Master of Public Health

Applied Practice Experience

VETERINARY HOSPITAL EVALUATIONS AND SUGGESTIONS TO MAXIMIZE USABILITY FOR CLIENTS WITH MOBILITY DISABILITIES & PROMOTING PUBLIC HEALTH THROUGH PET THERAPY

by

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submitted in partial fulfillment of the requirements for the degree

MASTER OF PUBLIC HEALTH

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Chapter 1 - Portfolio Products

My Applied Practice Experience (APE) consisted of two parts. The first was a project focused on evaluating the usability of veterinary hospitals for people with mobility disabilities. This was a collaborative effort between Kansas State University and the Kansas Disability and Health Program. This usability project involved of two main components – veterinary hospital evaluations and a survey. My major professor, Dr. KuKanich, and I, visited 10 veterinary hospitals in Kansas to evaluate their usability for people with mobility disabilities after being trained and certified by the Community Health Environment Checklist for Mobility (CHEC-M). Each veterinary hospital received an individualized report created by our research team describing usability strengths as well as short- and long-term suggestions for areas of improvement (Appendix 2). In addition to performing veterinary hospital visits, a survey was distributed to Kansas veterinarians online and at a local conference to collect additional baseline data (Appendix 1). In order to continue spreading awareness of potential usability concerns in Kansas veterinary hospitals, our research team created an educational flyer titled, "Top 10 Ways to...Maximize Usability of Your Veterinary Hospital for Clients with Mobility Disabilities". We plan to share this with many veterinarians through an article in the Journal of the American Veterinary Medical Association (JAVMA) and additional presentations in the future. Finally, a research poster was created to summarize this project and was presented during an oral poster session at the annual Kansas State University Research and the State poster session and KSU College of Veterinary Medicine Phi Zeta Research Day (Appendix 3).

The second part of my APE focused on promoting public health through pet therapy. I partnered with the Riley County Health Department (RCHD) to complete this portion of my APE. The difference between service, therapy and emotional support animals can be confusing. The news has recently been filled with reports about fake service animals in grocery stores and unusual emotional support animals, like peacocks, boarding planes. These untrained and uncertified animals pose health and safety risks to the public, making it imperative that pet owners do not falsely claim their pets are service or emotional support animals. Therefore, it is important for the public to be educated about what defines a service, therapy, and emotional support animal. This was the focus of the assistance animal flyer that was created and distributed at the RCHD's annual influenza vaccine event called Okt-FLU-ber Fest (Appendix 4). In addition to the flyer, I created a fun game for kids to play to teach them about how to recognize safe and concerning dog body language in dogs and how to safely approach dogs (Appendix 5). Several volunteers

and I interacted with children about the difference between therapy and service animals and the importance of not approaching a service animal in public because they are busy doing a critical job for their owner and need to stay focused on the task at hand.

The products produced from my APE address many of the Master of Public Health (MPH) foundational competencies and helped me to practice skills I will utilize in my future career.

Table 1.1 Summary of Portfolio Products

Ро	rtfolio Product	Description		
		An individualized report was created for		
	Veterinary Hospital Evaluation Reports	each hospital describing strengths as well		
1		as short and long-term suggestions for		
		areas of usability and accessibility		
		improvement.		
		A survey (n=59) was created and		
		distributed to Kansas veterinarians online		
		and at a local conference. Topics covered		
2	Usability Survey	in the survey included demographics of the		
_	Osability Survey	veterinarians, their experience with serving		
		clients with disabilities, and their ability to		
		self-assess their veterinary hospitals for		
		accessibility and usability barriers.		
	"Top 10 Ways toMaximize Usability of	An educational flyer was created and will		
3	Your Veterinary Hospital for Clients with	be distributed to many veterinarians via a		
	Mobility Disabilities" Flyer	JAVMA article in the future (if accepted).		
		A research poster summarizing the study		
		focused on evaluating usability and raising		
		accessibility awareness for veterinary		
4	Research Poster	clients with mobility disabilities was created		
		for and presented at the KSU Research		
		and the State poster session and Phi Zeta		
		Research Day.		
5	Assistance Animal Flyer	A flyer was created describing the		
5	Assistance Atlinial Flyer	differences between service, therapy, and		

		emotional support animals, along with the
		basics of service animal etiquette and the
		steps to safely approach dogs in public.
		These flyers were distributed to the public
		at the RCHD's annual Okt-FLU-ber Fest flu
		vaccine event.
		A poster-board game was designed to
		facilitate interactions with children at the
6	Children's Interactive Animal Behavior	Okt-FLU-ber Fest event to teach them
(Game	about assistance animals, learning how to
		approach dogs, and recognizing safe and
		concerning body language in dogs.
		A new service organization called Paws for
		People (P4P) was founded and consists of
		students, faculty, staff, and community
		members who have a passion for therapy
		animals and the human-animal bond. P4P
	Device for Device Consideration	provides a streamlined communication tool
7	Paws for People Organization	designed to promote connections between
		certified therapy animal handlers and
		places in the community interested in
		receiving pet therapy visits. The mission of
		P4P is to promote public health through pet
		therapy.

