### Influenza Surveillance

Lyn Finelli, DrPH, MS

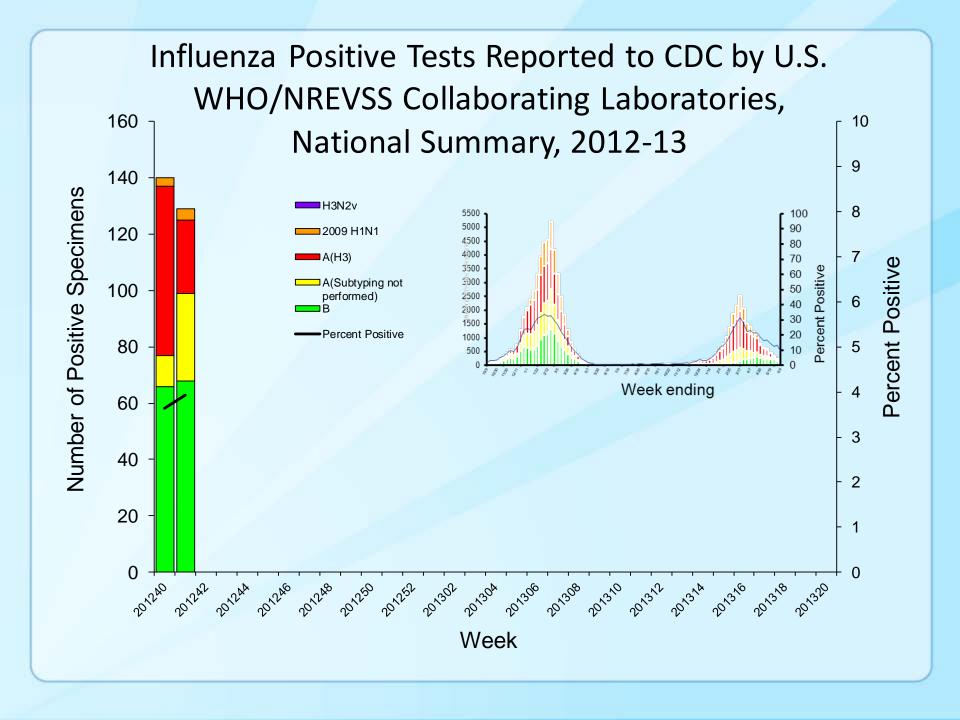
Lead, Influenza Surveillance and Outbreak Response Team

