COVID-19 Decision Support
Global Pet Expo

Lindsey Reiser, PhD
Managing Director

lindsey.reiser@epistemix.com
We empower leaders to make better decisions by simulating the human impact of the choices they face.
Leaders face significant risks when they make strategic decisions on behalf of the people they serve.

Epistemix gives them the tools they need to model realistic scenarios, compare interventions, and communicate results.
With its realistic population dynamics, our simulation platform reveals actionable insights at scale.
Informed by decades of work with groups like World Health Organization and CDC.

With funding from University of Pittsburgh, Bill and Melinda Gates Foundation, and National Institutes of Health.
In April, NY NOW used Epistemix simulations to show they could safely host their convention at the Javits Center in August.

In May, the organizers of the Eric County Fair used Epistemix data to earn county and state officials’ approval to run their event in August.

In March, the World of Concrete used Epistemix projections to earn approval to host their event at the Las Vegas Convention Center in June.

Chicago regulators used Epistemix models to simulate the epidemiological impacts of the entire event calendar at McCormick Place and across the city.
CASE STUDY

Orlando Convention Center

91-98% accurate

41 / 45 Infections

17 / 18 Infections

3818 / 3898 Total Tests

Even when the overall immunity to COVID-19 was low, we were able to forecast the impact of the epidemic on events and the impact of events on the epidemic; showing both cases and the expected outcome of doing on-site testing upon entry at events.
CASE STUDY

Philadelphia Convention Center

Natural Products Expo East

4X Risk Reduction for Infection

15,000 people

Data was >90% accurate
Monthly/Weekly Event City Projections

https://blog.epistemix.com/blog/
Seasonal COVID-19 Risk
Seasonal COVID-19 Risk

- Masking recommended
- Mitigations can be reduced
- National case average

City-specific trends:
- Nashville
- Atlanta
- Miami
- Orlando
Orlando City Projections

The city of Orlando is currently decreasing in cases and will continue to be low during the spring.
3 Step Process

1. What is happening locally?
2. What is within your control?
3. How can you improve outcomes for your event?
What is in your control?

- Health and safety policies that can include
  - Masks
  - Proof of vaccination
  - Negative tests
- Location
- Number of Attendees
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March 23 - 25
Orlando, FL
Orange County Convention Center
12,000 Expected Attendees
800 Exhibitors
95% Exhibit Areas : 5% Meeting Rooms
Because of the level of vaccination coverage and event-specific requirements, the risk is minimal for attendees.
Global Pet Expo

A mask policy reduces the risk of infection below the CDC threshold, creating a controlled environment.
Global Pet Expo

With lower vaccination percentages, a mask mandate maintains risk below the CDC threshold.

![Graph showing daily cases per 10,000 during the event with different vaccination scenarios and CDC high-risk threshold.]
Summary

- During certain times of the year, masks are required to keep infection rates below the CDC threshold of high risk.
- Masks decrease cases by 50% and can prevent up to 30 cases creating a controlled environment with limited infections.