Table 1.2 Portfolio Products and Competency Addressed

Portfolio Product			Number and Competency Addressed			
1	Veterinary Hospital Evaluation Report	18, 16	16 – Apply principles of leadership, governance, and management, which include creating a vision, empowering others, fostering collaboration, and guided decision making 18 – Select communication strategies for different audiences and sectors			
3	"Top 10 Ways toMaximize Usability of Your Veterinary Hospital for Clients with Mobility Disabilities" Flyer	18, 21	18 – Select communication strategies for different audiences and sectors 21 – Perform effectively on interprofessional teams			
4	Research Poster	4, 19	4 - Interpret results of data analysis for public health research, policy or practice 19 - Communicate audience-appropriate public health content, both in writing and through oral presentation			
5	Assistance Animal Flyer	18	Select communication strategies for different audiences and sectors			
6	Children's Interactive Animal Behavior Game	18	Select communication strategies for different audiences and sectors			
7	Paws for People (P4P) Organization	16, 21	16 – Apply the principles of leadership, governance, and management, which include creating a vision, empowering others, fostering collaboration, and guided decision making 21 – Perform effectively on interprofessional teams			

Chapter 2 - Competencies

Table 2.1 Summary of MPH Foundational Competencies

NI	shan and Campustanas	Description
Nun	nber and Competency	Description
4	Interpret results of data analysis for public health research, policy, or practice	Through analysis of the data collected from the usability survey and hospital evaluations, patterns and trends were recognized and used to identify common areas for potential improvement of usability in veterinary hospitals. This information from data analysis was used to create the "Top 10" flyer, hospital reports, and research poster.
16	Apply principles of leadership, governance, and management, which include creating a vision, empowering others, fostering collaboration, and guided decision making	Through the creation of a service organization, Paws for People, I was able to apply many principles of leadership and management as I began with a vision and then worked to gather a team and foster collaboration to turn my vision into reality. Through this organization I feel that I have empowered other students and community members by providing opportunities to increase their knowledge about therapy animals and to give back to their community through service. I also applied this competency when working on the individualized hospital reports as I worked to gain feedback and collaborate with others on our research team. Our hope is that these reports empowered other veterinarians to become more attentive to usability concerns within the profession and potentially make changes to their own hospitals to increase usability for clients with mobility disabilities.
18	Select communication strategies for different audiences and sectors	When producing the hospital reports, Top 10 flyer, animal assistance flyer, and animal behavior game it was important to take into consideration what audience I was trying to reach and how I could best communicate with that audience. By taking into account the target audience, communication of public health topics can become more effective.

19	Communicate audience-appropriate public health content, both in writing and through oral presentation	This competency was applied when writing many of my APE products and when presenting my research poster at KSU Research and the State poster competition and at Phi Zeta Research Day.
21	Perform effectively on interprofessional teams	Working on interprofessional teams was a rewarding and major part of my MPH APE. I had the privilege of working closely with Dr. Dot Nary who works for the Kansas Disability and Health Program. I also collaborated with many therapy animal handlers who work outside of veterinary medicine, one a piano teacher and another a librarian. Additionally, I was welcomed onto the Raising Riley team this past summer at the RCHD.

The work I completed and products produced from my Applied Practice Experience helped me exercise many MPH Foundational Competencies. I will focus on the five that applied most directly to my work which include numbers 4, 16, 18, 19, and 21.

By analyzing data from both the usability survey and veterinary hospital visits, I fulfilled MPH foundational competency #4 which is "interpret results of data analysis for public health research, policy, or practice". Through analysis of these data, I was able to understand more clearly the current awareness of usability and accessibility concerns amongst veterinarians as well as begin to see trends in areas for potential improvement, such as lowering reception counters and increasing the size of restrooms. This part of my MPH APE allowed me to practice transforming data into a meaningful narrative for different audiences in order to promote positive change in the veterinary community by increasing awareness of usability for clients with mobility disabilities.

Foundational competency #16 states "apply principles of leadership, governance, and management, which include creating a vision, empowering others, fostering collaboration, and guided decision making". This competency was addressed in both my usability project and my therapy animal project. Creating a new service organization, Paws for People, required many principles of leadership including organizational skills, creating vision, gathering and managing a team, and fostering interdisciplinary collaboration. It also took a collaborative effort to complete the veterinary hospital evaluations and scoring as well as writing the individualized reports for each of the ten hospitals visited. Having the opportunity to practice leadership and management skills through my MPH experiences will be a benefit to my future career.

Selecting communication strategies for specific audiences is critical to conveying information effectively. I believe one of the biggest keys to the success of my MPH APE was communication. I communicated with many veterinarians during hospital evaluations, and then our team worked to develop organized reports of each hospital's strengths and areas for improvement. I exercised interdisciplinary communication when exchanging ideas and edits with Dr. Dot Nary from the Kansas Disability and Health Program. I also worked alongside the Raising Riley Program staff at the Riley County Health Department. For the Okt-FLU-ber Fest event I determined who my audience would be and how to best engage them. This is why I choose a fun game for engaging children in how to interpret safe and concerning dog body language, and the steps to approaching a dog in public. A simple easy-to-read flyer was distributed for older children and adults explaining the differences and similarities between therapy, service, and emotional support animals. I fulfilled foundational competency #18 through the many opportunities I had to practice communication skills, and determine how to communicate most effectively with specific audiences.

Another foundational competency that I utilized during my APE was #19, which entails communicating audience-appropriate public health content, both in writing and through oral presentation. I had two opportunities to formally present my veterinary hospital usability research. I created a research poster which I presented at the KSU Research and the State poster competition as well as at Phi Zeta Research Day at the Kansas State University College of Veterinary Medicine. These events gave me the opportunity to greatly improve upon my communication skills both orally and in writing.

I attained foundational competency #21, which is to perform effectively on interprofessional teams, by collaborating with Dr. Dot Nary (PhD) at the Kansas Disability and Health Program as well as Megen Devine (Editorial Professional) at the occupational training program at Washington University in St. Louis who provided the CHEC-M training and completed the scoring for each veterinary hospital evaluation. Through the therapy animal project, I had the opportunity to meet and work with several individuals who work in areas other than veterinary medicine and public health, including a piano teacher, preschool teacher, and librarian. I also worked with Early Childhood Facilitators on the Raising Riley team during my time at the Riley County Health Department (RCHD). By doing an internship with the RCHD, I was able to learn more about the breadth of important work that goes on within our local health department and how it is structured as well as gain additional knowledge about our U.S. health care system.

