# Community Health Interventions in Wyandotte County, KS & The Development of a One Health Clinic with Community Veterinary Outreach

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Infectious Disease and Zoonoses
April 15, 2022



## Background

From Overland Park, Kansas

 Bachelor's in Biology from Kansas State University

• 3<sup>rd</sup> year veterinary student







## Background

- Field experience with the Unified Government Community Health Division
  - June 1, 2021 July 23, 2021
  - Preceptor: Ms. Bianca Garcia



- Field experience with Community Veterinary Outreach
  - April 4, 2021 December 27, 2021
  - Contact: Dr. Lara Plass







Unified Government of Wyandotte County, KS – Community Health Division

## PART ONE: COMMUNITY HEALTH INTERVENTIONS



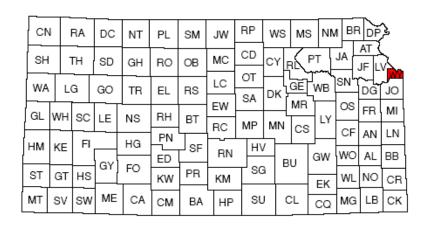
## Wyandotte County, KS



23% Adult Smoking Rate



31% Physical Inactivity Rate





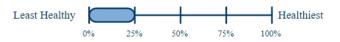


21% Poor or Fair Health

#### Health Outcomes & Health Factors:

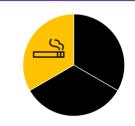
- Length and quality of life
- Health behaviors
- Clinical care
- Social and economic factors
- Physical environment





## Tobacco Free Wyandotte Learning Objectives

 Interpret county-level health information to present a public health issue



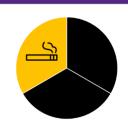
 Systemize research into a health topic pertinent to a specific population

Participate in an inter-agency collaboration



## Youth Tobacco Use 2020 Data

 28% of Kansas high school (HS) students report current use of tobacco products



- In Wyandotte County:
  - 15% of HS students report being offered drugs on school grounds
  - 59% of HS students have not spoken with a trusted adult about the dangers of drugs, alcohol, or tobacco in the last 12 months
  - 19% of HS students perceive no physical harm in people who smoke one or more packs of cigarettes each day



## Effects of Nicotine in Adolescents

- Nicotine = a highly addictive agent
  - Can alter cognitive ability, mood, behavioral control, and sleep in adolescents
  - These effects can manifest as disruptions in the classroom environment



## Teen Tobacco Use in Wyandotte County



28%

Twenty-eight percent of Kansas high school students report current use of any tobacco product including cigarettes, electronic cigarettes, and smokeless tobacco.

This means that in a classroom of thirty,

eight of your students will have nicotine in their system.

Source: https://www.fda.gov/tobacco-products/youth-and-tobacco/get-latest-facts-teen-tobacco-use

Tobacco products contain nicotine, a highly addictive agent. Nicotine greatly affects an adolescent's daily life, causing changes in their cognitive abilities, mood, behavioral control, and sleep.



These effects can impair a student's performance in the classroom, and contribute to a disruptive learning environment.

Source: https://www.sciencedirect.com/science/article/pii/S0749379715000355

### In Wyandotte County







Students report being offered, sold, or given drugs on school property.

Educators can reduce the distribution of drugs on campus through encouraging students to make the commitment to be drug-free

Students have not spoken with an adult about the dangers of tobacco, alcohol, or drug use in the past 12 months.

Teachers and administrators have the potential to educate the majority of students on these issues. Students perceive no physical harm in people who smoke one or more packs of cigarettes each day.

Cigarettes are associated with lifelong damage to the neurological, cardiovascular, and respiratory systems.

Source: https://kctcdata.org/Home/StudentSurvey?SurveyType=KCTC&CodeSelection=CTY&CountyId=10105-0

Studies show that nicotine can impair working memory, selective attention, and emotional processing leading to a lack of focus and impulse control in the classroom.





Teen tobacco use can lead to adverse mood and behavioral changes, inciting higher levels of depression, anxiety, irritability, and restlessness.

Nicotine dependence contributes to poor sleep quality, and students can experience decreased productivity and absenteeism with potential long-term effects on their education.



