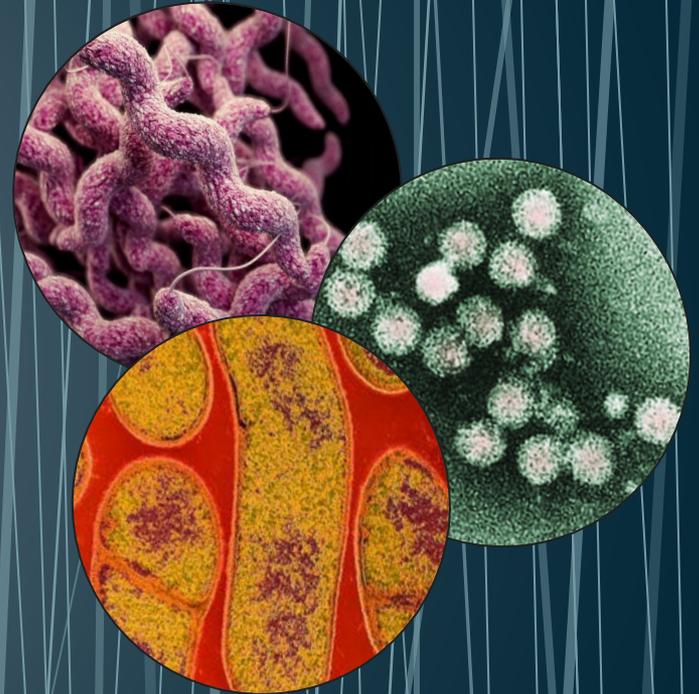


Communicable Disease Annual Report 2015

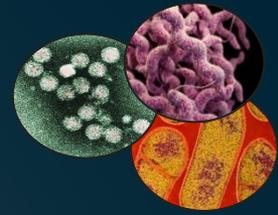
Davis County Health Department

February 9, 2016

Board of Health

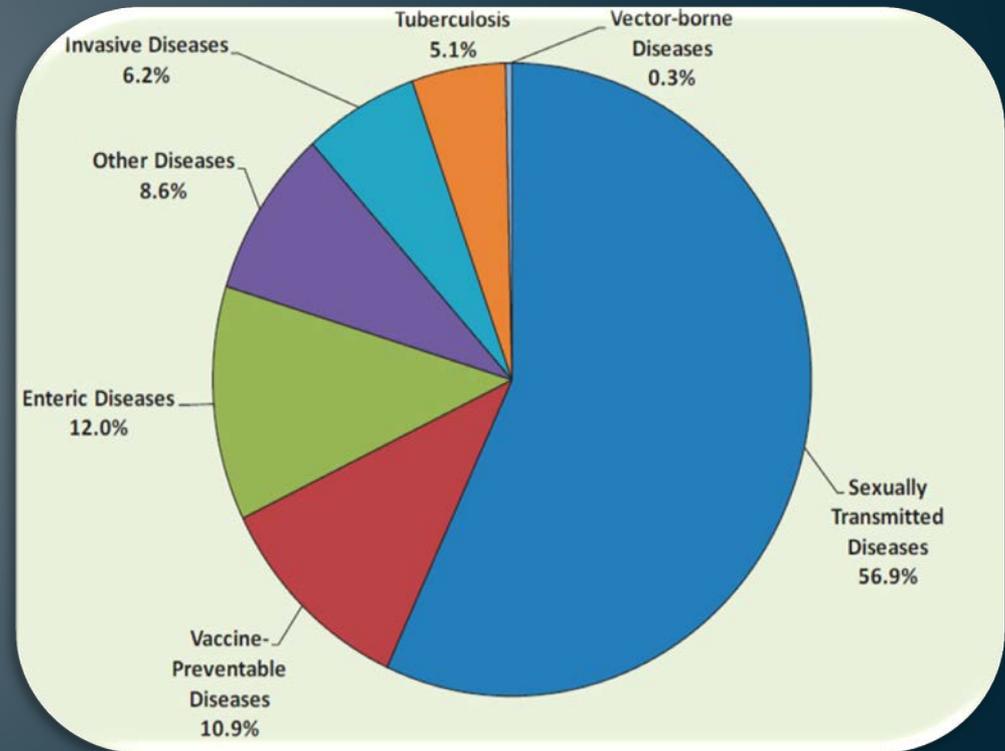


Reportable Disease Summary

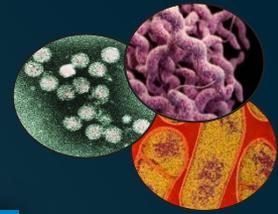


- **1,755** diseases reported in 2015
- STDs remain the largest disease burden
- Annual report summarized by disease categories

Diseases Reported by Type, Davis County, 2015



Top 20 Diseases

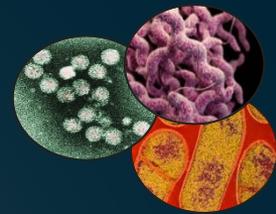


Top 20 Diseases

Table 1. Frequently Occurring Diseases in Davis County, 2015

Rank	Disease	Number of Cases
1	Chlamydia	886
2	Hepatitis C, acute & chronic	132
3	Tuberculosis, latent infection	89
