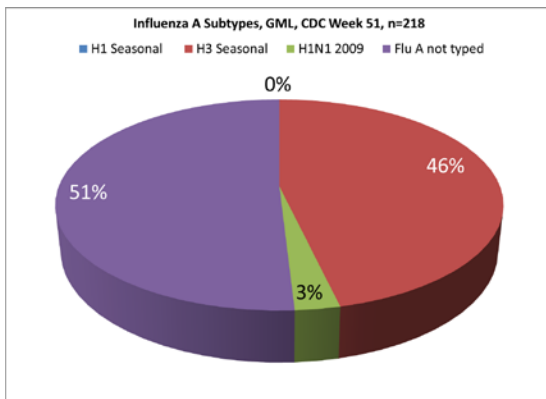


10X Essentials

Infectious Disease Diagnostics in the Geisinger Health System

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Influenza/Respiratory syncytial virus (RSV) Report

- GML reports continued high level influenza virus activity this week, keeping with the trend for **influenza A, Seasonal H3** with rare Influenza A, H1N1 reported. Some influenza A viruses (46%) were not typed.
- Influenza B virus and RSV continues to circulate and RSV is increasing (refer to bar graph)

ALERT: The Centers for Disease Control and Prevention reports widespread influenza activity in 42 of 50 states.

10X Essentials: Has CDC received reports of people who got a flu vaccine and then tested positive for influenza? ...Yes.

CDC has received reports of some people who were vaccinated against influenza becoming ill and testing positive for influenza. This occurs every season.

Reasons why people who got an influenza vaccine may still get influenza disease

- People may be exposed to the virus shortly before getting vaccinated or during the two-week period that it takes the body to gain protection after getting vaccinated.
- A person may be exposed to an influenza virus that is not included in the seasonal flu vaccine indicates that most circulating viruses are like the vaccine viruses however, there is a smaller percentage of viruses that would not be expected to be covered by the vaccine.
- Unfortunately, some people can get infected with an influenza virus that is included in the vaccine despite getting vaccinated. Protection provided by influenza vaccination can vary widely, based in part on health and age factors of the person getting vaccinated. In general, the flu vaccine works best among young healthy adults and older children.
- While vaccination offers the best protection against influenza infection, it's still possible that some people may become ill after being vaccinated. Influenza vaccination is not a perfect tool, but it is the best tool currently at our disposal to prevent influenza.
- The seasonal nasal-spray flu vaccine LAIV (FluMist®) is a live virus and as such, new molecular methods will detect flu genome for a short time after administration



Thank you for supporting the Respiratory Direct Assay!

Provider support of the **PCRABR test (Flu A/B and RSV Direct Assay)** is increasing for outpatient testing when influenza or RSV are most likely. We thank you for your support of the triage program and remind you that outpatient sites have two test options, 1) PCRABR, **(the Flu A/B/ RSV Direct Assay) to be used when flu or RSV are most likely in non-critical outpatients** and 2) full panel RVPCR when patients are to be admitted, are immunocompromised, or are treated for other conditions that warrant full panel testing. Your support of this triage allows the Microbiology Laboratory us to focus resources on full panel testing in a timely fashion for the sickest of our patients. Our deepest thanks for your support.

Weekly Summary, RESPView Pathogen Surveillance 2012-2013

In CDC weeks 53, ending January 1, 2013, influenza A predominates, followed by RSV and rhinoviruses. The diversity of viruses is high with representative viruses from all viral groups. **50% of samples submitted were positive** for at least one virus. ***Mycoplasma pneumonia* continues to circulate at low levels.**

