CLIA ID: 05D2068632
LAB ID: GENEX-LPC

Patient **Jane Doe**
Accession ACN-17-04-00726

Medical Director **Dr. Haleh Farzanmehr M.D.,**
Website www.Genexlpc.com
Phone 1 (949)-527-6517
Fax 1 (949)-527-6525
13766 Alton Pkwy, Suite 144 Irvine, CA 92618

Respiratory Panel Report — Abnormal

PATIENT

Name	**Jane Doe**
DOB	**Feb 12, 1970** Age**(47)**
Gender	**Female**
MRN	

Diagnosis Codes
J06.9
J21.9

ACCESSION

Accession	ACN-17-04-00726
Report Date	Apr 19, 2017 16:09
Report Version	Final Report

Specimen Used
Specimen : Nasopharyngeal Swab
Specimen ID: 595
Collected: Apr 01, 2017
Received: Apr 02, 2017

PROVIDER

Name	Doctor Doctor
Phone	
Fax	

Lab Results

Final Results **Positive for viral Pathogen, " Influenza A/H3."**

	Panel	Test	Result
●	Viruses	Adenovirus	Not Detected
●		Coronavirus 229E	Not Detected
●		Coronavirus HKU1	Not Detected
●		Coronavirus NL63	Not Detected
●		Coronavirus OC43	Not Detected
●		Human Metapneumovirus	Not Detected
●		Human Rhinovirus/Enterovirus	Not Detected
●		Influenza A	Not Detected
●		Influenza A/H1	Not Detected
●		Influenza A/H1-2009	Not Detected
●		Influenza A/H3	**Detected**
●		Influenza B	Not Detected
●		Parainfluenza 1	Not Detected
●		Parainfluenza 2	Not Detected
●		Parainfluenza 3	Not Detected
●		Parainfluenza 4	Not Detected
●		Respiratory Syncytial Virus	Not Detected
●	Bacteria	Bordetella pertussis	Not Detected
●		Chlamydophila pneumoniae	Not Detected
●		Mycoplasma pneumoniae	Not Detected

Methodology The FilmArray Respiratory Pathogen Panel incorporates multiplex polymerase chain reaction (mPCR) with FilmArray system for the simultaneous qualitative detection and identification of multiple respiratory viral and bacterial nucleic acids. For each

Respiratory Panel Report — Abnormal

sample, Nucleic acid purification occurs by using magnetic bead technology which is then combined with a preheated master mix to initiate the reverse transcription (RT) step. The effect of this satge of the PCR is to enrich for the target nucleic acids present in the sample which is then followed by targeting the specific nucleic acid sequences from each of the pathogens detected by using individual specific primers for different assays. After this stage the temperature is slowly increased and fluorescence in each well of the array is monitored and analyzed to generate a melting curve. The temperature at which a specific PCR product melts is consistent and predictable and the FilmArray software automatically evaluates the data from replicate wells for each assay to report results. The Data is then analyzed to provide a report summarizing which pathogens are present. Analyte targets (virus and bacteria nucleic acid sequences) may persist in vivo, independent of virus or bacteria viability. Detection of analyte target(s) does not guarantee that the corresponding live organism(s) is present, or that the corresponding organism(s) is the causative agent for clinical symptoms. This test has been validated at Genex Laboratory Professional Corporation according to guidelines.

Limitations

The results of this test should not be used as the sole basis for diagnosis, treatment, or other management decisions. Negative results in the setting of a respiratory illness may be due to infection with pathogens that are not detected by this test or, lower respiratory tract infection that is not detected by a nasopharyngeal swab specimen. Positive results do not rule out co-infection with other organisms: the agent(s) detected by the FilmArray RP may not be the definite cause of disease. Additional laboratory testing (e.g. bacterial and viral culture, immunofluorescence, and radiography) may be necessary when evaluating a patient with possible respiratory tract infection.

References

1.J Clin Microbiol. 2016 Sep 21. pii: JCM.01579-16. [Epub ahead of print] Clinical Utility of On-Demand Multiplex Respiratory Pathogen Testing among Adult Outpatients.Green DA1, Hitoaliaj L2, Kotansky B2, Campbell SM1, Peaper DR3. PMID: 27654334 DOI: 10.1128/JCM.01579-16

2.J Pediatr. 2016 Jun;173:196-201.e2. doi: 10.1016/j.jpeds.2016.02.050. Epub 2016 Mar 30.Impact of Multiplex Polymerase Chain Reaction Testing for Respiratory Pathogens on Healthcare Resource Utilization for Pediatric Inpatients.Subramony A1, Zachariah P2, Krones A3, Whittier S2, Saiman L2.PMID: 27039227

3.J Clin Microbiol. 2015 Dec;53(12):3784-7. doi: 10.1128/JCM.01516-15. Epub 2015 Sep 16.FilmArray Respiratory Panel Assay: Comparison of Nasopharyngeal Swabs and Bronchoalveolar Lavage Samples.Azadeh N1, Sakata KK2, Brighton AM1, Vikram HR3, Grys TE4.PMID: 26378282

4. Med Dosw Mikrobiol. 2013;65(3):181-5.Application of FilmArray assay for detection of respiratory tract infections in immunocompromised person. Dzieciatkowski T1, Przybylski M1, Sulowska A1, Rynans S2, Mlynarczyk G2, Swoboda-Kopec E1.PMID: 24432557

5.PLoS One. 2011;6(10):e26047. doi: 10.1371/journal.pone.0026047. Epub 2011 Oct 19.FilmArray, an automated nested multiplex PCR system for multi-pathogen detection: development and application to respiratory tract infection.Poritz MA1, Blaschke AJ, Byington CL, Meyers L, Nilsson K, Jones DE, Thatcher SA, Robbins T, Lingenfelter B, Amiott E, Herbener A, Daly J, Dobrowolski SF, Teng DH, Ririe KM.PMID: 22039434

6.J Clin Microbiol. 2011 Dec;49(12):4083-8. doi: 10.1128/JCM.05010-11. Epub 2011 Oct 12.Comparison of the FilmArray Respiratory Panel and Prodesse real-time PCR assays for detection of respiratory pathogens.Loeffelholz MJ1, Pong DL, Pyles RB, Xiong Y, Miller AL, Bufton KK, Chonmaitree T.PMID: 21998418

Electronically Signed By:

Haleh Farzanmehr,MD

Moleuclar Genetic Pathologist

On Apr 19, 2017 16:09:34