

ABOUT ME:

- Director of Development & Marketing / The Lands at Hillside Farms
 - Historic, 428-acre educational dairy farm located in Northeastern Pennsylvania
- Created & implemented farm-based therapy program that serves children who have experienced trauma. Now in 12th year
 - Responsible for the project management & funding of the program
- MSc in Animal Welfare/Animal Behavior from the University of Pennsylvania School of Veterinary Medicine
- MSc in Organizational Management/Nonprofit Management from Misericordia University



Suzanne with Pua.

OBJECTIVES:

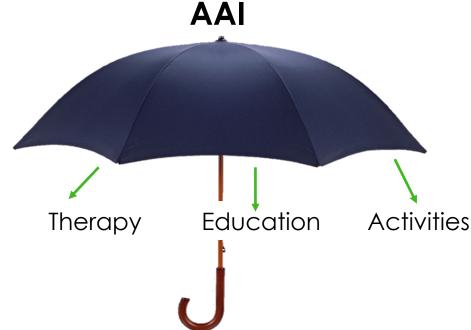
- Understand the roles that farm animals can play in farm-based therapy sessions (care farming)
- Learn how farm animal interventions differ from traditional animal assisted interventions (dogs, horses, rabbits, etc.)
- Explore potential benefits of incorporating farm animals in activity and therapy sessions



ANIMAL ASSISTED INTERVENTION

Animal-assisted interventions (AAI) is a broad term that is now commonly used to describe the utilization of various species of animals in diverse manners beneficial to humans. Animal-assisted therapy, education, and activities are examples of types of animal assisted intervention. The handler partners with a therapy animal, working as a team, to assist other people.

~American Veterinary Medical Association 2023



ANIMAL ASSISTED THERAPY

- Animal-assisted therapy (AAT) is a goal directed intervention in which an animal meeting specific criteria is an integral part of the treatment process.
- Animal-assisted therapy is delivered and/or directed by health or human service providers working within the scope of their profession.
- Animal-assisted therapy is designed to promote improvement in human physical, social, emotional, or cognitive function.
- Animal-assisted therapy is provided in a variety of settings and may be group or individual in nature.
- The process is documented and evaluated.

~American Veterinary Medical Association 2023

TERMS TO REMEMBER:

- Farm-based therapy is a general term to describe the integration of farm animals and/or agriculture into sessions that are facilitated by licensed mental health professionals.
 - Also referred to as Care Farming, Green Care, Nature-Based Therapy, Ecotherapy
 - Currently, there is no universal term to describe services or policies to regulate services
 - For consistency in this presentation, we will use the term Care Farming





CARE FARMING:

"The use of commercial farms or agricultural landscapes as a base for promoting mental and physical health through normal farming activity" (Hassink 2003, Braastad 2005).

FARM ANIMAL ROLES IN CARE FARMING? Depends on the setting.

- An agricultural setting refers to an environment/farm that is primarily focused on the cultivation of crops, rearing of livestock, or both for profit. Example: Small family farm, homesteading
- A commercial farm is primarily focused on producing agricultural products for profit and on a large scale. Example: Land O'Lakes, Inc., Tyson Foods, Inc., Dole Foods.



Photo: Adobe Stock Photo



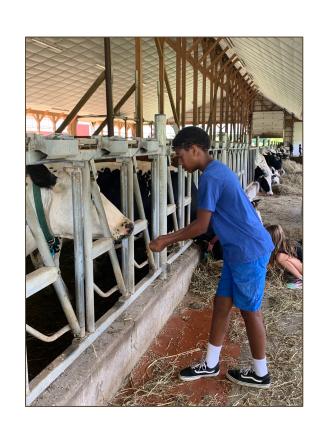
FARM ANIMAL ROLES:

- If care farming is to be hands-on or experiential, it is more realistic to focus on the smaller farms and agricultural settings.
 - More personal
 - More manageable in terms of human safety*
 - More manageable in terms of animal welfare*
 - Opportunities for interactions with farm staff
 - Environment is typically a more natural setting

^{*}Nothing is full proof; no animal is bombproof

POPULAR ANIMALS IN CARE FARMING:

- Hens
- Donkeys
- Cows/calves
- Goats
- Sheep
- Pigs
- Horses







FARM ANIMALS: WHAT DO THEY DO?

