



Know flu, no sepsis: Prevention at the beginning

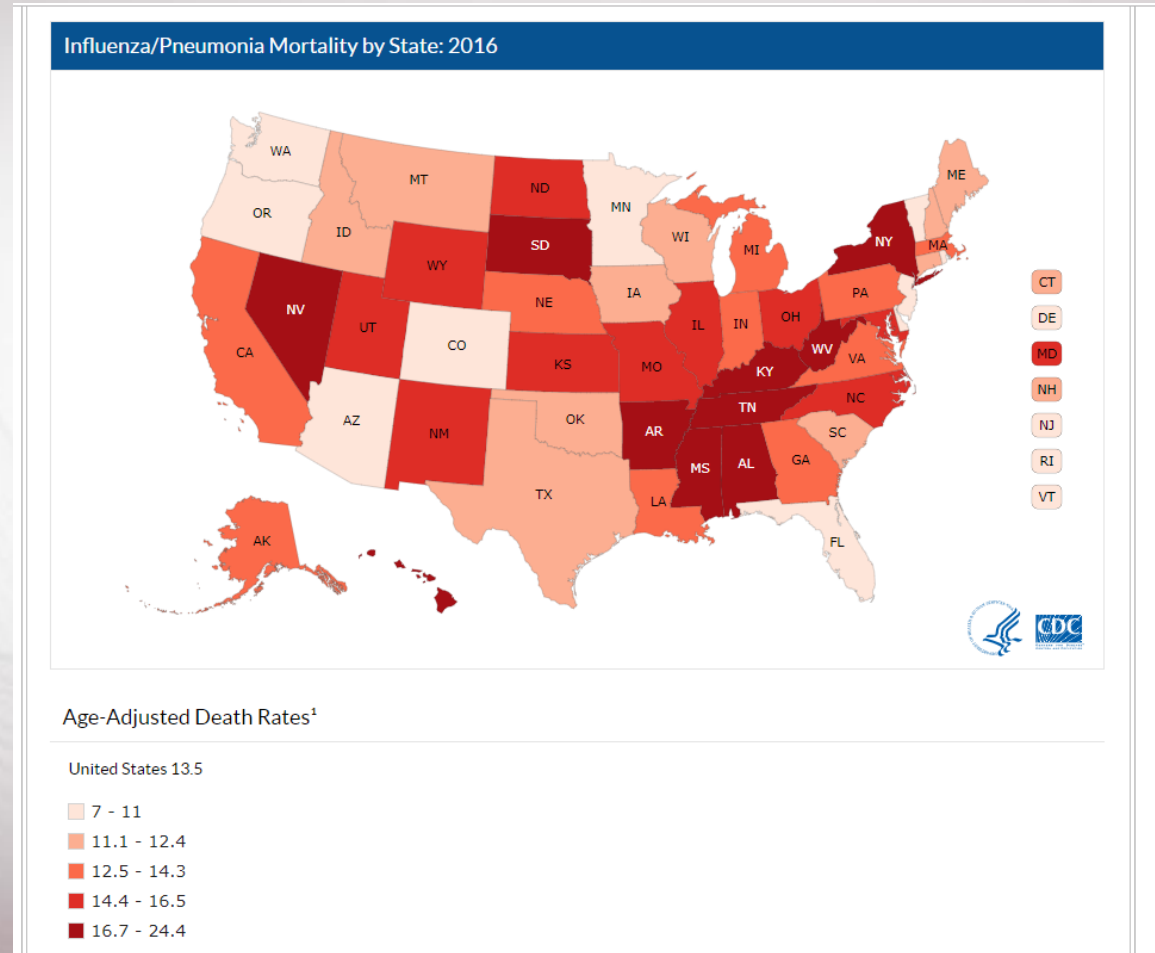
Clint Koenig MD, MA, MSPH
Medical Director
Ohio Department of Health

Goals

- Discussion of sepsis reduction through Flu prevention
- What's new with Flu 2018
- Questions

