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Virology Proficiency Testing Program

Molecular Influenza Summary

September 2015

Summary of scores, responses, and statistics for Molecular Influenza

The New York State Proficiency Testing Program September 2015 Molecular Influenza Evaluation Reports are available on the Health Commerce System via EPTRS and can be printed for your records.

This summary is based on scores and responses in the Electronic Proficiency Test Reporting System submitted by laboratories holding a NYS CLEP Virology permit. All NYSDOH Proficiency Test samples were prepared from isolates of viruses cultured from clinical specimens received in the Virology Laboratory at the Wadsworth Center.

Sample Scoring and Validation

The scores and analyses for the September 2015 Molecular Influenza event can be found below. Federally mandated validation criteria require a sample to be correctly identified by at least 80% of participating laboratories. In this event, all five samples in the Molecular Influenza Panel were validated.

CLIA and CLEP have established a passing grade for participating laboratories to be 80%.

A summary of the expected results and their antigenic characterizations can be viewed in Table 1 below. The panel consisted of two influenza A viruses, one H3, and one H1 pdm2009, two influenza B viruses, and one No virus.

Table 1:   Test viruses and their antigenic characterizations

Sample #	Type	Subtype	Original sample collection year	Strain*
1637	B	NA	2015	B/BRISBANE/60/2008-LIKE
1638	A	H1pdm2009	2014	A/CALIFORNIA/07/2009-LIKE
1639	A	H3N2	2015	A/TEXAS/50/2012-LIKE
1640	B	NA	2015	B/MASSACHUSETTS/02/2012-LIKE

* Samples were antigenically characterized at CDC. Antigenic characterization data is based on hemagglutination inhibition testing (HI).

Table 2: Molecular Influenza Grade Distribution: 62 Participants

Total Score for Panel	100%	90-99%	80-89%	20-29%
Participating Laboratories	59	1	1	1

Table 3: Number of Laboratories Using Each Kit for Typing: 62 Participants

| Test Kit/Method	# of Labs Using Kit/Method
Cepheid Gene Xpert Flu	23
BioFire FilmArray Respiratory Panel	13
Focus Simplexa Flu A/B RSV	11
CDC Flu rRT-PCR Dx Panel	6
GenProbe Prodesse ProFlu+	4
Gen Mark Dx	2
Focus Simplexa Flu A H1N1	1
Laboratory Developed	1
Luminex xTAG	1

Graph 1: Bar Graph representation of Table 3
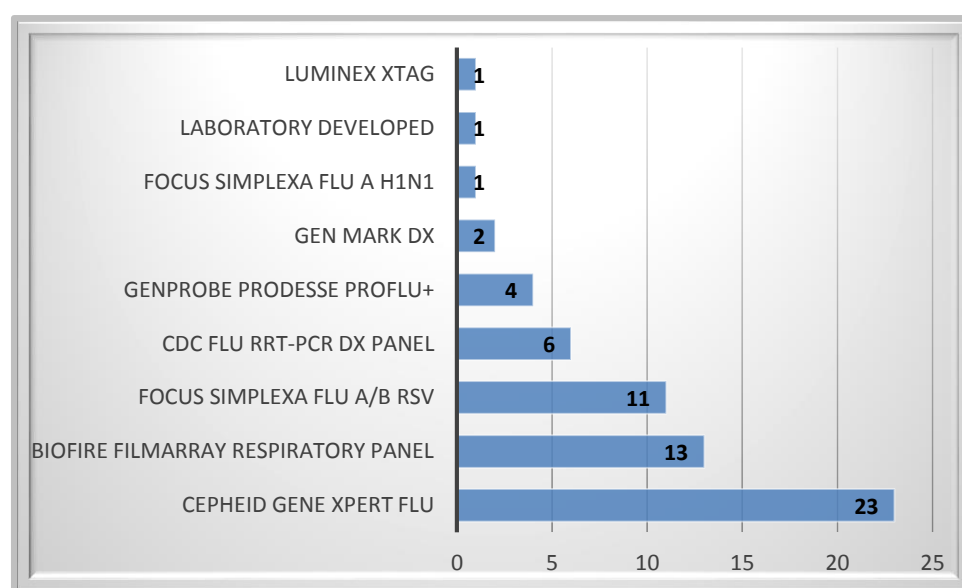
Table 4: Number of Laboratories Using Each Kit for Subtyping: 44 Participants

Test Kit/Method	# of Labs Using Kit/Method	Influenza Type/Subtype Detected
Cepheid Gene Xpert Flu	16	A/H1pdm2009, B
BioFire FilmArray Respiratory Panel	14	A/H1, A/H1pdm2009, H3, B
CDC Flu rRT-PCR Dx Panel	6	A/H1, A/H1pdm2009, H3, H5, H7, B
Gen Mark Dx	2	A/H1, A/H1pdm2009, H3, B
GenProbe Prodesse ProFast+	2	A/H1, A/H1pdm2009, A/H3
Laboratory Developed	2	Laboratory Specific
Focus Simplexa Flu A H1N1	1	A/H1pdm2009
Luminex xTAG	1	A/H1, H3, B

Graph 2: Bar Graph representation of Table 4
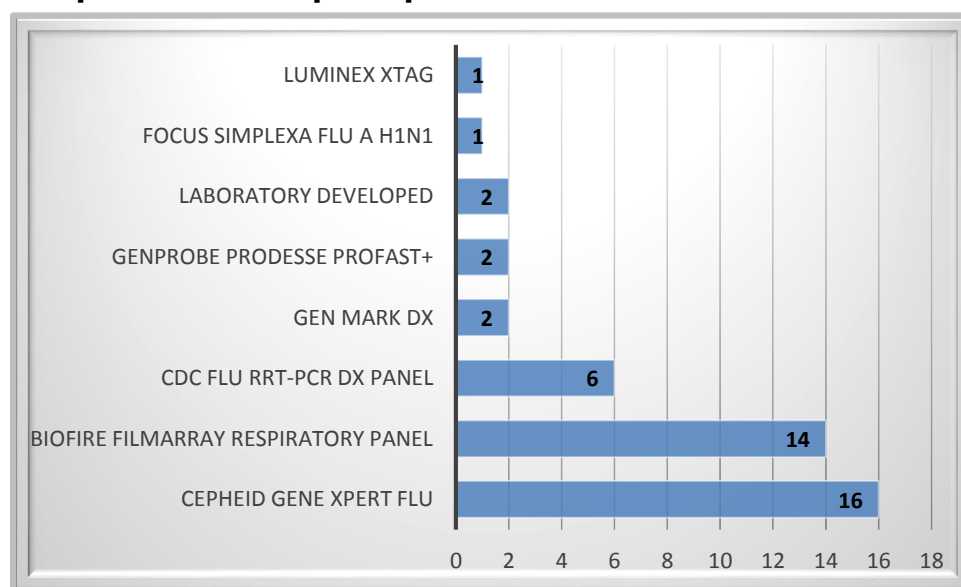
NYS Virology Proficiency Testing Notice

- **The September 2015 Molecular Influenza panel is the last molecular influenza panel New York State will be sending to permitted laboratories.** As discussed in previous letters to NYS CLEP permitted laboratories, numerous proficiency test (PT) panels have been eliminated from the 2016 CLEP test menu. Please refer to the August 14, 2015 letter sent to all Laboratory Directors stating, "Beginning January 1, 2016, laboratories that are currently enrolled in these NYS PT programs must be enrolled in another CMS-approved PT program that satisfies the same CLIA PT requirements."

- If you have any questions, please contact:
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