



### Background

- Recent studies indicate that two million older Americans are completely or mostly homebound
- 23.5% (approx. 9.2 million) of people 65 and older characterize themselves as having ambulatory difficulties
- This population is likely to present with poorer physical and mental health outcomes, including high levels of depression, anxiety and cognitive impairment which increases non-compliance with treatment plans



### **POP Care Model**

Transdisciplinary teams of students from nursing, veterinary medicine and social work provide people and pet care in the homes of older adults identified through the Total Health and Wellness Clinic and the Veterinary Medicine Outreach Program



### **POP Care Model**

- Prior to visiting patients, students complete four 15-20 minute online modules that cover the POP Care Project, the CDC One Health concept, evidencebased practice, the social determinants of health and age-friendly communities
- Each block of students visits the same 2 patients and pets once a week for four weeks. Teams round at the end of each day to discuss cases and to make plans for the following week of care
- Emphasis is placed on prevention and optimal well-being in addition to evidence-based management of chronic conditions

### TRANSDISCIPLINARY FOCUS

### Nursing

Health and wellness screening, preventive care and programming, information and guidance on accessing health care, healthy lifestyle behaviors and evidence-based strategies for managing chronic conditions



### TRANSDISCIPLINARY FOCUS

Veterinary Medicine

Health assessments and wellness care for dogs and cats, including vaccines, heartworm testing, pet owner education and parasite prevention



### TRANSDISCIPLINARY FOCUS

Social Work

Social determinants of health assessments and end of life planning to link patients to community resources that can support their ability to remain in their homes

Support and resources are also offered to caregivers when appropriate

### Integration of the Three Disciplines for Optimal Care of People and Pets

• Pets are built into the older adult's plan of care and people are built into the pet's plan of care



"All of the simple problems in our communities have been solved. What are left are the complex ones."

Dean of the OSU College of Social Work

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### Transdisciplinary Practice Approach

VISIT	Assessment/Intervention Lead	Focus of visit
Week 1	Veterinary Medicine	Pet Care
Week 2	Nurse Practitioner	Primary Care Needs, Education, Prevention
Week 3	Social Work	Social Determinants of Health, Information and Referral, Needs of caregiver
Week 4	Follow up depending on needs of the patient	Planned during supervisory meetings

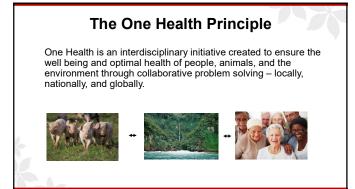
### Transdisciplinary Education

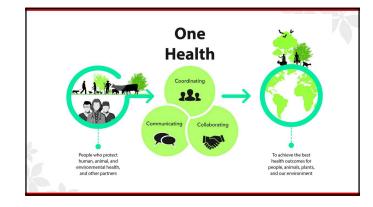
- I never thought about...
- I feel relieved to know...
- I know the best language to use when...
- I can build relationships with clients through pets...
- Real-time consultation in homes...
- Coordinated care and services...

Readiness for Interprofessional Learning Scale (McFadyen et al. 2005)









### **One Health Initiative Mission Statement**

"Recognizing that human health (including mental health via the human-animal bond phenomenon), animal health, and ecosystem health are inextricably linked, One Health seeks to promote, improve, and defend the health and well-being of all species by enhancing cooperation and collaboration between physicians, veterinarians, other scientific health and environmental professionals by promoting strengths in leadership and management to achieve these goals."

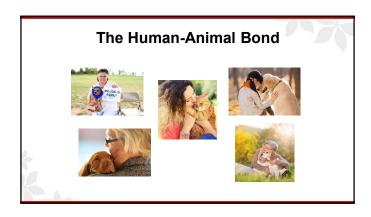
www.onehealthinitiative.com

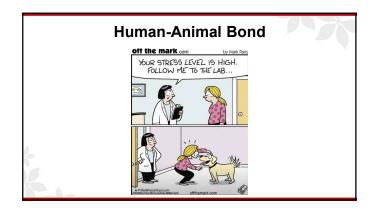
### World Organization for Animal Health:

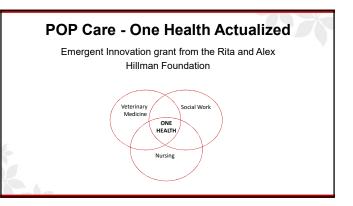
- Approximately 60% of all existing human infectious diseases are zoonotic
- At least 75% of infectious diseases of humans have an animal origin
  - Ebola, HIV, Influenza
- Five new human diseases emerge each year, with three being of animal origin
- An estimated 80% of agents with potential bioterrorist use are zoonotic agents.

