

Development and Implementation of a Weekly Public-Facing Respiratory Virus Surveillance Dashboard to Support Seasonal Situational Awareness in Dallas County

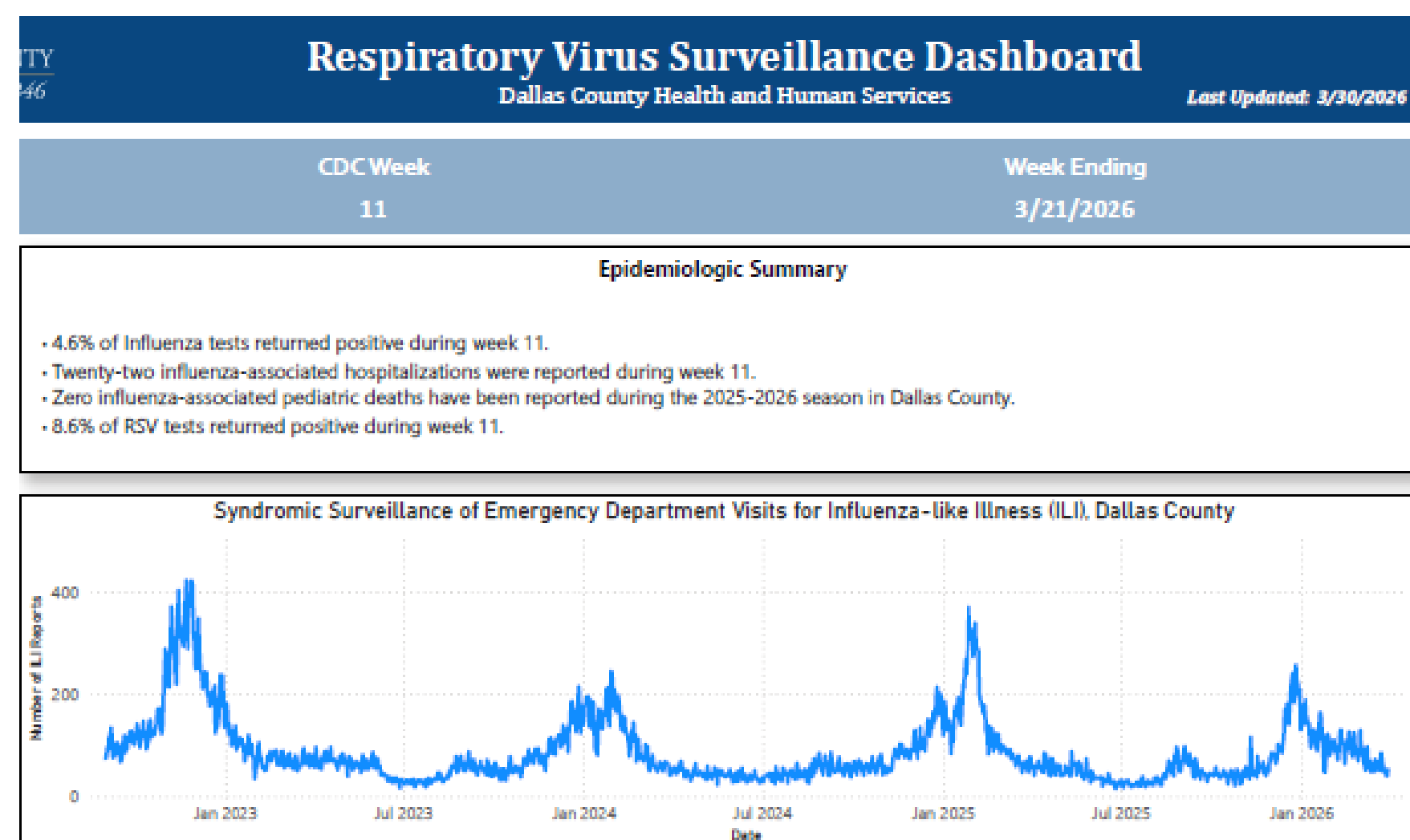
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BACKGROUND

Timely respiratory virus surveillance is essential for monitoring seasonal trends and supporting public health preparedness.

Dallas County Health and Human Services developed a weekly public-facing Respiratory Virus Surveillance Dashboard integrating multiple surveillance systems to provide situational awareness.

Figure 1. Syndromic Surveillance of Emergency Department Visits for influenza-like illness (ILI), Dallas County



RESULTS

This dashboard integrates multiple surveillance indicators to provide a comprehensive view of respiratory virus activity.

Syndromic data capture trends in influenza-like illness, while laboratory data confirm circulating viruses and severity such as hospitalizations.

