

Cook County Department of Public Health Quarterly Report

*to the Cook County Board of Commissioners in their
capacity as the Cook County Board of Health*

Q4 2024 - Public Health Data Equity & Improvement Initiatives

Presenter:

LaMar Hasbrouck, MD, MPH, MBA

COO Cook County Department of Public Health



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Epidemiology and Surveillance

Data collection through an Equity lens



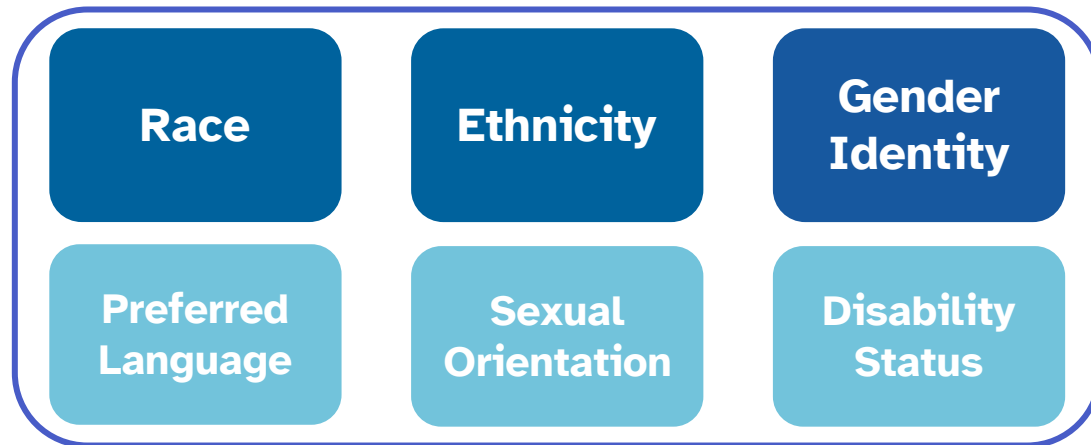
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Health Equity & Epidemiology

Health Equity Data



How do we know if there are differences in health outcomes amongst people?

Population Health Surveillance



People

Is there a difference between a health outcome by age, race, income, access to primary care?



Place

Are some areas more impacted by a health outcome?



Time

How has the health outcome changed over time?



Enhancing Data-Driven Initiatives

- Data on lead-based paint shaped door-to-door canvassing initiative
- Over 100 conversations with residents
- Information on risks of exposure and remediation programs



Peeling Lead-based Paint

Does this look familiar?

Childhood Lead exposure affects

- Brain development
- Learning ability
- Behavior
- Concentration

Qualifications

- Age of Property**
Property built before 1978.
- Child in Household**
Child under the age of 6 years old lives or visits.
- Income Quality**
Household income must fall within income guidelines.

Grant Program available throughout Suburban Cook County
To apply visit: www.leadfreecookcounty.com
For more information contact: 312-515-0366

Inspección y Reparaciones GRATIS sobre los riesgos de plomo en el hogar

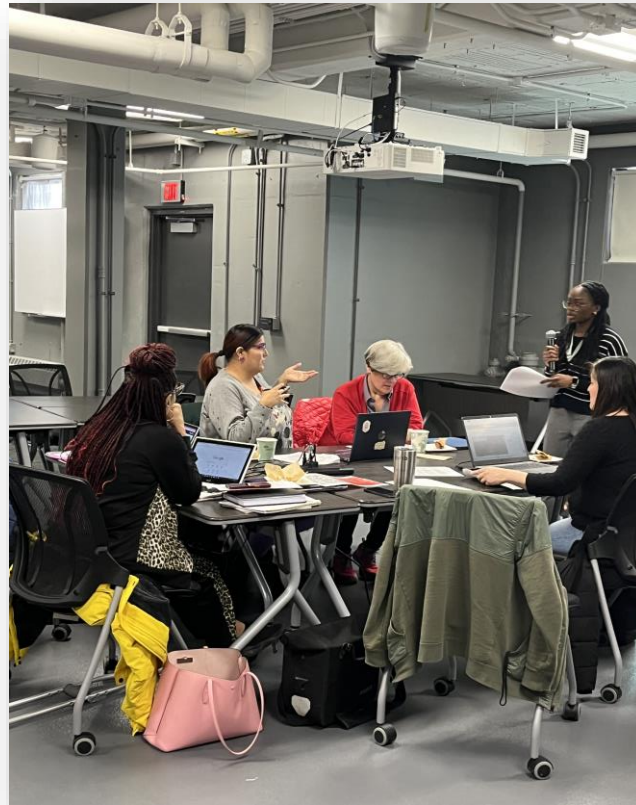
Nuestro programa de subvenciones para el plomo tiene como objetivo ayudar a mantener a niños a salvo de los peligros de la pintura con plomo.

Nuestros servicios:

- Inspección**
Inspección y reparaciones interiores y exteriores gratuitas
- Reparaciones**
Reparaciones en el hogar sin costo y energéticamente eficientes por parte de un contratista con licencia
- Asistencia**
Proceso de solicitud de subvenciones



Building Community Capacity



Supporting Community Action

2018-2022

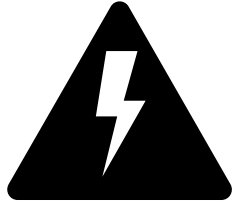
COMMUNITIES	# OVERDOSE DEATHS
▶ Cicero , Chicago, Stickney	105
Chicago Heights , Lynwood, Sauk Village, South Chicago Heights, Ford Heights, Steger	91
Oak Lawn	81
▶ Maywood , River Forest, Hines	77
Berwyn , Stickney, Forest View, Lyons	75
Harvey , Phoenix, Markham, Dixmoor	68
Calumet City , Lansing, Burnham	65
Bellwood	50
Melrose Park , Franklin Park, River Forest	48
Des Plaines , Glenview, Park Ridge	44



- **Maywood** community conversations, training, and naloxone distribution Aug. - Sept. 2024
- **Cicero** community initiative *coming soon!*