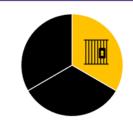
#### Sources:

https://www.sciencedirect.com/science/article/pii/89780128152980000095 https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3762940/ https://www.sciencedirect.com/science/article/pii/S0306460316303768

For more information, visit e-cigarettes.surgeongeneral.gov

## Community Health Improvement Plan (CHIP) Learning Objectives

Identify the best practices in recidivism-reduction programming



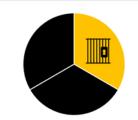
Lead subcommittee discussion of project goals

Create an open-ended survey for local resource organizations



## The Prison Industrial Complex and Recidivism

 The United States has the largest population of incarcerated individuals in the world



Kansas has an incarceration rate of 698 per 100,000 people

- Recidivism: repeated criminal activity
  - Recidivism-reduction programs are designed to prevent justice-involved individuals from re-entering the prison system following their prior release



## Recidivism-Reduction Programming

 Recidivism is a common outcome due to lack of resources, social connections, and opportunity





RISK	Identify an individual's risks
NEED	Assess characteristics that influence risk
RESPONSIVITY	Provided personalized interventions



## Community Health Improvement Plan (CHIP)

 Five year plan under the Community Health Division targeting improvements in:



- Education and jobs
- Healthcare access
- Safe and affordable housing
- Violence prevention



## Community Health Improvement Plan (CHIP)

- Goal of violence prevention
  - Evaluate resources for justice-involved community members in Wyandotte County





**Product 2:** Recidivism-Reduction Presentation



**Product 3:** Justice-Involved Individuals Community Resources Survey



## Infrastructure Action Team Learning Objectives

Understand Complete Streets legislation and its role in public health



Identify performance measures to assess policy implementation

 Guide potential considerations in policy implementation



## Infrastructure in The United States

 The United States' infrastructure built in the 1960s



Designed to promote vehicular speed and cost efficiency

Systemic underinvestment in underserved communities



## Complete Streets

Infrastructure designed at the community level



- Prioritize:
  - User accessibility
  - Public safety
  - Environmental sustainability
  - Health promotion
  - Social equity



## Infrastructure Action Team

 Complete Streets Ordinance passed in November 2020



No project currently underway

INFRASTRUCTURE ACTION TEAM

COMPLETE STREETS ORDINANCE RESOURCES hensley@wycokck.org



Zoom ID: 840 6870 6600

August 12, 2021 IAT Monthly Meeting

Prepared by: Valerie Mombello, MPH Intern for the UG Public Health Department

## CONTENTS

**RESOURCE CATALOG** 

#### PAGE 1 - IMPLEMENTATION GUIDES AND PRACTICES

- The American Planning Association
- · Smart Growth America
- · Minnesota Department of Transportation

#### PAGE 2 - PUBLIC HEALTH LENS

- · Health Impact Reports and Assessments
- Journal Articles

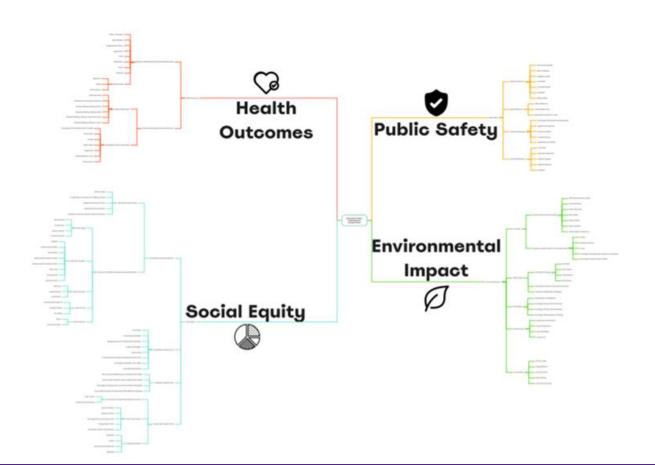
#### PAGE 3 - EVALUATION & SUSTAINABILITY

- Evaluation Guides
- Sustainability Guides

#### PAGE 4 - CASE STUDIES

- Toolkits
- Reports
- Policy Map

## Measuring The Impact of Complete Streets



https://miro.com /app/board/o9J\_ l6jKVEo=/



## Infrastructure Action Team – Product 6

 A Health Impact Checklist guides the thought process through potential health effects

- Assesses the decision's impact:
  - Social factors
  - Economic factors
  - Environmental conditions

