

Optimum viability of Influenza virus is at 2-8oC; NP swab / Throat swab / Nasal aspirate (place on ice / cold packs at 2-8oC / 4oC for transport to lab) in vial containing 1-3 ml VTM. Swab should be collected with Synthetic tip (Polyster / Aluminium / Plastic shift)

Real time RT-PCR (sample not longer than of 4 days after collection)

Positive Influenza virus

Testing for other Respiratory viruses through Rapid Viral Culture

Influenza tests with low sensitivity; Specimen collected >4 d: Antiviral after illness

Typing by Real Time RT-PCR

Positive Influenza A Virus

Positive Influenza B Virus

Conventional PCR for lineages

Duplex RT-PCR

Subtyping by Real Time RT-PCR

Yamagata

Victoria

Para Influenza

Respiratory Syncytial Viruses

A H1N1 virus

A H3N2 virus

Human Metapneumo Viruses

RSV A

RSV B

Isolation in MDCK Cell lines

Antigenic Characterization

Sequencing of HA/ NA

Genetic Characterization

Phenotyping Assay

Allelic discrimination rt RT-PCR

Antiviral Susceptibility

Laboratory Testing Algorithm for testing cases of Respiratory Syndrome