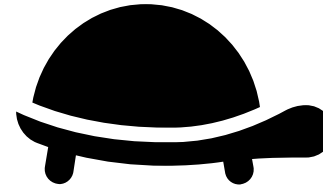


Public Health Data: Faster vs. Slower



FASTER data:

- Less complex
- Faster onset/throughput
- Survey/Primary data



SLOWER data:

- More complex
- More time to clean, validate
- Slower data are not "bad"

Regardless of speed of PH data, individuals receive timely diagnosis and treatment

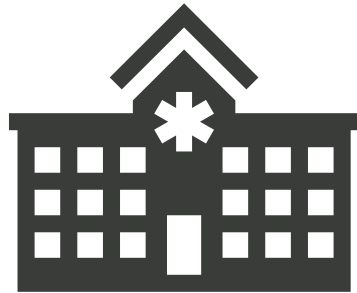
- Provider care, decision-making, does not depend on speed/timeliness of surveillance data
- Public Health service delivery does not depend on speed/timeliness of surveillance data



Jurisdictional Issues



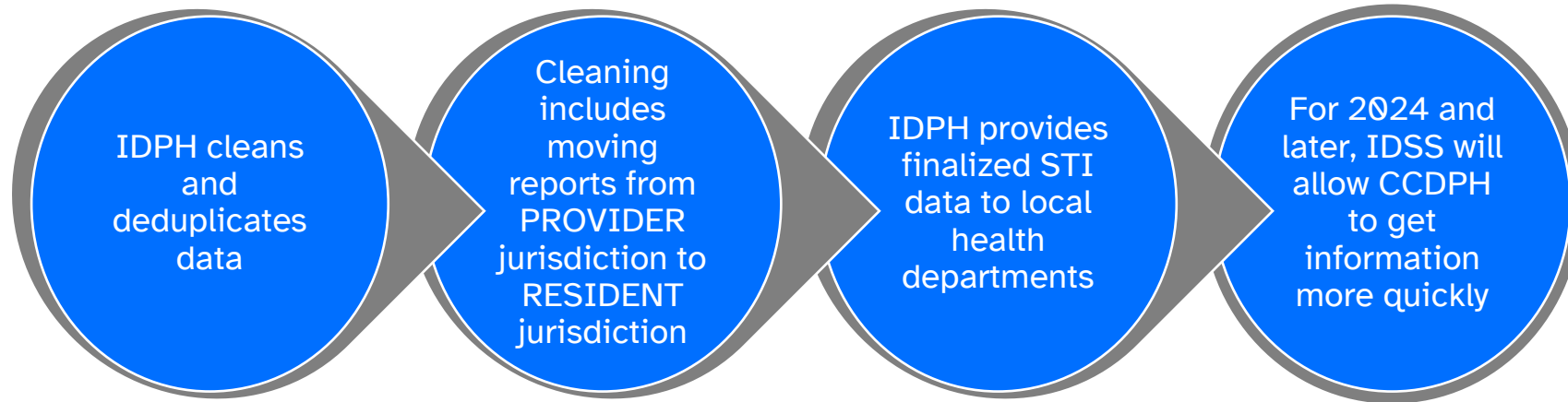
Most reportable diseases/conditions reported by **residence** of the **PERSON** with the disease/condition (**faster**)



Some diseases (HIV, Syphilis, Congenital Syphilis, Chlamydia & Gonorrhea) are reported by **location** of the **PROVIDER** (**slower**)



