

Maryland DHMH Laboratories: Influenza Antiviral Resistance Surveillance *

| | NA gene Oseltamivir Resistance Conferring Mutation: (H274Y) | | M2 gene Adamantane(amantadine and rimantadine) Resistance Conferring Mutations: (L26F), (V27A), (A30V/T), (S31N) & (G34E) | |
|-------------------------|--|---|--|---|
| Influenza Virus Type | Specimens Tested (n) | Number of Resistant Genotypes Detected(%) | Specimens Tested (n) | Number of Resistant Genotypes Detected(%) |
| 2009 Influenza A (H1N1) | 657 | 4*** (0.61%) | 657 | 657(100%) ** |

Last Updated: 03/30/10

Notes:

- 1.) *The DHMH Laboratory conducts antiviral drug resistance directly from clinical material by sequencing regions of the influenza virus genome and identifying the presence or absence of specific mutations that have been associated with antiviral drug resistance .
- 2.) ** All 2009 (pandemic) influenza A H1N1 viruses tested to date are resistant to the adamantane antiviral medications (amantadine and rimantadine).
- 3.)*** Four specimens from 2 individuals. Three longitudinally collected specimens from one patient