	49	45	46	44	44	43	45	43	43	45	48	49	48	49	49
	Admits 18-19	30	27	32	41	40	31	36	41	40	38	33	31	24	28	30	29	33	33
	Admits 20-29	36	37	40	38	40	41	42	35	36	37	41	47	43	44	48	49	47	48
	Admits 30-39	46	45	49	50	48	47	49	50	49	45	39	41	38	42	41	46	46	49
	Admits 40-49	40	43	46	47	47	48	46	48	46	46	44	45	44	45	45	43	45	45
	Admits 50-59	36	40	43	46	47	47	46	45	45	43	44	45	44	46	46	47	46	45
	Admits 60-69	46	44	44	43	43	43	44	44	44	44	45	44	45	47	47	45	43	44
	Admits 70-79	37	38	38	35	35	35	37	39	39	39	40	40	42	43	41	42	39	39
	Admits 80+	40	40	38	38	41	41	37	36	36	40	37	38	39	44	45	45	44	46

August 22–September 8, 2022

State Rankings on Reported Hospitalizations for Confirmed COVID-19 Per Capita

Rankings from 1 (best/lowest) to 51 (worst/highest)

Can restrict to any states desired; Presented from most-to-least current date

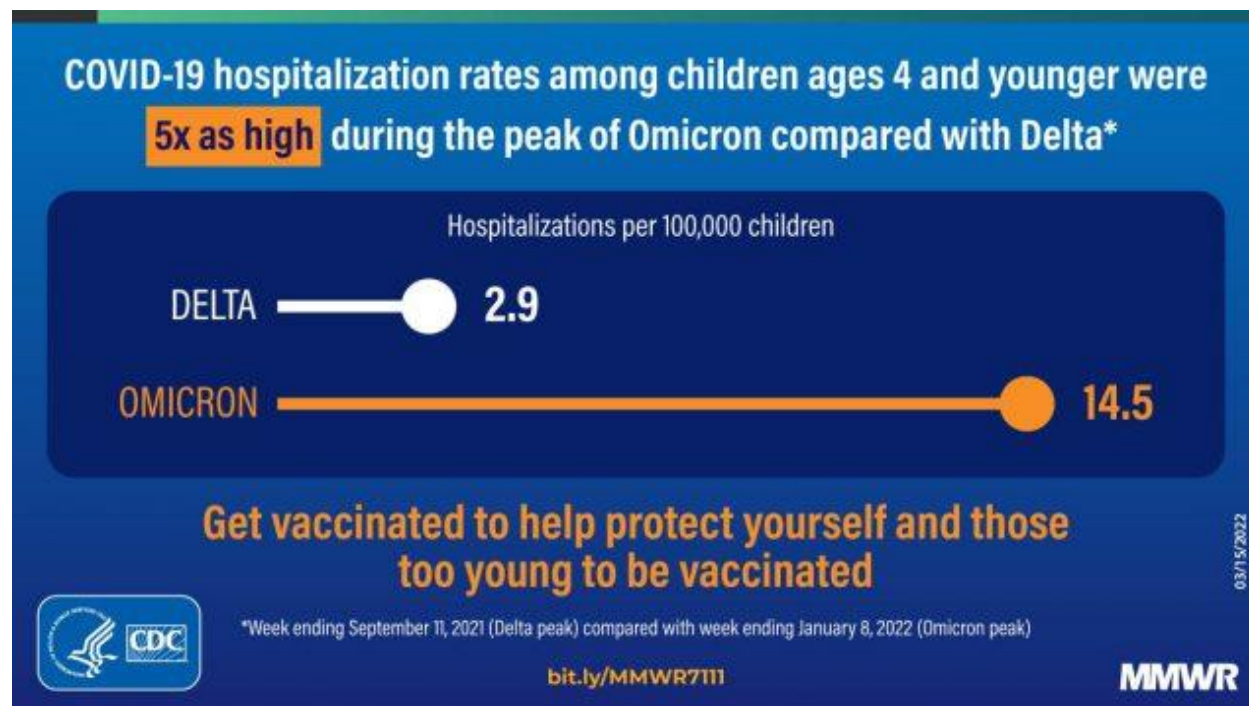
State Name		8/25/2022	8/24/2022	8/23/2022	8/22/2022	8/21/2022	8/20/2022	8/19/2022	8/18/2022	8/17/2022	8/16/2022	8/15/2022	8/14/2022	8/13/2022	8/12/2022	8/11/2022	8/10/2022	8/9/2022	8/8/2022
Florida	ICU Census All adults	44	44	44	45	46	45	43	44	47	45	45	45	46	48	49	49	49	47
	Census All adults	48	48	48	48	48	48	48	49	49	49	49	49	49	49	49	49	49	49
	Census All Kids	37	37	43	43	41	35	41	33	31	26	22	31	36	34	36	40	37	40
	Admits All adults	48	50	50	50	50	50	50	50	50	51	51	51	50	51	50	51	51	51
	Admits All kids	49	49	49	49	49	49	49	46	48	48	48	48	48	48	48	49	48	49
	Admits 18-19	27	29	33	33	36	40	40	39	42	40	41	40	40	40	41	41	41	41
	Admits 20-29	48	49	47	48	48	48	47	46	42	44	45	45	44	43	45	43	42	44
	Admits 30-39	45	46	46	49	48	48	45	44	42	43	44	44	44	46	47	48	49	49
	Admits 40-49	44	43	44	45	45	44	45	47	46	43	46	46	48	48	48	49	49	49
	Admits 50-59	43	46	46	44	44	44	45	46	46	46	46	48	49	48	48	48	48	48
	Admits 60-69	46	45	43	44	45	45	46	46	48	49	49	49	48	48	50	49	49	49
	Admits 70-79	42	42	40	39	41	41	38	42	44	42	41	41	42	43	43	43	45	45
	Admits 80+	45	45	44	45	46	46	48	47	48	47	49	48	44	44	46	46	45	46