Flu/Sepsis Connection

- High correlation between influenza pneumonia and sepsis



Pneumonia Risk Factors

Ages 50-64

 **9.8x** Chronic pulmonary disease

 **4.4x** Current smokers

 **4.9x** Asthma

 **4.2x** Chronic cardiovascular disease

 **4.6x** Alcoholism

 **3.0x** Diabetes

 **5.8x** Chronic liver disease

Age over 65

 **7.7x** Chronic pulmonary disease

 **3.9x** Current smokers

 **5.9x** Asthma

 **3.8x** Chronic cardiovascular disease

 **4.5x** Alcoholism

 **2.8x** Diabetes

 **4.3x** Chronic liver disease

Data from: Jain S, Self WH, Wunderink RG, et al; for the CDC EPIC Study Team. Community-acquired pneumonia requiring hospitalization among U.S. adults. *N Engl J Med.* 2015;373(5):415-427.

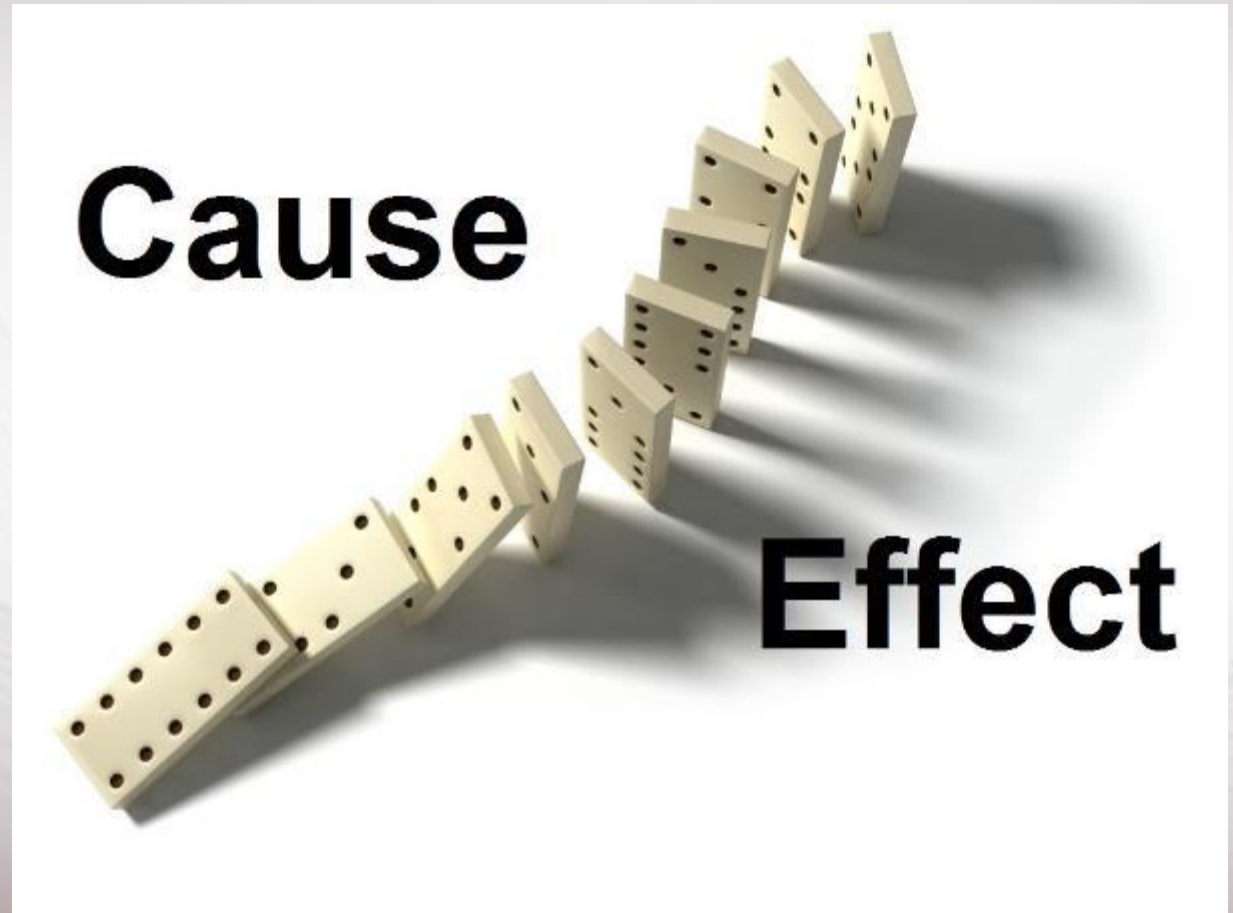
What we know about Influenza Immunization

