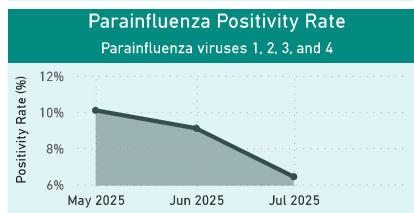
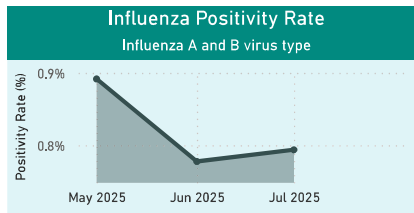
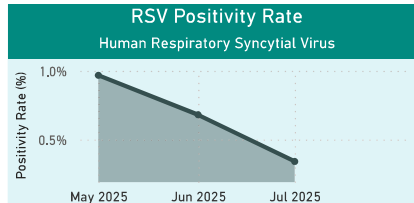
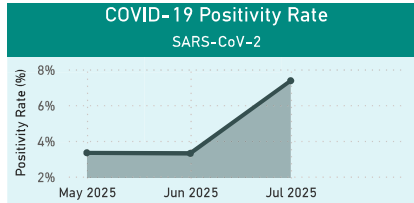


Respiratory Pathogen Trend Report

Powered by Vikor Scientific COVID-19 and Respira-ID™ Test Panels

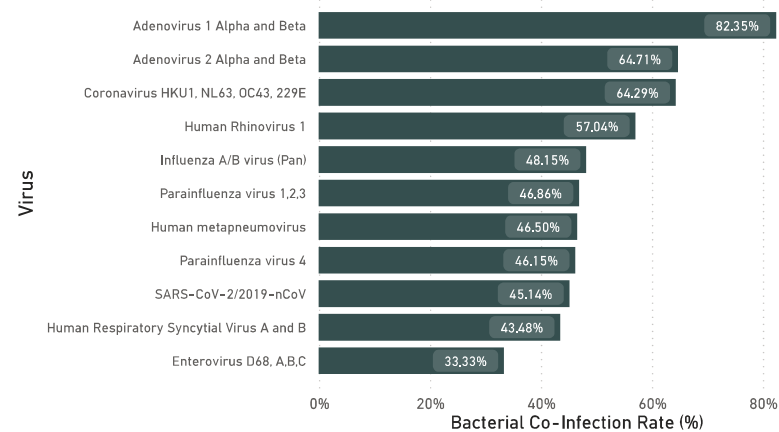
May - July 2025

Data Source: All test results are derived from Vikor Scientific's COVID-19 and Respira-ID™ test panels, which provide comprehensive respiratory pathogen detection and identification.



Bacterial Co-infection Rates Among Viral-Positive Patients

Percentage with concurrent bacterial infections



Overall Patient Positivity Rate

67.39%

Patients with at least one positive test

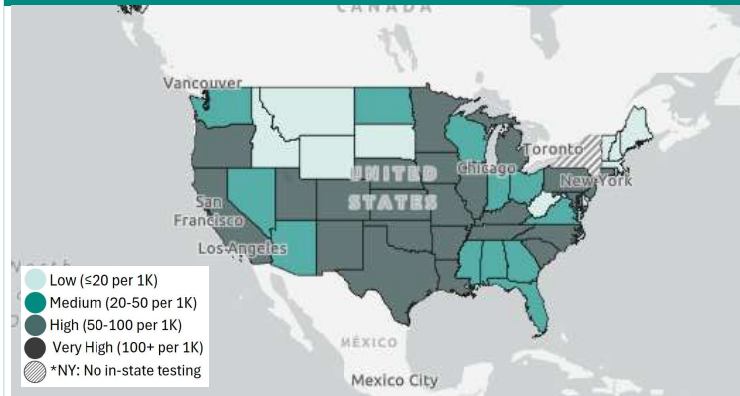
Overall Co-Infection Rate

27.67%

Patients with at least two pathogens detected

Patient Positivity Rates by State

Patients with positive respiratory test results per 1,000 tested



Esri, TomTom, FAO, NOAA, USGS

Powered by Esri

Pathogen Trend Activity



Trending Up

- COVID-19 (SARS-CoV-2): 3% to 7%
- Staphylococcus aureus: 10% to 8%
- Klebsiella pneumoniae: 6% to 8%



Moderate Activity

- Parainfluenza virus 4: ~1%
- RSV A and B: ~1%
- Influenza A and B virus: ~2%
- Human Rhinovirus 1: ~1%
- Adenovirus 1 Alpha and Beta: ~1%
- Adenovirus 2 Alpha and Beta: ~2%
- Enterovirus D68, A,B,C: ~0.5%
- Haemophilus influenzae: ~22%
- Chlamydia pneumoniae: ~1%
- Mycoplasma pneumoniae: ~0.5%
- Bordetella pertussis: ~0.5%
- Streptococcus pyogenes Group A: ~0.5%



Trending Down

- Coronavirus HKU1, NL63, OC43, 229E: 18% to 14%
- Parainfluenza virus 1,2,3: 10% to 6%
- Human metapneumovirus: 6% to 3%

Key Trends

Influenza A and B virus types: Remains low (close to 0%) for most of the period, but shows a sharp spike at the very end of June reaching approximately 35%, followed by a decline back to low levels in July.

COVID-19 (SARS-CoV-2): Detection rate remains relatively low but more consistently present than influenza, typically hovering around 2-8% with periodic spikes. There's continued circulation throughout the entire three-month period with several notable peaks.

RSV (Human Respiratory Syncytial Virus): Low-level, intermittent circulation at 2-4% with two notable spikes, one in May and a more significant spike reaching approximately 12% in July.

Parainfluenza (viruses 1, 2, 3, and 4): Consistent circulation with sustained positive detection rates typically ranging 3-10%.

Footnotes

1. Overall Positivity Rate: percentage of patients who tested positive for any respiratory pathogen; patients may have been tested for multiple pathogens
2. Overall Co-Infection rate: percentage of patients testing positive for multiple pathogens; includes any combination of viral and bacterial respiratory pathogens detected in the same patient
3. Bacterial Co-infection Rate: percentage of viral-positive patients who also tested positive for bacterial pathogens
4. Patient Positivity Rate Per State: number of patients with at least one positive test per 1,000 patients tested by state; Geographic analysis based on patient state of residence at time of testing.
5. Pathogen Trend Activity: Based on detection rate trends over May-July 2025 period

Disclaimer: Data provided "as is" for informational purposes only and not intended for clinical treatment guidance.