August 8–25, 2022

[Salemi USF: COVID-19 Hospitalizations in Florida](#)

[Florida Covid Statistics: What is Really Happening?](#)

Children <5 years old in the US were 5x as likely to need hospital care during the first omicron wave than during delta. When Florida officials refused to preorder vaccines for young children, the state was the 2nd worst in the US for pediatric admissions:



State Rankings on Reported Hospitalizations for Confirmed COVID-19 Per Capita

Rankings from 1 (best/lowest) to 51 (worst/highest)

Can restrict to any states desired; Presented from most-to-least current date

State Name		6/30/2022	6/29/2022	6/28/2022	6/27/2022	6/26/2022	6/25/2022	6/24/2022	6/23/2022	6/22/2022	6/21/2022	6/20/2022	6/19/2022	6/18/2022	6/17/2022	6/16/2022	6/15/2022	6/14/2022	6/13/2022	6/12/2022
Florida	ICU Census All adults	48	48	49	48	48	48	50	50	50	49	48	49	49	49	50	50	49	50	4
	Census All adults	50	50	49	50	49	50	50	50	50	50	50	50	49	49	50	49	50	49	4
	Census All Kids	42	42	42	46	44	40	39	43	41	44	45	45	44	44	45	44	46	44	4
	Admits All adults	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	5
	Admits All kids	49	48	49	49	49	49	48	49	49	49	49	49	49	50	50	50	50	50	5
	Admits 18-19	45	44	46	46	45	46	44	47	47	45	45	45	45	45	38	41	38	39	4
	Admits 20-29	48	47	47	48	49	49	50	49	49	49	48	48	48	46	46	47	47	48	4
	Admits 30-39	49	49	50	50	50	50	50	50	51	51	51	51	51	51	51	50	49	49	4
	Admits 40-49	49	50	50	50	50	50	50	50	51	51	51	51	51	51	50	49	50	50	5
	Admits 50-59	50	50	49	49	50	49	49	49	50	50	50	50	50	51	51	50	49	48	4
	Admits 60-69	50	51	51	50	50	48	48	49	48	49	49	49	48	47	48	47	49	48	4
	Admits 70-79	45	45	45	47	46	46	47	46	47	47	47	48	51	49	50	49	48	48	4
	Admits 80+	48	49	48	48	47	48	48	49	48	47	49	50	50	49	50	50	49	47	4

