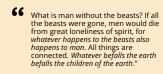


## Question for the Viewers The Viewers What field do you currently work in? A. Public Health B. Animal Health C. Medical/Clinical Services D. Other (please type in chat)

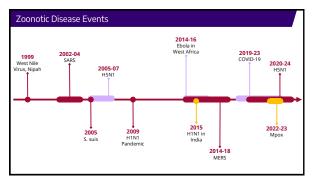






- Chief Seattle, Suquwamish & Duwamish Tribes



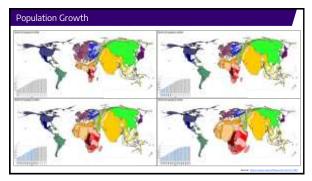


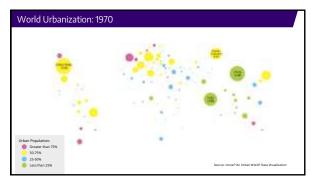


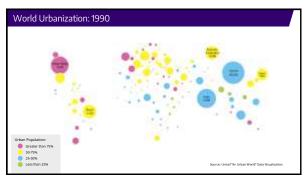
- Many early cases associated with animal markets
- Thought to have jumped to humans from a mammalian source; true origins remain unknown
- Transmission from humans to dogs and cats, others
- Bidirectional transmission on mink farms

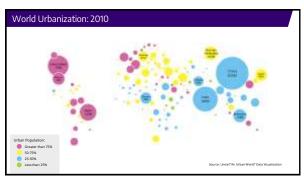


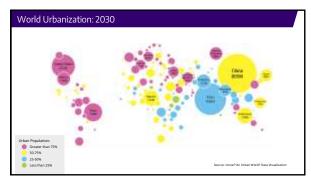
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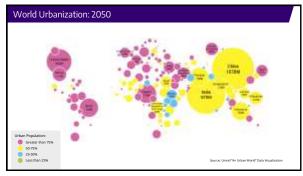








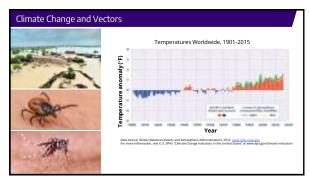




















### Washington State One Health Efforts

- One of 5 Statewide Health priorities: "Global and One Health"
- Antimicrobial resistance
- Zoonotic disease surveillance
- One Health data sharing- animal and human health
  - Digitization of animal disease surveillance reports
  - Efforts leading to a Washington Administrative Code for sharing data between human and animal health
- Can we create a One Health surveillance system?

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### Global and One Health

### Vision

All Washingtonians live in everconnected environments that recognize and leverage the intersection of both global and domestic health as well as the connections of humans, animals, and the environment.

### Commitment

We will lead the development and implementation of creative solutions to improve the health and well-being of Washingtonians emphasizing the connectedness of a strong bidirectional global domestic health ecosystem. It will simultaneously underscore the importance of One Health recognizing the relationships of human health as they intertwine with that of animals and the environment.

Washington State Department of Hea

### One Health Surveillance?

- We know the environment is changing, affecting both human and animal health
- International calls for One Health approach to disease surveillance and control: WHO, Lancet Commission, UNEP, FAO, WOAH, CDC, USDA, etc.
- But: complexity in integrating data and getting a timely picture of critical interactions
- Lack of such integrated information **getting to the "front lines"**: clinicians, etc.
- WA One Health Initiative working on Integrated Surveillance

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**Examples of Health Threats** 

- Avian influenza
- Heat
- Wildfire smoke
- Vector borne disease
- Fungal disease—coccidiodomycosis
- Other zoonotic diseases
- Harmful algae blooms
- Ecoanxiety

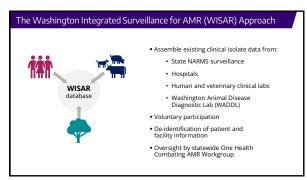
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### Global One Health Group at the University of Washington