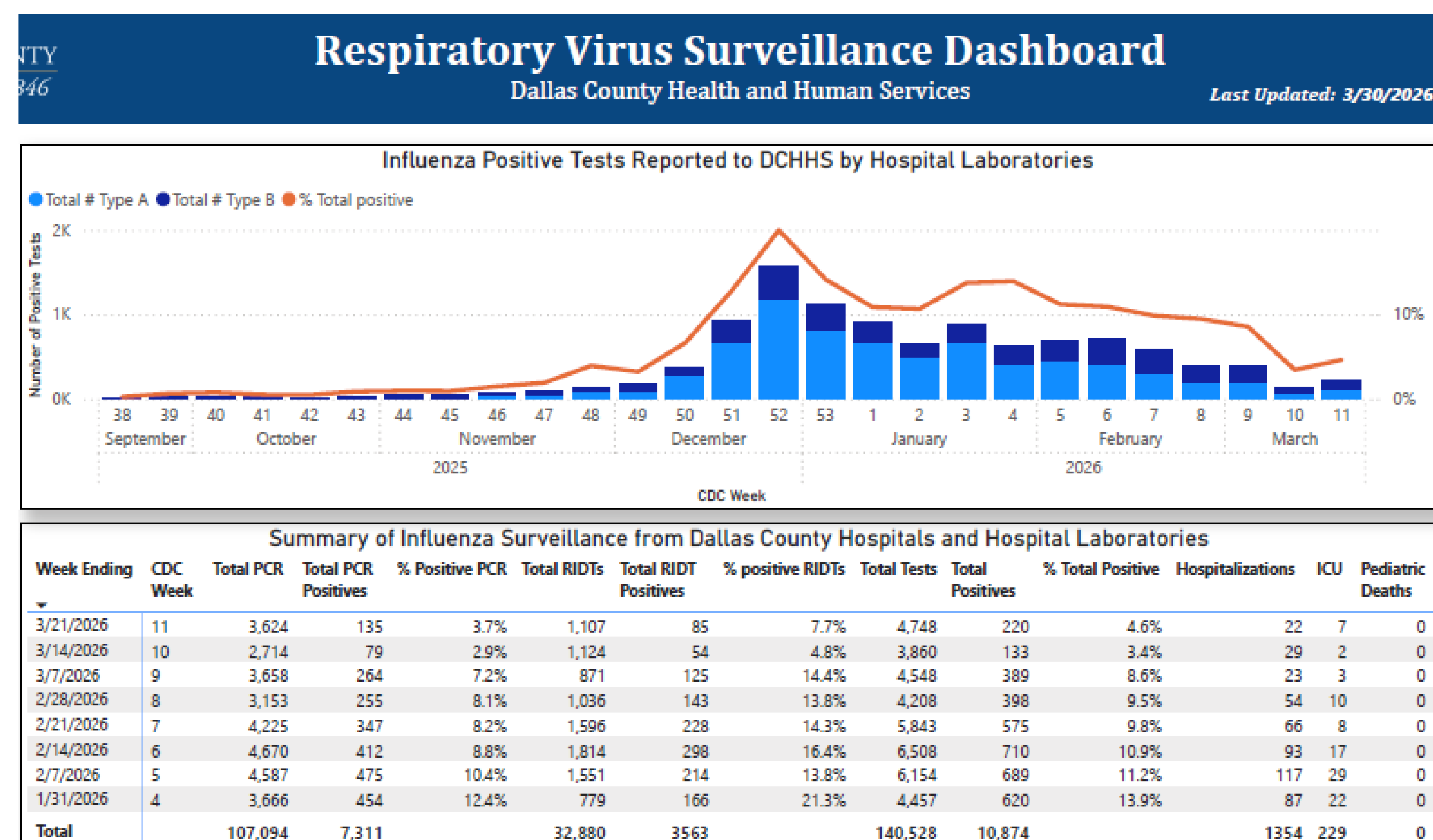
METHODS

Multiple surveillance systems were integrated into the dashboard, including:

- ESSENCE syndromic surveillance (ED visits for influenza-like illness)
- Hospital influenza surveillance reports
- Public health laboratory data from the Laboratory Response Network
- Texas DSHS and CDC influenza surveillance reports
- National Respiratory and Enteric Virus Surveillance System (NREVSS)

Indicators are updated weekly during respiratory virus seasons.