June 13–30, 2022[MMWR: Hospitalization of Infants and Children Aged 0–4 Years with Laboratory-Confirmed COVID-19—COVID-NET, 14 States, March 2020–February 2022](#)[June 30, 2022 Florida Covid Stats: What Is Really Happening?](#)

After ten weeks with the worst adult admissions ranking in the nation, Florida improved to 2nd worst during August 4–18, 2022. Until then, the number of patients had risen steadily. On September 22nd, the ranking shifted to 18th worst. 1,856 adult Covid patients were hospitalized (-10%). Adult hospitalizations improved to 17th worst. There were 307 adult admissions (-16%). Thirteen percent of hospitalized adults needed ICU care, rising by 6% to 247 and ranking 16th worst in the US.

Pediatric Covid hospitalizations are down 35% from a week earlier, with 40 children in the hospital. There were 42 pediatric admissions on that day (no change), keeping Florida's pediatric admissions rank at 3rd worst. Until the August 11th report, it had been no better than 3rd for at least 18 weeks. One in 8 admissions are for children, down from 1 in 4 on April 20th:

FLORIDA: PAST 8 WEEKS “CURRENT COVID-19 HOSPITALIZATIONS” AND NEW DAILY COVID-19 ADMISSIONS										
	Adults in ICU	Rank	Adults hospitalized	Rank	Children hospitalized	Rank	New adult admits daily	Rank	New pediatric admits daily	Rank
4-Aug	493	50	4,216	50	83	36	701	51	49	49
11-Aug	483	49	3,905	49	78	36	666	50	49	48
18-Aug	429	44	3,461	49	74	33	586	50	47	46
25-Aug	379	41	3,139	48	84	38	524	47	45	49
1-Sep	314	36	2,765	47	86	39	480	48	27	44
8-Sep	325	40	2,612	44	45	22	417	49	25	46
15-Sep	234	27	2,073	39	62	35	364	48	42	49
22-Sep	247	33	1,856	34	40	27	307	41	42	49

*Only includes hospitalizations classified as 'confirmed' (does not include suspected)

* State ranks go from 1 (lowest/best) to 51 (highest/worst)

updated 9/22/22

@JasonSalemi

FLORIDA: PAST 8 WEEKS “CURRENT COVID-19 HOSPITALIZATIONS” AND NEW DAILY COVID-19 ADMISSIONS										
	Adults in ICU	Rank	Adults hospitalized	Rank	Children hospitalized	Rank	New adult admits daily	Rank	New pediatric admits daily	Rank
28-Jul	463	43	4,200	50	85	38	731	51	48	49
4-Aug	493	50	4,216	50	83	36	701	51	49	49
11-Aug	483	49	3,905	49	78	36	666	50	49	48
18-Aug	429	45	3,461	49	74	33	586	50	47	46
25-Aug	379	41	3,139	48	84	38	524	48	45	49
1-Sep	314	36	2,765	47	86	39	480	48	27	44
8-Sep	321	40	2,589	44	45	22	415	49	25	46
15-Sep	265	35	2,171	39	52	23	363	47	36	49

*Only includes hospitalizations classified as 'confirmed' (does not include suspected)

* State ranks go from 1 (lowest/best) to 51 (highest/worst)

updated 9/15/22

@JasonSalemi

FLORIDA: PAST 8 WEEKS "CURRENT COVID-19 HOSPITALIZATIONS" AND NEW DAILY COVID-19 ADMISSIONS										
	Adults in ICU		Adults hospitalized		Children hospitalized		New adult admits daily		New pediatric admits daily	
		Rank		Rank		Rank		Rank		Rank
2-Jun	232	40	2,440	45	62	38	438	50	46	49
9-Jun	284	48	2,823	47	69	43	506	51	46	50
16-Jun	364	50	3,151	50	84	45	558	51	50	50
23-Jun	322	50	3,283	50	72	43	589	51	48	49
30-Jun	406	49	3,414	49	65	36	629	51	49	49
7-Jul	422	49	3,742	49	69	36	661	51	49	49
14-Jul	432	44	4,083	49	84	36	715	51	49	49
21-Jul	475	46	4,165	49	104	38	724	51	44	49

