



### Current State of Pandemic Flu

- Permanent niche in domestic ducks
- Mutations make it more robust
- Increasingly pathogenic in poultry
- Now resistant to some antiviral drugs
- Virus can replicate in humans
  - Causes severe illness with high mortality
- No natural immunity in humans
- Human-to-human spread not yet possible

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### Pandemic Flu Characteristics

Incubation period	<ul style="list-style-type: none"> <li>● Averages 2 days</li> </ul>
Risk of infecting others	<ul style="list-style-type: none"> <li>● ½ to 1 day before onset of illness</li> <li>● First 2 days of illness greatest risk</li> <li>● Children shed more virus</li> </ul>
How many others will be infected	<ul style="list-style-type: none"> <li>● Average person transmits it to two others</li> </ul>
Speed of Spread	<ul style="list-style-type: none"> <li>● Spreads rapidly and crosses borders</li> <li>● Spread from one coast to the other in a week</li> </ul>
Duration of epidemic	<ul style="list-style-type: none"> <li>● Outbreak in a community will last 4-6 weeks</li> <li>● Nationwide cases could peak at day 60</li> <li>● Subside after 4 months</li> </ul>
Waves of epidemic	<ul style="list-style-type: none"> <li>● Second wave is likely to follow in 1-3 months</li> <li>● Third wave could occur</li> </ul>

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### Potential Impact of Pandemic Flu

Characteristic	Mild Pandemic	Severe Pandemic
Percent infected	30%	50%
Percent becoming sick	15%	35%
Number getting sick	975 million	2.28 billion
Percent dying	0.1%	5%
Number of deaths	2 - 7.4 million	50 - 180 million
Global economic cost	\$800 billion	\$4.4 trillion

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## Epidemic Scenarios in US

Characteristic	Normal Seasonal	Mild Epidemic	Moderate Epidemic	Severe Epidemic
Percent getting ill	5-20%	25%	30%	30%
Number getting ill	15-60 million	75 million	90 million	90 million
Number seeking outpatient care	8-30 million	37 million	45 million	45 million
Hospitalization	?	?	865,000	9,900,000
ICU Care	?	?	128,750	1,485,000
Mechanical Ventilation	?	?	64,875	742,500
Case fatality rate	?	0.1%	0.25%	2.5%
Number of deaths	36,000	100,000	209,000	2 million
Impact on GDP	0	↓1.5%	?	↓5% (recession)

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## Planning for a Pandemic

- Social disruption may be widespread
  - Utilities and basic services
  - Commerce
- Being able to work may be impossible
- Schools may be closed
- Transportation services may be disrupted
  - Air travel
  - Mass transit
  - Gasoline
- People may need to work at home
- Be prepared
  - Food, water, medications
  - Stay healthy



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## References

- [www.pandemicflu.gov](http://www.pandemicflu.gov)
- [www.avianflu.gov](http://www.avianflu.gov)
- [www.who.org](http://www.who.org)
- CDC Hotline: 800-232-4636

Special thanks to Principle Pictures for "Flu Time Bomb," [www.principlepictures.com](http://www.principlepictures.com).

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