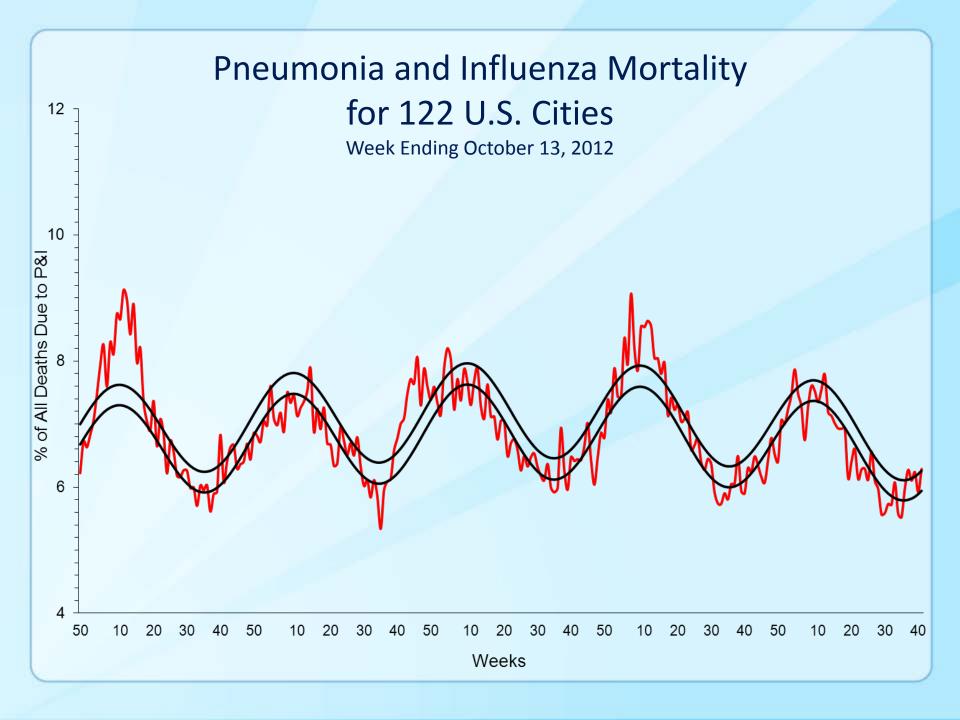
Epidemiology and Prevention Branch

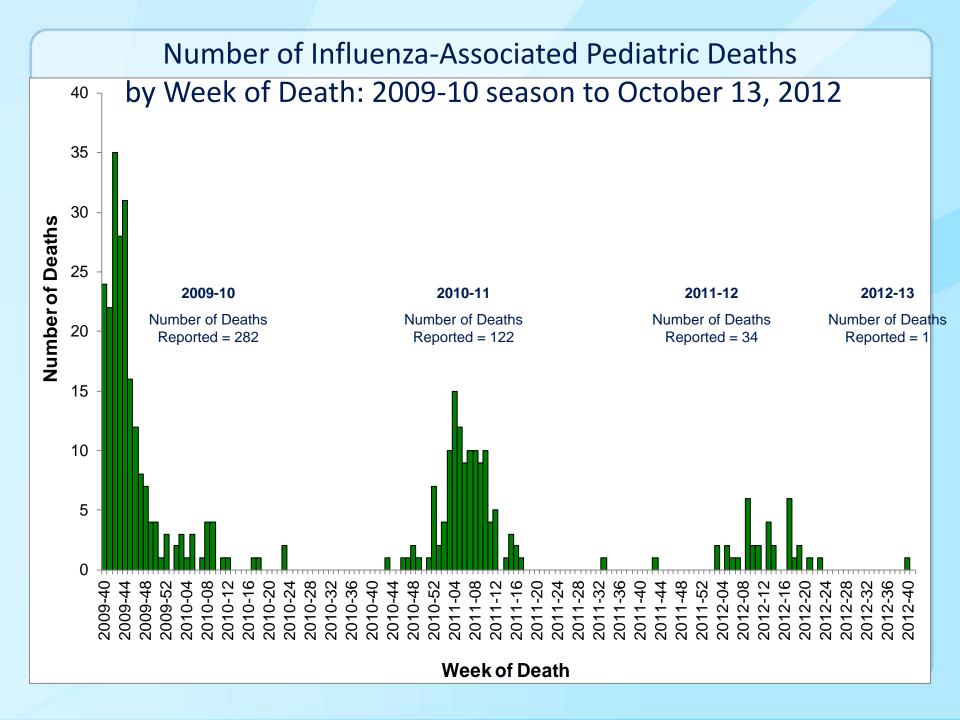
Influenza Division