*Only includes hospitalizations classified as 'confirmed' (does not include suspected)

* State ranks go from 1 (lowest/best) to 51 (highest/worst)

updated 7/21/22

@JasonSalemi

FLORIDA: PAST 8 WEEKS "CURRENT COVID-19 HOSPITALIZATIONS" AND NEW DAILY COVID-19 ADMISSIONS										
	Adults in ICU		Adults hospitalized		Children hospitalized		New adult admits daily		New pediatric admits daily	
		Rank		Rank		Rank		Rank		Rank
Apr 20	88	27	730	32	16	24	126	41	32	50
Apr 27	87	21	870	32	23	31	145	36	33	49
May 04	109	27	1,029	35	31	30	183	36	38	49
May 11	156	36	1,217	33	31	28	225	38	36	48
May 18	168	31	1,602	35	36	30	282	37	40	49
May 25	216	40	1,960	41	56	39	345	43	42	49
Jun 01	229	42	2,421	45	58	39	430	49	46	49
Jun 08	260	45	2,712	48	59	40	502	50	40	50

*Only includes hospitalizations classified as 'confirmed' (does not include suspected)

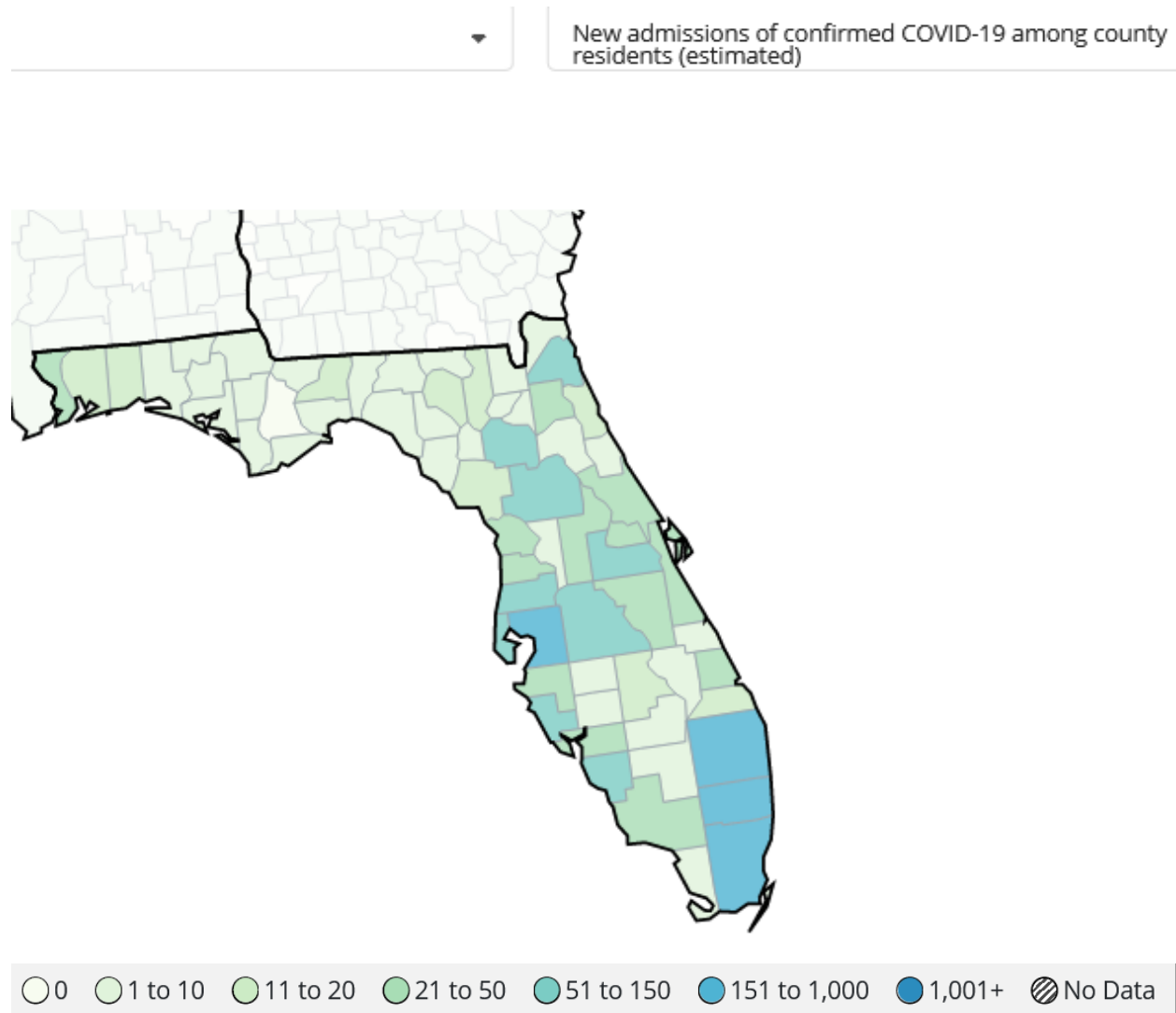
* State ranks go from 1 (lowest/best) to 51 (highest/worst)