My APE prompted me to exercise many of the MPH foundational competencies and refine skills such as leadership, written and oral communication, and interdisciplinary teamwork.

Table 2.2 MPH Foundational Competencies Course Mapping

22 Public Health Foundational Competencies Course Mapping	MPH 701	MPH 720	MPH 754	MPH 802	MPH 818
Evidence-based Approaches to Public	Health				
Apply epidemiological methods to the breadth of settings and situations in public health practice	х		х		
Select quantitative and qualitative data collection methods appropriate for a given public health context	х	х	х		
3. Analyze quantitative and qualitative data using biostatistics, informatics, computer-based programming and software, as appropriate	х	х	х		
4. Interpret results of data analysis for public health research, policy or	х		х		
practice Public Health and Health Care Systems	oms				
5. Compare the organization, structure and function of health care,					
public health and regulatory systems across national and international settings		x			
6. Discuss the means by which structural bias, social inequities and racism undermine health and create challenges to achieving health equity at organizational, community and societal levels					х
Planning and Management to Promote	Health				
7. Assess population needs, assets and capacities that affect communities' health		х		х	
8. Apply awareness of cultural values and practices to the design or implementation of public health policies or programs					х
9. Design a population-based policy, program, project or intervention			х		
10. Explain basic principles and tools of budget and resource management		х	х		
11. Select methods to evaluate public health programs	х	Х	х		
Policy in Public Health					
12. Discuss multiple dimensions of the policy-making process, including the roles of ethics and evidence		х	х	х	
13. Propose strategies to identify stakeholders and build coalitions and partnerships for influencing public health outcomes		х		х	х
14. Advocate for political, social or economic policies and programs that will improve health in diverse populations		х			х
15. Evaluate policies for their impact on public health and health equity		Х		Х	
Leadership					
16. Apply principles of leadership, governance and management, which include creating a vision, empowering others, fostering collaboration and guiding decision making		х			х
17. Apply negotiation and mediation skills to address organizational or community challenges		х			

22 Public Health Foundational Competencies Course Mapping	Health Foundational Competencies Course Mapping MPH MPH MPH 701 720 754 802				
Communication					
18. Select communication strategies for different audiences and sectors DMP 815, FNDH 880 or KIN 79			796		
19. Communicate audience-appropriate public health content, both in writing and through oral presentation	DMP 815, FNDH 880 or KIN 796				
20. Describe the importance of cultural competence in communicating public health content	x x			х	
Interprofessional Practice					
21. Perform effectively on interprofessional teams	x x		Х		
Systems Thinking					·
22. Apply systems thinking tools to a public health issue			х	х	

Appendix 1: Usability Survey

Survey Investigation into Awareness and Accessibility for Clients with Disabilities at Veterinary Practices in Kansas

1.		many years have you been working in eterinary profession?	5.	Choose the answer that best desc patients of your veterinary practic			he
	b.	Less than 1 year 1 - 5 years 5 - 10 years		a.		predominant (great gs, cats, pet birds et pets)	er
•		Greater than 10 years		b.	than 75% foo	l predominant (great od animal and/or	er
2.		_		C.	at least 25%	al (varied species wit from companion 25% from either food uine)	
	d. e.	4 5+	6.	comn	ur time of wor	king in the veterinar ou ever served client	
3.		se the answer that best describes the aphic location of your practice.		Ye	·	No	
			7.	•	lients with disa	e of work do you ser abilities? (circle one) No	
	e. f.	Central Kansas I do not practice in Kansas	8.	check	any disabilitie	s to question #7, plea es you have recogniz	ed
4.		se the answer that best describes the al location of your veterinary ce.		in your clientele, including el a. Mobility b. Cognitive		_	S.
		Rural (less than 10,000 people) Suburban (10,000 to 100,000 people)		d.	Sight Hearing Other:	-	
	c.	Urban (Greater than 100,000 people)	9.	veter		ny specific areas in yo that clients have cle one)	our

Yes

No

If yes, please share details of concern or	Yes (I measured, and at least part of
suggestions for change:	our counter is 36 inches from the floor
	or lower)
	Yes (I <u>did not measure</u> , but I think our
	counter is low enough)
,	No (I measured, and all of our counte
	is 36 inches from the floor or higher)
	No (I <u>did not measure</u> , but I do NOT
10. Are you comfortable with your knowledge	think our counter is low enough)
of the current ADA (Americans with	think our counter is low chough)
Disabilities Act) requirements for	14. Have you ever made or considered making
accessibility? (circle one)	accessibility improvements to your
(https://www.ada.gov/2010_regs.htm)	practice to better accommodate your
	clients? (circle one)
Yes No	chemis: (cheic one)
11. Does your practice have one or more	Yes No
designated parking spaces with adjacent	If yes, please provide a short description of
access aisles (at least 16 feet wide) for	the changes that were made or considered
clients with disabilities?	(i.e. van-accessible parking spaces, etc.)
	(i.e. van-accessible parking spaces, etc.)
Yes (I measured, and at least 1 parking	
space & aisle together measure 16 feet	
wide)	
Yes (I <u>did not measure</u> , but think 1	
parking space & aisle together measure	
16 feet wide)	
No (I measured, and we don't have a	
parking space & aisle together	
measuring 16 feet wide)	15. Have you encountered barriers in
No (I did not measure, and I don't	improving accessibility? Please check all
think we have a parking space & aisle	that apply.
together measuring 16 feet across)	
	No, I have not encountered barriers
12. Does your practice have a step-free	Lack of knowledge about what is
entrance for people who use a wheelchair	required, recommended, and helpful
or walker? (circle one)	Expense
Yes No	Lack of space
	Lack of support or agreement among
13. Does your practice have any reception	colleagues
counter low enough so that a person using	Other: (comment below)
a wheelchair could comfortably interact	
with your staff? The goal is to have a	
portion of the reception counter 36 inches	
from the floor or lower.	