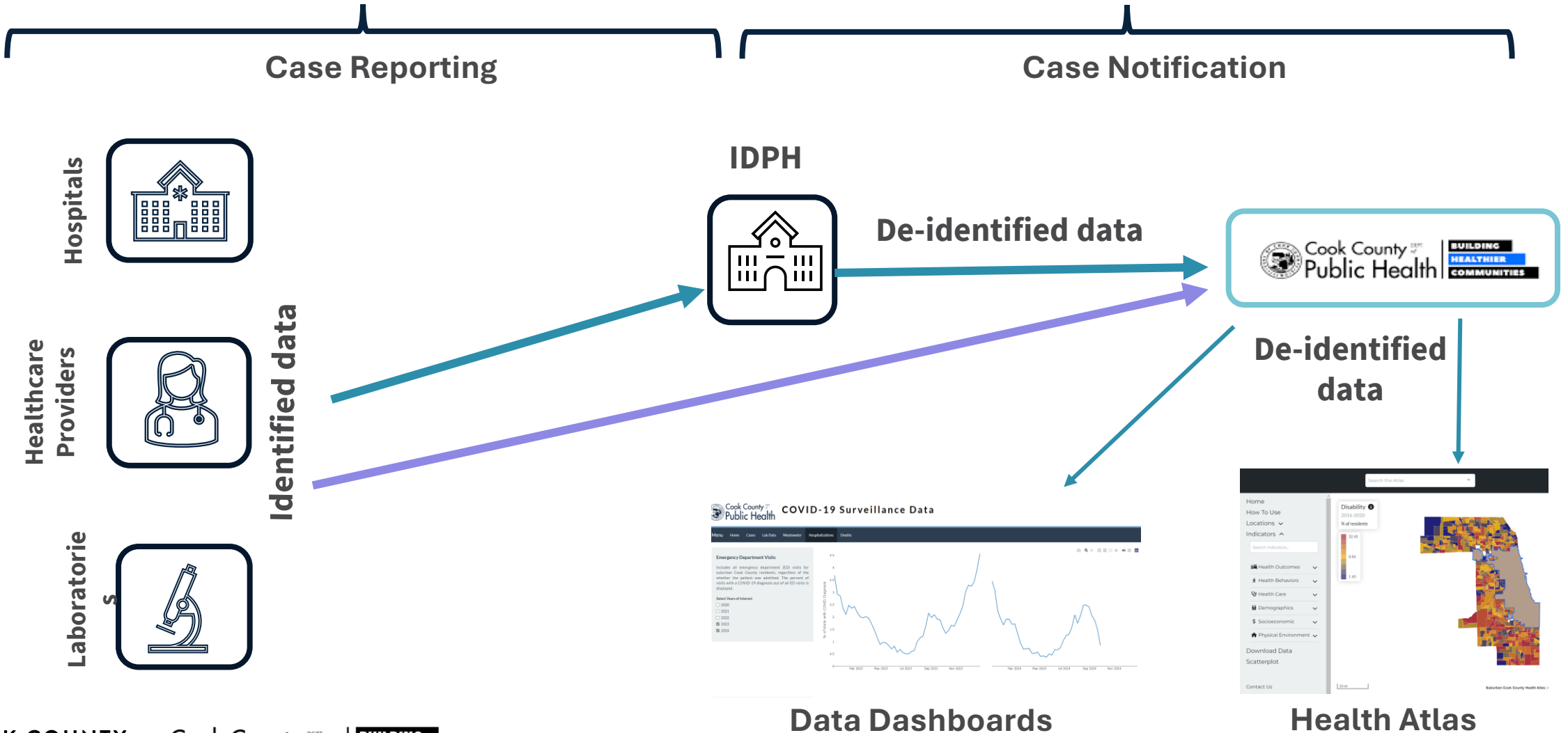
Slower Data: STIs



- CCDPH received final 2022 STI data from IDPH in Jan 2024
- CCDPH has not yet received final 2023 data
- Most recent STI data for CCDPH is 2022



CCDPH Surveillance Data



Timeframes

- End of Year
- End of Year +6, 12, 15 months
- Cleaning, deduplicating
- Final closed dataset



National STI Data (as of Oct 8, 2024)



Sexually Transmitted Infections (STIs)

Search



Data & Statistics

[Print](#)

On this page you'll find the most recent statistical content for STIs.

STI Surveillance, 2022



Published January 2024

Data on reported cases of three nationally notifiable STIs: chlamydia, gonorrhea, and syphilis.

GISP Profiles



Published December 2023

Data on drug-resistant gonorrhea.

Syphilis Supplement



Published January 2024

Selected behaviors among reported primary and secondary syphilis cases for 2018-2022.



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Making Data Available

The Cook County Health Atlas



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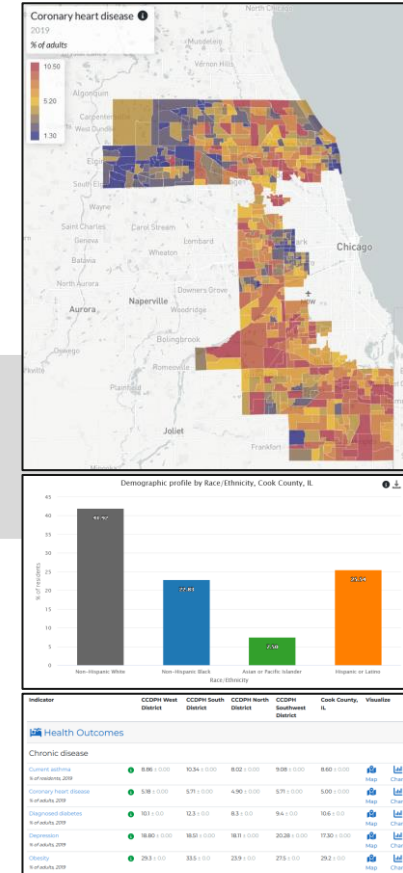
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Cook County Health Atlas



cookcountyhealthatlas.org



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Health Atlas Indicators

HEALTH OUTCOMES

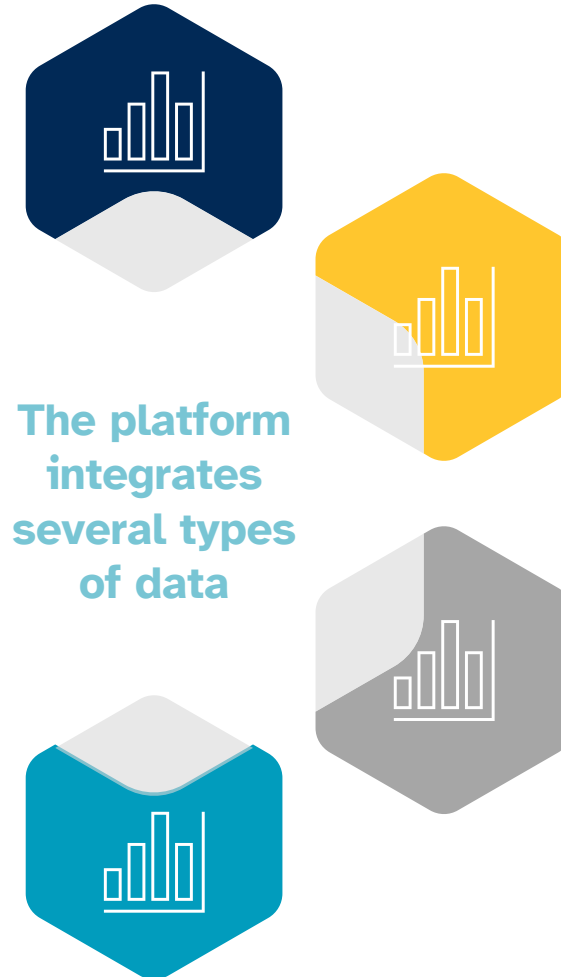
Consequences, complications and other outcomes that result from disease (e.g., **injury, hospitalization, death**).

HEALTH BEHAVIORS

Individual activities that influence health (e.g., **alcohol, drug and tobacco use; diet, physical activity, sleep**).

HEALTH CARE

Systems and services for administering care (e.g., **health screenings; primary, prenatal and dental care; clinics, hospitals, FQHCs**).



DEMOGRAPHICS

Population characteristics including community size, composition and structure (e.g., **population, age, gender, race/ethnicity, migration**).

SOCIOECONOMIC

Social and economic factors that can affect health (e.g., **income, employment, education, segregation**).

PHYSICAL ENVIRONMENT

Characteristics of the places where individuals live, learn, work, and play (e.g., **parks, housing, air quality, water quality and transportation**).