- Decreased Hospitalization
- Decreased ICU admits
- Decreased Mortality



So what to do?

- Sepsis is everyone's problem



Flu Stats

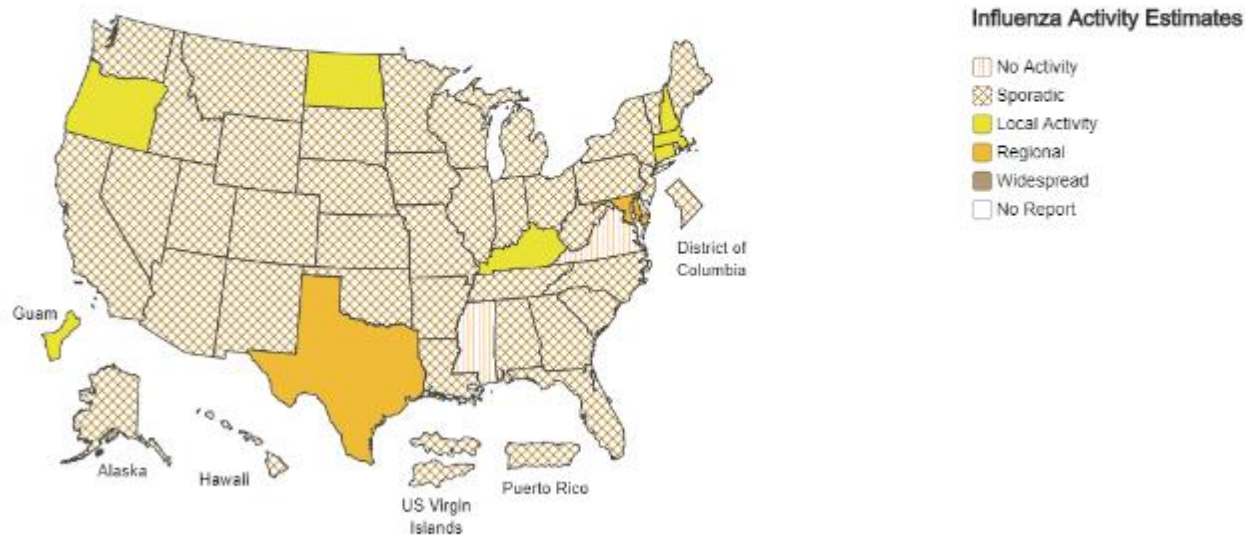
FLUVIEW



A Weekly Influenza Surveillance Report Prepared by the Influenza Division

Weekly Influenza Activity Estimates Reported by State and Territorial Epidemiologists*