- 16. How confident are you in meeting the specific needs of your clients with disabilities? (circle one)
 - a. Not confident
 - b. Somewhat confident
 - c. Very confident
- 17. How confident are you in your ability to correctly and respectfully speak to or refer to clients with disabilities? (circle one)
 - a. Not at all confident
 - b. Somewhat confident
 - c. Very confident
- 18. Do you feel that the veterinary community as a whole (veterinarians, veterinary technicians, receptionists, etc.) would benefit from further education regarding ways to improve their service to individuals with disabilities? (circle one)

Yes No

- 19. How receptive are you to further education on ways to best serve clients with disabilities? (circle one)
 - a. Not at all receptive
 - b. Somewhat receptive
 - c. Very receptive

much appreciated

VETERINARY PRACTICE ASSESSMENT AND SUGGESTIONS TO MAXIMIZE USABILITY FOR CLIENTS WITH DISABILITIES

ANIMAL HOSPITAL

(IDENTIFYING INFORMATION REMOVED TO MAINTAIN ANONYMITY)

Kansas State University | Emma Winkley | September 11, 2018

CHEC EVALUATORS:

Dr. Kate KuKanich (DVM, PhD, Dip ACVIM (SAIM), Kansas State University)

Ms. Emma Winkley (DVM/MPH student, Class of 2020, Kansas State University)

PROJECT COLLABORATOR:

Dr. Dot Nary (PhD, University of Kansas, the Kansas Disability and Health Program)

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COVER LETTER

Dear Doctor:

Thank you for participating in the One Health collaborative study "Investigation into the Awareness and Accessibility for Clients with Disabilities at Veterinary Practices in Kansas." This study was a joint effort between Dr. Kate KuKanich, Ms. Emma Winkley, and Dr. Dot Nary. The goal of this study was to evaluate veterinary practices in Kansas for usability for clients with mobility-related disabilities, and to provide practical suggestions for improvement if indicated. The investigators had formal training using a standardized Community Health Environment Checklist for people with mobility limitations (CHEC-M), an online tool that can help people in the community determine if a facility such as a veterinary hospital will be accessible for their needs. The following report summarizes an evaluation of your hospital, providing strengths and suggestions for ways to improve usability in both the short and long-term as well as the CHEC score. Additional resources have been included at the conclusion of the document. We thank you again for your participation in this study and your continued efforts in providing excellent service to the veterinary clients and pets in our Kansas community. We would be happy to further discuss any aspects of this report with you at your convenience.

Sincerely,

Kate KuKanich, DVM, PhD, ACVIM (SAIM)

Emma Winkley, DVM/MPH student, Class of 2020

Dot Nary, PhD

Kate Kukanich

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UNDERSTANDING AND INTERPRETING THE CHEC (COMMUNITY HEALTH ENVIRONMENT CHECKLIST)



WHAT IS THE CHEC?

The CHEC is a tool to measure how usable public spaces are for people with disabilities. It is **not** a comprehensive ADA assessment, but rather is a usability tool focusing on key concerns identified by people with disabilities.

The CHEC was developed by researchers at the Washington University School of Medicine in St. Louis. This tool is used to assess public spaces like restaurants, stores, doctor's offices, and now, veterinary practices. CHEC assessors are trained to complete a standardized evaluation of measurable features in a site, which produces a score based on 100 as the optimum.

Please consider watching this brief 2 minute video produced by the University of Kansas Research and Training Center on Independent Living to learn about the CHEC program: https://www.youtube.com/watch?v=2v]HjBIxS2s.

CHEC ASSESOR TRAINING:

The goal of this project was to assess the usability of veterinary practices for people with mobility disabilities. To reach this goal, Dr. KuKanich and Ms. Winkley received formal training and were certified through the CHEC program to perform a standardized usability evaluation of community sites.

CHEC SCORING:

After completing veterinary practice evaluations, results were provided anonymously (not labeled as to which practice they are linked to) to the CHEC developers at Washington University who then converted the evaluation results into 3 section scores (Entrance, Using the Building, and Restroom) and determined an overall score with 100 as optimum. These scores have been included in this confidential report.

DETAILED TOUR OF THE CHEC WEBSITE:

The CHEC website is a unique and helpful tool for people with disabilities to "check-out" how usable a specific site is, such as a store, restaurant, or medical facility, before they travel. For a specific example of how the CHECpoints interactive website can be used, please click on the following link: http://checpoints.com/. Once there, please click on the dropdown menu that reads "State" and select KS, then click the dropdown menu that reads "Select a category" and

select "Restaurants." Then click "search." The google map will highlight any restaurants in KS that have been evaluated through the CHEC program and have had their evaluations uploaded onto the CHECpoints map. Next, click the red marker pointing to Wamego, KS and you will find that the famous Toto's Tacos restaurant in Wamego has received a CHEC evaluation. Next, click on "Open Page." This will take you to details of the CHEC evaluation for Toto's Tacos restaurant. If you scroll down the page slightly you will see the overall evaluation scores, but if you click on the tab "CHEC-M", which stands for CHEC mobility, you will be able to see a detailed breakdown of the evaluation. Feel free to play around with this site. Make sure to check-out how many doctor's offices have been evaluated in Missouri using the dropdown menu options! The CHEC program was initiated in Missouri and is just starting to include Kansas locations; at this point, no veterinary practices have been included on the CHEC website.

The CHEC scores and report for the veterinary practices included in this study are strictly confidential. Information collected during visits and submitted to obtain scores was anonymous, without including practice or veterinarians' names. You may give consent to have your practice's scores and evaluation included on the CHECpoints interactive map to benefit clients with disabilities. This would make your results available online so clients could find your veterinary practice on the website. If you would like to discuss the possibility of having your practice's results included on the CHEC website, please contact Dr. KuKanich to discuss this option; this would require an additional consent form to be signed and will not happen without your written consent.

