



**Collaboratives in Action: Learning from an
Equitable, Data-Informed Response to COVID-19**

Translating Knowledge into Future Action and Preparation

July 27, 2022

Housekeeping Reminders

- This is a Zoom webinar
- All webinar participants are automatically muted, and your video is not displayed
- If you would like to ask the presenters a question, please use the **Q&A** function on the task bar
- Use the **chat** feature to introduce yourself – name, organization and location; share resources, etc.
- If you have any questions following the webinar, please reach out to contact@civitasforhealth.org

Agenda

- Welcome
- Civitas Introduction
- COVID Vaccine Learning Initiative Presentation
- Question and Answer
- Staying engaged with Civitas

Civitas Introduction

Our Reach & Purpose

The largest network of its kind in the country, Civitas represents local health innovators moving data to improve outcomes that together cover more than **95%** of the U.S. population.

Our Guiding Principles

- ✓ We strive for win-win solutions recognizing that change is required by all.
- ✓ We believe the best solutions come from data informed, multi-stakeholder input.
- ✓ The status quo of our healthcare system is not acceptable in terms of its quality, safety or cost.
- ✓ We commit to advancing health equity for all.



Regional innovation, **national impact.**

We stand for community and data-led health improvement and information exchange to tackle the most challenging healthcare issues.

**Collaborative. Connected.
Data-driven.**



5 Facts about Civitas Members

1. HIEs and RHICs are **unbiased data trustees** in their communities.
2. HIEs and RHICs are **geographically based**. Most are nonprofit organizations that serve as trusted, neutral convenors governed by multi-stakeholder boards.
3. HIEs and RHICs are **actively forging connections** with each other and national networks.
4. HIEs and RHICs are **organized in a variety of ways**.
5. HIEs and RHICs are **funded by a variety of sources**.

Acknowledgements

The Institute for Healthcare Improvement (IHI) has undertaken this project in collaboration with with Civitas Networks for Health, Cincinnati Children's Hospital Medical Center, the Health Collaborative, and Parkland Center for Clinical Innovation Leadership – PCCI.

IHI gratefully acknowledges Pfizer, Inc., for their generous funding support of IHI's COVID-19 Vaccine Rapid Learning Initiative.

We are grateful to the public health, health care, and community leaders who shared their time, experience, and expertise with us throughout this work.

IHI core project team: Pierre Barker, Matt Jensen, Marianne McPherson, Bhargavi Sampath, Morgen Stanzler



Learning Questions

How can we best simplify the collection, analysis, and use of data so that communities with varying degrees of experience and access to data can build situational awareness to inform community-wide, equitable response (to COVID-19 and beyond)?

How can data be used to guide local decision-making to improve safety and equity for all communities in a local geography?

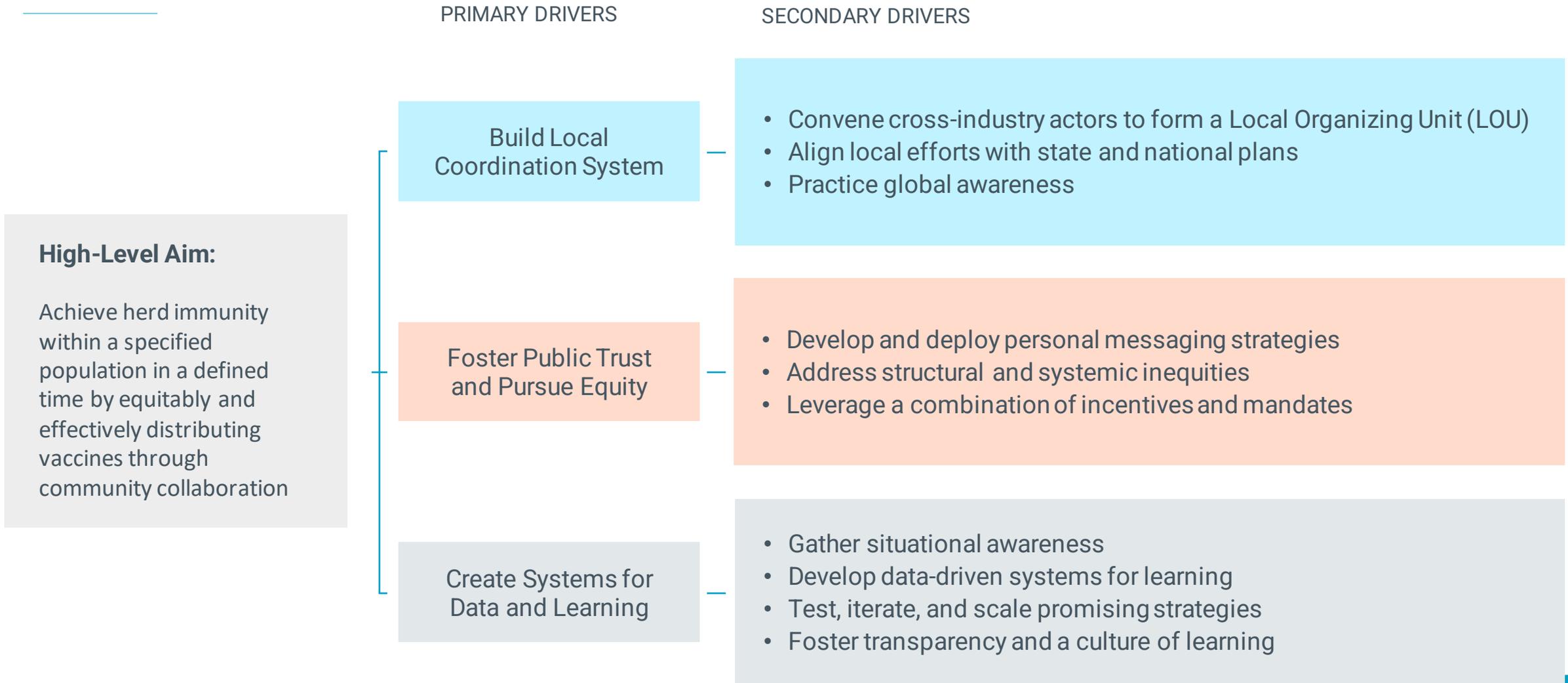
How have communities navigated these topics during COVID-19 pandemic to-date, and what are their needs and hopes for the future?