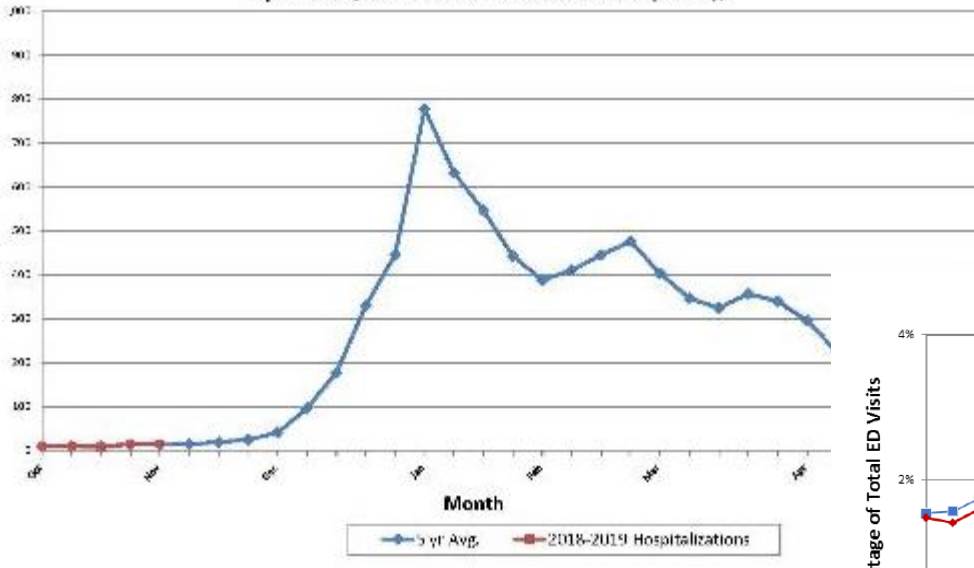
Week Ending Nov 03, 2018 - Week 44



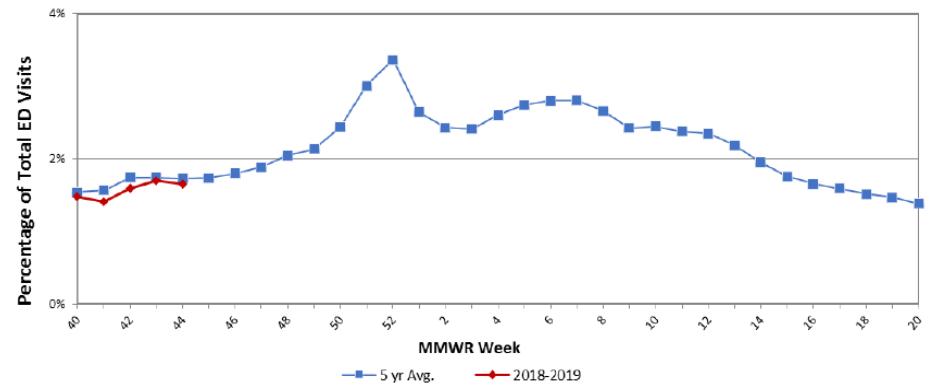
*This map indicates geographic spread and does not measure the severity of influenza activity.

Flu Stats

Ohio Confirmed Influenza-associated Hospitalizations by Month; 2018-19 Influenza Season (n=53);