CHEC-MOBILITY EVALUATION FORM:

Appendix A (pages 17-21) shows an example of the CHEC form used to evaluate each veterinary practice.

ENTRANCE

STRENGTHS OBSERVED:

Multiple van-accessible parking spaces and access aisles are present and are sufficiently wide (greater than 16 feet), giving clients using a wheelchair the ability to park and exit their vehicle safely and comfortably. It is ideal that these parking spaces and access aisles together measure at least 16 feet wide to allow plenty of room for a van's side door, lift, and/or ramp (see images below). (For further information, please visit the link in #9 of the additional resources on page 16)





- □ The accessible parking spaces are marked with an accessible sign and are adjacent to the most accessible entrance. Signs that are easily recognizable allow clients with disabilities to effortlessly find and use the most accessible entrance.
- The pathway to enter the building is clear, wide, and has a gently sloped sidewalk. There is a curb ramp directly beside each of the accessible parking spaces, and the sidewalk would be easy for a person with a mobility disability to maneuver.
- The first entrance door was propped open. Although this first entrance door to enter the strip mall walkway will likely not always be able to be propped open due to weather, it is helpful and welcoming for clients with disabilities, especially mobility disabilities, to not have to maneuver through two entrance doors.
- The entrance doors are both sufficiently wide (38 inches). This is a valuable feature for your clients who use wheelchairs or walkers.

AREAS FOR IMPROVEMENT:

The entrance to your building is very accessible. One minor area for improvement is maintenance of the cracks at the top of the curb ramps. At the top of one of the curb ramps near the entrance of your hospital there are pretty significant cracks. Over time these could become problematic to people using mobility devices. Clients using wheelchairs can use the other curb ramps to avoid these cracks, but it would not be obvious to them from the parking lot which route is the smoothest.



□ The entrance doors are heavy and may be difficult for some clients to open.

SUGGESTIONS FOR IMPROVEMENT:

SHORT-TERM SUGGESSTIONS

- Even with an accessible parking lot and entrance it can be challenging for a client with a disability or an elderly client to maneuver with a pet into the hospital. It can be very helpful if the front desk staff is aware when clients who might benefit from extra assistance arrive and have a staff member assist them in entering the building with their pet when possible. Consider having an alert on the schedule when such clients are known to be coming in and watching for them to arrive. Alternatively, if permitted by the other stores in the area, you could post a sign directly beneath the accessible parking signs that states something along the lines of "For assistance into the building call 785-537-8482. We are happy to help".
- Consider filling in the cracks at the top of the curb ramps near the entrance to your hospital. Keeping the route to the accessible entrance free of loose gravel, large cracks, debris, and uneven pavement can make the path much safer and welcoming.

LONG-TERM SUGGESTIONS

If front entrance doors are to be replaced it is recommended that either automatic (ideally) or lightweight entrance doors be installed. Automatic doors are an added bonus to help all of your clients easily enter the building. They are especially helpful to have at the entrance to veterinary practices because the client does not have to worry about opening a door while also bringing in their pet(s). As this may not be feasible right away, encouraging staff to help clients from the car into the hospital when needed, including opening doors for them, might be greatly appreciated and would remove the potential challenge of opening a heavy door for some clients. Visit the link in #12 of the Additional Resources on page 16 to learn about ways to make a door automatic.

USING THE BUILDING

STRENGTHS OBSERVED:

- The friendly staff are always available to help their clients. Having staff who are cognizant of specific clients who may need extra assistance and being eager to provide this assistance to these clients is important for optimal client service and satisfaction.
- □ Although the entire reception counter is higher than 36 inches from the floor (42 inches), there is open space beside the counter allowing for comfortable interaction between front desk staff and clients using a wheelchair. Your hospital's design of open space beside the high counter is a valuable feature for clients who use wheelchairs.
- □ **The small animal lobby has an open layout.** This allows clients using a wheelchair or other mobility device to easily make their way to the front desk.
- The seating arrangement in the lobby allows a person with a mobility device to remain in line with other seats (i.e. not sticking out in the aisle or blocking passageways). This type of arrangement can make clients who use wheelchairs feel more welcomed and comfortable. Training front desk staff to regularly check to make sure there is at least one open space in line with the other chairs for a client using a wheelchair would be very helpful in order to maintain this strength.
- All doorways and public pathways are wide, open, and clear, creating a comfortable environment in which clients and their pets can move.
- The exam room on the right (nearest to the restroom) is large, providing an uncrowded setting for clients. There is plenty of space within this exam room for clients with mobility devices to move about with their pet(s). Large exam rooms are a great accommodation that your hospital provides.
- □ Interior doors (exam room doors) are light enough to be opened with the strength of only two fingers and are sufficiently wide (35.5 inches). Light and wide doors like the ones within your practice are a valuable feature.
- □ While visiting front desk staff were observed offering water and coffee to their clients. This is a very nice service to all your clients.

AREAS FOR IMPROVEMENT:

The entire reception counter is higher than 36 inches from the floor. The current height of the reception counter can make the interactions between staff and a client using a wheelchair challenging and may make the client feel uncomfortable or less welcomed. Again, the open space beside the counter is helpful, but having at least a portion of the counter lowered would be ideal.

SUGGESTIONS FOR IMPROVEMENT:

LONG-TERM SUGGESTIONS

□ If the reception counter at your hospital is renovated or replaced, explore the possibility of lowering at least a portion (ideally at least 36 inches wide) to be no higher than 36 inches from the floor. In the meantime, continue to encourage reception staff to use the open spaces beside the reception counter to interact with clients using wheelchairs more directly, rather than over the tall counter itself.



