Vaccine Indicators and Data Visualization Best Practices



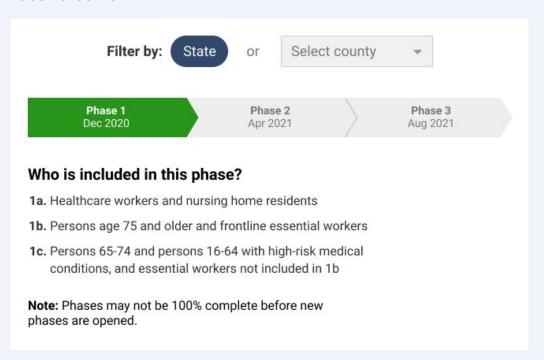
Vaccine Indicators

Vaccine Indicators

- 1. Phase: Current phase of vaccination, including who is eligible to be vaccinated now
- 2. Supply: Percentage of population that could be fully vaccinated with doses distributed
- 3. Supply: Percentage of doses administered
- 4. Coverage: Percentage of population partially vaccinated
- 5. Coverage: Percentage of population fully vaccinated

Visualization Best Practices

Current phase of vaccination, including who is eligible to be vaccinated now



Recommendations

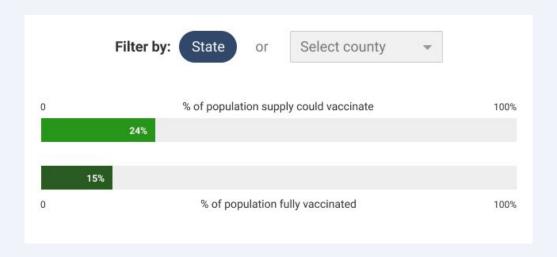
- Keep it simple and link to detailed eligibility descriptions
- Indicate the timing for future phases, if possible
- If phase varies by county, add a map
- Provide visualization and explanatory text in multiple languages
- Provide links to how and where those eligible can be vaccinated

Examples and Resources

- Arizona (map)
- Arkansas (detailed flyer on website)

*ACIP guidelines shown as an example; state specific phases should be shown.

Percentage of population that could be fully vaccinated with doses distributed



Recommendations

- Use a simple graphic for a simple message: this indicator tells us how much vaccine supply we have compared to how much we need
- As shown here, this indicator can also be shown in combination with the percentage of the population fully vaccinated (indicator #6)
- Update weekly

Examples and Resources

Massachusetts (map)

Percentage of doses administered*



^{*}May only include doses distributed via public health

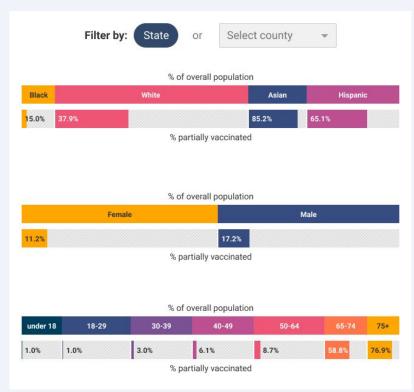
Recommendations

- Indicate a goal for timely distribution of doses on the visualization
- Show data week-by-week to monitor for improvements over time
 - Could also be shown daily and monthly
- Enable user to filter by provider to track where support may be needed to get doses off of shelves and into arms

Examples and Resources

Minnesota (administration data)

Percentage of population partially vaccinated*



*Received one dose of a two-dose vaccine regimen

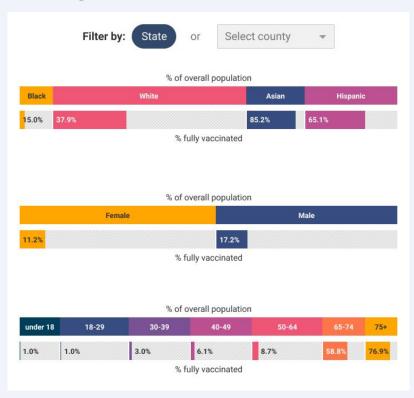
Recommendations

- Use a map to show variation in coverage by location
- In addition to cumulative visuals like these, show trends over time (see "Visualizing Equity")

Examples and Resources

- NYC dashboard
- North Dakota (time trends by age)

Percentage of population fully vaccinated*



Recommendations

- Enable users to filter data by location (e.g., view coverage in a single county)
- Note where data are missing or unavailable
- Make data (counts and percentages) available for download

Examples and Resources

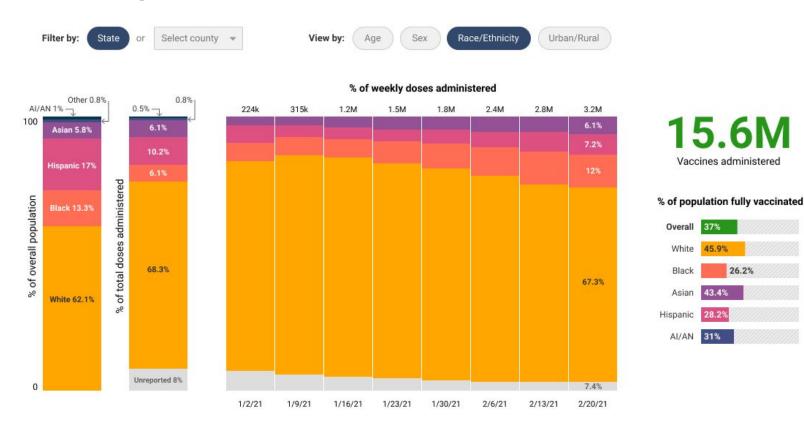
- Washington (map and vaccine data integrated into COVID-19 dashboard)
- North Carolina (county-level)

*Completed vaccine regimen (e.g., two doses of mRNA vaccine or single dose of Janssen vaccine)

Critical to:

- Increase accountability and transparency
- Inform decision-making to optimize equitable distribution strategies

Vaccination coverage by race and ethnicity over time



26.2%

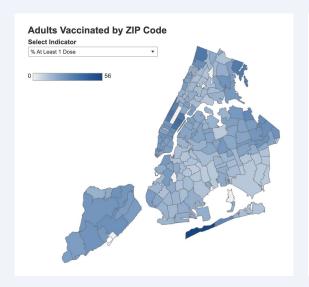
Recommendations

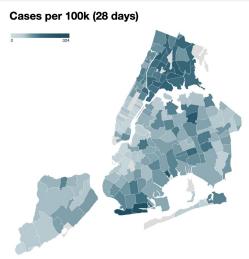
- Show proportion of total or eligible population compared to proportion of vaccinated population
- Week-to-week updates are essential to monitor progress
- Can also use line graph to show trends for multiple groups

Examples and Resources

- Washington (stratification overall and among age 65+)
- North Carolina (demographic data over time)
- Minnesota (race and ethnicity by age)

Mapping coverage and comparing with other key equity indices





Recommendations

- Consider presenting with other 'equity maps' most relevant to the context, for example:
 - Access to primary care provider, hospitals or pharmacies
 - Distance from vaccination provider
 - Social vulnerability indices

Examples and Resources

- NYC maps
- Social vulnerability index (CDC)
- Surgo Ventures Vaccine Coverage
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