Phase 1, Fall 2021



Theory of Change



Phase 1, Fall 2021: Activities

Develop an initial theory about what it will take to achieve population immunity (research and initial interviews)

Test that theory by working with a small group of active health systems and communities to (1) gather additional promising strategies and (2) serve as a catalyst to further test and refine the theory

Dissemination through publications, blogs, and case stories – and Webinars (including Network News in September 2021)!



Community Case Studies

The Health Collaborative and Cincinnati Children's Hospital and Medical Center (CCHMC), blog: [Identifying the Keys to Effective Vaccine Communication and Outreach \(ihi.org\)](#)

Parkland Hospital and Parkland Center for Clinical Innovation (Dallas, TX), blog: [Using Data and Community Connections to Ensure Equitable Vaccine Uptake](#)

Health Improvement Partnership of Santa Cruz County (CA), blog: [Building on a History of Teamwork and Collaboration to Address COVID-19 \(ihi.org\)](#)

Better Health Partnership (Cleveland, OH), blog: [Bringing Health Centers Together to Tackle COVID-19 \(ihi.org\)](#)



Additional Resource Developed During Phase 1

Rethinking Herd Immunity: Managing the Covid-19 Pandemic in a Dynamic Biological and Behavioral Environment

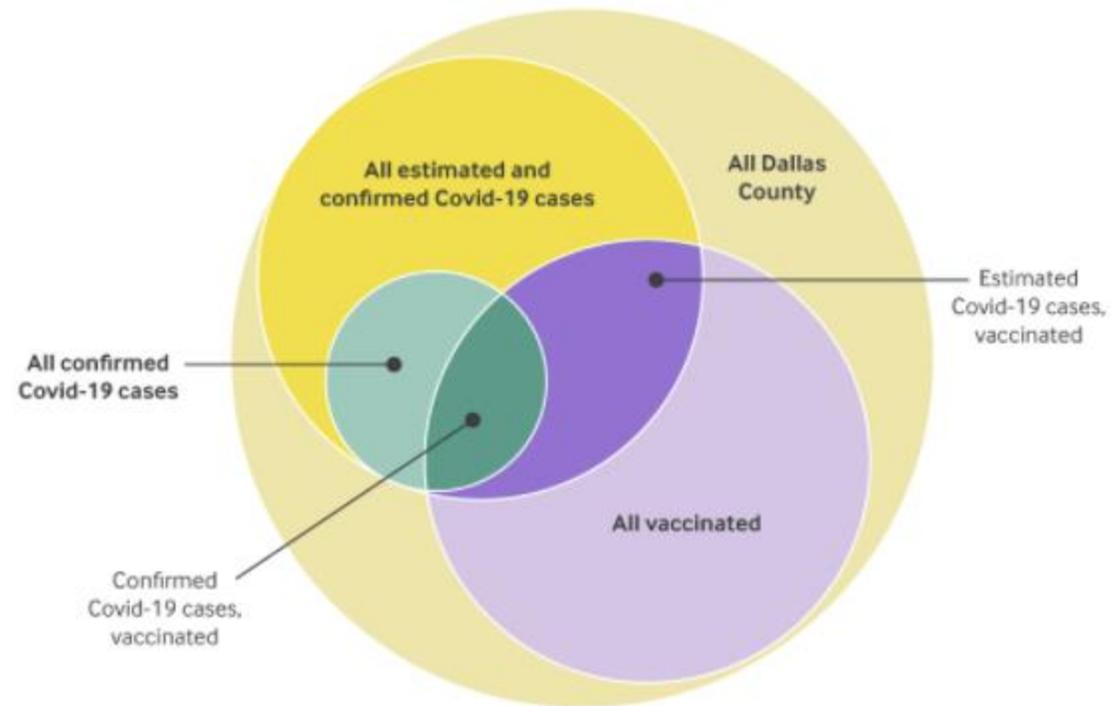
How better access, algorithms, and use of real-time local immunity data could lead to more effective local population protection, using data from Dallas County, Texas.