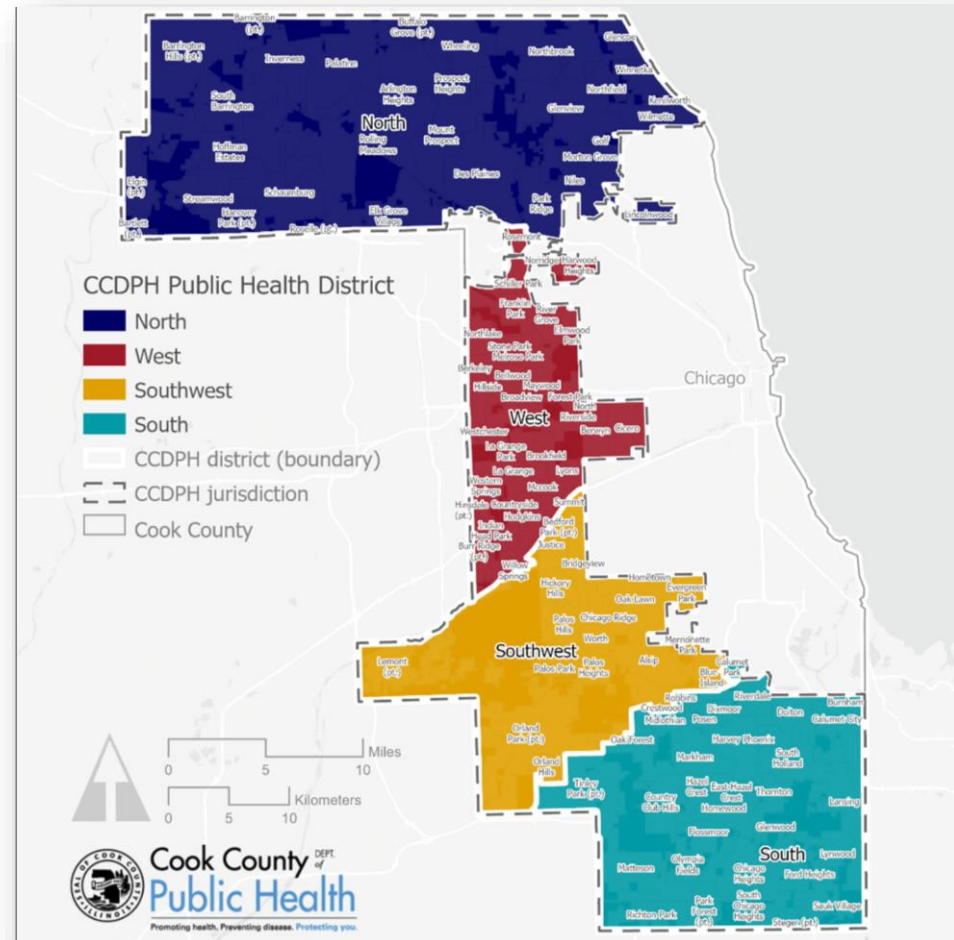
Place- and Population-Based Reporting

Places

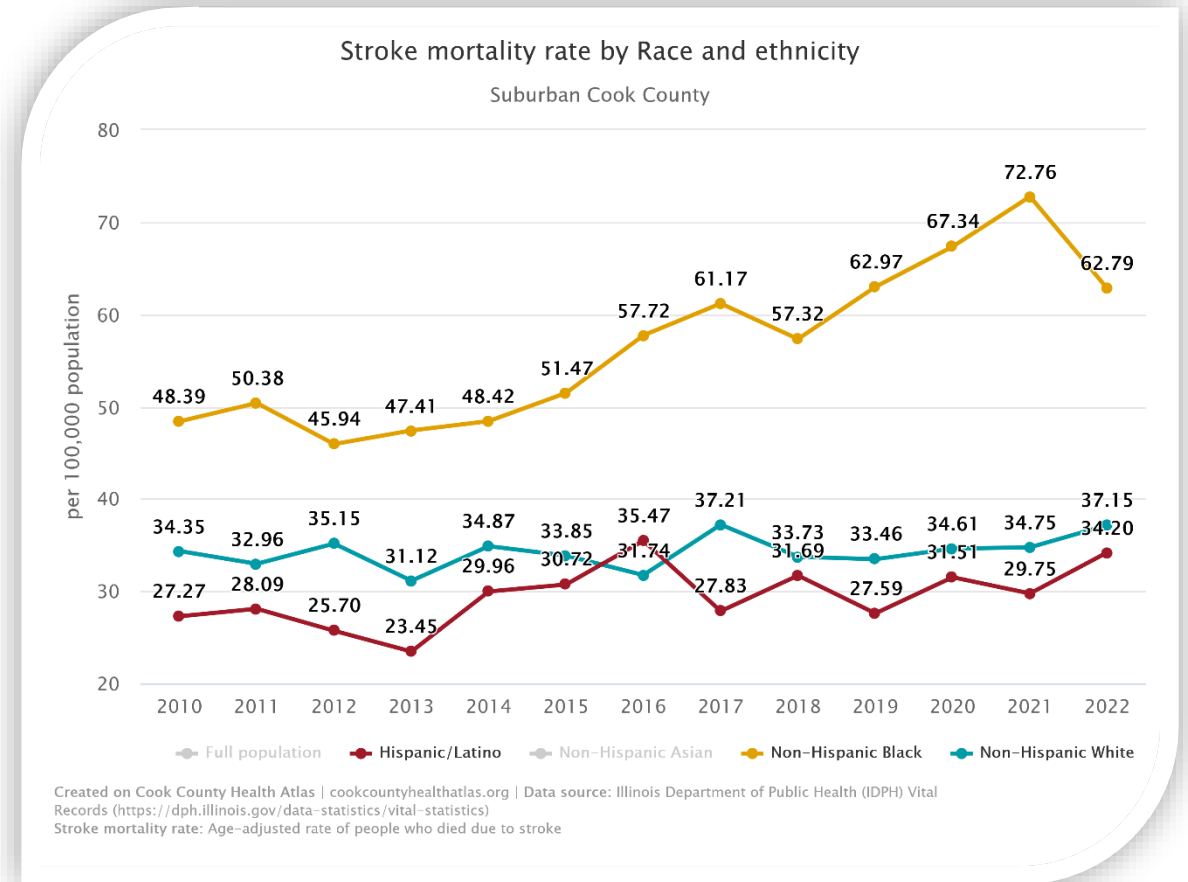
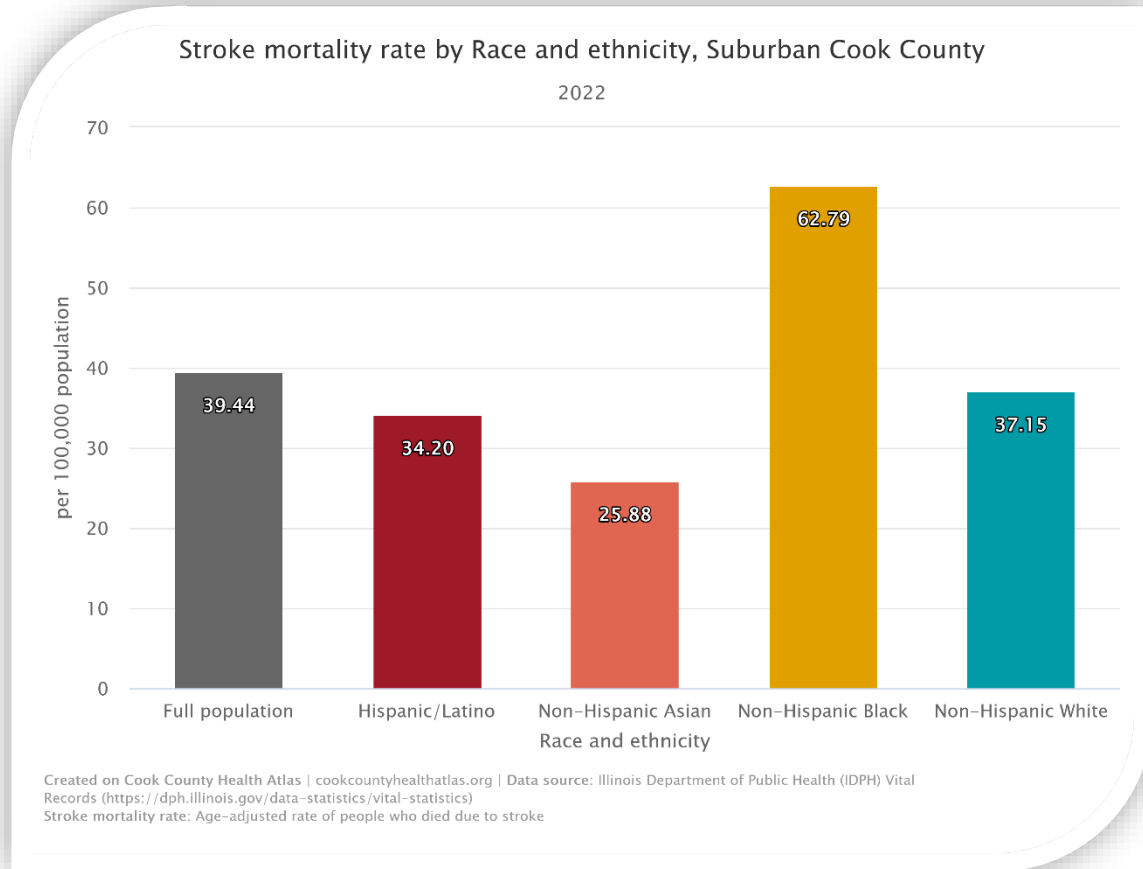
- Suburban Cook County
- CCDPH Jurisdiction
- CCDPH Health District
- Municipality
- Zip Code
- Census Tract

