ePlex®
Respiratory Pathogen Panel

Comprehensive Results to Improve Patient Outcomes and Reduce the Cost of Care
The clinical presentation of respiratory pathogens is very similar, complicating diagnosis and appropriate therapy selection. Traditional methods can be slow and miss the cause of infection.

Respiratory Tract Infections
Cause more doctor visits and absences from school and work than any other illness.¹

1 Billion
colds in the United States per year²
and approximately
500 Million
non–influenza Infections¹,³,⁴

Children get
6–10
colds per year²

High-Risk Groups
Are more likely to die from complications or be hospitalized with worsening conditions⁵

Children younger than 5
especially children less than 2 years old

Adults 65 years of age and older

Pregnant women

Critically ill patients
especially immunocompromised, e.g. cancer and transplant patients

Traditional Diagnostic Methods
Are slow and do not offer comprehensive pathogen detection.

Antigen detection,
DFA, culture, and batch PCR
delay treatment decisions

8
HOURS
TO
72
HOURS

Batch PCR is typically run once per day often excluding weekends

What are you missing?

It’s not just flu:

ONLY 16%
of positive results are influenza⁶

⁴ Seasonal Influenza. European Centre for Disease Prevention and Control.
Sample-to-answer multiplex molecular respiratory tests provide rapid, accurate, and comprehensive results to improve patient outcomes and reduce the cost-of-care.

**Antibiotic Stewardship**
Rapid, actionable test results support better antimicrobial stewardship

- **13%** REDUCTION in antibiotic therapy duration
- **0.4** FEWER DAYS in antibiotic use duration in a children’s hospital ED
- **1.0** in median antimicrobial duration among adult influenza patients
- **1.9** in mean antibiotic duration with rapid, sample-to-answer testing

**Bed Management**
Multiplex respiratory panels can improve bed management

- **7 hours** Compared to batch PCR: Reduced length of stay and time in isolation
- **4x** Increase in patients who had results reported while they were still in the Emergency Department

**Patient Outcomes**
Rapid tests results can improve outcomes and reduce mortality

- **10%** INCREASE IN SURVIVAL RATE compared to batch testing in ICU patients
- **30.4 hours** reduction in mean time from sample collection to result compared to batch testing in ICU patients

**Cost-of-Care**
Multiplex respiratory panels reduce the overall cost-of-care

- **3 days** ICU stay reduced by in a major IDN
- **$230** Average cost savings of per positive test result due to reduced hospital and antibiotic costs
- **$8,000** Overall cost-of-care reduced more than per patient relative to batch testing

---

Comprehensive Coverage of the Most Common Respiratory Pathogens

**Viral Targets**
- Adenovirus
- Coronavirus (229E, HKU1, NL63, OC43)
- Human Metapneumovirus
- Human Rhinovirus/Enterovirus
- Influenza A
- Influenza A H1
- Influenza A H1-2009
- Influenza A H3
- Influenza B
- Parainfluenza 1
- Parainfluenza 2
- Parainfluenza 3
- Parainfluenza 4
- Respiratory Syncytial Virus A
- Respiratory Syncytial Virus B

**Bacterial Targets**
- *Chlamydia pneumoniae*
- *Mycoplasma pneumoniae*

For more information on ePlex® and the RP Panel, please visit [www.genmarkdx.com](http://www.genmarkdx.com)