

# Respiratory Pathogen Panel (RPP)

## Accurately detect seasonal bacteria and viruses

GenviewDX offers highly utilized RPP testing that detects 53 respiratory pathogens, now including COVID-19, and 44 antibiotic resistance markers — and we do so with a robust 24-hour validation.

### Sensitivity and Specificity

Family doctors, internal medicine physicians and pediatricians frequently order our infectious diseases tests for bacteria and viruses causes of infection in the upper respiratory and lower respiratory (pneumonia micro-organisms). Unlike rapid assays commonly performed in clinics and doctors' offices, our panel is inordinately more sensitive, more specific and does not rely on a healthcare provider's assumptions or knowledge about the seasonality of viruses.

As a result of the expeditious accuracy of GenviewDX's molecular respiratory pathogen testing, physicians and patients alike realize a range of important benefits.

- Reduce false negatives
- Detect polymicrobial infections
- Include one of the most extensive antibiotic resistance gene panels
- Are unaffected by concurrent antibiotic use
- Reports consistently delivered within 24 hrs

### Common Misdiagnoses of Influenza

According to the Center for Disease Control, most of the rapid influenza diagnostic tests that can be conducted in a physician's office are only 50-70% accurate.



### Specific, Accurate Diagnoses

- **53 Pathogens and 44 antibiotic resistance markers** associated with acute respiratory disease can be detected including **COVID-19, Coronavirus HKU, Coronavirus NL63, Coronavirus 229E, and Coronavirus OC43.**
- **Flu**, one of the most severe illnesses of the winter season, is identified and diagnosed through the use of various target gene assays.
- **Respiratory Syncytial Virus (RSV)**, the most common viral cause of death in children younger than five years, is diagnosed through tests based on reverse transcription- polymerase chain reaction.
- **Pneumonia**, the most common cause for adult hospital admissions, has a highly improved diagnosis rate as a result of our techniques and transcription for specific, more sensitive systems of pathogen detection.

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## **PATHOGEN PANEL**

Adenovirus Adv\_1of2  
Adenovirus Adv\_2of2  
Aspergillus niger  
Bordetella bronchiseptica / parapertussis / pertussis  
Bordetella holmesii  
Bordetella pertussis  
Candida albicans  
Candida auris  
Chlamydia trachomatis  
Chlamydia pneumoniae  
COVID-19 N gene, COVID-19 S gene  
Coxiella burnetii  
Haemophilus influenzae  
Human Bocavirus  
Human Coronavirus 229E  
Human Coronavirus HKU1  
Human Coronavirus NL63  
Human Coronavirus OC43  
Human Enterovirus (pan assay)  
Human Enterovirus D68  
Human herpesvirus 3 (HHV3 – Varicella zoster Virus)  
Human herpesvirus 4 (HHV4 – Epstein-Barr Virus)  
Human herpesvirus 5 (HHV5 – Cytomegalovirus)  
Human herpesvirus 6 (HHV6)  
Human Metapneumovirus (hMPV)  
Human Parainfluenza virus 1  
Human Parainfluenza virus 2  
Human Parainfluenza virus 3  
Human Parainfluenza virus 4  
Human parechovirus  
Human Respiratory Syncytial Virus A (RSVA)  
Human Respiratory Syncytial Virus B (RSVB)  
Human Rhinovirus 1/2  
Human Rhinovirus 2/2  
Influenza A panel  
Influenza A/H1-2009  
Influenza A/H3  
Influenza B  
Klebsiella pneumoniae  
Legionella pneumophila  
Measles virus (Measles morbillivirus)  
MERS (Middle East respiratory syndrome-related coronavirus)  
Moraxella catarrhalis  
Mumps virus (Mumps rubulavirus)  
Mycobacterium avium  
Mycobacterium kansasii  
Mycobacterium tuberculosis  
Mycoplasma pneumoniae  
Pneumocystis jirovecii  
Pseudomonas aeruginosa  
SARS coronavirus 1 (Severe acute respiratory syn-drome-related coronavirus)  
Staphylococcus aureus  
Streptococcus pneumoniae  
Streptococcus pyogenes  
Streptococcus agalactiae

## **ANTIBIOTIC RESISTANCE GENE PANEL**

blaACC  
blaACT  
blaCMY  
blaFOX  
blaGES  
blaVIM  
Cfr  
CTX-M\_1  
CTX-M\_2  
CTX-M\_8\_25  
CTX-M\_9  
dfrA1  
dfrA5  
DHA  
ermA  
ErmB  
ErmC  
IMP-1  
IMP-2  
KPC  
MCR-1  
MecA  
MecC  
mefA  
MIR  
MOX  
NDM  
OXA-48  
OXA-51  
PER-1  
qnrA  
QnrB\_1of4  
QnrB\_2of4  
QnrB\_3of4  
QnrB\_4of4  
qnrS  
SHV  
Sul1  
Sul2  
Tet(M)  
Tet(S)  
vanA2  
vanB  
VEB