- Farm animals are not required to "do" anything other than be farm animals
- Children or adults participating in Care Farming are in essence, "co-farmers" while in the session(s)
- Participants have the responsibility for at least in part, providing basic animal care while at the farm

RESPONSIBILITIES MAY INCLUDE:

- Mucking stalls / replacing bedding
- Cleaning feed & water buckets/add food & water
- Bottle feed or bucket feed calves
- Exercise and/or groom animals
- Picking, washing, and package eggs that are for sale







CARE FARMING = PARTNERSHIP & STEWARDSHIP

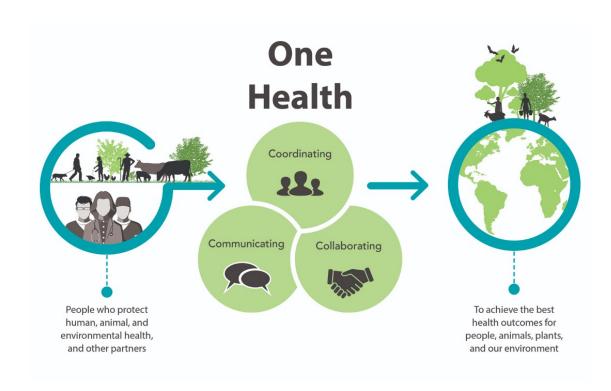
VALUE ADDED OPPORTUNITIES:

- Farm education sessions including basic animal science, agriculture, earth sciences, animal care/animal welfare
- Teaching the source of food and the importance of respecting the animals and environment



EXPERIENCING ONE HEALTH ONE WELFARE PLATFORMS

We are all interconnected





Graphic: Center for Disease Control

World Veterinarian Association Congress 2018

REMEMBER:

- Farm-based therapy is a general term to describe the integration of farm animals and/or agriculture into sessions that are facilitated by <u>licensed mental health</u> <u>professionals</u>.
 - Farm staff are to provide guidance, support, and farmrelated education
 - Farm staff have ultimate responsibility for the safety and welfare of both individuals and animals

POTENTIAL BENEFITS OF CARE FARMING







BENEFITS OF CARE FARMING: RESEARCH



Perceptions of Staff on the Effectiveness of Farm Camp to Improve Coping Skills for Children Experiencing Grief from Trauma or Loss: Year 1 of a 5 Year Longitudinal Study

Jennifer Dessoye OTD, Samantha Gregorowicz OTS, Brianna Kubishin OTS, Micaela Rhone OTS & Brianna Rowe OTS

PURPOSE

The research assesses the impact farm camp on children experiencing grief & trauma. This is the first year of a five year longitudinal study, with the goal to assess the efficacy of The Lands at Hillside Farms Grief Camp and how it may enhance a child's coping & stress management skills.

LITERATURE REVIEW

- 1 in 20 children will experience the loss of one or both parents by age 16 (Childhood Bereavement Network, n.d.)
- 70% of school-age children berieve someone close to them during school years (Childhood Bereavement Network, n.d.)
- 54% of those who lost a parent growing up say they struggled to find grief resources after the loss (NY Life Insurance Company, 2019)
- Incorporating coping skills into grief camps for children who experience loss, or have been through a traumatic event, has shown to have a positive effect on their health and well-being (Michelle, Micah, Jeremy, 2016).
- By creating positive coping mechanisms, the incidence of risky and maladaptive behavior can decrease over time (Michelle et al., 2016).

PARTICIPANTS

9 staff members ages 18 and up consisting of staff and OT Fieldwork Students

RESULTS- QUALITATIVE



Staff felt the

learned how

to positively

emotions"

Staff felt the

camper's

changed and

they gained

trust with the

other campers









PROCEDURES

Mixed method longitudinal 5 year research design, to be implemented in 2018, 2019, 2020, 2021, and 2022.

INSTRUMENTS

Survey Monkey consisting of 6 open-ended qualitative questions and 4 quantitative Likert Scale questions.

DISCUSSION

- A positive environment and animals activities allow children to gain trust in staff and peers
- Animals provide a calming environment for therapy
- Farm activities prompt development of necessary social, leisure, and emotional regulation skills
- Activities involving animals foster positive and satisfied responses in children
 - Suggestions for improvement include adding more structure and activities for indoor and outdoor play

CONCLUSION

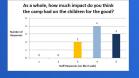
The research shows that a grief camp held on a farm and facilitated by OT students and staff has positive effects on a child's social and emotional wellbeing. Continued research is needed to determine best practices for age-appropriate assessments and interventions when working with children who are experiencing grief.