- Since 2014 Local and global health
- projects Zoonotic diseases
- AMR
- Surveillance
- Health of animal workers









### Occupational Health at the Human Animal Interface (OHHAI) Program

- Graduate research training program for the occupational health of workers
- Farms, veterinary care, shelters, zoos, aquaria, laboratories, meat processing, fisheries, etc.
- Working on dairy worker infection control



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### Highly Pathogenic Avian Influenza (HPAI) H5N1: Challenge



- Can we approach in a One Health way?
- Surveillance in animals
- Surveillance in humans
- Environmental surveillance
- Use of genomic data to trace spread
- Challenges for farms to institute infection prevention and biosecurity

Build trust across sectors

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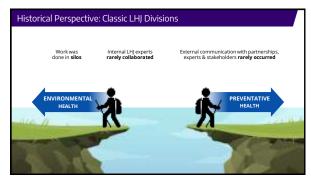
### **Question for the Viewers**



Based on what you know about the One Health approach, how applicable do you think it could be to your work?

- A. Very applicable
- B. Somewhat applicable
- C. Not applicable
- D. Other (please type in chat)







### In 2010 Some Factors Changed the Map of Valley Fever

- 2+ adolescents in Benton/Franklin County
- Adult excavator in Walla Walla
- Adult vineyard worker in Benton County
- H.O. requested soil testing
- Historical animal (dog & horse)
- Picture worth 1000 words
- Soil collected
- PCR developed
- Soil tested & found & culture
- 2 more collection events confirmed—it's in other locations

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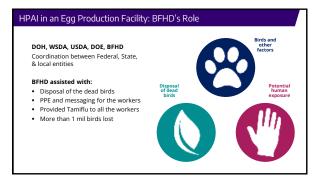
### **Testing Events**

- More digs resulted in more positives
- Coordinated efforts with local veterinarians to conduct blind seroprevalence testing in dogs
- Currently, there is more interest in how climate change and wildfires affect exposure and transmission



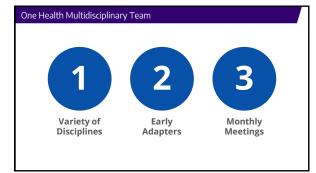












### One Health Blueprint

The One Health workgroup addresses complex health challenges by recognizing the interconnectedness of people, animals, plants, and the environment. It is a collaborative effort that brings together SME's representing a cross section of programs within BFHD.

The purpose is to educate BFHD staff on One Health concepts and how it relates to their work within the agency as well as with community partners.

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### One Health Blueprint

### Responsibilities:

- ✓ Collaborate with supervisors and management staff to explore opportunities to integrate One Health concepts into agency work
- ✓ Provide educational opportunities to staff
- Assist supervisors, managers, and staff in implementing One Health concepts into their daily program work
- ✓ Provide a framework for incorporating One Health concepts into individual program and division work
- ✓ Prepare for One Health emergencies
- ✓ Ensure equity is an overarching theme for all One Health work
- $\checkmark$  Identify data sources to support our One Health work



## One Health Duties/Roles

### Members:

- Attend and participate in regularly scheduled meetings
- Act as a One Health champion by bringing content from, and pushing content to, your area of work
- Develop and Manage the BFHD One Health webpage

### Team Leads:

- Maintain and update the group work plan
- Schedule meetings, develop meeting agendas
- Maintains a Teams site

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# One Health in the Community: Ducks Unlimited

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## Future Plans

- Continue in-house education
- Create email and contact lists
- Create more educational materials
  - One Health & Hunters
  - One Health & AG workers
  - etc.
- One Health Coalition—Multi Stakeholders



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## Key Takeaways

- ✓ Creating a One Health Team or approach is reframing the work we already do.
- ✓ Creating a One Health Team and Blueprint formalizes the agency commitment to approaching all our work through a One Health lens.
- Applying One Health approaches will involve overcoming barriers to sharing data and working across sectors.
- One Health provides a platform to anticipate and prevent health problems related to a changing environment, including climate change.





