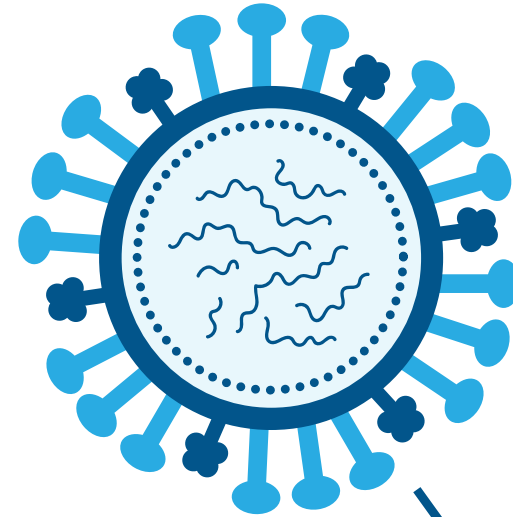


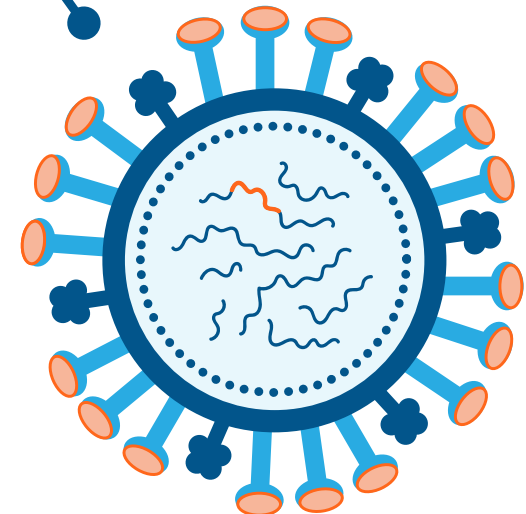
# Influenza Virus Change

Influenza viruses constantly change in two different ways: drift and shift.

**Antigenic drift** consists in mutations in the hemagglutinin (HA) and neuraminidase (NA) genes that lead to antigenic changes on these surface proteins of the virus



Accumulation  
of Mutations



**Small Mutations**

Minor antigenic change  
with epidemic potential

**PAHO**



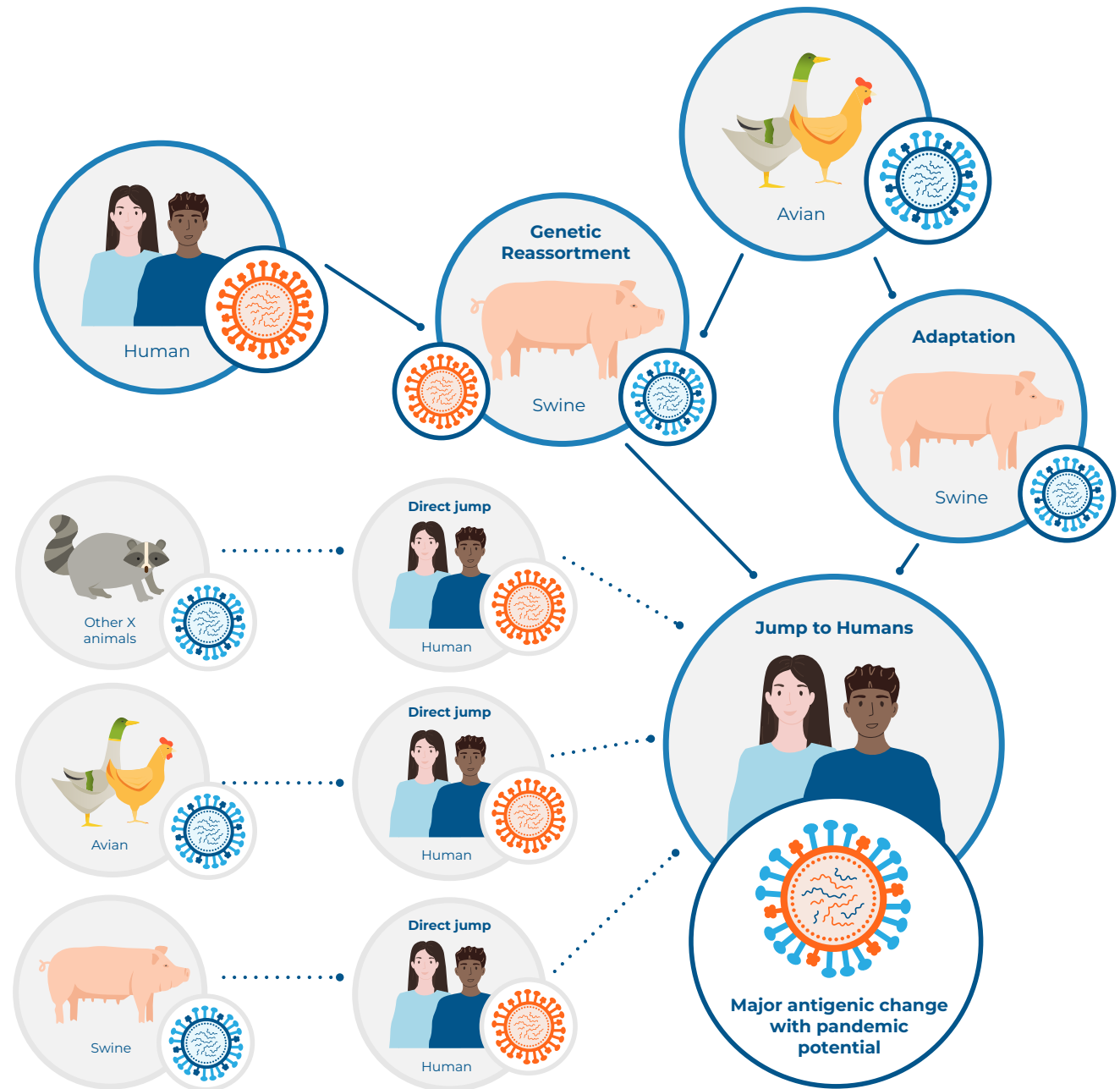
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# Influenza Virus Change

Influenza viruses constantly change in two different ways: drift and shift.

**Antigenic shift** is a major abrupt change in the influenza virus through a genetic reassortment of between human virus and other existing virus of other origin with a cross-species transfer resulting in a novel influenza strain.



**PAHO**



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