www.oie.int

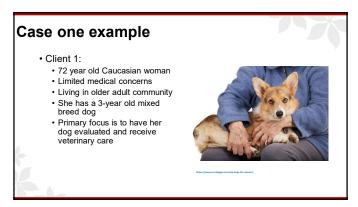










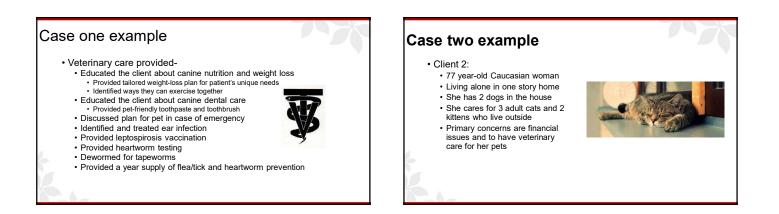


### Case one example

- Patient medical history and findings:
  - Primary care provider (PCP) of patient was identified as having restricted licensure
  - Patient's main medical concern was daily back pain
     Ranked at 7 10/10 on pain scale
     Other participants with features with featur
    - Gabapentin providing no relief
  - Used electronic wheelchair and physically deconditioned
    History of alcoholic liver cirrhosis and ascites
    - Managed by OSU GI/Hepatology
  - In recovery from alcohol use disorder
  - Long-term smoker with COPD

## Case one example NP-led interventions: bentified new PCP > total health and wellness POP cate, rovide: identifien patches and physical therapy. Back pain reduced to 4/12. Henth maintenance Mammogram completed Lung cancer screening completed Scope completed upper G.L. scope completed Working on smoking cessation



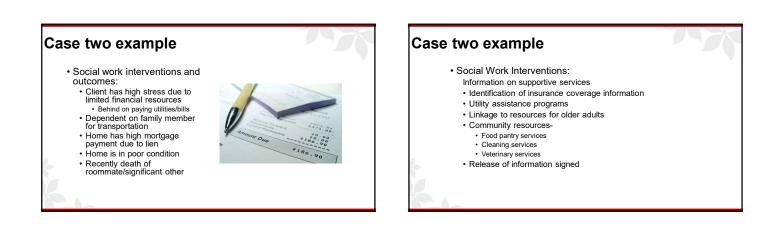


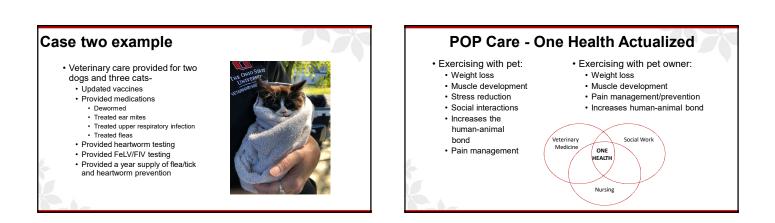
### Case two example

Patient medical history and findings:

- Has a primary care provider that she likes
- Has Medicare coverage
- Needs surgery for bilateral cataracts that cause severe decrease in vision
- Needs dental care and dentures
- History of heart failure and hypertension
- Chronic smoker with self report of no COPD
- Deconditioned and underweight

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### POP Care - One Health Actualized

- Vaccinated pet for zoonotic disease- Leptospirosis
- Flea prevention protects the pet owner as well
- Plan for emergency and hospitalization for pet
  - Reduces anxiety for pet owner so they are more willing to seek medical
  - Protects the pet so that they have a plan for care

### **Evidence-based Tips for Your Own Wellness**

- The optimal state of living well, regardless of an individual's spectrum of health



### Current State of Health in the U.S.

 Overweight and obesity will soon surpass tobacco as the number one cause of preventable death and disease in the United States; 42% of Americans will be obese by 2030; 1 out of 3 Americans will have diabetes by 2050

- CDC

- One out of 2 Americans have a chronic disease yet 80% of chronic disease is preventable with healthy behaviors
- · Heart disease remains the #1 cause of death

Considering *All* Causes of Morbidity and Mortality, Behaviors are the #1 Killer of Americans





## Every Day, We Make Behavioral Choices that Influence our Health and Wellness Outcomes

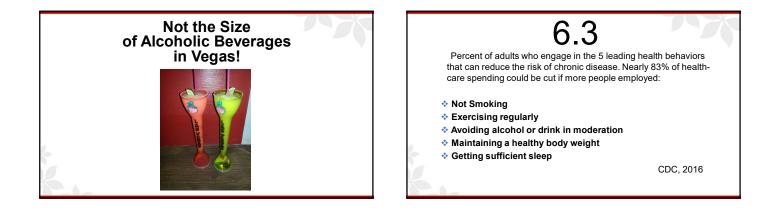


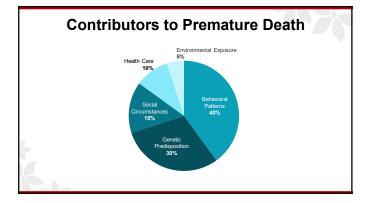
### Based on Evidence, What Do We Know?

People who have the following behaviors have 66% less diabetes, 45% less heart disease; 45% less back pain, 93% less depression, and 74% less stress

- Physical activity 30 minutes 5 days per week
- Healthy eating 5 fruits and vegetables per day
- No smoking
- Alcohol in moderation 1 drink per day for women, 2 drinks per day for men

Getting 7 hours of sleep and regularly engaging in stress reduction will result in even greater reductions in chronic disease.







My Main Reasons for Engaging in Healthy Lifestyle Behaviors: Who are Yours?