By Pierre Barker, MD, MB, ChB, David Hartley, PhD, MPH,
Andrew F. Beck, MD, MPH, George "Holt" Oliver, MD,
PhD, Bhargavi Sampath, MPH, Thomas Roderick, PhD &
Steve Miff, PhD

September 10, 2021

 NEJM
Catalyst | Innovations in Care Delivery

Components of Herd Immunity in Dallas County



Current Phase: 2022



Focus of work in this phase

1. Further develop tools (building upon phase one learning) and approaches to support the use of data to guide action
2. Learn from community leaders whether/how those tools and approaches meet the needs they are facing in the continually evolving pandemic
3. Link Data to Action: Including understanding barriers, facilitators to applying the tools in communities around the US (via a series of interviews with community leaders)



Aim of Interviews

To learn interviewee's insights on:

- The critical questions they needed to answer as they managed a community-wide COVID-19 response
- How data informed those answers
- What an “equitable response” meant to them and what facilitated / enabled that
- Challenges they faced in making data-informed decisions,
- Structures and systems that enabled and/or hindered their activities



Interview Topics

Data sources, tools, approaches used to manage the ongoing pandemic

How data were / were not helpful in managing community response, what would have been more helpful

Ensuring equitable response to community needs

Current priorities – including and/or beyond COVID



Emerging Themes to-Date

Related to data: Collection and reporting

Relationships: Trust, tensions between transparency and privacy

Factors facilitating and/or impeding equitable response

Coordinating with local partners





Tension between Data, Trust, and Equity



Data Privacy –
Individual Level



Data Transparency –
Community Level





PCCI

Pioneering New Ways to Health

COVID-19 Community Protection

July 27, 2022

Holt Oliver MD PhD, Tom Roderick PhD, Steve Miff PhD

A NATIONAL COVID-19 COMMUNITY PROTECTION DASHBOARD



Community Protection Dashboard

Overview

Community Protection (Est)

Boosted (Pct)

Vaccine Complete (Pct)

Cases (Pct)

Adjusted Case Rate

Overview

This website visualizes community protection and its factors. Community protection is when a community's infection resistance is sufficient that disease outbreaks do not spread easily.

We estimate community protection through antibody prevalence, case reports, and counts of people with complete and boosted vaccination series in a community.

Definitions

- **Community Protection (Est):** the proportion of a community with resistance to COVID-19.
- **Boosted (Pct):** The percent of the population that has received a booster dose.
- **Vaccine Complete (Pct):** The percent of the population that have completed an initial vaccine series.
- **At Least One-Dose (Pct):** Percent of population with started a vaccine series.
- **Cases (Pct):** The rate of cumulative reported cases within a geographical boundary.
- **Adjusted Cases (Pct):** The estimate of total cases based on cumulative reported cases and seroprevalence studies.
- **Cases w/in 4 mo. (pct):** Percent of population with cases within the most recent four months
- **Vaccination complete w/in 4 mo. (Pct):** Percent of population with completed vaccine series within the most recent four months

Data Sources

- United States Census Bureau
- USAFacts
- Centers for Disease Control and Prevention



Goal:

Comprehensive national view to contextualize what it's being observed locally

- Enhance local comparisons to surrounding counties, state and national trends
- Support cross-county/region collaboration and communication
- Observe progression across different geographies and forecast local impact
- Translate and apply to future population health initiatives