REFERENCES

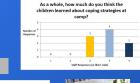
References available upon request.

Acknowledgments: Thank you to The Lands at Hillside Farms and our reader, Joseph Cipriani.

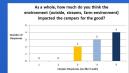
Cougar Prints at Misericordia University

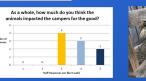












OUTCOMES & EFFECTIVENESS OF CARE FARMING ON THE PARTICIPANTS:

RESEARCH QUESTIONS:

Does the inclusion of farm animals and horticulture help children experiencing grief to learn skills which will help them cope and overcome barriers of personal challenges?

Does the shared experience of other grieving children learning strategies together promote positive psychosocial skills?

5 Quantitative Likert Scale Questions

8. Survey or Assessment Tools
Quantitative Likert Scale: Hillside Grief Camp Participants

1. How much do you think camp changed the way you think for the good?

1 2 3 4 5

Not at all A Little Bit A Lot

2. How much do you think you learned at camp?

1 2 3 4 5

Not at all A Little Bit A Lot

3. How much do you think the animals helped you for the good?

1 2 3 4 5

Not at all A Little Bit A Lot

4. How much do you think being on a farm helped you for the good?

1 2 3 4 5

Not at all A Little Bit A Lot

5. How much do you think the activities you did helped you for the good?

1 2 3 4 5

Not at all A Little Bit A Lot

5. How much do you think the activities you did helped you for the good?

1 2 3 4 5

Not at all A Little Bit A Lot

8 Open-Ended Qualitative Questions

Appendix A- Interview Questions
Camp Participant (Child) Interview: Open Ended

Please do not talk about your name or other kids' names in your answers.

1. Who/which was your favorite animal at camp? Why were they your favorite?

2. What were your favorite things about the camp? Why?

3. What were your least favorite things about camp?Why?

4. What activities did you learn to do to take your mind off of things?

5. Tell me about some of the people you met at camp ...not their names, just what you liked about them.

6. What are some things you learned at camp to make yourself feel better when you're sad or angry?

RESULTS:

- Increased coping skills and social connections
- Increased and improved selfregulation skills
- Positive responses to structured routine and responsibility
- Decreased nonpreferred behaviors



DISCUSSION:

- The research study demonstrates the effectiveness of (Care Farming) therapy services when working with children who have experienced trauma.
- Of note is the development of coping skills that may be translated to their natural contexts to better process feelings and emotions related to grief and trauma.





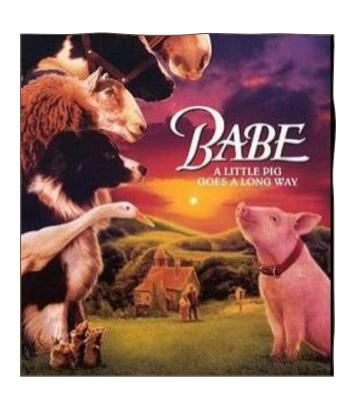
OBJECTIVES:

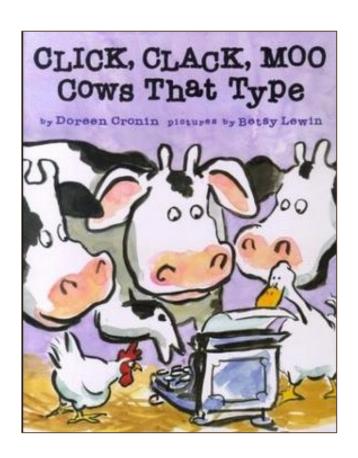
- Understand some common attitudes regarding farm animal sentiency
- Learn how attitudes toward farm animal sentiency and related behaviors can decrease welfare during AAI/Care Farming
- Evaluate photos of animals in a Care Farming environment