RESTROOM

STRENGTHS OBSERVED:

- □ **The location of the restroom**. The restroom is directly next to the lobby making it easy to find and access.
- □ The restroom door can be opened in both directions using the strength of only 2 fingers and is sufficiently wide.
- □ **Grab bars are available and are sturdily mounted close to the toilet**. These allow for safe transfers.
- The sink, soap, paper towel dispenser, and light switch are all no more than 48 inches from the floor. The height of these important restroom features allows clients who use wheelchairs to reach them.

AREAS FOR IMPROVEMENT:

- □ **The current handle on the restroom door is a round knob.** This circular type of handle can be challenging for some people who have limited hand dexterity.
- □ The restroom does not have a 5 foot circular open space to access the sink/soap/paper towel features. This is a helpful design element for people who use wheelchairs or walkers. Although the restroom does not have this 5 foot open space around these restroom features, it is a fairly spacious restroom, measuring 53 inches x 98 inches.
- There is a vanity style sink in the restroom (i.e. there is not clear space under the sink for knee clearance). Without space underneath the sink clients using wheelchairs may not be able to comfortably reach the faucet and soap to wash their hands.

SUGGESTIONS FOR IMPROVEMENT:

SHORT-TERM SUGGESTIONS

□ Consider changing round door knobs to more of a lever style handle so that they could be opened with a closed fist. This style of door opener is considered more usable for people who may not be able to grip and turn a circular knob.



LONG-TERM SUGGESTIONS

Consider installing a new sink in the restroom that has open space beneath it for knee clearance for those using wheelchairs. It is recommended that the bottom of the sink measures at least 29 inches from the floor and that the sink rim is no higher than 34 inches from the floor.

CHEC-MOBILITY SCORES

These scores are based off a 100 point system, with 100 as optimal. Rather than focusing solely on the score, we encourage you to focus on your hospital's strengths, areas for improvement, and suggestions for improvement in the short and long-term described above. These scores are confidential and will only be included on the CHEC website should you choose and with your signed consent.

ENTRANCE: 91.23

USING THE BUILDING: 100.00

RESTROOM: 75.90

TOTAL: 91.82

REASONS FOR REDUCTIONS (DETAILED EXPLANATIONS ABOVE)

- Heavy entrance door
- Restroom does not have at least a 5' diameter space to access sink/soap/dryer features
- Restroom does not have clear space under sink for knee clearance

CONCLUSION

Overall, the veterinary practices assessed in this study were found to be quite usable for clients with mobility disabilities. As many veterinary practices are located in older buildings with structural limitations, several common challenges were recognized among these practices. While structural changes may be challenging to implement, additional short-term suggestions included in this report may also be quite helpful to advance usability, and ultimately, improve service to clients with disabilities. Creating and maintaining accessible and usable veterinary hospitals is inviting to people with disabilities and allows them the ability to participate fully in their pet's veterinary care. To view a summary of the areas consistently observed for improvement after visiting all participating veterinary practice's click on the link in #10 of Additional Resources below on page 16 or view Appendix C on page 23.

If you would like to discuss having your hospital's scores be uploaded to the CHECpoints.com website for the benefit of people with disabilities, elderly home care takers, etc. please email Dr. Kate KuKanich at kstenske@ksu.edu and she will call you to discuss this further and have you sign the consent form seen in Appendix B (page 22). Again, your scores are currently confidential and will remain so unless further consent is granted by you to add them to the CHEC interactive map. Should your hospital undergo renovations or changes where accessibility/usability improvements are made, an optional follow-up visit and re-evaluation/rescoring opportunity can be scheduled if you are interested; please contact Dr. Kate KuKanich to schedule a time at your convenience.

Thank you again for participating in this important study. If you would like to discuss anything further or have any additional questions or concerns please contact Dr. Kate KuKanich at 785-532-4282 or kstenske@ksu.edu. Please use the additional resources below if needed to further increase your knowledge and awareness of the ADA and usability.

ADDITIONAL RESOURCES

INFORMATION FROM THE AMERICANS WITH DISABILITIES ACT (ADA):

- 1. The U.S. Department of Justice provides a document to help small business owners understand the 2010 ADA accessibility standards. Although this document is not directed to veterinary practices specifically, it is a helpful resource to increase veterinarian's awareness of ADA requirements for businesses. To view this helpful document, click here.
- 2. To read a more comprehensive version of ADA standards, <u>click here</u>. The section of the ADA most applicable to state and local government facilities (including public universities) is Title IIa. The section of the ADA most applicable to public accommodations and commercial facilities (small businesses) is Title III.
- ADA Quick Tips Customer Service for Front Line Staff: https://adata.org/factsheet/quicktips-customer-service
- *
- 4. To contact your regional ADA center, <u>click here</u> or contact Ray Petty at <u>raypetty@aol.com</u> or 785-842-4317. Ray Petty is a Community Integration Specialist <u>who</u> has been with the Great Plains ADA Center (https://www.gpadacenter.org/) since 1995. He is currently responsible for the delivery of ADA Network services throughout the State of Kansas. In addition to provided training, technical assistance and consultation to individuals and entities in the state of Kansas, he conducts outreach and capacity building activities.
 - 5. The local ADA Coordinator for the Manhattan area is Charlotte Self (charlotte@ksu.edu; 785-532-1868).
 - There are tax incentives for increasing accessibility. <u>Click here</u> to see what the ADA website says about tax credits. <u>Click here</u> to view the K-37 Disabled Access Credit document. For more information on this, email Ray Petty (info above).

