ThermoFisher
SCIENTIFIC

Premier Medical Laboratory

In-Air Pathogen Surveillance Solution

Nursing home environments remain a transmission hotspot

Serious COVID risk remains for NJ nursing home residents as employees lag in vaccinations

Lindy Washburn and Scott Fallon NorthJersey.com

Published 4:00 a.m. ET Apr. 26, 2021 | Updated 8:45 a.m. ET Apr. 26, 2021

The New York Times

An unvaccinated worker set off an outbreak at a U.S. nursing home where most residents were immunized.

By Roni Caryn Rabin

April 21, 2021

COVID-19 outbreaks are spiking again at Maine nursing homes

by David Marino Jr.
April 27, 2021

Warren Center sees 15-case COVID outbreak, with vaccines incoming

by: Jay Petrequin

Posted: Jan 8, 2021 / 11:54 AM EST / Updated: Jan 8, 2021 / 11:54 AM EST

CORONAVIRUS

Schools and nursing homes drive increase in Colorado coronavirus outbreaks

AP The Associated Press 6:29 AM MDT on Apr 23, 2021

Thermo Scientific™

AerosolSense™

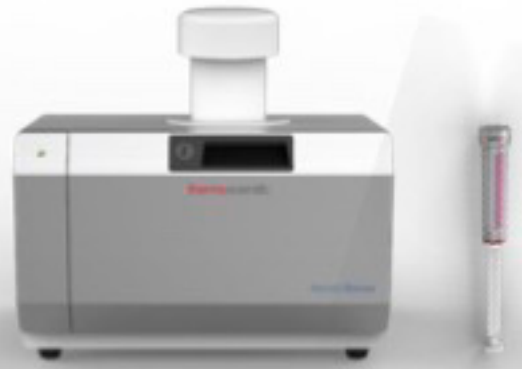
Our new pathogen surveillance solution is designed to deliver timely and reliable insight into in-air pathogen presence so you can monitor and improve your facility safety protocols.

MONITOR YOUR ENVIRONMENT

Workflow

Three simple steps

1
COLLECT SAMPLE



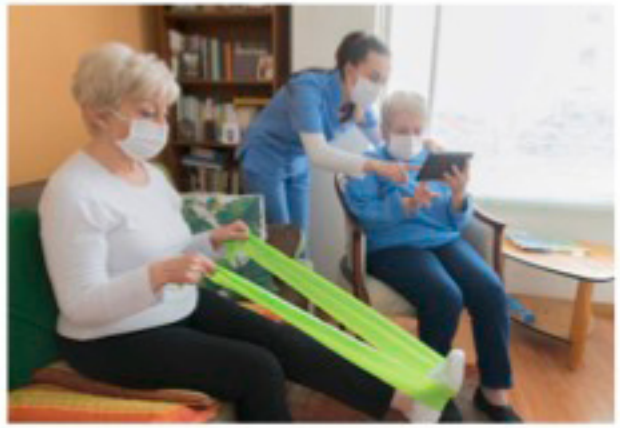
2
REMOVE & REPLACE SAMPLE CARTRIDGE

3
SEND SAMPLE CARTRIDGE TO PML FOR SAMPLE TESTING & REPORTING

Report PCR test results:
- **Covid 19 (SARS-CoV-2)**
- **Flu A&B**
- **RSV (avilable soon)**

Case Study

Arbor Village Nursing Home



Arbor Village Nursing Home provides care and rehabilitation to 71 seniors. Using the AerosolSense Sampler, they wanted to:

- Monitor for risk of SARS-CoV-2 pathogen entering the facility.
- Correlate in-air results with rapid testing to guide future decisions.

Sampler placement
Staff break room

Results: After completion of the program, 1 in-air positive sample was recorded.

Following the in-air positive result, rapid testing was performed the same day, with all staff testing negative.

An employee who accessed the break room that day reported a positive case at home. The staff member was asymptomatic, but isolated at home.

Three days after the AerosolSense Sampler identified a positive in-air sample, the staff member in question tested positive and was symptomatic.

> *The sampler allowed for the detection of the virus in the air three days before an employee tested positive. This raised quick awareness to provide immediate testing to all employees and residents, which allowed us to prevent a potential outbreak".*
>
> ***Executive Director***

Case Study

Sandwich Fire Department, MA

The first responders at the Sandwich Fire Department are regularly in close contact with SARS-CoV-2 patients. Using the AerosolSense Sampler, they wanted to:

- Monitor a high traffic area
- Verify safety protocol compliance and the quality of PPE.

Sampler placement :
Main hallway, a high-traffic area across the first-aid medical room

Results: After completion of the program, 2 samples were positive for SARS-CoV-2.

Immediately after the sampler returned a positive result, all individuals were given a rapid antigen test. One individual tested positive for COVID-19.

The individual who tested positive worked in the facility on both days the positive samples were collected, confirming AerosolSense Sampler detection accuracy and complement to individual testing.

> *The results provided validation that, combined with proper safety protocols, the AerosolSense is an effective surveillance solution…The sampler also acted as a visual deterrent and encouraged employees to wear masks and follow the safety protocols*
>
> ***Fire Chief***