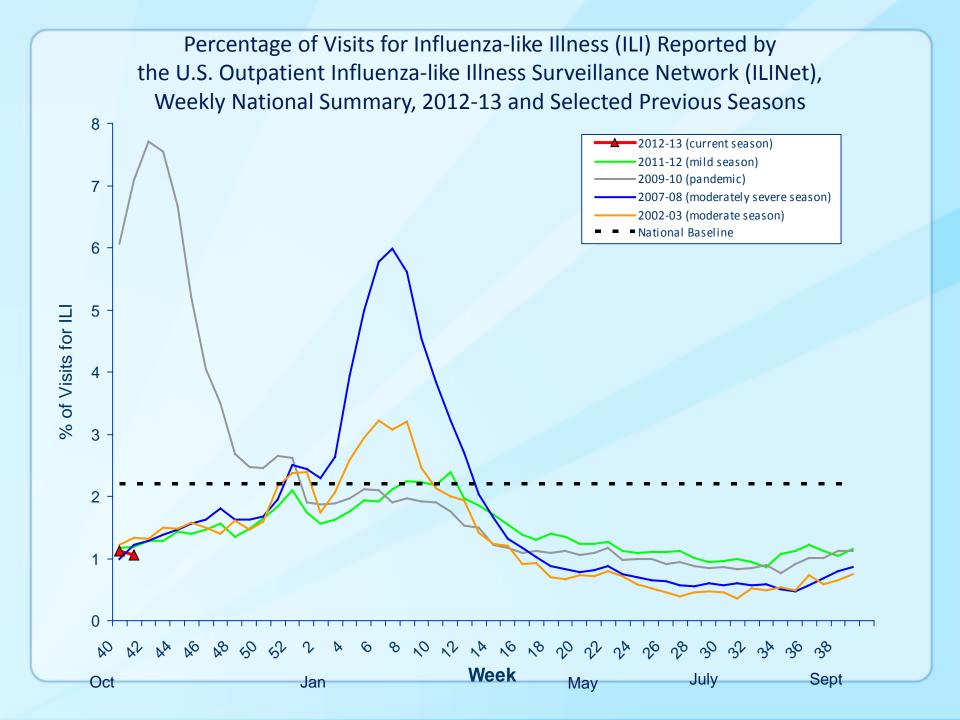
NCIRD

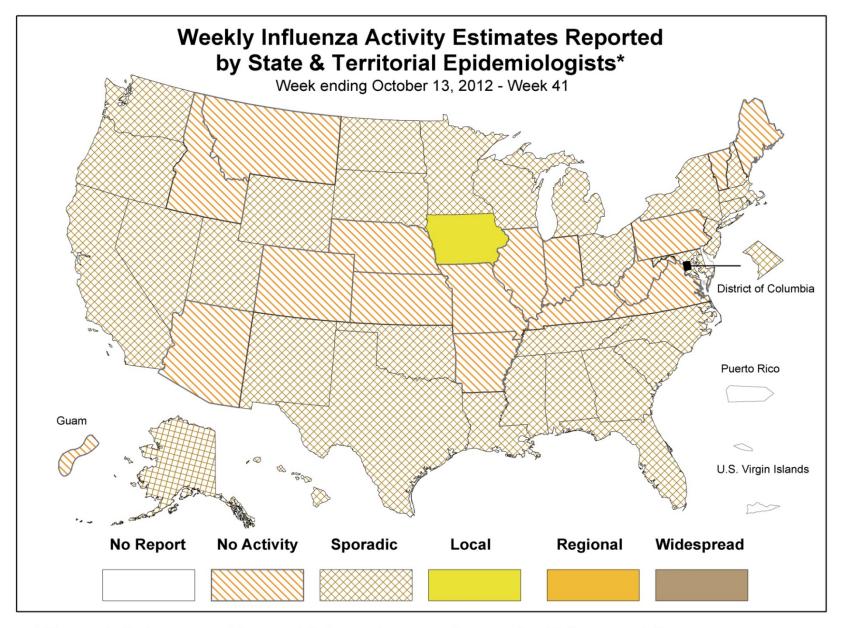








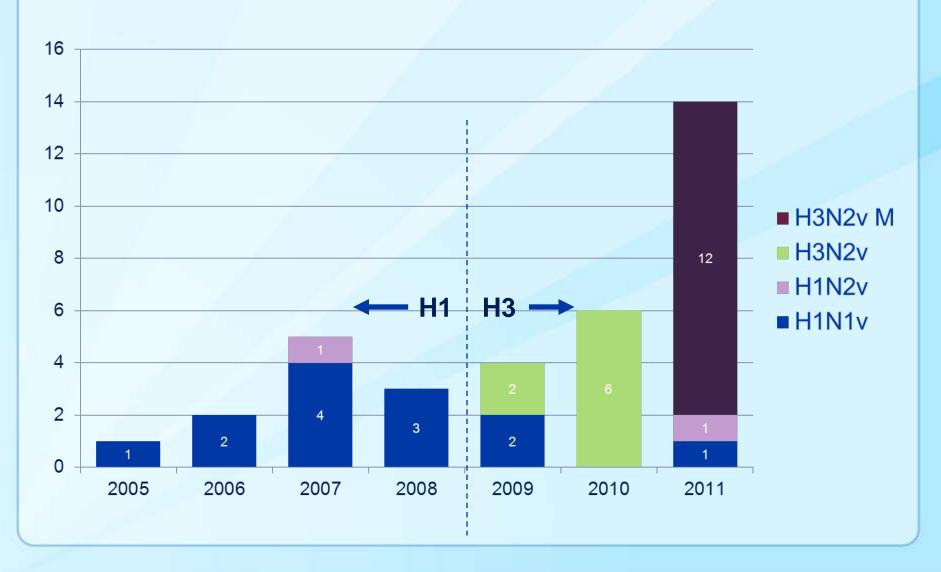