Populations

- Race, Ethnicity
- Sex
- Age

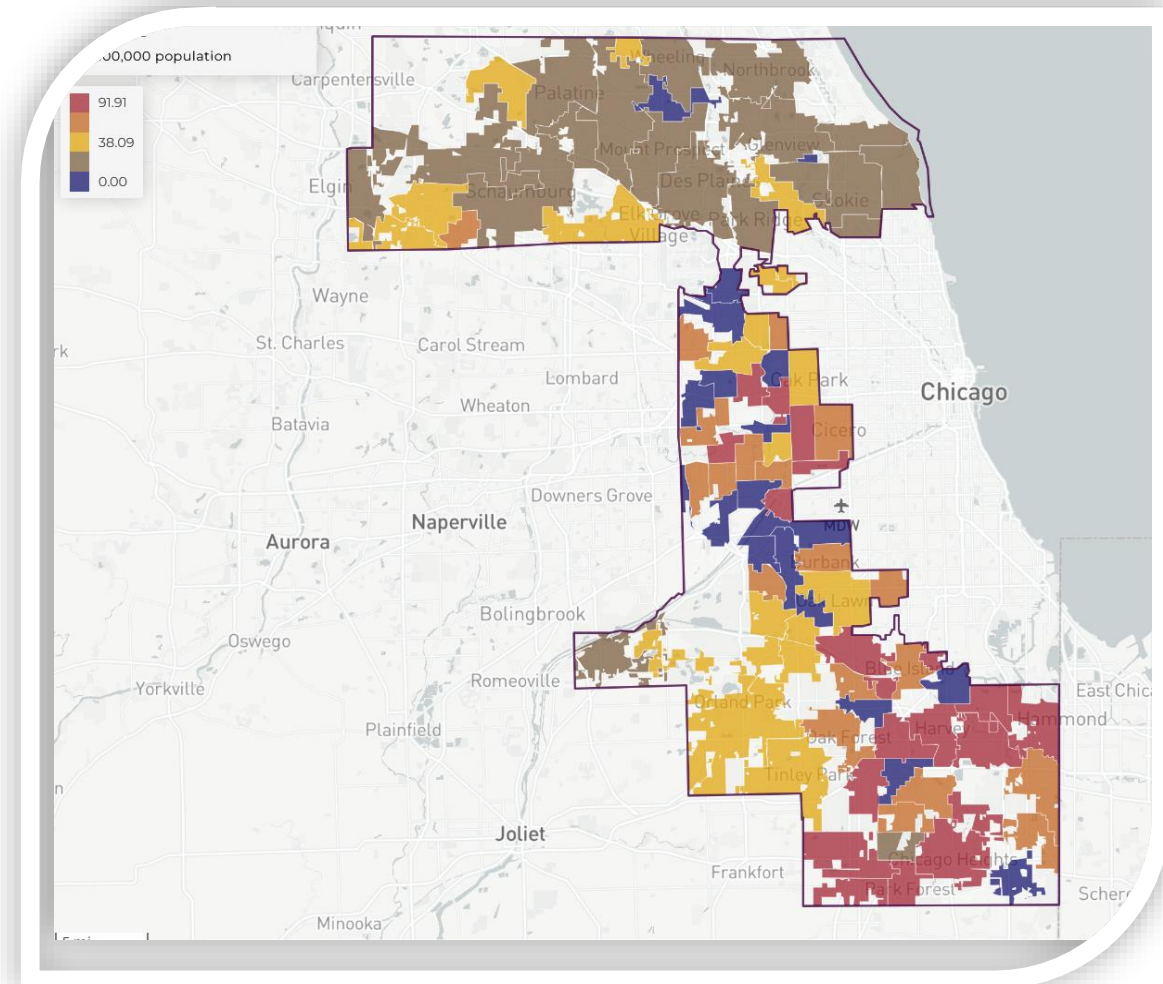


Example 1: Stroke