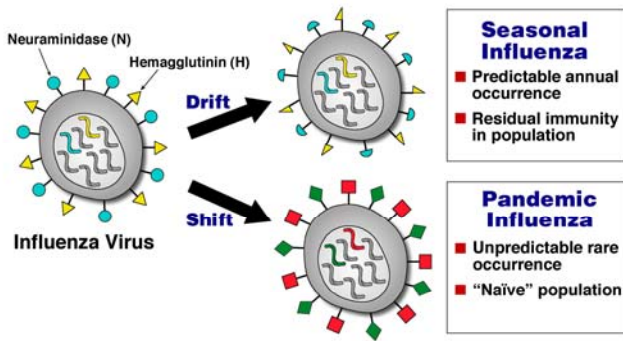


Seasonal vs. Pandemic Influenza



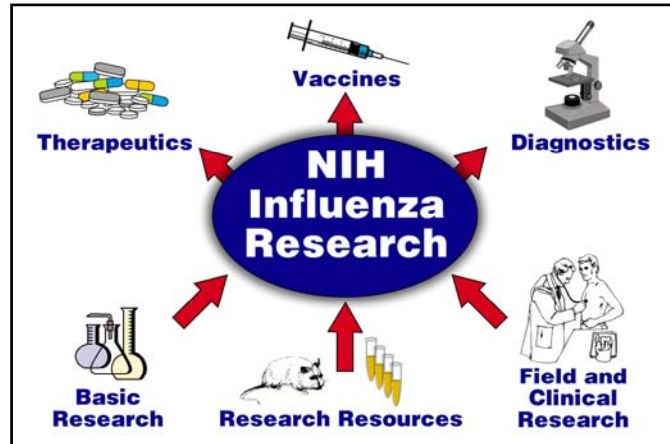
The Burden of Seasonal Influenza

- 250,000 to 500,000 deaths globally/yr; 3-5 million cases of severe illness
- 36,000 deaths and >200,000 hospitalizations/yr in U.S.
- \$37.5 billion in economic costs/yr in U.S. related to influenza and pneumonia

Sources: CDC, WHO, Am. Lung. Assoc.

Influenza Pandemics in the 20th Century

1918 H1N1 "Spanish Flu"	>50 million deaths
1957 H2N2 "Asian Flu"	1-2 million deaths
1968 H3N2 "Hong Kong Flu"	700,000 deaths



Basic Research on the 2009 H1N1 Influenza Virus

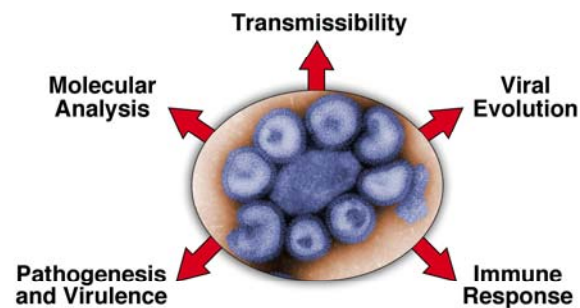
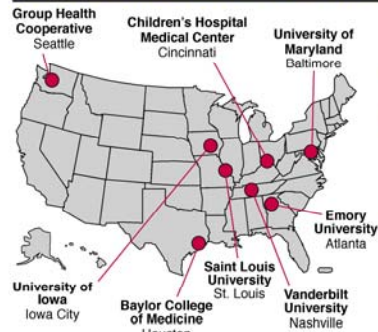


Photo: CDC

NIH's Network of Vaccine and Treatment Evaluation Units (VTEUs)



- Established in 1962
- >160 Phase I, II, and III clinical trials since 1995
- Trials of
 - Seasonal vaccines
 - Pre-pandemic vaccines
 - Antivirals

H1N1 Influenza Vaccine Development: A Collaborative Process

