The Swine Flu Tour











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What is H1N1:



- an influenza virus
- originally common throughout pig popul worldwide
- eventually evolved and spread into a combiavian flu, swine flu, and a strain of human antigenic drift) = the pandemic of swine flu humans in 2009





H1N1: The meaning

- "H" stands for hemagglutinin
- "N" stands for neuraminidase
- 16 types of "H" proteins and 9 types of "N" proteins
- 144 total versions of the influenza virus...H1N1 is just one



Symptoms Include:

- Fever
- Cough
- Sore Throat
- Body Aches
- Headache
- Chills
- Fatigue
- Diarrhea
- Vomiting

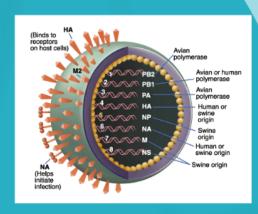
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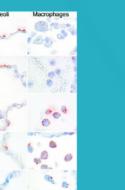
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The Virus

- roughly spherical
- single-stranded RNA virus
- enveloped = membrane of lipids taken from host cell
- glycoproteins (proteins linked to sugars) stick out of lipid membrane
 - HA-hemagglutinin
 - NA-neuraminidase
 - determine subtype of H1N1 virus
 - bind to host cell receptor proteins, letting the virus infect the cell
- These proteins are the targets of antiviral vaccinations





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The Spread of H1N1

- virus enters through mucous membranes (eyes, nose, mouth)
- spreads via close contact, direct touch, indirect touch
- respiratory droplets carry the virus into the air
 - if droplets get into mucous membranes, the person will become infected
 - virus proteins target pneumocytes in respiratory tract
- HIGHLY contagious

1918 Virus

- People who were alive for the 1918 influenza outbreak have the greatest protection against swine flu
- Deep infection of the lungs as is seen today

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H5N1

- H5N1 currently doesn't transmit well from human to human...yet
- The H5N1 flu strain has eight full gene segments
 - Anywhere from one to seven of these can come from H1N1

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Management and Treatment

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Traditional Ways: Vaccinations, Fluids, Rest

There are three areas where prevention needs to take place; pigs, humans, and spread.

New Methods of Treatment: Vaccinations, Fluids, Rest and if severe enough, hospitalized

Side Note: Vaccinations change every year based off of flu strand and the vaccination is different depending on area.