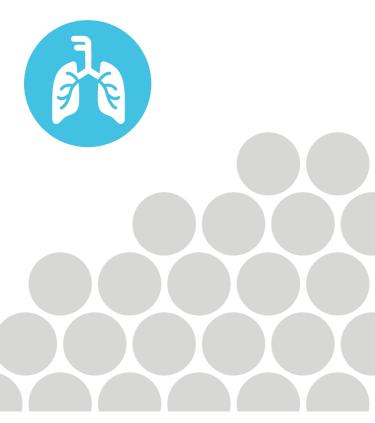
Looking For a Confident Way to Diagnose, Manage, and Treat Respiratory Tract Infections?

Don't guess. Know.

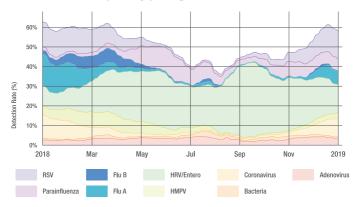




What's the Problem?

In Europe, approximately 16,500,000 cases of acute bronchitis are seen each year. Of those, almost 90% are related to viruses. In children, acute respiratory infections account for almost 50% of visits to the doctor and hospitalizations. Furthermore, bronchiolitis is the most common cause of admission to the hospital in the first 12 months of life.¹

Distribution of respiratory pathogens over several seasons¹¹



Challenges

Treating respiratory tract infections (RTIs) can be very challenging and the inappropriate use of antibiotics for viral RTIs is a main contributor to increasing antimicrobial resistance. It is estimated that 55% of antibiotic prescriptions for RTIs in outpatients are unnecessary.²

The BioFire® Respiratory 2.1 *plus* (RP2.1 *plus*) Panel is a first-line test to help clinicians quickly diagnose respiratory infections that present with nearly indistinguishable symptoms.

2.1 plus Panel

The Right Test, the First Time

Syndromic testing is a symptom-driven broad grouping of probable pathogens into one, rapid test that maximizes the chance of getting the right answer in a clinically relevant timeframe.

Traditional Testing



VS.

Syndromic Testing



Who Should Get Tested?

This test identifies multiple respiratory viral and bacterial nucleic acids in nasopharyngeal swabs (NPS) obtained from individuals suspected of respiratory tract infections. We recommend to use the BioFire RP2.1 *plus* Panel on the following high-risk patient groups:



Sample Requirements

300 µL nasopharyngeal swab collected in viral transport media.

Reduce the Total Cost of Care

Mean ICU Days per ICU Visit³



9.2 Before BioFire Adoption



3.2 After BioFire Adoption Duration of Antibiotic Use⁴

Using Standard Testing **3.2 Days**



Using BioFire RP Panel **2.7 Days**



Overall Treatment Costs3

Potentially significant cost savings after BioFire® FilmArray® Respiratory (RP) Panel adoption for an ICU patient with positive or negative respiratory virus test results.



\$9,109 savings

Positive RP Results

\$8,104 savings Negative RP Results

Speed to Results

The BioFire® FilmArray® Respiratory 2 *plus* (RP2*plus*) Panel can dramatically reduce time to diagnosis compared to traditional testing methods.^{3,4,5,6,7,8,9}



HOURS
Before BioFire
Adoption



3.2 HOURS After BioFire Adoption



Overall Performance of the BioFire RP2.1 plus Panel¹⁰

97_4% Sensitivity

99.4% Specificity

Guidelines

- A. ESCMID Guidelines for the management of adult lower respiratory tract infections, M. Woodhead et al, Clin Microbiol Infect 2011; 17 (Suppl. 6): 1–24.
- B. European Respiratory Society ERS Guidelines for Respiratory Medicine http://www.ers-education.org/quidelines.aspx
- C. CDC Guidelines for preventing Health-Care Associated Pneumonia, 2003.
- NICE guidelines on antimicrobial prescribing (APGs): www.nice.org.uk/ about/what-we-do/our-programmes/nice-guidance/antimicrobial-prescribing-guidelines

Clinical Best Practices

No antibiotic prescribing should be considered for the following conditions^D:

- Acute otitis media
- Common cold
- Acute sore throat/ acute pharyngitis/ acute tonsillitis
- Acute rhinosinusitis
- Acute cough/acute bronchitis

References

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- Ralph Gonzales, Daniel C. Malone, Judith H. Maselli, Merle A. Sande; Excessive Antibiotic Use for Acute Respiratory Infections in the United States. Clin Infect Dis 2001; 33 (6): 757-762. doi: 10.1086/322627.
- Martinez RM. Implementation of non-batched respiratory virus assay significantly impacts patient outcomes in the ICU, CVS 2016.
- 4. Rogers, BB. OA. Impact of a Rapid Respiratory Panel Test on Patient Outcomes. Arch Pathol Lab Med 2014.
- Xu M et al. Implementation of Filmarray respiratory viral panel in a core laboratory improves testing turnaround time and patient care. Am J Clin Pathol. 2013(1);139:118-123.
- 6. Poelman R, et al. Future Microbiol. 2020 May;15:623-632.
- 7. Pettit N., et al. J. Med Microbiol., March 2015 64:312-313.
- 8. Gelfer G et al. Diag Micro Infect Dis. 2015;83:400-406.
- 9. Rappo U et al. J. Clin. Microbiol. JCM.00549-16; Accepted manuscript posted online 25 May 2016.
- 10. Stated performance is the aggregate of the prospective data from the BioFire RP2.1 plus Panel clinical study.
- 11. US Respiratory Trends, 2018-2019. www.syndromictrends.com.

CE-marked

Product availability varies by country. Consult your bioMérieux representative.









BioFire® Respiratory 2.1 plus Panel

1 Test. 23 Targets. 45 Minutes.

VIRUSES

Adenovirus Coronavirus 229E Coronavirus HKU1 Coronavirus NL63 Coronavirus OC43 Middle East Respiratory Syndrome Coronavirus (MERS-CoV) Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2)

Human Metapneumovirus

Human Rhinovirus/Enterovirus

Influenza A Influenza A/H1 Influenza A/H1-2009 Influenza A/H3 Influenza B Parainfluenza Virus 1 Parainfluenza Virus 2 Parainfluenza Virus 3 Parainfluenza Virus 4 Respiratory Syncytial Virus

BACTERIA

Bordetella parapertussis Bordetella pertussis Chlamvdia pneumoniae Mycoplasma pneumoniae

Diseases Under EU Surveillance

- Influenza including influenza A (H1N1)
- Pertussis
- Middle East Respiratory Syndrome Coronavirus (MERS-CoV)
- Severe Acute Respiratory Coronavirus 2 (SARS-CoV-2)

Where to Order This Test?

The information in this booklet is given as a guideline only and is not intended to be exhaustive. It no way binds bioMérieux or BioFire Diagnostics. LLC to the diagnosis established or the treatment prescribed by the physician. If you have any questions please contact your bioMérieux representative. BioFire is wholly owned by bioMérieux.

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