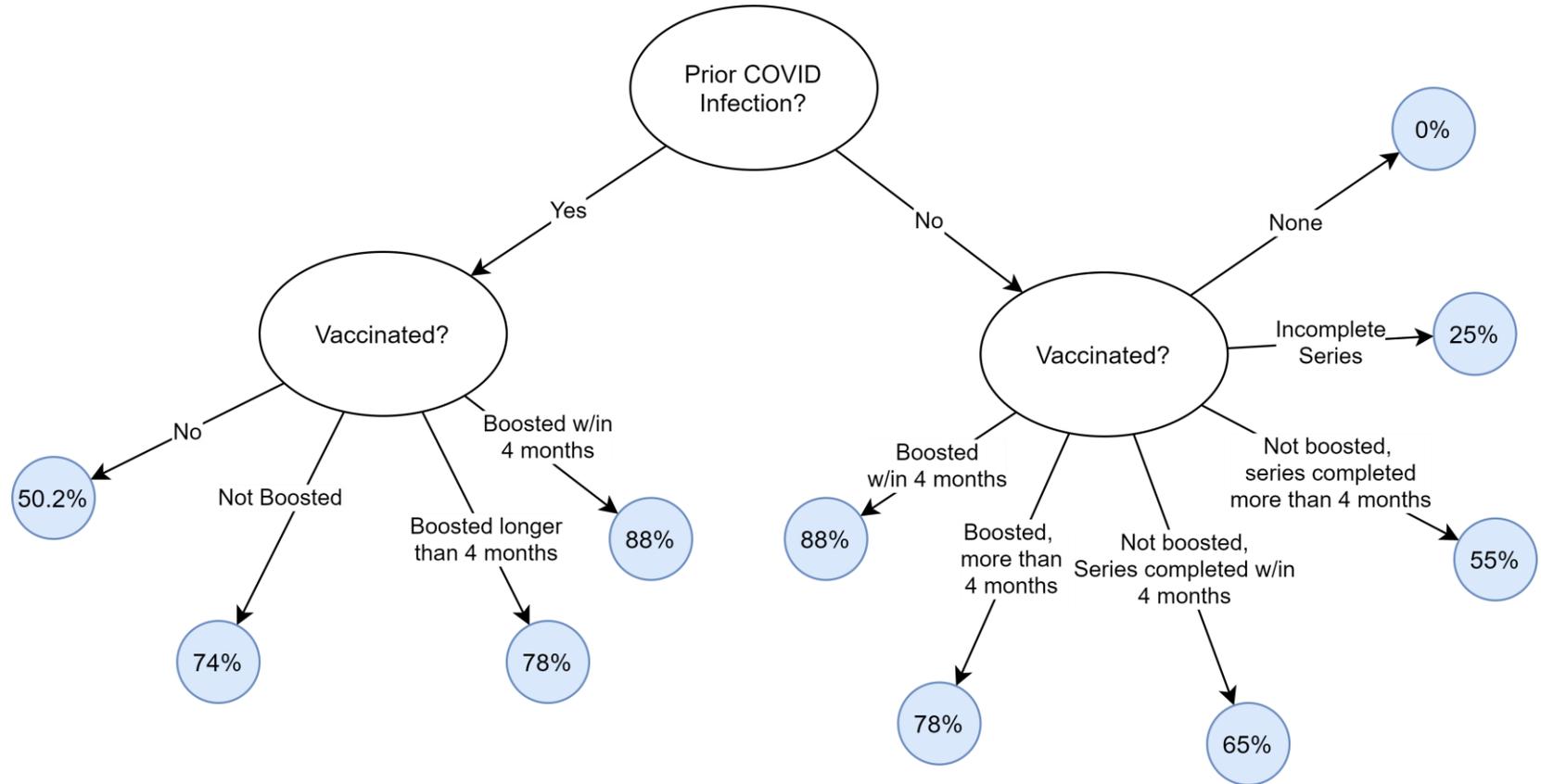


COMMUNITY PROTECTION DETERMINED BY LOCAL FACTORS



Bringing together best estimates of the relative protection afforded by the most recent immunizing event, the dashboard shows the inputs and the aggregated level of protection afforded

Interpretation: out of 100 people, what proportion in the group would be expected to be protected during COVID-19 exposure in day-to-day activity?



FACTORS AND DATA SOURCES



Factor	Source	Description
Cases	USAfacts.org	County level reported cases, where available
Vaccinations	CDC	Boosted, complete, and incomplete vaccine series counts
Overlap	Derived from CDC Serology Surveillance	Applied state-wide
Adjusted Incident Rate	Derived from CDC Serology Surveillance	Applied state-wide
Case adjustment	Derived from AIR and Cases counts	Incremental increase applied state-wide
Community Protection index	Framework output	Statistical measure showing the expected level of immunity for the whole community