updated 6/8/22

@JasonSalemi

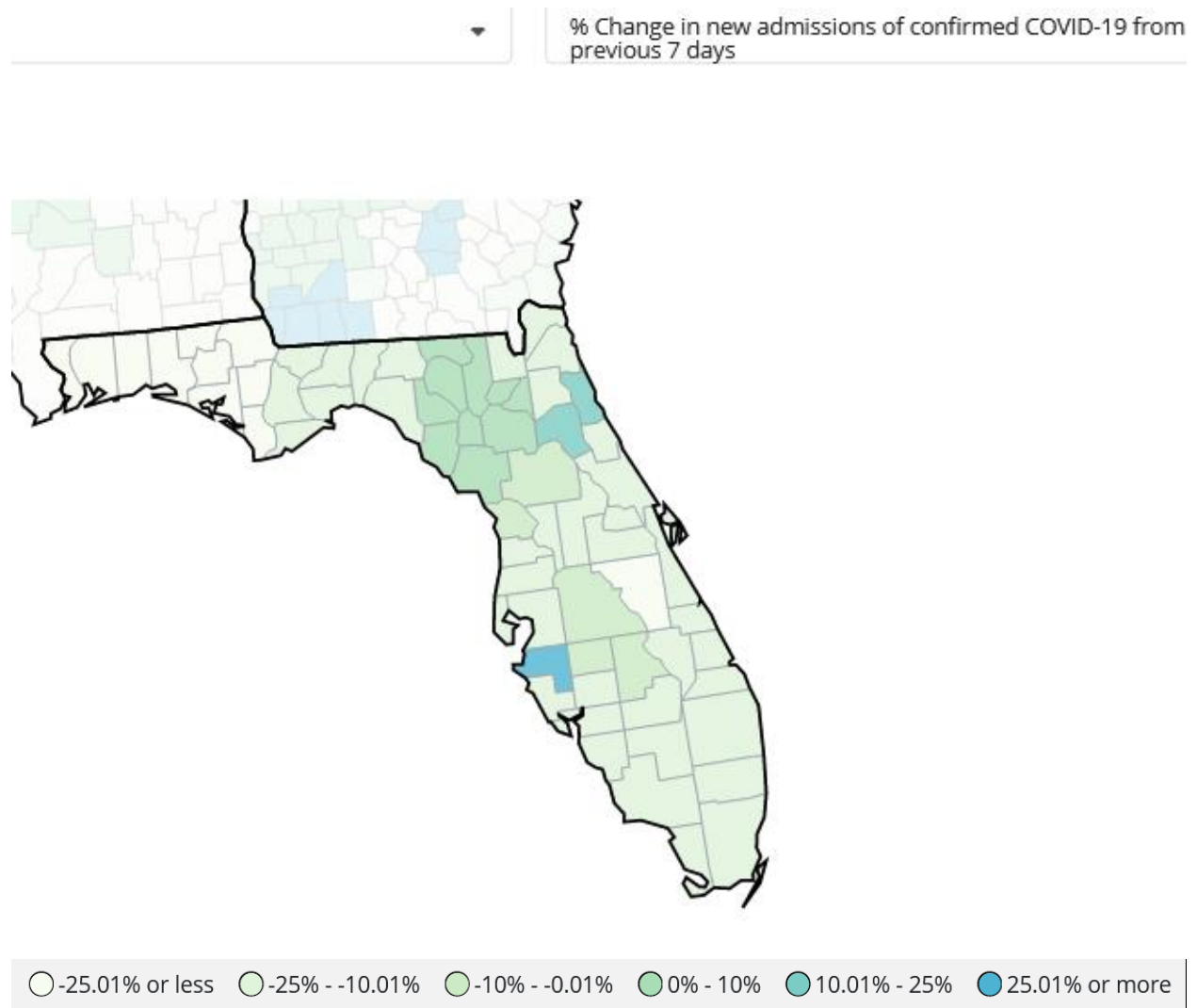
[Salemi USF: COVID-19 Hospitalizations in Florida](#)[July 21, 2022 Florida Covid Stats: What Is Really Happening?](#)[April 22, 2022 Florida Covid Stats: What Is Really Happening?](#)

