

Epidemiology and molecular characterisation of (NA gene) of circulating 2015-16 strains A(H1N1) pdm09 of influenza virus from Mumbai region

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During Apr 2015 – March 2016, a total of 1586 nasal and/or throat swab samples were analysed at our Re-search Institute located in Mumbai. Of the 1586 samples tested,

330(20.8%) samples were positive for influ-enza A (H1N1) pdm 09 virus. Of the 330 samples positive for influenza A (H1N1) pdm 09, 158 (47.8%) were from males and 172 (52.2%) were from females. No gender specificity to influenza infectivity was observed. Age-wise analysis of positive cases for influenza A (H1N1) pdm 09 virus in populations revealed a positivity in age group 21-30 years 97 (29.3%), in age 31-40 years 40 (12.1%), in age 41-50 years 33 (10%), H275Y and N295S mutations in the NA are generally linked with antiviral resistance to oseltamivir in In-

fluenza A. Both these mutations were not detected in any of the 13 isolates studied. Few new mutations like N270K and I314M and others were observed, these have also been seen in the circulating strains of this region.

Biography

Kavita Bala Anand is a Pathologist and Microbiologist who has a keen interest in the diagnosis and prevention of Infectious Diseases. She has experience of working as a physician and researcher in the field of Infectious Diseases. She has also worked extensively in bacteriology, mycobacteriology, mycology, virology and on MRSA and drug resistance. In the undergoing influenza outbreak of pH1N1-09, she has taken a keen interest in studying the molecular characteristics of this ever-evolving organism.

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