4	Streptococcal disease, invasive	89
5	Gonorrhea	87
6	Influenza, hospitalized	83
7	Pertussis	72
8	Salmonellosis	58
9	Campylobacteriosis	46
10	Cryptosporidiosis	26
11	Hepatitis B, acute & chronic	22
12	Shigellosis	21
12	Norovirus	21
14	Shiga toxin-producing <i>E. coli</i> (STEC)	18
15	Giardiasis	17
16	Chickenpox	15
17	Viral/Aseptic Meningitis	14
17	Syphilis	14
19	HIV/AIDS	11
20	Carbapenem-Resistant Enterobacteriaceae (CRE)	9

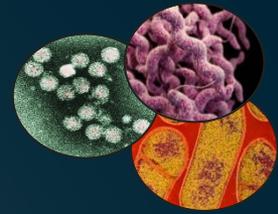
2015 Disease Highlights



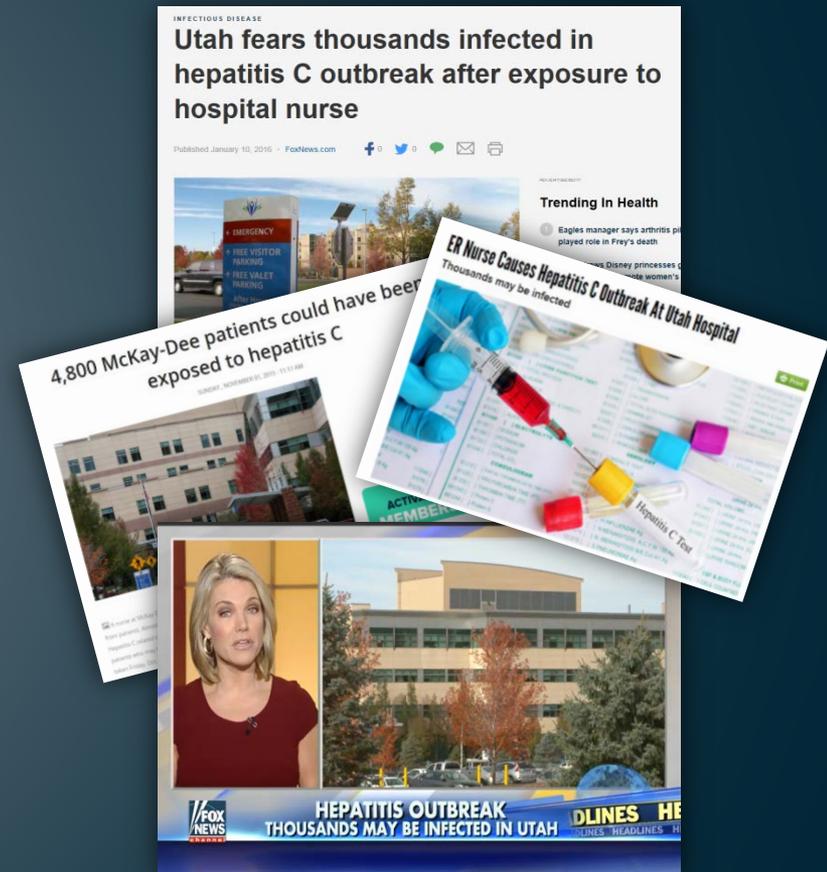
- HCV Outbreak
- *Salmonella* poona
- New emerging diseases
 - Ebola (monitoring events)
 - MERS
 - Chikungunya
- Sexually Transmitted Diseases (STDs)
- Rabies – Human exposures
- Influenza