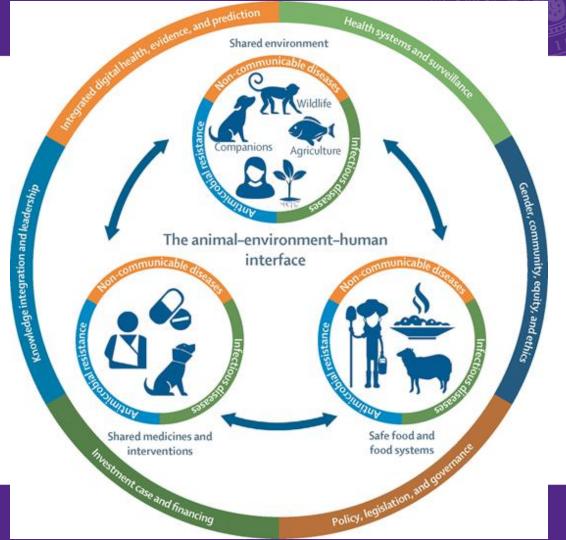




Community Veterinary Outreach

## PART TWO: THE DEVELOPMENT OF A ONE HEALTH CLINIC





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## One Health Clinics

- One Health clinics provide:
  - Human medical care
  - Veterinary care
  - Social services
  - Community resources



## Community Veterinary Outreach (CVO)



 One Health clinics for community members experiencing housing insecurity



## Community Veterinary Outreach (CVO) in Kansas City

- Veterinary care
- Partnerships with human healthcare service providers

- My products are tied to CVO clinics at these locations
  - Street Medicine KC: July 10, 2021
  - Metro Lutheran Ministry KC:
     August 14, 2021







## CVO Utilization and Accessibility Survey Learning Objective

 Understand the needs of CVO participants in terms of their health and their animals' health



## CVO Utilization and Accessibility Survey – Product 7

- Survey goals:
  - Identify veterinary services utilized in present clinics and desired services for future clinics
  - Measure the promotion and convenience of present clinics
  - Identify participant access to veterinary care and human medical services
  - Gauge participant interest in CVO as a fully operational One Health clinic

- Survey Administration:
  - Street Medicine KC (SMKC) July 10, 2021 n=10
  - Metro Lutheran Ministry KC (MLMKC) August 14, 2021 n=13



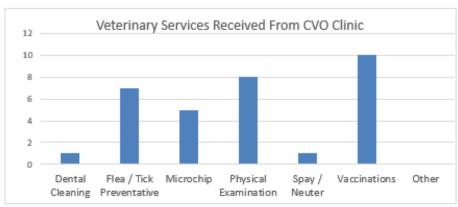


Figure 1 Veterinary services received at the present Community Veterinary Outreach clinic as reported by pet owners. Street Medicine Kansas City (SMKC), 07/10/2021, n=10.

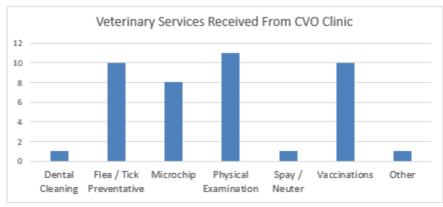


Figure 2 Veterinary services received at the present Community Veterinary

Outreach clinic as reported by pet owners. Metro Lutheran Ministries Kansas City
(MLMKC), 08/14/2021, n=13



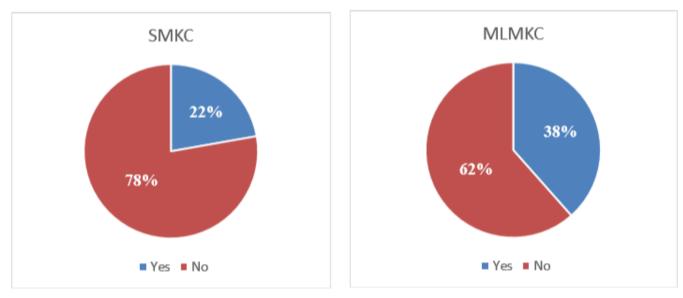


Figure 3 Likelihood that pet would have received veterinary care from another source if not from the present Community Veterinary Outreach clinic. Street Medicine Kansas City (SMKC), 07/10/2021, n=10. Metro Lutheran Ministries Kansas City (MLMKC), 08/14/2021, n=13.



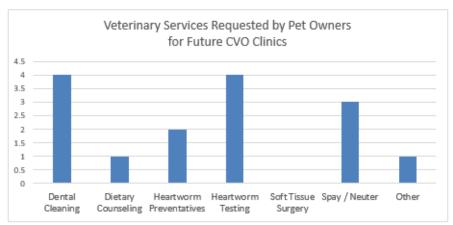


Figure 4 Veterinary services requested by pet owners for future Community Veterinary Outreach clinics. Street Medicine Kansas City (SMKC), 07/10/2021, n=10.