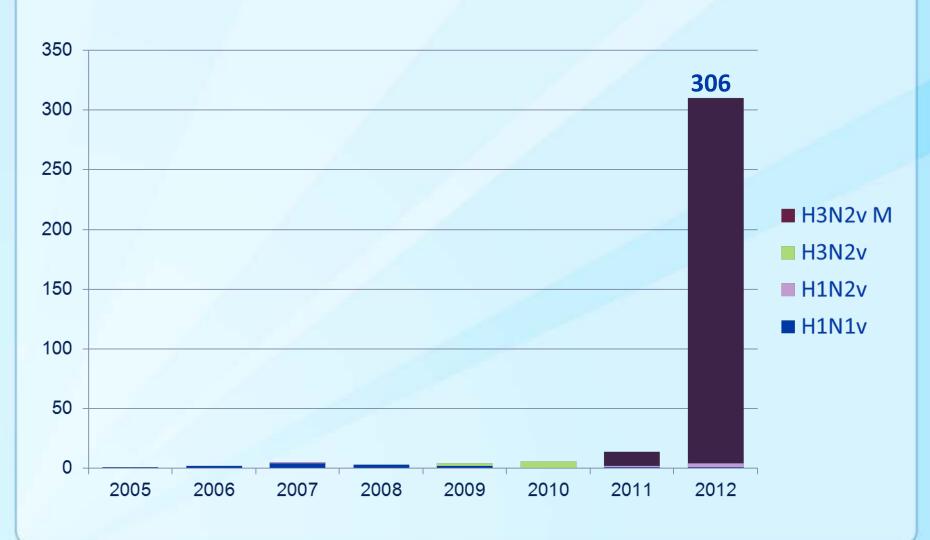
<sup>\*</sup> This map indicates geographic spread & does not measure the severity of influenza activity