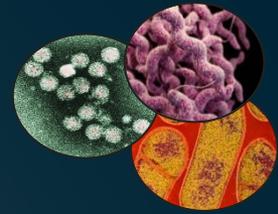
HCV Outbreak



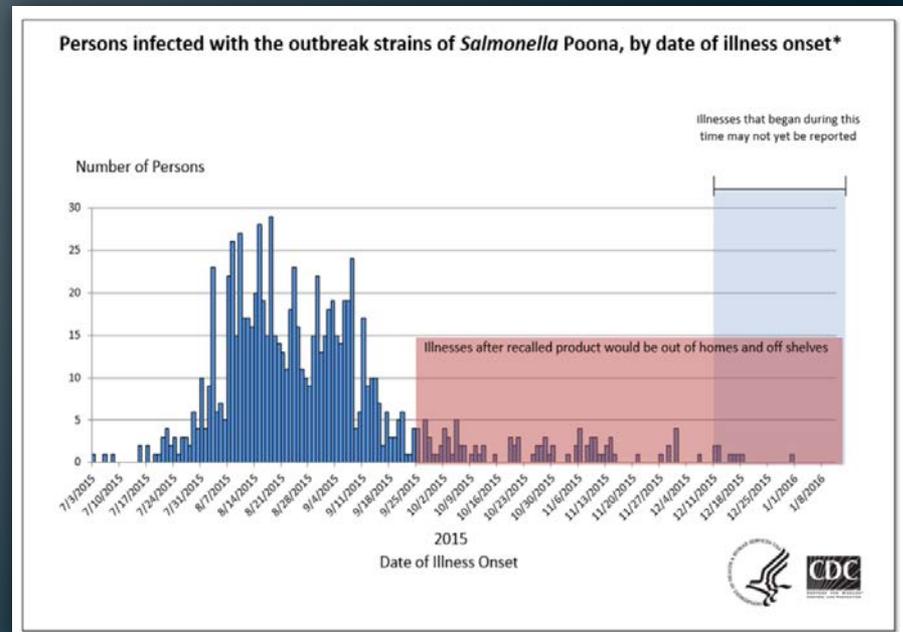
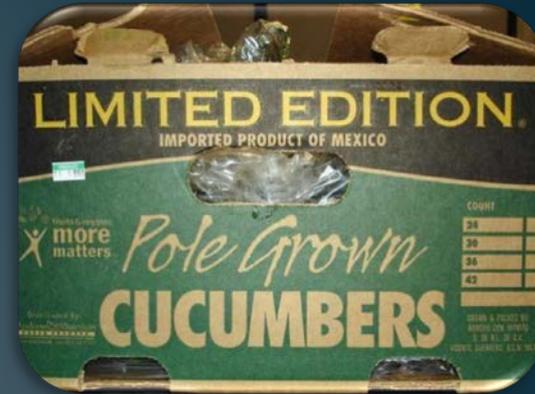
- HCV case with no admitted risks and newly infected
- Recent healthcare visit
- Hx of drug diversion activity in an employee at two healthcare facilities
 - >7,000 people potentially exposed
 - 43% tested (as of 02/05/16)
- Free testing and linkage to care
- Ongoing investigation – WMHD and DCHD most affected