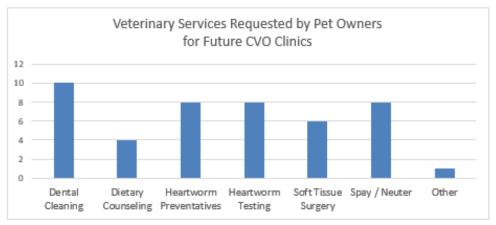
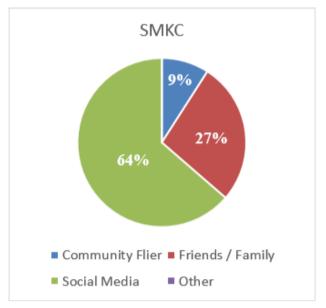


Figure 5 Veterinary services requested by pet owners for future Community Veterinary Outreach clinics. Metro Lutheran Ministries Kansas City (MLMKC), 08/14/2021, n=13.





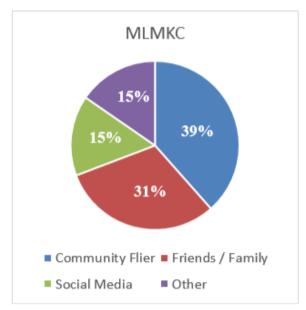
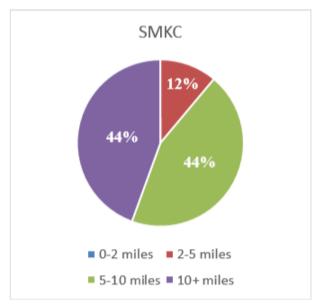


Figure 6 Mode through which pet owners heard about the present Community Veterinary Outreach clinic. Street Medicine Kansas City (SMKC), 07/10/2021, n=10. Metro Lutheran Ministries Kansas City (MLMKC), 08/14/2021, n=13.





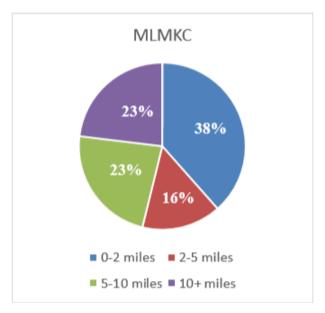
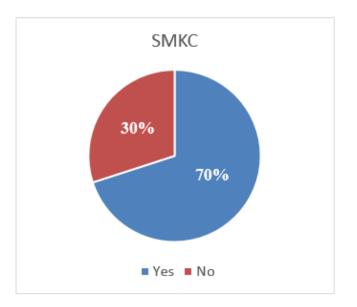


Figure 7 Distance traveled by pet owners to reach the present Community Veterinary Outreach clinic. Street Medicine Kansas City (SMKC), 07/10/2021, n=10. Metro Lutheran Ministries Kansas City (MLMKC), 08/14/2021, n=13.





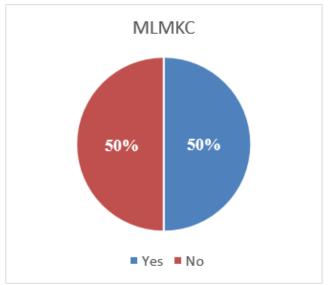


Figure 8 Pet owners at present Community Veterinary Outreach clinic that have a local medical provider for their own health services. Street Medicine Kansas City (SMKC), 07/10/2021, n=10. Metro Lutheran Ministries Kansas City (MLMKC), 08/14/2021, n=13.



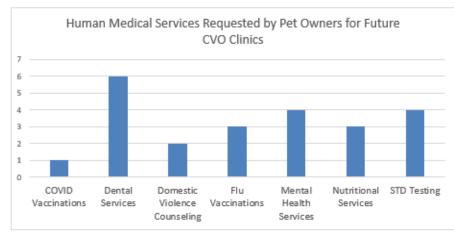


Figure 9 Human medical services requested by pet owners for future Community Veterinary Outreach clinics. Street Medicine Kansas City (SMKC), 07/10/2021, n=10.

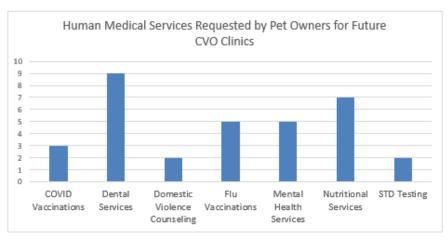


Figure 10 Human medical services requested by pet owners for future Community Veterinary Outreach clinics. Metro Lutheran Ministries Kansas City (MLMKC), 08/14/2021, n=13.