Here is the most recent county-level data from the CDC. You can click on their web site's map to see specific information for each county. On September 21st, Orange County—where Disney is located—had 110 new hospital admissions in the last 7 days (-17%). Miami-Dade had 261 (-17%); Broward had 188 (-17%); Palm Beach had 168 (-25%); and Hillsborough had 181 (-16%):



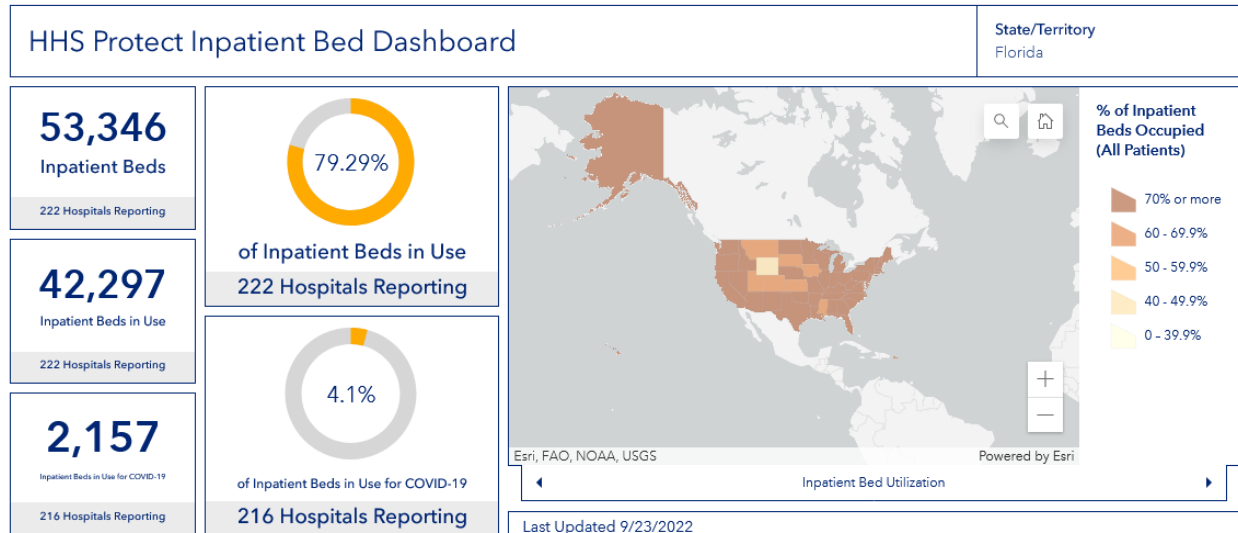
[CDC: Florida Confirmed COVID-19 New Hospital Admissions by County](#)