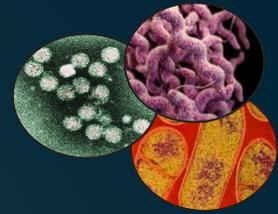
Salmonellosis



- Nationwide outbreak: (as of 2/8/16)
 - 888 cases in the US – 39 states
 - 62 cases in Utah
 - 10 from Davis County
- Associated with the ingestion of cucumbers
- Recall of product
 - Decrease in cases, yet still finding matching cases
- New efforts focused on disinfecting any surface the cucumbers could have touched



New & Emerging Diseases



○ Ebola

- Ebola monitoring
- Public Health preparedness



○ Middle East Respiratory Syndrome (MERS)

- Suspect cases – ruled out
- Addition of So. Korea as an area of transmission

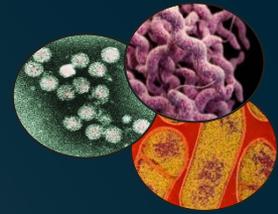


○ Chikungunya

- Two cases in 2015
- Both with foreign travel



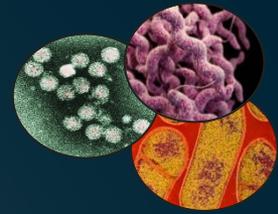
Sexually Transmitted Diseases



- **886** Chlamydia cases - #1 disease burden
- Continued elevation of Gonorrhea cases
 - Move from MSM to Heterosexual population
 - Affecting younger ages
 - Developing resistance
- New STD risk trend – “Swingers”
- STD Contact Clinic
 - 40 % positivity rate



Rabies – Human Exposures



- No human rabies cases!!
- Five positive bats
- BOH regulation has made a positive impact on the reporting process
- Many human exposures
 - 496 bites reported & followed by DCHD
 - 47 recommended PEP
- PEP is costly and there is a lack of availability in the community
- Collaboration with Davis County Animal Control
 - Monitor the animal for 10 days
 - Submit specimens to DCHD for testing – sent to UPHL