## **Educational Handouts Learning Objective**

 Create effective educational handouts describing medical conditions and needs

## Community Veterinary Outreach (CVO) Educational Efforts

 CVO team expressed a need for educational handouts for pet owners

## Conditions:

- Arthritis in dogs and cats
- Vaccines and vaccine reactions
- Gl upset in dogs and cats
- Diabetes in dogs and cats



### **Arthritis in Dogs and Cats**



Arthritis is a disease present in dogs and cats, just as it occurs in humans. It is a gradual worsening of joints including the knees, hips, and elbows. However, there are some key differences in the causes, clinical signs, and management plans of the condition.



of dogs demonstrate evidence of arthritis on x-rays



of cats ages 0.5-20 years demonstrate evidence of arthritis on x-rays

### Causes of arthritis in dogs and cats:

High impact activities

Large breed dogs

Hip dysplasia as a baby

Poor nutrition

Elbow dysplasia as a baby

Fractures or ligament injuries

Genetics

Obesity

While arthritis is usually diagnosed in older dogs and cats, like in people, it can also happen in younger animals that have an underlying cause that puts them at risk for arthritis.

Challenges getting up and down Lameness in one or

more legs

Loss of endurance or a stiff gait

Does not want to be touched or socialize

Does not want to jump up or down

Does not want to go up or down stairs

Stiff, swollen, or sore ioints

Sudden aggression

### **Management Options**



Weight control



Rehabilitation



Changes in





Pain control or oint supplements

KANSAS STATE UNIVERSITY

If you have guestions, please ask a CVO team member for more information.

### **Vaccines and Vaccine Reactions**



Vaccines are a valuable part of your pet's preventive veterinary care. Vaccination protects your pet from infectious diseases through stimulating the immune system.

Vaccinations recommended by the American Animal Hospital Association

Rabies Virus

Canine Distemper Virus

Canine Adenovirus

Canine Parvovirus

Canine Parainfluenza Virus

Feline Herpes Virus

Feline Calicivirus

Feline Panleukopenia Feline Leukemia Virus

#### While vaccines are important to your pet's health, they can be associated with adverse effects.

Vaccines are an important part of keeping your pet healthy. After vaccinating your pet, we expect to see some mild changes that show the shot is doing its job of stimulating the immune system. These common reactions may only last a few days.

Keeping your pet up to date on vaccines protects them from serious illness, and outweighs the rare risk of your pet having a concerning reaction. If these more serious reactions are seen, you should call your veterinarian as soon as possible.

#### **Common Reactions**

- Decreased activity
- Decreased appetite
- Mild discomfort
- Mild cough
- Mild fever
- Sneezing
- Swelling at injection site lasting less than 3 weeks

### **Concerning Reactions**

- Collapse
- Difficulty breathing
- · Itchy skin with hives
- Swelling of the muzzle, neck, face, or eyes
- Persistent cough
- Persistent diarrhea
- Persistent vomiting
- · Persistent pain or swelling

If you have questions, please ask a CVO team member for more information.





## GI UPSET IN DOGS AND CATS

PUARY 16

A healthy gastrointestinal (GI) tract is central to your pet's health. The GI tract has many functions which must be properly performed to ensure your pet's proper nutrition.

# WHAT IS GI UPSET?

Gl upset is a change in your pet's natural processing of food. Your pet's
Gl tract has many pieces, and a change anywhere in the system can impact your pet's health.

### OTHER CAUSES

- Stomach ulcers or bloatin
- · Infection from bacteria or a viru
- Ingestion of a toxin or poisor
- Reaction to a medication
- Pancreatitis

### **COMMON CAUSES**

- Inconsistent diet or a new change in diet
- Ingestion of foreign objects
- Intestinal parasites
- · Food alleraies or sensitivitie
- Inflammatory bowel disease
- Stress

### **SIGNS**

- Vomiting
- Diarrhea
- Constipation
- Loss of appetite
- Stomach pain
- Dehydration

- Rectal bleeding
- Straining to defecate
- Excess drooling
- Stomach bloat
- Shock

### WHEN TO CALL A VETERINARIAN?

When deciding to contact your veterinarian, consider the severity and frequency of your pet's signs, their behavior, and any recent changes in their diet or the household. If your pet has vomited more than once, or have more than one sign of GI upset, it is a good idea to call your veterinarian. You should always call your veterinarian if you think your pet ate a foreign object and is vomiting; has stomach bloat and is retching; or if you are concerned.