THE UNIVERSITY OF KANSAS RESEARCH AND TRAINING CENTER ON INDEPENDENT LIVING PRODUCED THE FOLLOWING DOCUMENTS TO PROVIDE EDUCATION TO THE PUBLIC:

- 7. A fact sheet summarizing the Americans with Disabilities Act of 1990. To view this ADA fact sheet, <u>click here</u>.
- *
 - 8. A brochure titled "Guidelines: How to Write and Report About People with Disabilities" was designed for people studying and writing reports about people with disabilities. It is a great read for anyone interested in learning more about the power their words have on shaping the public's view of people with disabilities. To view the brochure, <u>click here!</u>
 For a quicker overview on how to speak to or refer to people with disabilities, <u>click here!</u>
 - 9. KU Graduate Research Assistant Alice Zhang conducted a study titled "Analyzing the Effects of Different Signs to Increase the Opportunity of Designated Van Accessible

Parking Spaces". As part of her project she designed a Fact Sheet on Parking Equity that can help people better understand the importance of Van Accessible Parking Spaces for people with disabilities and reserving them for lift- or ramp-equipped van users. To view the helpful fact sheet, <u>click here</u>.

MORE HELPFUL DOCUMENTS AND SITES



- 10. Click here to read about the "Top 10 Ways to Maximize the Usability of your Veterinary Practice for Clients with Mobility Disabilities".
- 11. <u>Click here</u> to find purchasable accessible entrance signs.
- 12. <u>Click here</u> to find purchasable automatic door openers.
- 13. <u>Click here</u> to find purchasable threshold and wheelchair ramps.
- 14. <u>Click here</u> to view a brief video explaining how offset hinges can be used to extend the width (1-2") of a doorway if needed.



= highly recommended resource

Appendix 3: Research Poster



VETERINARY HOSPITAL EVALUATION AND SUGGESTIONS TO MAXIMIZE **USABILITY FOR CLIENTS WITH MOBILITY DISABILITIES**



Emma Winkley¹, Kate KuKanich¹, Dot Nary², Joe Fakler³

KANSAS STATE

UNIVERSITY

Master of Public Health

Interdisciplinary Program

2 Master of Public Health Program and Department of Clinical Sciences, College of Veterinary Medicine; 2 Department of Research

2 Master of Public Health Program and Department of Clinical Sciences, College of Veterinary Medicine; 2 Department of Research

2 Master of Public Health Program and Department of Clinical Sciences, College of Veterinary Medicine; 2 Department of Research

3 Master of Public Health Program and Department of Clinical Sciences, College of Veterinary Medicine; 2 Department of Research

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INTRODUCTION

According to the Census Bureau about 21 million Americans had a mobility-related disability in 2017. Rates of disability increase with age and therefore, with Rates of disability increase with age and therefore, wit the forecasted growth in the aging population in the coming years the percentage of people with a mobility disability will likely increase. All these individuals are potential pet owners and veterinary clients. Therefore two concepts need to be addressed by the veterinary community. First, how hospitals can be constructed or structurally modified to increase accessibility and usability. Second, awareness of the overall veterinary visit experience for clients with mobility disabilities. In order to begin to address these concepts we set out to gather baseline data on usability of veterinary hospitals in Kansas as well as gain insight about veterinarians' current knowledge of potential barriers to usability and Americans with Disabilities Act (ADA) regulations.

METHODS

A survey (n=59) was distributed to Kansas veterinarian A survey (n=59) was distributed to Kansas veterinarians, online and at a local conference. Topics covered in the survey included demographics of the veterinarians, their experience with serving clients with disabilities, and their ability to self-assess their veterinary hospitals for accessibility and usability barriers. Two researchers [EW, KG] were certified by Community Health Environment Checklist for Arbeility (CHEC M) and used the CHEC standardized forms to evaluate 10 veterinary hospitals in Kansas. These forms were then scored by a blinded CHEC personnel, Each hospital received 3 section scores (entrance, using the building, and restroom) and an overall score. In addition to the CHEC report, an individualized report was created by our research team for each hospital describing strengths as well as short- and long-term suggestions for areas of

WHAT IS THE CHEC?

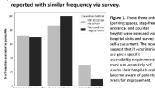
The Community Health Environment Checklist (CHEC) is a tool to measure how usable public spaces are for people with disabilities. It is not a comprehensive ADA assessment, but rather it is a usability tool focusing on key concerns identified by people with disabilities. The CHEC was developed by researchers at the Washington University School of Medicine in St. Louis. This tool is used to assess public spaces like restaurants, stores, doctor's offices, and now, veterinary practices. CHEC assessors are trained to complete a standardized evaluation of measurable features in a site, which produces a score based on 100 as the optimum. CHEC evaluations can be posted online (checpoints.com) for public viewing as a tool when deciding which public places will be most usable for their needs.

Key Findings:

- erinarians serve clients with disabilities, vet might not be fully aware of potential usability concerns for people with mobility disabilities.
- with mobility disabilities.

 \$938 (55/59) of surveyed veterinarians reported serving clients with mobility disabilities.

 \$ Every veterinary hospital visited had a least 1 area identified on the CHEC form which could be addressed to improve accessibility for their clients with mobility disabilities, yet only accessibility for their clients with mobility disabilities, yet only 5134 (30/59) of surveyed veterinarians reported being aware of any specific areas within their veterinary hospital that clients may have difficulty using. 42 Only 38% (27/58) of surveyed veterinarians reported being comfortabe with their knowledge of current ADA requirements for accessibility.
- 2) Most veterinary hospitals have potential barriers to people with mobility disabilities. ▼ Tables 2-4 list the most common areas identified for
- improvement in visited Kansas veterinary hospitals. 3) Problem areas identified in visited hospitals were self



4) Veterinarians may encounter barriers in improving

- \$ 20% (12/59) of veterinarians reported <u>lack of knowledge</u> about what is required, recommended, or helpful as a barrier 5) Veterinarians were receptive to receiving further education and suggestions on ways to improve their service to individuals with disabilities.
- veterinary community as a whole (veterinarians, technicians, receptionists, etc.) would benefit from further education regarding ways to improve their service to individuals with
- education on ways to best serve clients with disabilities.