EXAMPLE: COMMUNITY PROTECTION INDEX

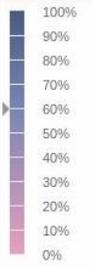
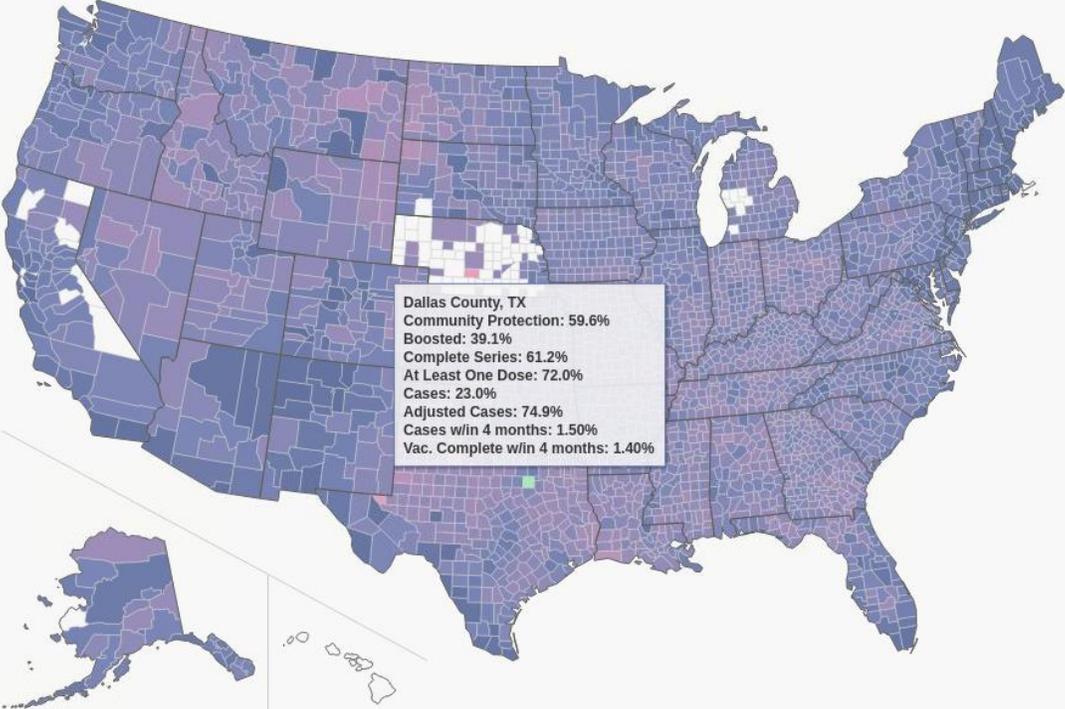


Community Protection Dashboard

- Overview
- Community Protection (Est)
- Boosted (Pct)
- Vaccine Complete (Pct)
- Cases (Pct)
- Adjusted Case Rate

Community Protection across Reporting US Counties as of July 13, 2022

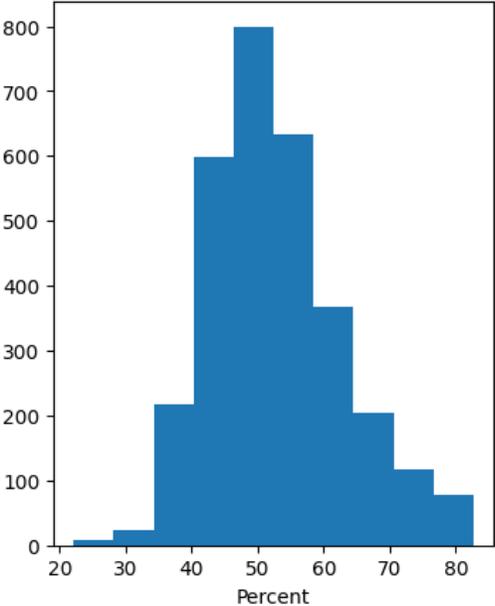
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Distribution Across Counties