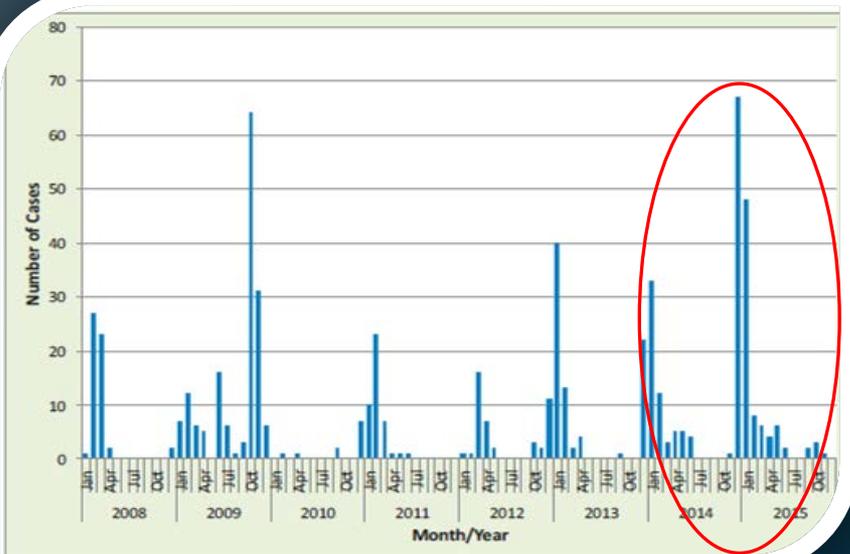
Influenza



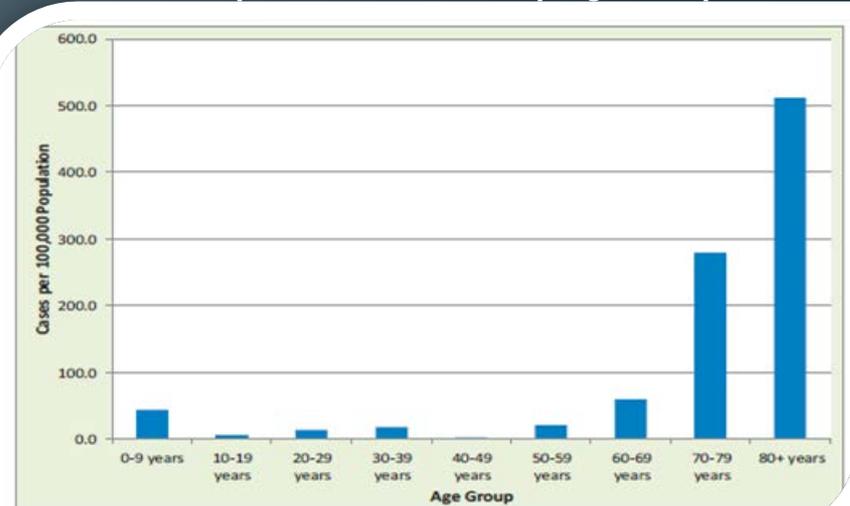
2014 - 2015 Season:

- Cases peaked in Dec/Jan
- 140 hospitalized cases
 - Most severe season – more than the 2009 H1N1
 - Elderly most affected
- Most common circulating strain was H3
- Likely a drift from the anticipated strain – not the best match in the vaccine

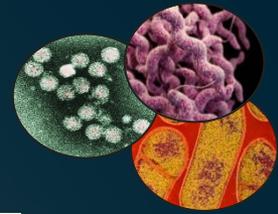
Hospitalized Influenza by Month 2008-2015



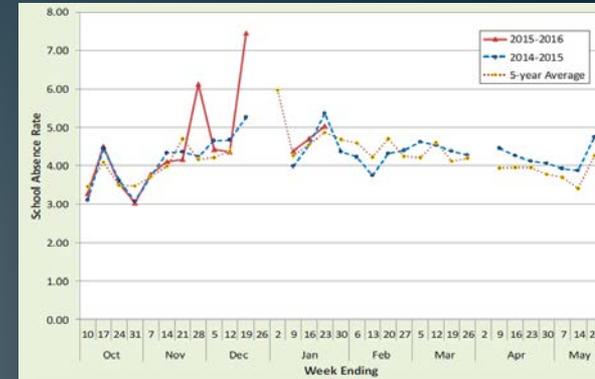
Incidence of Hospitalized Influenza by Age Group 2014-2015



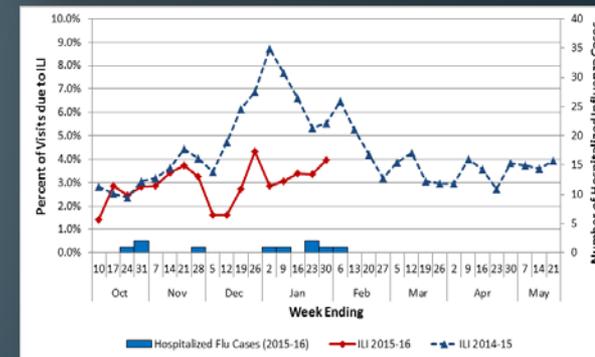
Influenza (2015-2016 Season)