Mortality Rate

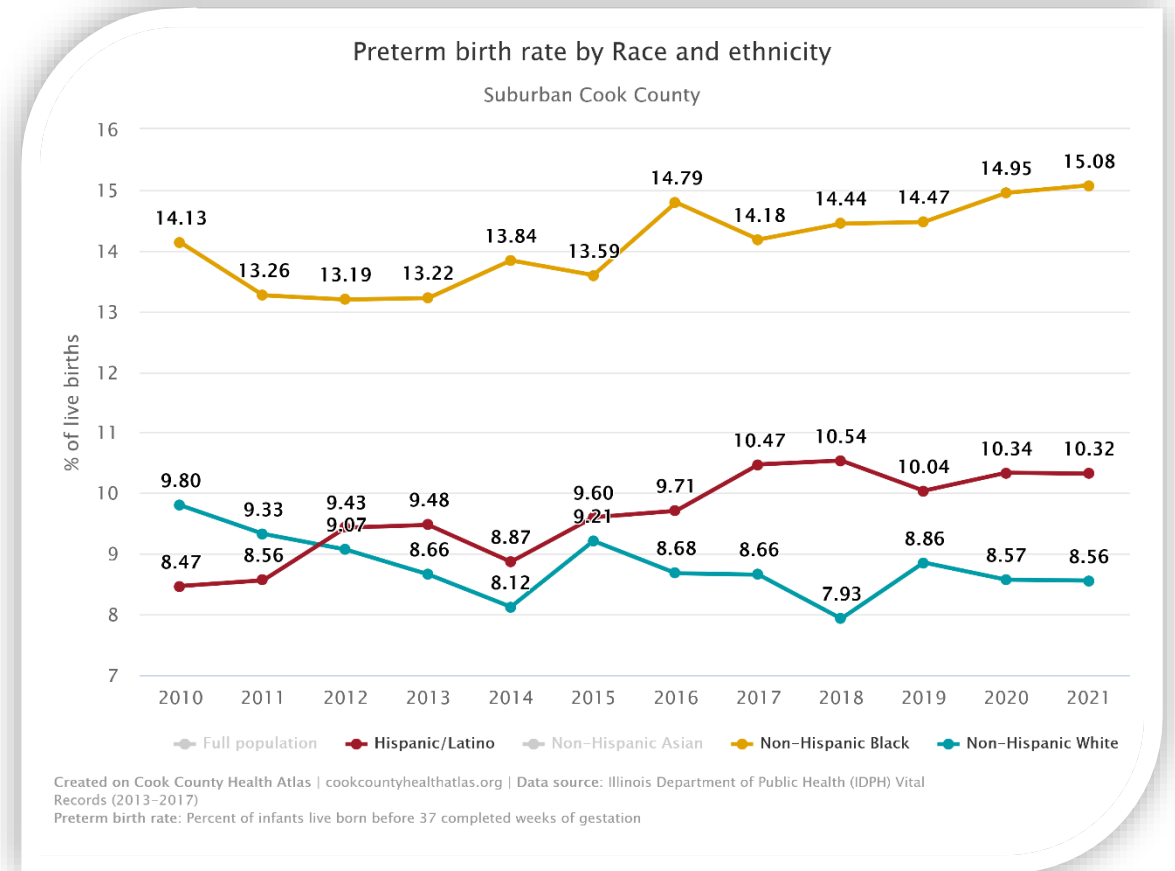
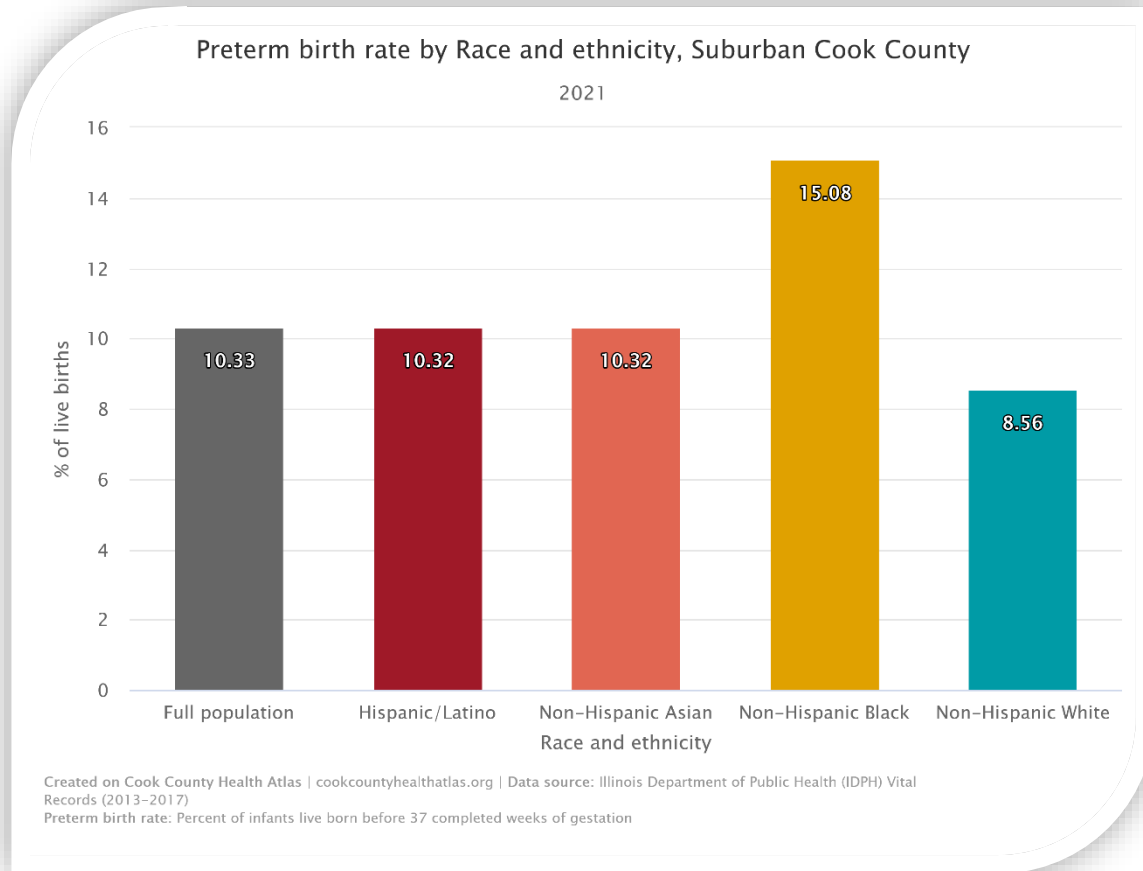