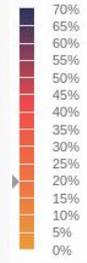
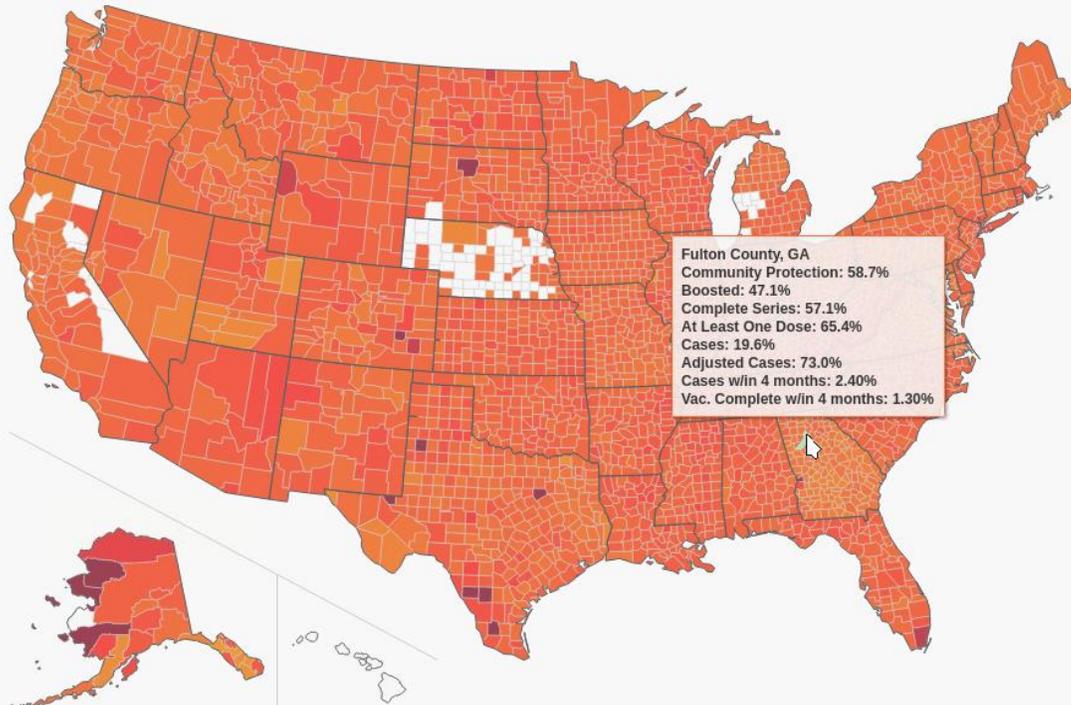
EXAMPLE: PERCENT OF CASES



Community Protection Dashboard

- Overview
- Community Protection (Est)
- Boosted (Pct)
- Vaccine Complete (Pct)
- Cases (Pct)
- Adjusted Case Rate

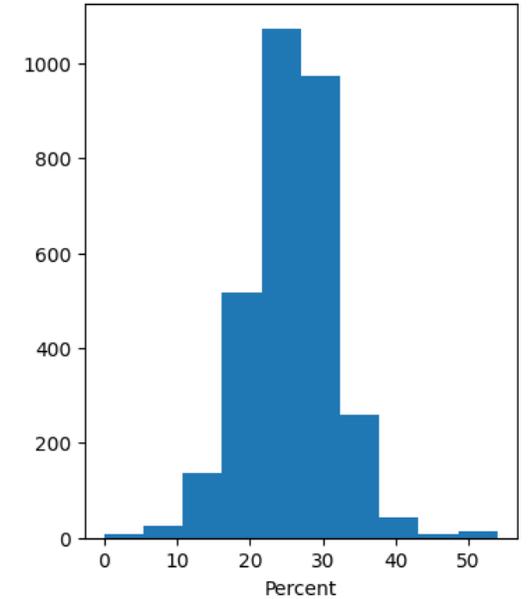
Percent of Population with Reported COVID-19 Case for Reporting US Counties as of July 13, 2022



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Distribution Across Counties



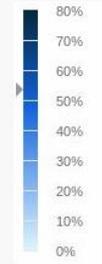
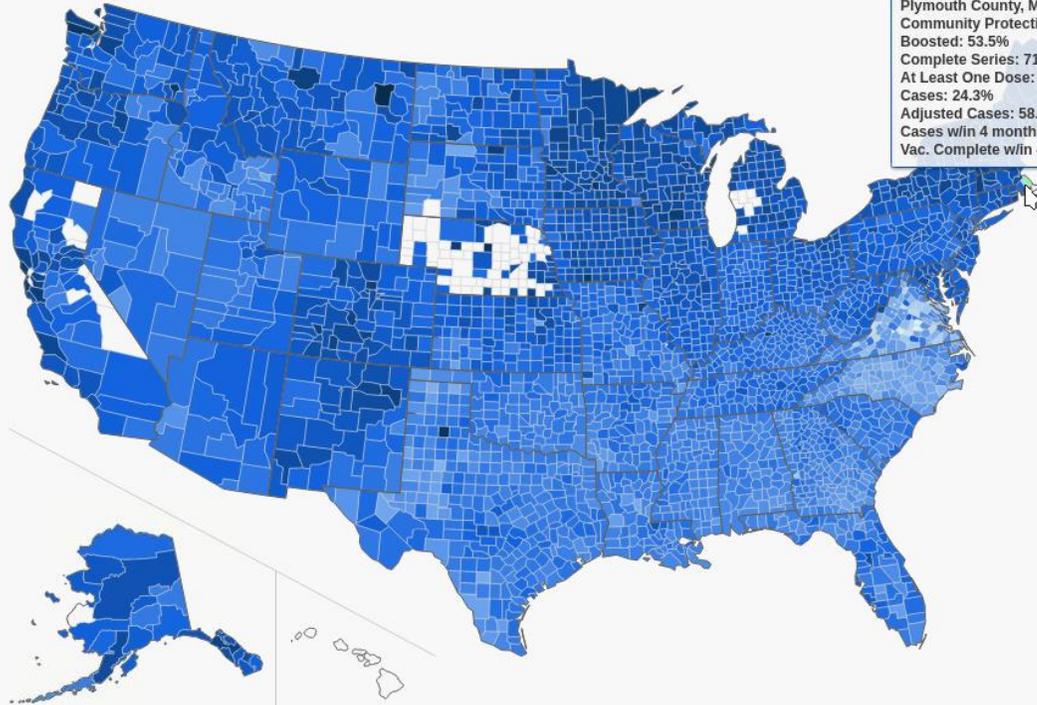
EXAMPLE: PERCENT WITH BOOSTERS