This is the percentage of change in hospital admissions by county as of September 21st. The locations with the largest decreases are in the Panhandle. Only 3 counties had large increases:

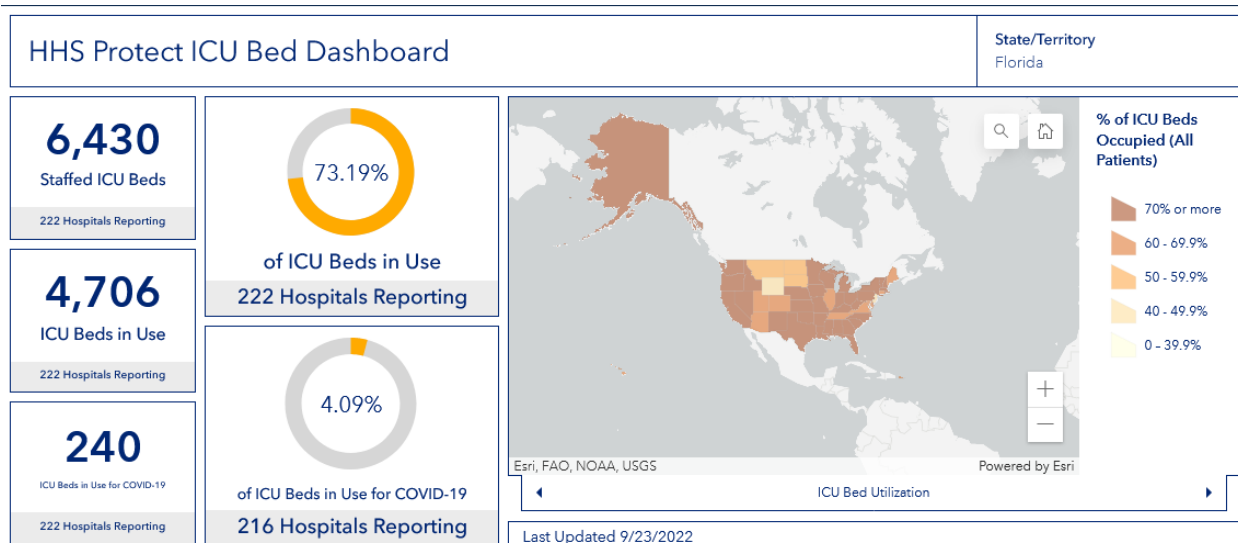


[CDC: Percent Change in Hospital Admissions by County](#)

HHS tracks Hospital Utilization. On September 23rd, 79% of hospital beds in Florida were full (no change from a week earlier). Covid patients accounted for 2,157 of them (4.1% of utilized beds, down from 4.6%). On September 16th, there were 2,435 Covid patients, so this is a drop of 11%:



On September 23rd, 4.1% percent of ICU beds in use in Florida were used by 240 Covid patients, 1% more than a week earlier (238; 4.1%). This represents 11% of hospitalized Covid patients. Overall, 73% of ICU beds are occupied in the state, the same as on September 16th:



[HHS: Hospital Utilization by State](#)

[Sept 15, 2022 Florida Covid Stats: What Is Really Happening?](#)

Many hospitals are publishing their own occupancy statistics. For example, Tampa General Hospital released this on September 16th:

- There were 40 Covid-19 admissions, down from 46 a week earlier
- 6 Covid patients were in their ICU, down from 12 a week earlier

Tampa General Hospital Updates

| Hospital Bed Availability for COVID-19 Patients

Updated: September 16, 2022 at 7:48 AM

Available

[40] COVID-19 Admissions

[6] ICU Beds in Use for COVID-19 Patients

[Tampa General: Hospital Bed Availability for COVID-19 Patients](#)

[Sept 15, 2022 Florida Covid Stats: What Is Really Happening?](#)

Archived posts on Florida Covid statistics are available here:

[Florida Covid Statistics: What is Really Happening?](#)