

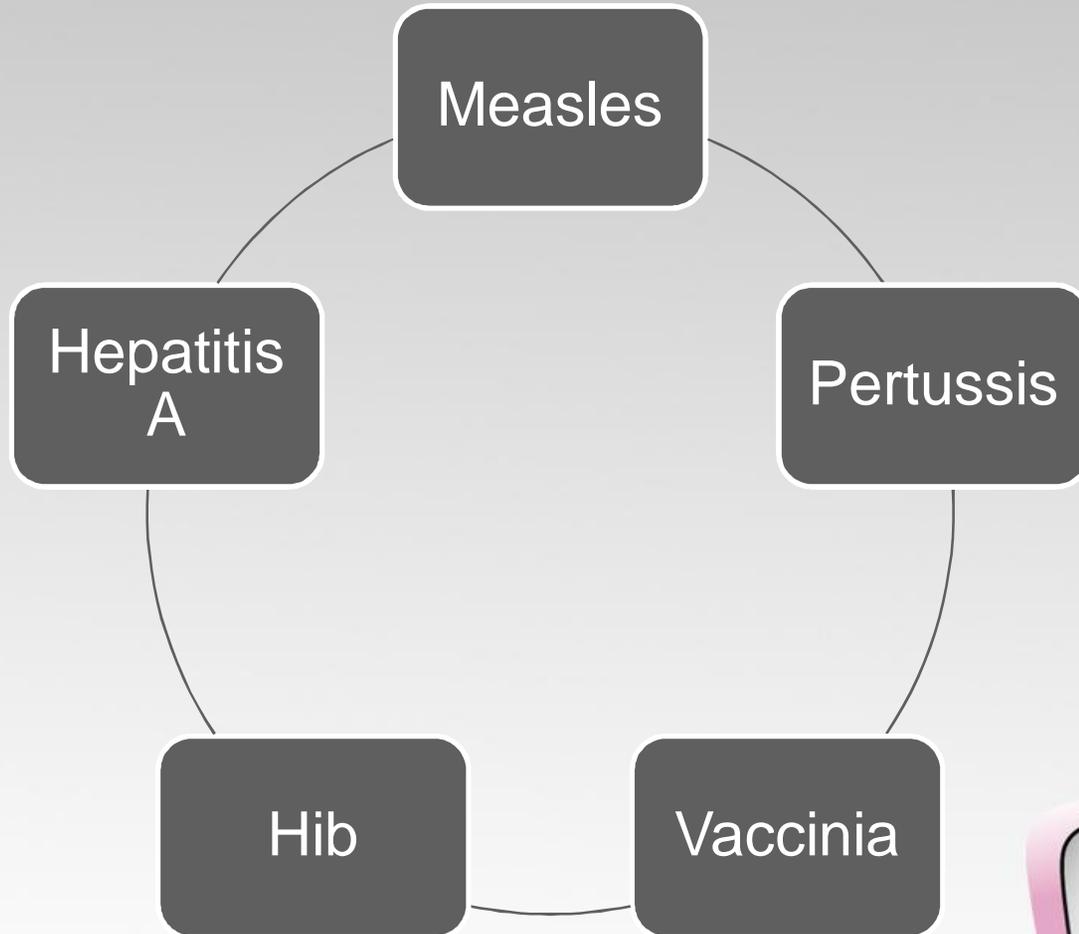
The Real VPDs of the Western Region



**REALITY
TV**



Cast of Characters



Production Crew



Measles in a College Student

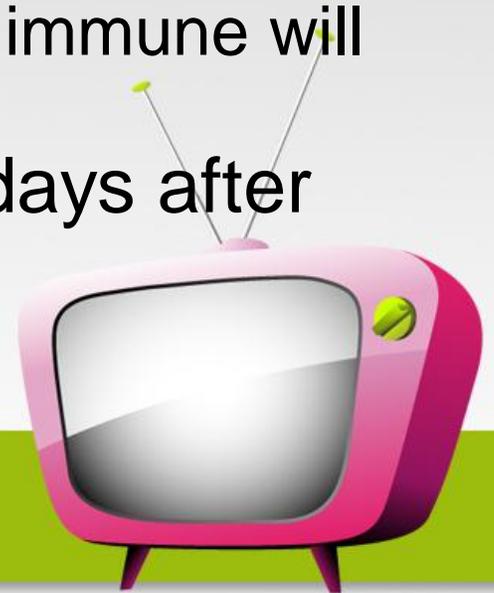
Executive Producer

Seneca County Health Department



Measles / Rubeola

- “ Highly contagious respiratory disease
- “ Causes fever, runny nose & rash all over body
- “ Almost eradicated in the US, still kills 200,000 people per year around the world
- “ Spread through air by breathing, coughing, or sneezing
 - . Highly contagious (exposed and not immune will likely become ill)
- “ Communicable 4 days before to 4 days after rash onset