IF YOU HAVE QUESTIONS, PLEASE ASK A CVO TEAM MEMBER FOR MORE INFORMATION.

### **Diabetes in Dogs and Cats**





In health, glucose is delivered to



In a pet with diabetes, the function of insulin is disrupted, and the animal cannot use glucose normally. This means that the body will not have enough energy to carry out daily functions in health.

### Signs that your pet may have Diabetes

- · Drinking lots of water
- · Increased urination
- · Changes in appetite
- Weight loss
- · Changes in attitude
- · Changes in hair coat
- Vomiting
- Cataracts
- · Recurring infections

### Risk factors for dogs and cats



- · Age 6 or older
- · Castrated males
- Physical inactivity
  - Acromegaly

Obesity

Pancreatitis

- · Age 5 or older
- · Intact females
- · Cushing's Disease
- Pancreatitis

to the cells and muscles, allowing the body to function normally.



### **Management Options**

Diabetes is a chronic condition and will require life-long management to support your pet's health.

Management options look different to fit the needs of the pet

If you have questions, please ask a CVO team member for more information.

Sources: AVMA (2021). Diabetic Pets. Kleinert, M. (2018). Animal Models of Obesity and Diabetes Mellitus. Nature Reviews Endocrinology. Rand, J. (2020). Diabetes Mellitus in Dogs and Cats. Small Animal Internal Medicine.



# Community Connections Learning Objective

Construct relationships between like-minded community organizations

# **Community Connections**

 Overarching project of fostering community connections with like-minded organizations



Student-run free clinic at the University of Kansas Medical Center



Organization dedicated to providing medical care to individuals facing housing insecurity in KC



# MPH Foundational Competencies Achieved Part One

Competency Number and Description	Associated Product(s)
7: Assess population needs, assets, and capacities that affect communities' health	Product 2: Recidivism-Reduction Presentation for CHIP Criminal History Subcommittee  Product 3: Justice-Involved Individuals Community Resources Survey  Product 4: Infrastructure Action Team Complete Streets Resource Catalog  Product 7: CVO Utilization and Accessibility Survey
11: Select methods to evaluate public health programs	<u>Product 5</u> : Infrastructure Action Team Complete Streets Performance Measures Flow Chart
13: Propose strategies to identify stakeholders and build coalitions and partnerships for influencing public health outcomes	Product 3: Justice-Involved Individuals Community Resources Survey Product 6: Infrastructure Action Team Complete Streets Model HI-C Product 7: CVO Utilization and Accessibility Survey



## MPH Foundational Competencies Achieved Part Two

Competency Number and Description	Associated Product(s)
18: Select communication strategies for different audiences and sectors	Product 1: Infographic for Youth Resist Coalition Sponsor Toolkit Product 7: CVO Utilization and Accessibility Survey Products 8, 9, 10, 11: Pet Owner Educational Handouts
19: Communicate audience-appropriate public health content, both in writing and through oral presentation	Product 1: Infographic for Youth Resist Coalition Sponsor Toolkit  Product 2: Recidivism Reduction Presentation for CHIP Criminal History Subcommittee  Product 4: Infrastructure Action Team Complete Streets Resource Catalog  Product 5: Infrastructure Action Team Complete Streets Performance Measures Flow Chart  Products 8, 9, 10, 11: Pet Owner Educational Handouts
21: Perform effectively on interprofessional teams	Product 1: Infographic for Youth Resist Coalition Sponsor Toolkit Product 3: Justice-Involved Individuals Community Resources Survey Product 7: CVO Utilization and Accessibility Survey

# Infectious Disease and Zoonoses Competencies

IDZ E	Emphasis Area Competency	Description of Competency
1	Pathogens/pathogenic mechanisms	Evaluate modes of disease causation of infectious agents.
2	Host response to pathogens/immunology	Investigate the host immune response to infection.
3	Environmental/ecological influences	Examine the influence of environmental and ecological forces on infectious diseases.
4	Disease surveillance	Analyze disease risk factors and select appropriate surveillance.
5	Disease vectors	Investigate the role of vectors, toxic plants and other toxins in infectious diseases.

Details for all listed emphasis area competencies can be found in Chapter 6 of ILE Report



# Acknowledgements

- Committee
  - Dr. Kate KuKanich
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  - Dr. Ellyn Mulcahy
  - Ms. Barta Stevenson
- CVO Team
  - Dr. Lara Plass
  - Ron Orchard
- Friends and Family



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