RESULTS nital Visit Resulte

iospitai visit kesuits:					
HEC Category	Average Score (100 pt. scale)	were found to be quite usable for clients with mobility			
intrance	89.18	disabilities. As many veterinary hospitals are located in older buildings with structural limitations, several			
Ising the Building	91.46	common challenges were recognized. Strengths and			
estrooms	53.60	areas for improvement amongst each of the three			
warall	22.71	CHEC categories are displayed in the tables below.			

Entrance:

4	lable 2. Stierigus and eleas for improvement in nospital endentes,				
I	Strengths	Areas for Improvement			
ĺ	 7/10 hospitals had signs designating adequately wide van accessible parking spaces closest to the entrance (Figure 2). 9/10 had clear entrance routes free of level thanges. 	 6/10 hospitals had heavy entrance doors. Aim for outomatic or lighter user friendly entrance doors. 3/10 hospitals had gravel parking lots which can cause wear and lear on wheelchair time. 			
l	 9/10 had adequately wide doorways (>32 Inches wide) 	 4/30 hospitals had too high of entrance thresholds (>0.25"). 			

ssible parking space des ar the entrance on an a

Using the building: Table 3. Strengths and areas

trengths			
8/10 had inviting lobbles with arrangements that allow for space for a wheelchair to fit amongste new of chain (Figure 3). 9/10 had unobstructed and wide pathways 136" wider and doorways 132" wide!	 Only 1/10 of the hospitals had at least a portion of their reception counter of an accessible height [436" from the floor). 		

Figure 3. Quick fix to creating a wheelchair-friendly lobby



le 4. Strengths and	areas	for	improvement	far	restrooms.
rangths	Aros	158	for Improve	lar	ent

E	trengths		reas for Improvement
	7/9 had live sturdily mounted grab bars to allow for safe transfers.	:	4/9 hospitals had wide enough restroom/scall doors (532") Only 5/9 hospitals had accessible paper towelf diver height (648" from floor). Only 5/9 hospitals had an accessible (non-vanity style) ank.

- Additional ways to make veterinary visits positive for all:

 Have proactive and helpful staff available to assist clients who may need entre assistar into the building with their per and throughout their visit.

 Consider the needs of a person who may benefit from a larger room to interact more
- easily. Talk directly to clients with disabilities. Do not avoid eye contact or speak only to a
- client's companions.

 Use people first language (i.e. "person with a disability" instead of "disabled person" or "person who uses a wheelchair" rather than "wheelchair bound".

CONCLUSIONS

CONCLUSIONS

Veterinarians serve clients with mobility-related disabilities; therefore it is critical that veterinarians are aware of the accessibility and usability of their veterinary hospitals, to provide optimal service. Improving awareness of client needs in addition to providing practice-specific suggestions for improving and maintaining accessible veterinary hospitals is a positive step towards allowing clients to fully participate in their pet's veterinary care. Through education, the Kansas veterinary community can become more cognizant of potential physical barriers to people with mobility-related disabilities, including our increasing elderly population, and can make action plans for short and long term modifications to their hospitals to remove barriers and improve access for all. barriers and improve access for all

Moving toward a comprehensive assessment of accessibility and development of educational resources:

In the future, similar projects can be carried out to identify potential barriers in veterinary hospitals for people with other disabilities (i.e. low vision, hearing, cognitive, etc.). Continued work could lead to the development of a comprehensive veterinary hospital usability assessment as well as educational materials to encourage improvement of accessibility for all people with disabilities. Future collaborative work with ADA experts could result in increased educational materials to help veterinarians become more comfortable with their knowledge of ADA requirements.

Any sites that receive CHEC assessments are Any sites that receive CHEC assessments are invited and encouraged to have their scores and forms posted online to the CHEC website for the benefit of people with disabilities.

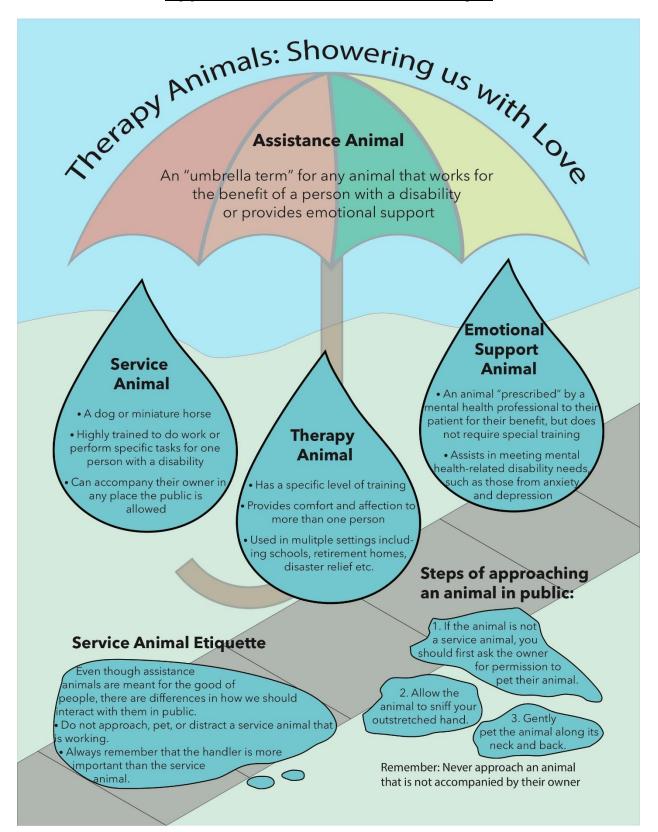
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completing the survey. This research was supported by Grant/Cooperative Agriement Number D0000006 from the US Centers for Disease Control, National Center on Birth Defects and Developmental Disabilities, Disability and Health

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Appendix 4: Assistance Animal Flyer



Appendix 5: Children's Animal Behavior Game

