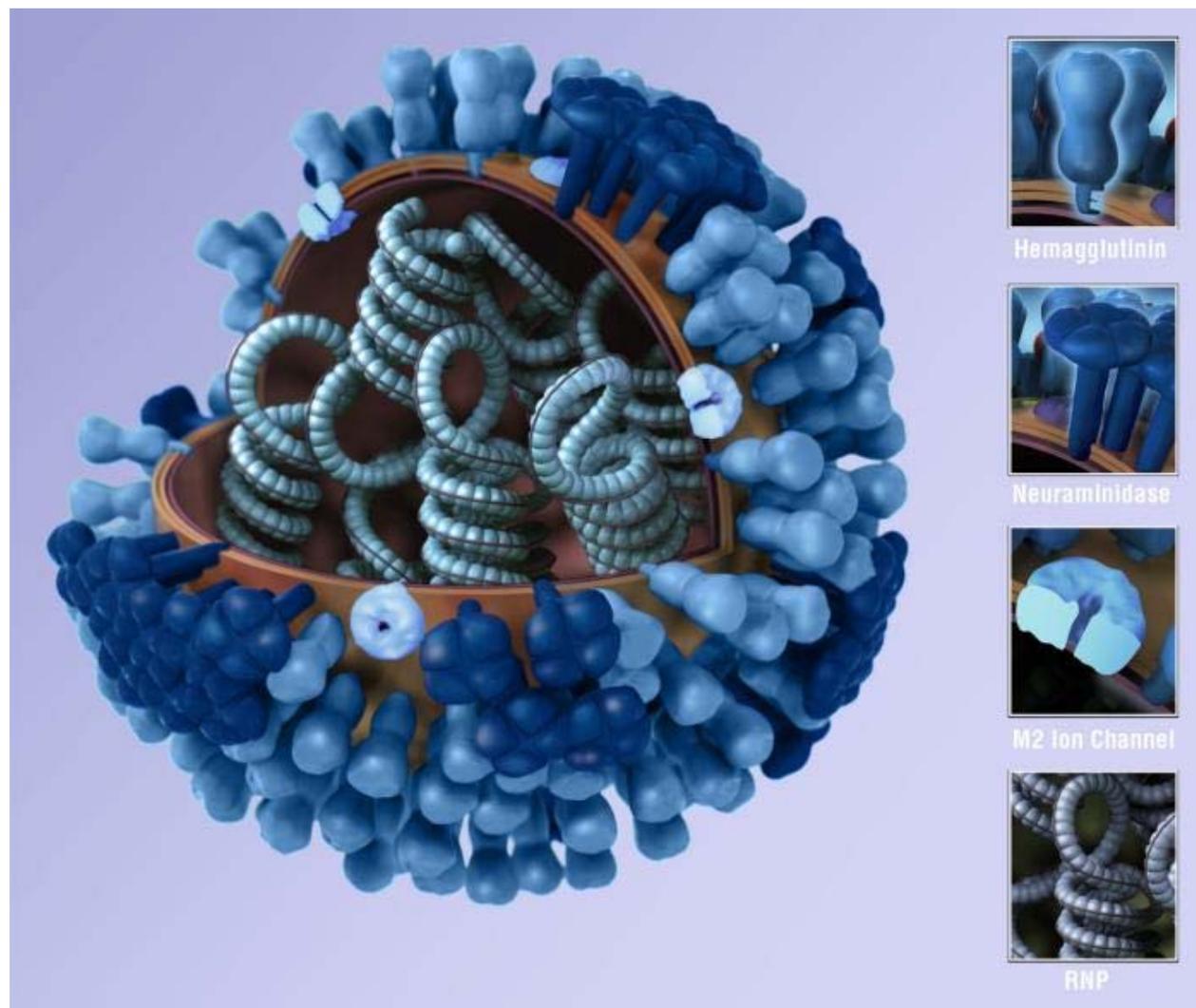


## Public Health Image Library (PHIL) Photographs, Illustrations, Multimedia Files

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**11881**


**ID#:** 11881

**Description:** On a lavender background, this illustration provides a 3D graphical representation of a generic influenza virion's ultrastructure, and is not specific to a seasonal, avian or 2009 H1N1 virus. A portion of the virion's outer protein coat has been cut away, which reveals the virus' contents, and a key has been included, which identifies these components. See PHIL 11880 for an uncut view of the virion's exterior.

There are three types of influenza viruses: A, B and C. Human influenza A and B viruses cause seasonal epidemics of disease almost every winter in the United States. The emergence of a new and very different influenza virus to infect people can cause an influenza pandemic. Influenza type C infections cause a mild respiratory illness and are not thought to cause epidemics.

Influenza A viruses are divided into subtypes based on two proteins on the surface of the virus: the hemagglutinin (H), and the neuraminidase (N). There are 16 different hemagglutinin subtypes and 9 different neuraminidase subtypes. Influenza A viruses can be further broken down into different strains. Current subtypes of influenza A viruses found in people are influenza A (H1N1) and influenza A (H3N2) viruses. In the spring of 2009, a new influenza A (H1N1) virus emerged to cause illness in people. This virus was very different from regular human influenza A (H1N1) viruses and the new virus has caused an influenza pandemic.

Influenza B viruses are not divided into subtypes, however, influenza B viruses also can be further broken down into different strains.

**High Resolution:** [Right click here and select "Save Target As..." for hi-resolution image \(4.28 MB\)](#)

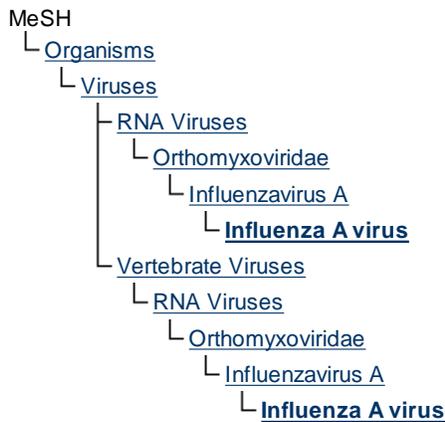
**Content Providers(s):** CDC/ Doug Jordan, M.A.

**Creation Date:** 2010

**Photo Credit:** Dan Higgins

- Links:**
- [CDC - Seasonal Inclusionza \(Flu\)](#)
  - [CDC - 2009 H1N1 Flu](#)
  - [CDC - Flu Virus Imagery](#)

**Categories:** CDC Organization



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