Figure 2. Weekly Influenza Laboratory Positivity and Hospitalizations, Dallas County



CONCLUSION

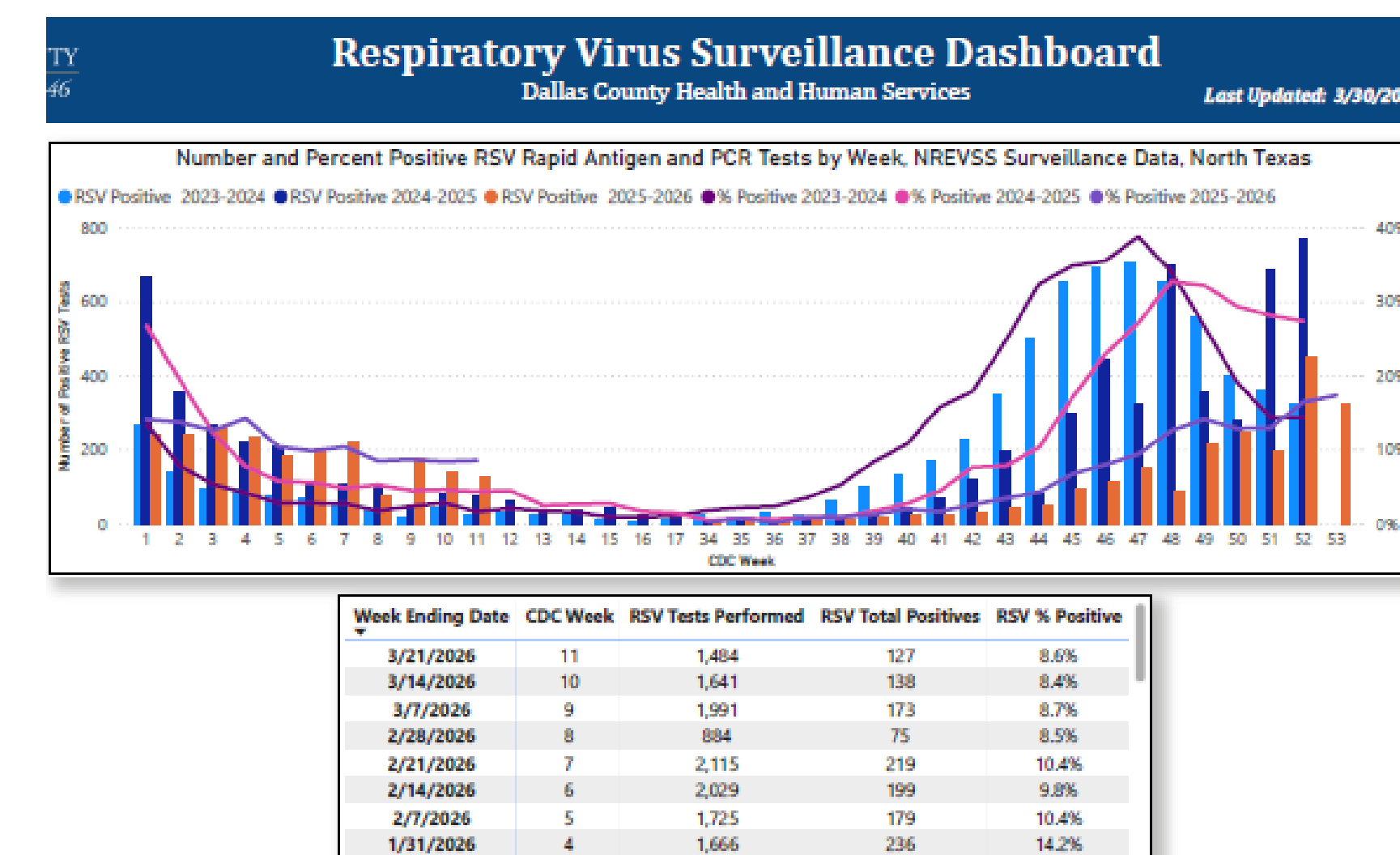
A weekly integrated respiratory virus surveillance dashboard provides timely situational awareness by consolidating multiple surveillance indicators into a single platform.

This approach demonstrates the value of integrated surveillance tools for supporting local public health preparedness and decision-making.

KEY MESSAGE

Integrated respiratory virus surveillance dashboards improve situational awareness by presenting multiple indicators in a centralized and interpretable format for public health decision-making.

Figure 3. Weekly RSV Laboratory Positivity, NREVSS Data



PUBLIC HEALTH IMPLICATIONS

This dashboard improves communication of respiratory virus trends with healthcare partners, public health leadership, and the public.

It supports timely decision-making and strengthens preparedness for seasonal respiratory virus activity at the local level.



Scan to access the live dashboard

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