Measles Drama

- “ Seneca County Health Department learned of a possible case of measles in an unimmunized college student on July 6, 2011
 - . College she attended had approximately 700 students (26 with religious exemptions for vaccination)
- “ The patient did not feel well and traveled home . . . to Canada
- “ Returned to school (Seneca County) when feeling better with a doctors note indicating she had the measles and could return to school



To be continued . . .

- “ Infectious Period (6/26/11 . 7/5/11)
- “ Patient was infectious in the United States *and* Canada
- “ Entire family was clinically diagnosed with measles
- “ Patient had numerous contacts
 - . She was a chiropractic student who worked clinics while ill
 - . Spent time at cafeteria, Walmart, Wegmans, NYS Thruway rest stops and a Chinese restaurant

Finale

- “ Unvaccinated students were excluded from school until vaccinated or could prove immunity
 - . Most students were cooperative
- “ News release was issued notifying the public of the possible locations of exposure
- “ Active surveillance through July 21, 2011
- “ **No new cases**
- “ Continues to work with school on immunizations



Hepatitis A in a Food Handler

Executive Producer

Niagara County Health Department



Hepatitis A

- “ An infection caused by the Hepatitis A virus
- “ Can cause fever, fatigue, anorexia, dark urine, jaundice
- “ Hepatitis A rates in the US have declined by 92% since Hepatitis A vaccine first became available in 1995
- “ Person to person transmission through fecal-oral route is primary transmission mode
- “ Infectious 2 weeks before to 1 week after onset of illness



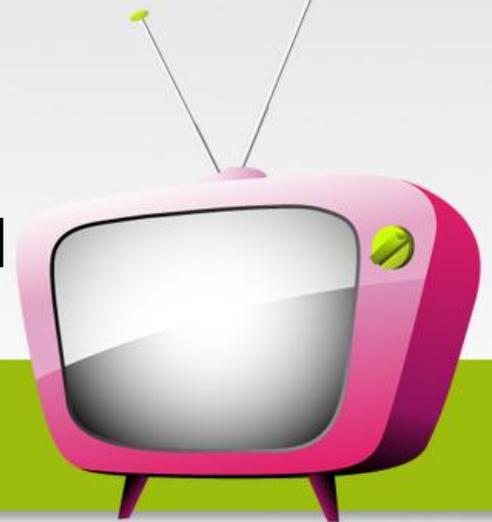
Hepatitis A Drama

- “ Niagara County Health Department learned of a case of Hepatitis A in a food handler on July 3, 2012
- “ The patient had recently returned from travel abroad to an endemic area
- “ Onset of symptoms on June 19 but worked until he developed jaundice on June 28



To be continued . . .

- “ Patient had classic clinical symptoms and worked while infectious x 9 days
- “ EVERY employee, manager, and owner of establishment interviewed
- “ Provided post exposure prophylaxis to all household, close and co-worker contacts as quickly as possible
 - . IG to all contacts >40 years old
 - . Vaccine to all contacts <40 years old



Finale

- “ Patient had limited food handling duties
- “ All employees reported consistent and reliable information
 - . Hand hygiene
- “ Determined the risk of transmission to customers extremely low
- “ No plans to offer post exposure prophylaxis or issue press release
- “ Active surveillance through August 18, 2012
- “ **No new cases**



Vaccinia in a Wrestler

Executive Producer

Niagara County Health Department

Western Regional Office



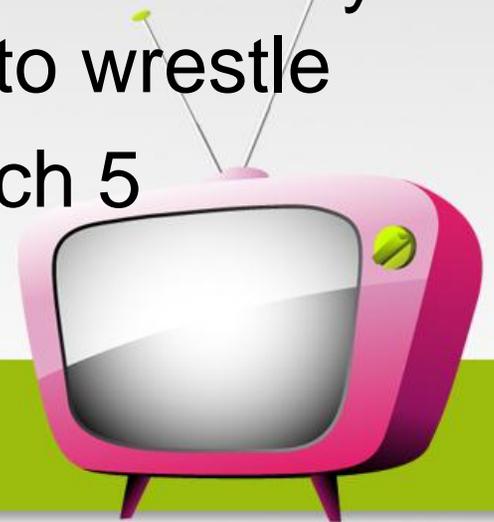
Vaccinia

- “ After smallpox vaccination, a bump forms on the skin and turn into a blister that fills with pus and drains (blister will dry up and form a scab after 2-3 weeks)
- “ Vaccinia virus in the vaccine is a live virus, until the scab falls off
- “ Vaccinia virus can spread to others causing a rash (mild to severe), fever and head/body aches
- “ Vaccinia is spread by touching the vaccination site before the scab has fallen, or by touching items like bandages, clothes, sheets or towels that have touched the site