Community Protection Dashboard

- Overview
- Community Protection (Est)
- Boosted (Pct)
- Vaccine Complete (Pct)
- Cases (Pct)
- Adjusted Case Rate

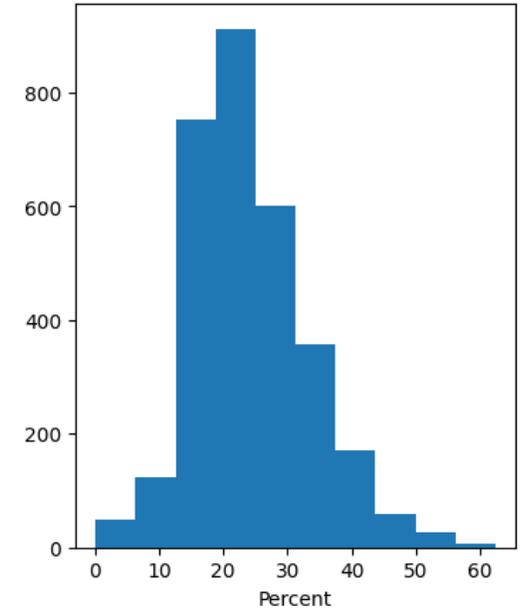
Percent of Population with Booster for Reporting US Counties as of July 13, 2022



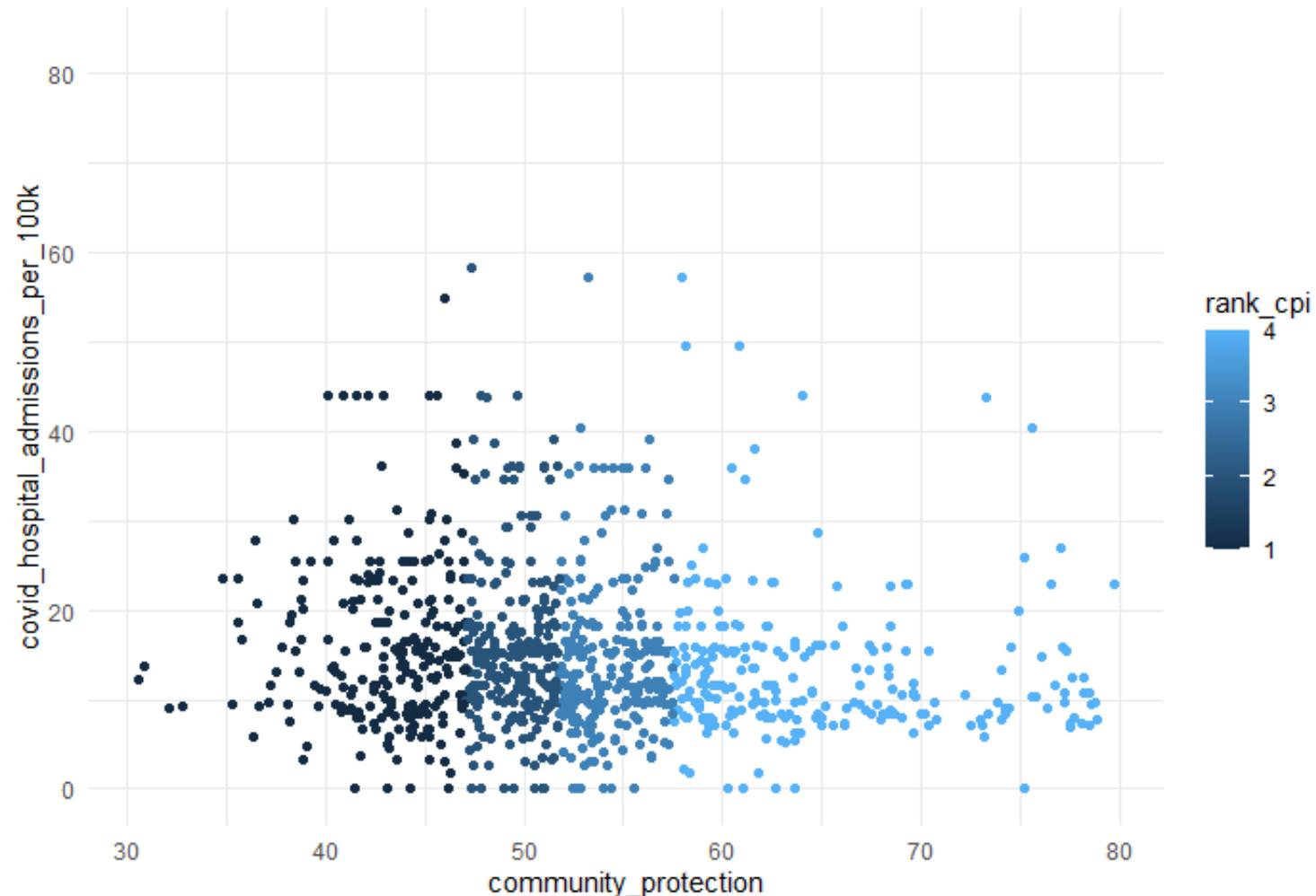
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Distribution Across Counties