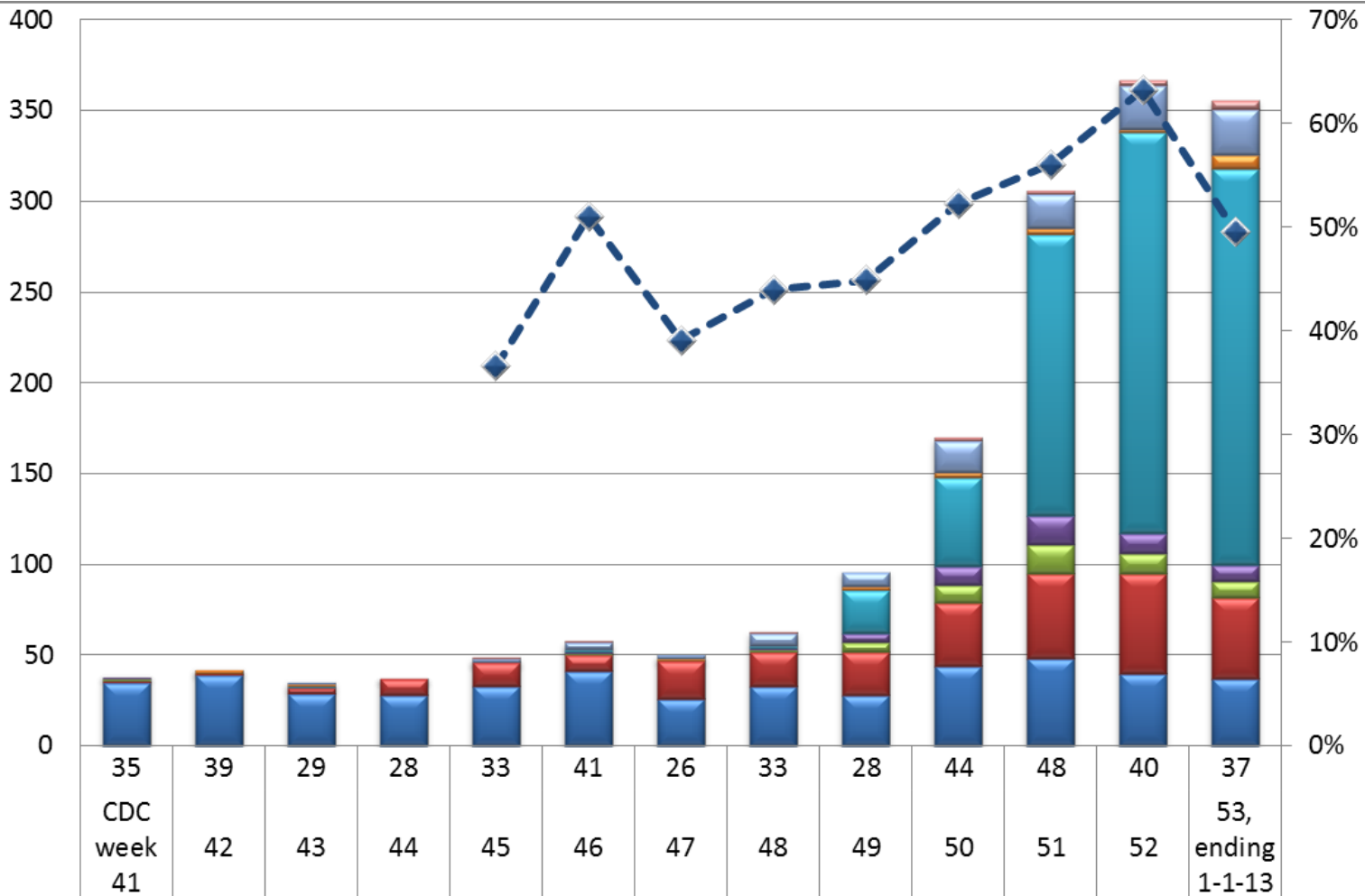
Questions: For newsletter questions, contact Christy Attinger at (570) 271-6338 or me.

Best regards, Donna M. Wolk, MHA, Ph.D., D(ABMM), GML Director of Microbiology

GEISINGER
MEDICAL LABORATORIES

**GML RespVIEW
2012-2013**

Respiratory Viruses



% Positive, All Viruses

| | | | | | | | | | | | | | |
|-----------------------------|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| adenovirus | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 2 | 2 | 3 | 5 |
| coronavirus | 0 | 0 | 1 | 0 | 2 | 4 | 2 | 7 | 8 | 17 | 19 | 24 | 25 |
| human metapneumovirus | 0 | 2 | 1 | 0 | 0 | 0 | 1 | 0 | 2 | 3 | 3 | 2 | 8 |
| influenza A | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 24 | 49 | 155 | 221 | 218 |
| influenza B | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 5 | 10 | 16 | 11 | 9 |
| parainfluenza | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 5 | 10 | 16 | 11 | 9 |
| respiratory syncytial virus | 1 | 1 | 3 | 9 | 13 | 9 | 21 | 19 | 24 | 35 | 47 | 55 | 45 |
| rhinovirus | 35 | 39 | 29 | 28 | 33 | 41 | 26 | 33 | 28 | 44 | 48 | 40 | 37 |
| -♦- % Positive Rollup | | | | | 37% | 51% | 39% | 44% | 45% | 52% | 56% | 63% | 50% |