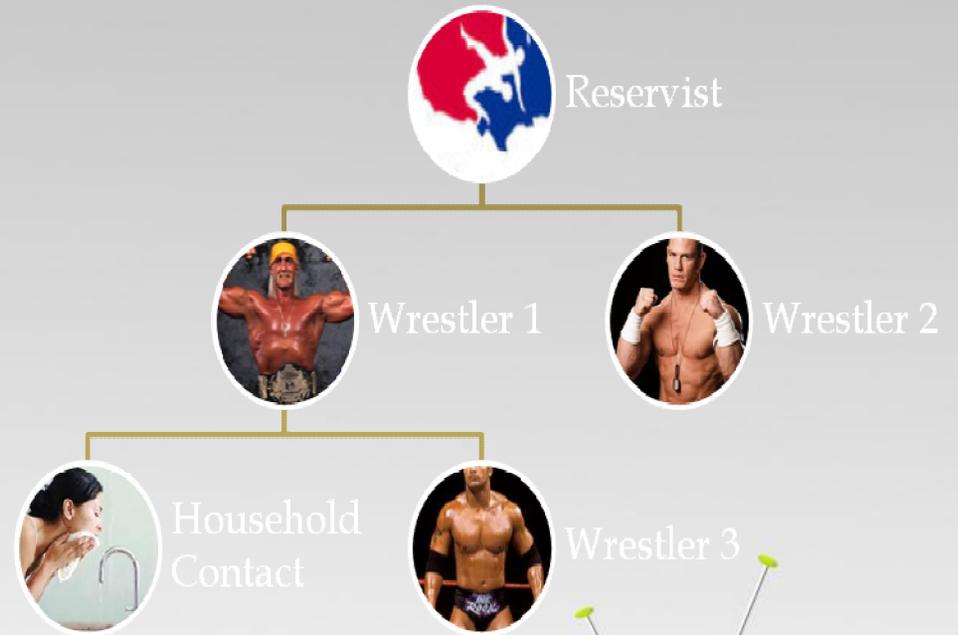
Vaccinia Drama

- “ 2003 . US Department of Defense re-instituted smallpox vaccination program
- “ On-going . the Niagara Falls Air Reserve Station provides smallpox vaccinations for service members deploying to select areas
- “ Air Force reservist is vaccinated on February 23, 2010 and specifically told **not** to wrestle
- “ Wrestled on February 27 and March 5



To be continued . . .

- “ Four cases resulted from contact with the reservist
 - . 2 secondary and 2 tertiary
- “ Vaccinated reservist wrestled against cases 1 & 2
 - . Both developed lesions
- “ Case 1 then wrestled against case 3 who developed lesions
- “ Case 1 spread to household contact; suspected route of transmission was a shared hand towel



Case 1

3/12/10



3/30/10

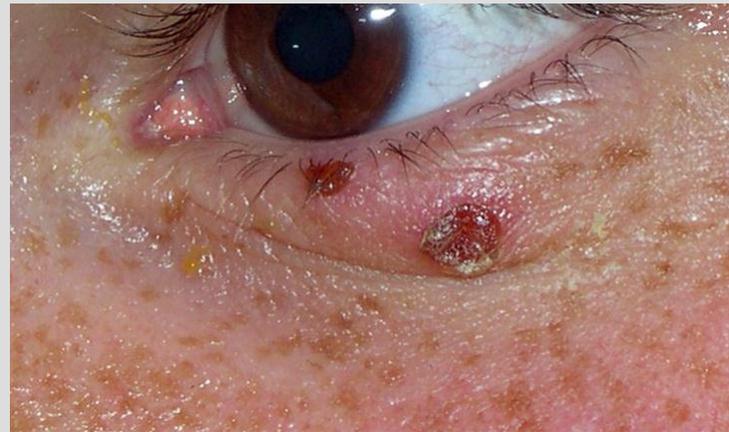


Case 2

03/12/10



03/20/2010



Case 3

03/12/2010



03/19/2010



04/12/2010



Case 4

03/13/10



03/17/10



VIG Administered
3/19/10



03/20/10



03/25/10



03/30/10

Finale

- “ All cases interviewed and restricted from work, school and wrestling
- “ Specimens collected and tested at Wadsworth
- “ All four patients tested positive for Vaccinia virus by RT-PCR (later confirmed as the vaccine strain by CDC)
- “ Health Advisory issued to providers in Niagara and Erie counties
- “ Active surveillance conducted with ALL others who wrestled