RANGE OF COVID HOSPITALIZATION TRENDS LOWER WITH CPI



- The protective factors in the Community Protection Index aggregate the sources of immunity against overwhelming rates of spread of COVID-19.
- Local evidence from Dallas County and multiple published studies bear out the protection afforded by more recent boosted immunity.
- The best path to improve a community's protection is to emphasize the safe benefit of recent vaccination to reduce rates of community spread and severity of disease in the form of hospitalization rates.
- Current low rates of full immunization and booster vaccination among eligible populations highlight significant opportunity for improvement

WHAT WE ARE HOPING TO LEARN NEXT



- How would you use the information in the dashboards on the aggregate Community Protection Index and the individual metrics for your local Covid-19 decisions and communications?
- What else could be included that would be very useful locally?
- Are there other current or future local public health initiatives that would benefit from similar information and dashboards?

Questions and Answers

Please submit questions through the Zoom Q&A function

How to Stay Engaged with Civitas

The Civitas Networks for Health 2022 Annual Conference, a Collaboration with the DirectTrust Summit



[More event info on the Civitas website.](#)

Event Information

Conference Registration

We're pleased to present a hybrid 2022 conference with options for both in-person and virtual attendance. Snag the Early Bird rate before Friday, May 27.

Please view our [Conference Event Safety, Code of Conduct and Policies here.](#)

[REGISTER NOW](#)

Hotel Reservations

Take advantage of our discounted hotel room block for conference attendees at the San Antonio Marriott Rivercenter.

Discounted room rate:
\$159/night

Reservations must be made on or before July 22.

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CIVITAS Civitas Networks for Health Mon 8:58 PM



Member Blog | Washington Health Alliance: Supporting New Civitas Leadership

CIVITAS Civitas Networks for Health Mon 8:40 PM



Member News: Telligen Joins Civitas Networks for Health

CIVITAS Civitas Networks for Health Mon 7:45 PM



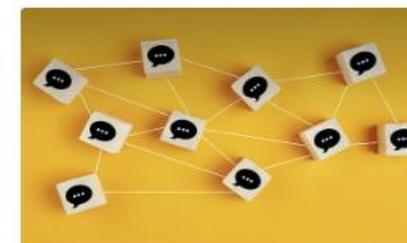
Civitas Member Job Listings, Week of May 2

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Member News | Telligen: Independent Evaluation Demonstrates Success of...

CIVITAS Civitas Networks for Health Apr 28



Industry News: California Set to Launch Statewide Health Information Exchange

CIVITAS Civitas Networks for Health Apr 28



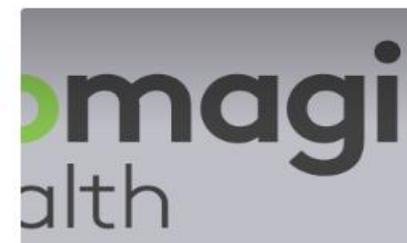
Industry News: The Sequoia Project Celebrates 10-Year Anniversary as Health...

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Member Event: Better Health Partnership 2021 Report to the Community Webinar

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Member News: Comagine Health Publishes Report on QPP-SURS Work

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