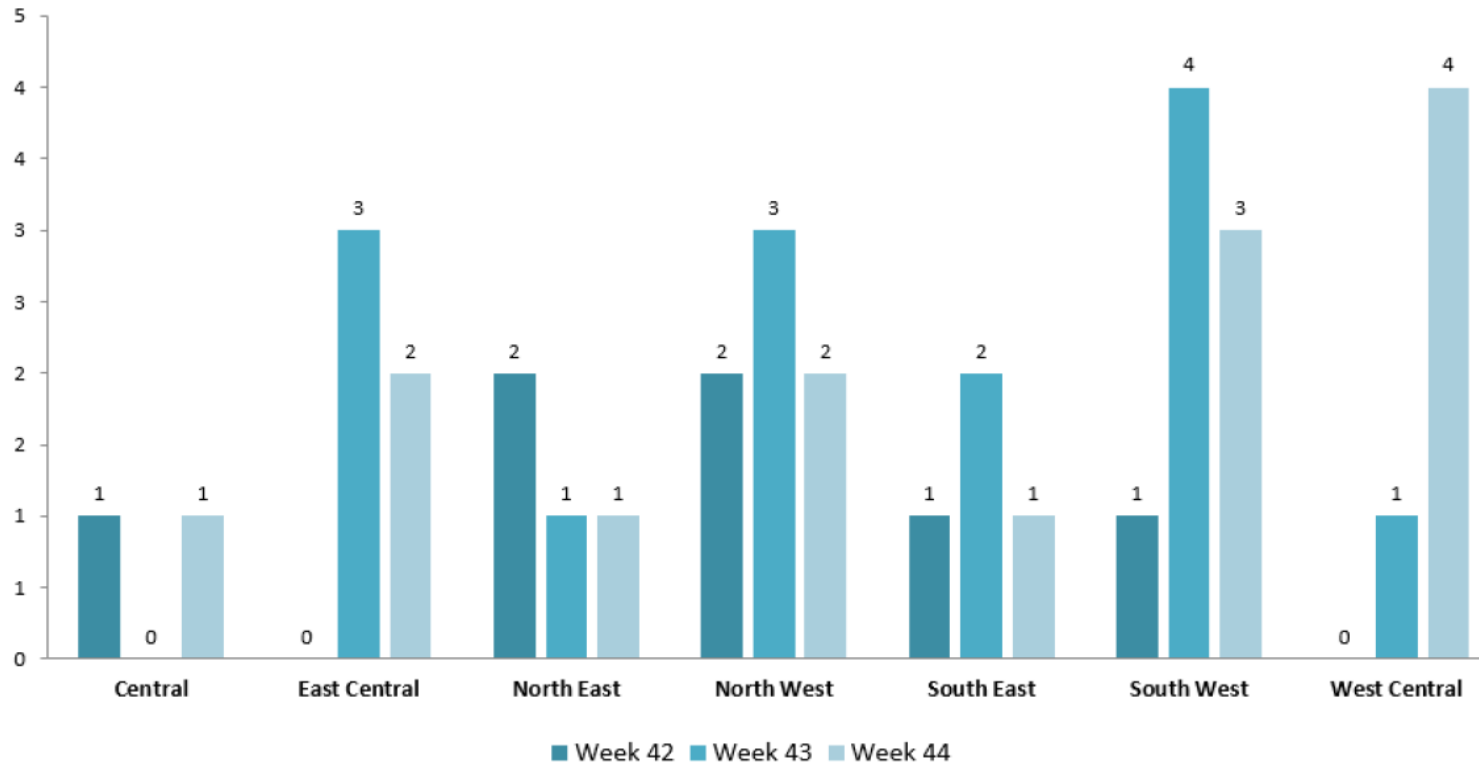


Ohio Fever & ILI Specified ED Visits with 5 Year Baseline Average; 2018-2019



Influenza Hospitalizations By Region

Influenza-associated Hospitalizations by Public Health Region and MMWR Week, Ohio, 2018-2019 Influenza Season



Vaccines - 2018

- Flu vaccine effectiveness may “look” better than last year
- Quadrivalent and trivalent are both recommended
- Flumist making a comeback after two years (better H1N1 efficacy)
- Remember high dose flu vaccine for adults over 65

Other Flu Thoughts



Toolkits and Resources

- Flu Vaccine finder:
- The Organization for Safety, Asepsis and Prevention(OSAP) https://www.osap.org/page/Issues_Influenza
- Vaccinefinder: <https://vaccinefinder.org/>
- CDC Sepsis Information: <https://www.cdc.gov/sepsis/education/hcp-resources.html>

Thoughts on patient cajoling

- Poor efficacy - “If you had a coupon for 30% off, would you use it?”
- Re: I get the flu with the shot “you likely already were exposed to the flu when you had the shot.” Recommend getting vaccine earlier
- CDC Flu Misconceptions:
<https://www.cdc.gov/flu/about/qa/misconceptions.htm>

Contact Information

Clint Koenig MD, MA, MSPH
Medical Director, Ohio Department of
Health

(614) 566-0529

Clint.Koenig@ODH.Ohio.Gov