



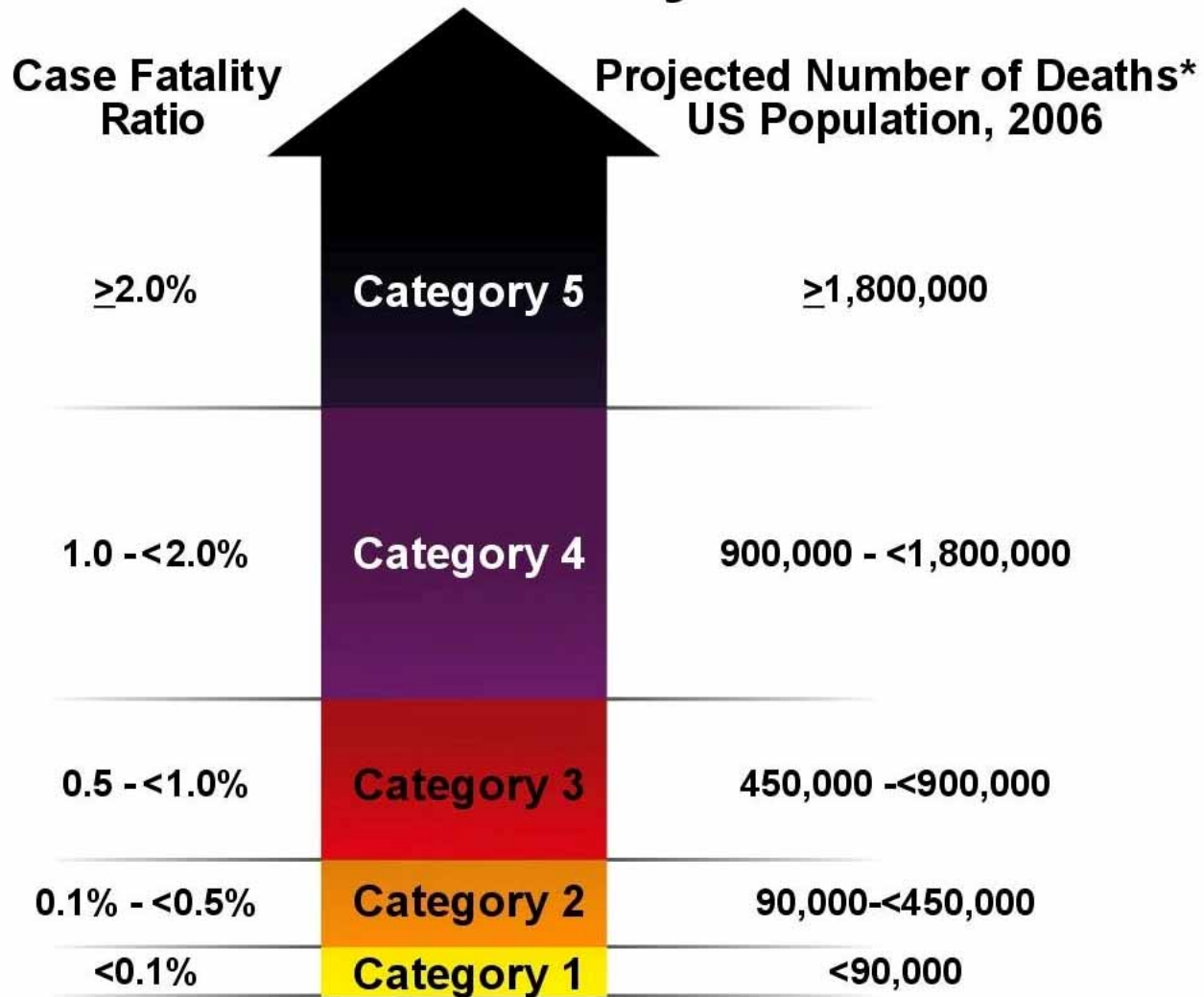
Pandemic Influenza: Background Materials

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Pandemic Severity Index



* Assumes 30% Illness Rate

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Targeted Layered Community Interventions



Isolation of cases /
HH quarantine /
HH Post-Exp Px



Decrease cases
Increase relative importance
of workplace & community

Dismiss students



Decrease cases
Increase HH & Neighborhood
transmission

Social distancing



Decrease cases

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PURPOSE OF THE CDC OPLAN



A NATIONAL, SEAMLESS PREPAREDNESS NETWORK...
AND A SERIES OF "NESTED" PLANS.



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Mission



CDC will

- 1) Immediately detect the onset of outbreaks with pandemic potential;
- 2) Assist with the containment of such outbreaks;
- 3) Delay the introduction and transmission of pandemic viruses in the United States
- 4) Assist State, Local, Territorial, and Tribal (SLTT) health authorities in the management of an influenza pandemic event.

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CDC Director's DCIRs



Report

- a) New countries with potentially pandemic influenza virus infections in animals
- b) New instances of possible human to human transmission of potentially pandemic influenza virus
- c) First confirmation of potentially pandemic influenza infection in animals or humans in the western hemisphere
- d) Arrival in the US of any human from abroad infected with potentially pandemic influenza
- e) First death from animal-to-human transmission of potentially pandemic influenza in the US

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CDC Director's DCIRs



Report

- f) First sustained human-to-human transmission of a potentially pandemic influenza virus
- g) All locations of human outbreaks overseas from pandemic influenza
- h) Genetic mutation in pandemic influenza virus that make it resistant to antiviral drugs
- i) Antigenic variants of pandemic influenza that make vaccine less effective

In US, report:

- j) First human case of pandemic influenza
- k) First human-to-human spread of pandemic influenza
- l) All locations of confirmed human outbreaks of pandemic influenza
- m) First death from human-to-human spread of pandemic influenza

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First sustained human-to-human transmission of a potentially pandemic influenza virus



- ◆ Isolate virus -- determine relatedness to other known viruses
- ◆ Coordinate response through WHO
- ◆ Treat and isolate cases / prophylax and quarantine contacts
- ◆ Determine efficiency of transmission / severity of infection
- ◆ Are chains of transmission evident?
- ◆ Contain or mitigate?
- ◆ Implement border control measures
- ◆ Begin development of seed strains of pandemic vaccine

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First human case of pandemic influenza acquired in the US



- ◆ Confirm diagnosis--deploy diagnostic reagents
- ◆ Treat and isolate cases / prophylax and quarantine contacts
- ◆ Determine efficiency of transmission / severity of infection
- ◆ Deploy Strategic National Stockpile
- ◆ Are chains of transmission evident?
- ◆ Contain or mitigate?
- ◆ Consider shift of border efforts to exit screen
- ◆ Deploy and administer pre-pandemic vaccine
- ◆ Produce vaccine specific for pandemic virus

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