Example 1: Stroke Mortality Rate

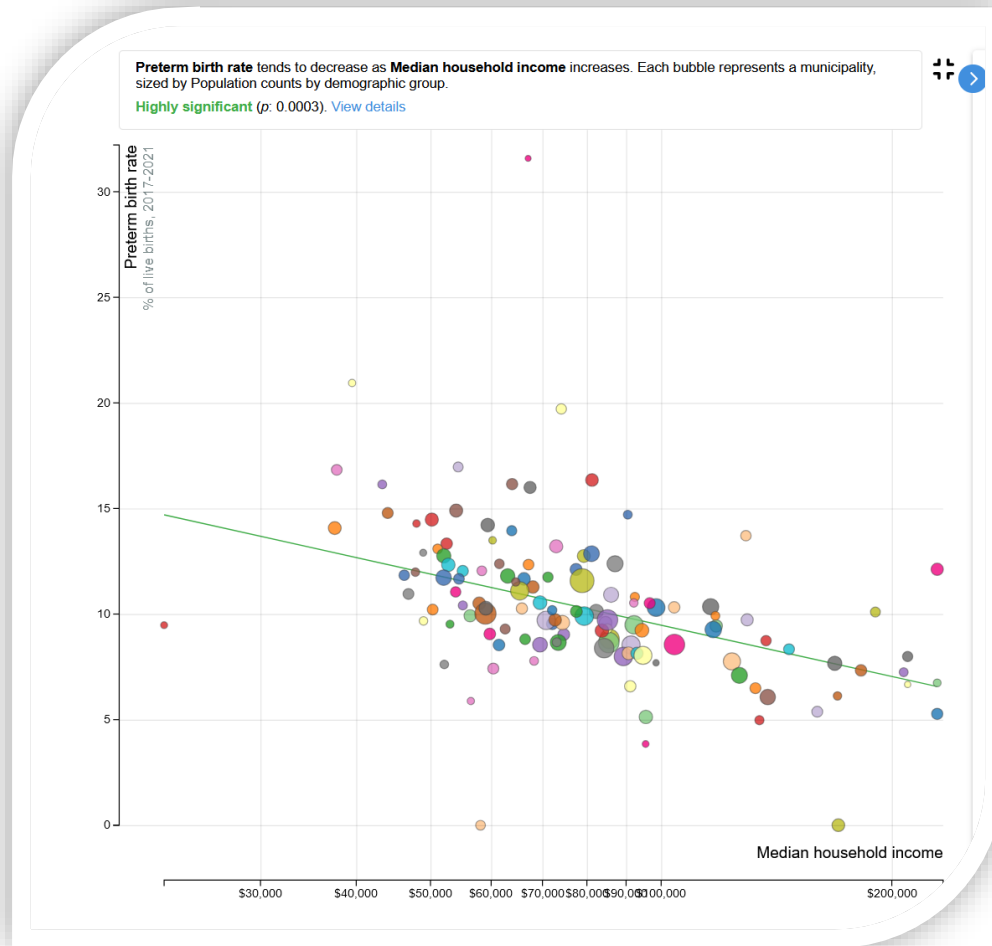
- Age-adjusted stroke mortality rate by SCC
- Rates between 0 and 91.9 per 100,000 population (2018 - 2022)
- Rates in the upper quintile are largely clustered in the South and West areas of SCC



Example 2: Pre-Term Birth Rate



Example 2: Pre-Term Birth Rate



- On average, the preterm birth rate decreases by 0.33 for every 10% increase in median household income
- Median household income explains 33.4% of the variation in preterm birth rate
- This regression is based on 127 data points



Opportunities

Increasing access to and understanding of data



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Increasing Access – Published Surveillance and Behavioral Health Reports

Reports

- Joint Opioid Report 2019-2020
- STI surveillance reports
- West Nile Virus Reports



Community Health Plans

- WePlan Health Status Assessment
- WePlan Community Health Improvement Plan



Interactive Apps

- Health Atlas
- Opioid Overdose Shiny App
- Comprehensive Respiratory Dashboard



Supporting Materials

- Webpages
- Social Media graphics
- Infographics
- Handouts



Improving Data Availability

- Increase availability of provisional data
- IDPH data modernization
- Add more indicators to Health Atlas
- Create more user-friendly dashboards

The screenshot shows a dashboard titled "HIV Surveillance Update Reports" with a subtitle "Surveillance Reports 2024". Below the title is a list of reports for each month from March to July 2024. A blue oval callout labeled "Provisional Data" is positioned over the July 2024 report link.