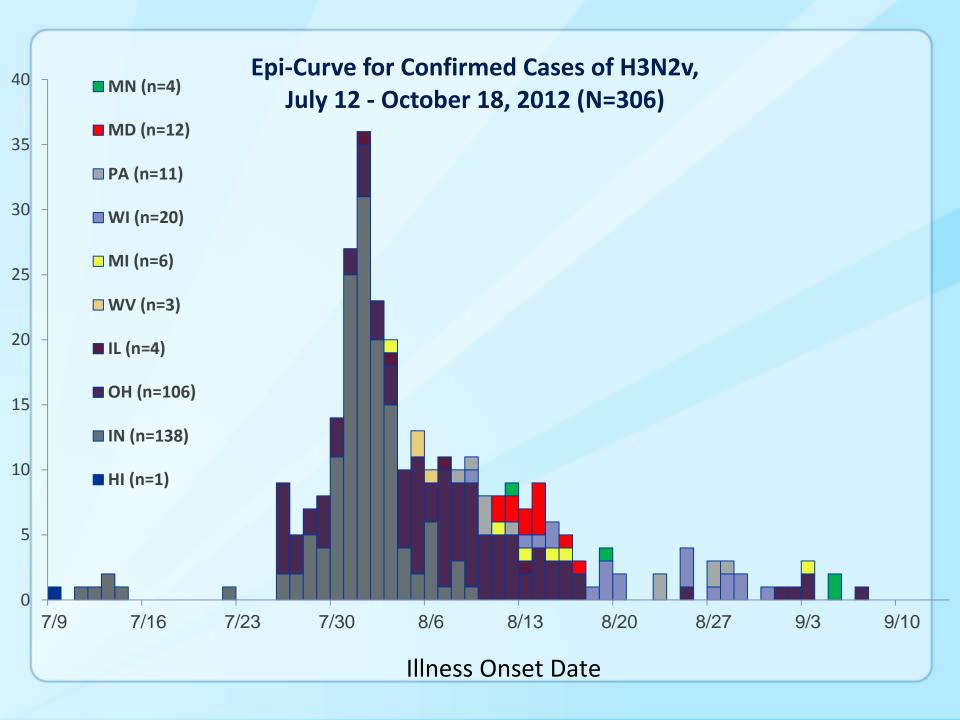
Human Infections with Influenza A H3N2v









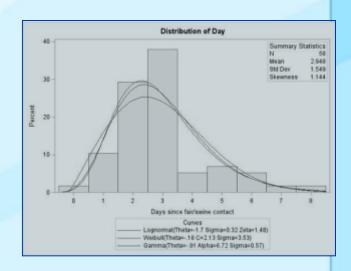


## H3N2v Preliminary Case Count July – October 18, 2012

Cumulative counts since July 12, 2012	
Number of states with confirmed cases	10
Number of confirmed cases	306
Number of confirmed cases hospitalized	16
Number of fatal confirmed cases	1

## **Epidemiologic Parameters**

- ☐ Mean age of cases 8 years range 4 months to 74 years
- ☐ Incubation period 2-3 days
- □ Secondary attack rate
  - Low
- □ Symptoms influenza-like
- Duration of illness 3-4 days
- Period of infectiousness
  - Unknown



### What Do We Know About Exposures?

- ☐ Exposure data for 203/260 cases
  - Most cases (98%) had either direct swine contact, indirect swine contact, or attended a fair
  - >50% had multiple days of exposure
  - Many cases were swine exhibitors or their families/friends

#### □ Context

 Approximately 200,000 of children and adolescents exhibit swine each year at state and county fairs each year in the US.

### What is the Risk to Fairgoers?

- Unknown but assumed to be low
- □ International Association of Fairs and Expos data indicate that thru
   October 2011 >80 million persons attended state or county fairs
- 2011 PA prospective fair survey -- approximately 33% of fair visitors visit the swine barn<sup>1</sup>
- □ Thus many swine barn visitors potentially exposed briefly and indirectly
  - At least some of these exposures would have been to infected pigs
  - However, few cases have reported brief, transient exposure

### Conclusions

- ☐ Fairs are places that pigs come together and if one are more pigs are infected there is transmission among pigs and sometimes to people
- □ People with direct and prolonged exposure have been those at risk of H3N2v infection to date
- ☐ Risk of H3N2v infection is low in exhibitors
- ☐ Risk of H3N2v infection is very low in casual visitors
- No H3N2v cases arising from general population without exposure to pigs or to sick people
- No significant person to person transmission
- No community transmission
- ☐ In most people illness is short and self limited, few are hospitalized and there was one death

## Acknowledgements

Lynnette Brammer

Scott Epperson

Lenee Blanton

Krista Kniss

Rosaline Dhara

Desiree Mustaquim

Tiffany D'Mello

Alejandro Perez

Andrea Giorgi

Craig Steffans

Ashley Fowlkes

Joe Gregg

Michael Jhung

Carrie Reed

Alicia Fry

Seema Jain

**Anna Bramley** 

Victoria Jiang

Karen Wong

Adena Greenbaum

Sandra Dos Santos Chaves

Nancy Cox

Daniel Jernigan

Joseph Bresee



# Thank you

LFinelli@cdc.gov