Pertussis in Health Care Workers

Executive Producer

Niagara County Health Department



Pertussis

- “ Highly contagious respiratory disease, also known as whooping cough
- “ Causes uncontrollable, violent coughing which often makes it hard to breathe. After the fits of coughs, a patient sometimes needs to take deep breathes resulting in a ~~w~~whooping+sound
- “ Spreads easily from person to person through coughing and sneezing
- “ **Commonly affects infants and young children and can be fatal, especially in babies less than 1 year**
- “ The best way to protect against pertussis is immunization
- “ Communicable 21 days after cough onset



Pertussis Drama

- “ Niagara County Health Department learned of a pertussis case in health care worker who worked as a labor and delivery nurse on June 29, 2012
- “ Patient had a child who also had pertussis
- “ Patient reported coughing for several weeks
- “ Per diem nurse, worked 3 days during her infectious period
 - . Assigned to caring for both moms and babies



To be continued . . .

- “ Niagara County worked closely with the hospital IP
- “ Hospital provided names of all the patients (parents and babies) for all assigned days
- “ Hospital contacted the parents and pediatricians of the babies the nurse cared for to assess for cough illness and recommend post exposure prophylaxis if warranted
- “ Hospital sent letters to all patients she was assigned since babies could have been in room when caring for moms



Finale

- “ Hospital used the investigation as an opportunity to review sick policy and promote vaccination among employees
- “ Active surveillance through July 10, 2012
- “ No new cases



Haemophilus Influenzae type B in an Amish Community

Executive Producer

Wyoming County Health Department

Allegany County Health Department



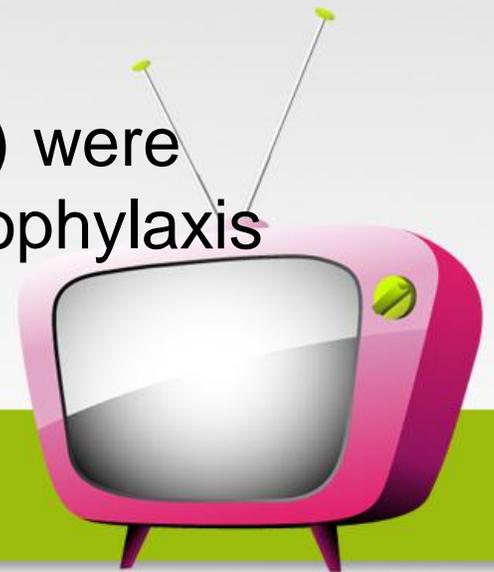
Haemophilus Influenzae type B (Hib)

- “ Cause of bacterial infections that are often severe, especially among infants
- “ Hib **was** the leading cause of bacterial meningitis and other invasive bacterial disease among children younger than 5 years
- “ Due to routine use of vaccine (since 1990), the incidence of Hib disease in infants and children has decreased by 99% (fewer than 1 case per 100,000 children under 5 years)
- “ Hib occurs primarily in underimmunized children and among infants too young to have completed the immunization series.



Hib Drama

- “ Wyoming County Health Department learned of a possible bacterial meningitis case in a 7 month old infant from an Amish family on January 24, 2012.
- “ Child hospitalized with fever, vomiting and progressed to respiratory distress
- “ Bacterial culture grew *Haemophilus influenzae*
 - . Wadsworth confirmed Type B
- “ Household contacts (all unvaccinated) were recommended to receive Rifampin prophylaxis



To be continued . . .

- “ Less than a week later, a second case of *Haemophilus influenzae* meningitis was reported in an unvaccinated 17 month old Amish child
- “ Part of the same church group as the 7 month old infant
 - . They napped together approximately 3 weeks earlier
- “ Family was prophylaxed and Wadsworth confirmed the second case to be Type B



Finale

- “ Opportunity for education and vaccination for the Amish community
- “ Education provided in the evening to Amish families
- “ Twenty adults attended
 - . One family made an appointment for vaccination
- “ Lines of communication opened



Our Reality



If Reality TV and Public Health Collide . . .



Dateline HAV: To Catch a Food Handler



Why Not to the Shot!



Acknowledgements

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