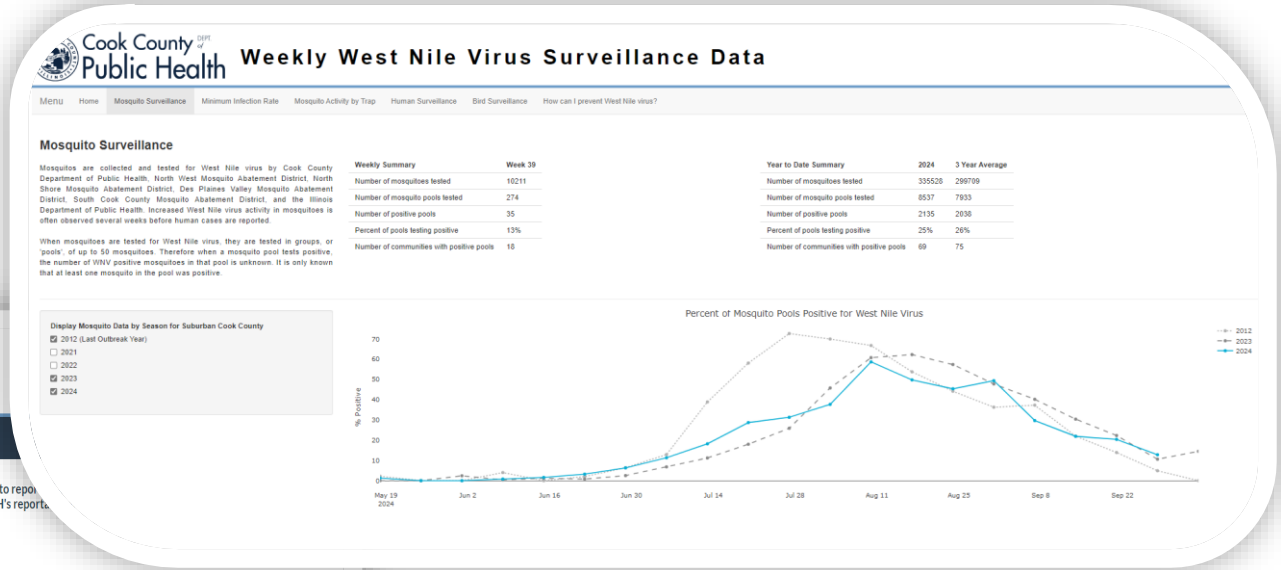
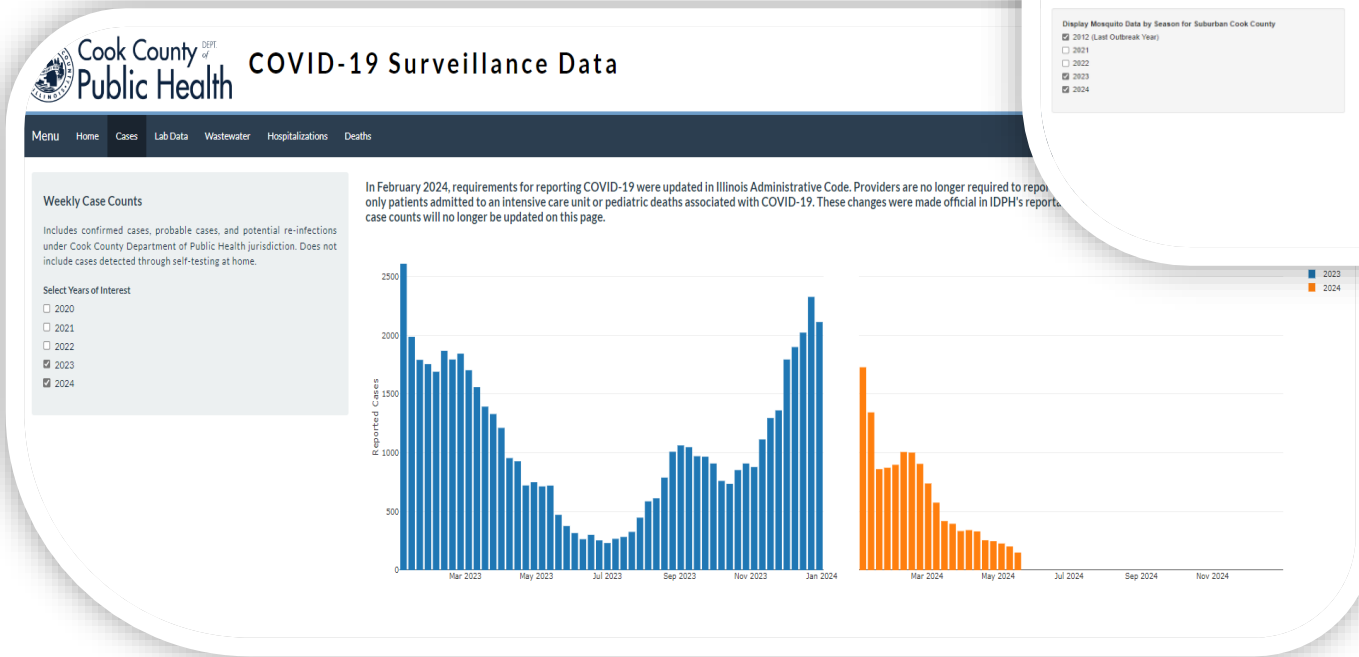
HIV Surveillance Update Reports
Surveillance Reports
2024

- July 2024 HIV Surveillance Update Report
- June 2024 HIV Surveillance Update Report
- May 2024 HIV Surveillance Update Report
- April 2024 HIV Surveillance Update Report
- March 2024 HIV Surveillance Update Report

Provisional Data



Example - Data dashboards



Thank You



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