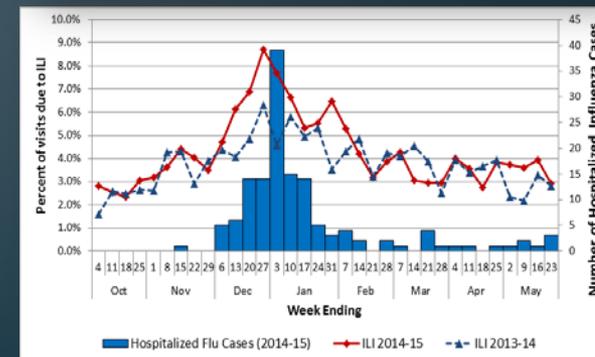
- To date, 10 hospitalized cases in Davis County
- Milder season with type B being the dominant strain
- Many respiratory illnesses in the community – Influenza??
- SLCHD – Two influenza deaths



Elementary School Absenteeism

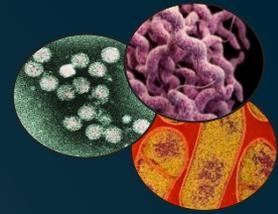


2015-16



2014-15

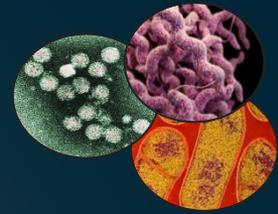
Other Interesting Diseases in 2015:



- Infant Botulism
- Multi Drug-resistant Organisms (CREs)
- Hepatitis E
- Malaria
- Legionellosis
- Pertussis
- Norovirus
- Shigellosis
- Rocky Mountain Spotted Fever
- Vibriosis

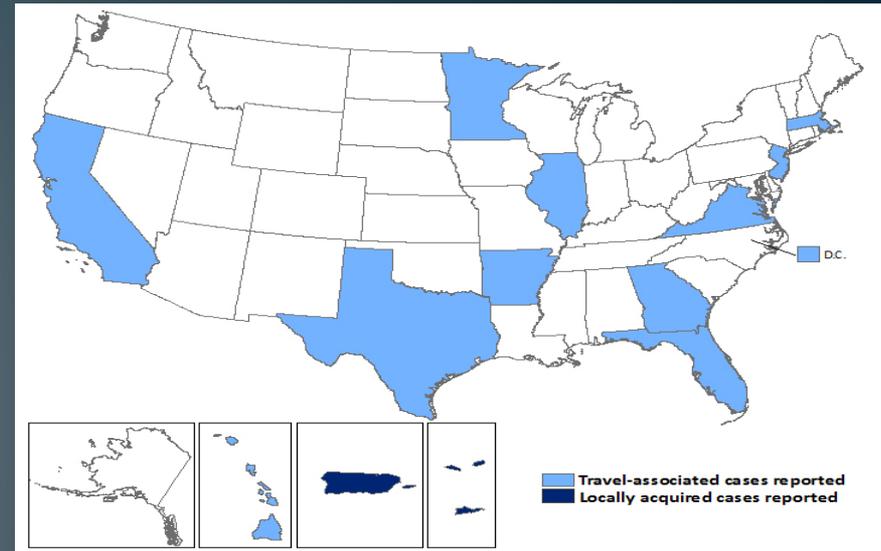


Zika Virus



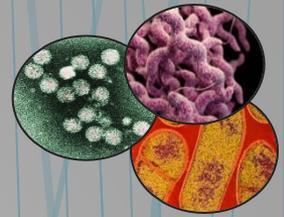
- Zika virus has been around for several years – sporadic cases
 - Newly detected in the Americas in May 2015
 - 35 reports in the US – no local transmission (2/3/16)
- Transmitted through the bite of a *Aedes* mosquito
 - Possibly sexually transmitted (Texas case)
- 1 in 5 infected will get sick (fever, rash, joint pain, conjunctivitis)
- Reports of birth defects

Zika virus disease in the United States, 2015–2016 (as of 2/3/16)



Countries and territories with active Zika virus transmission





Questions?