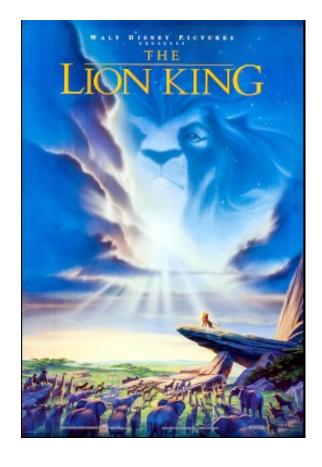


EARLY FOUNDATIONSMESSAGING:

- Children's early exposure/introduction to animals usually through books, cartoons, movies, etc.
- Such exposure can skew perceptions of animals in terms of behaviors and biological needs







Photos: Wikipedia

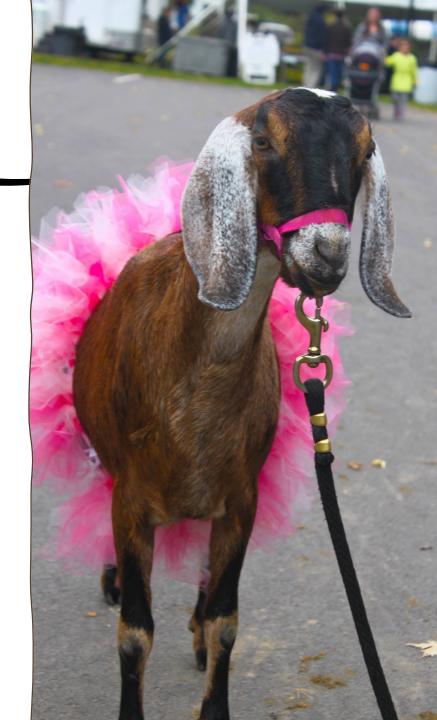
ANTHROPOMORPHISM:

Anthropomorphism is defined as the tendency to attribute human forms, behaviors, and emotions to non-human animals or objects. Anthropomorphism is particularly relevant for companion animals. **Some anthropomorphic practices can be beneficial to them, whilst others can be very detrimental.**

Mota-Rojas, et al. 2021







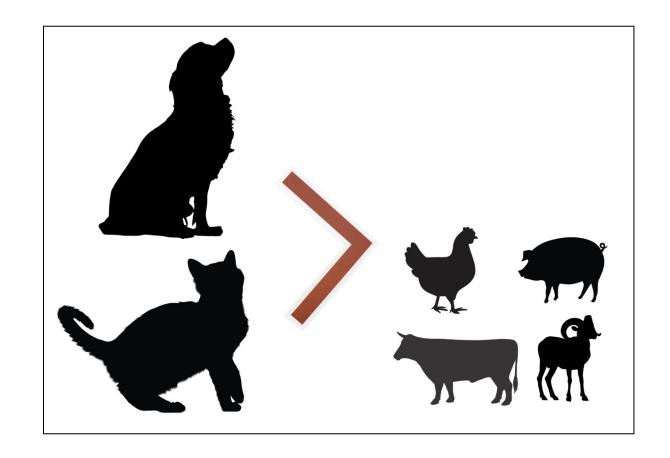
NEGATIVE CULTURAL ANTHROPOMORPHISM:

The judgment of animals according to human standards using words like:

 Dirty, stupid, pig-headed, uncooperative, lazy, bird-brained

Or phrases like:

- "Living like filthy animals in a pigsty."
- "He is chicken-hearted."
- "They are of a sheep mentality."



TRADITIONAL ANIMALS IN THERAPY / EDUCATION



NO PROTOCOLS FOR FARM ANIMALS:



Google Scholar: Farm Animal Assisted Interventions Approximately 105,000 results with overwhelming majority focus on outcomes for humans.

ANIMAL WELFARE ACT 2022

"... This term excludes birds, rats of the Rattus, and mice of the genus Mus, bred for use in research; horses not used for research purposes; and other farm animals..."



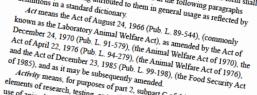
ANIMAL WELFARE REGULATIONS

PART 1 - DEFINITION OF TERMS

Authority: 7 U.S.C. 2131-2159; 7 CFR 2.22, 2.80, and 371.7.

§ 1.1 - Definitions.

For the purposes of this subchapter, unless the context otherwise requires, the following terms shall have the meanings assigned to them in this section. the singular form shall also signify the plural and the masculine form shall also signify the feminine. Words undefined in the following paragraphs auso signify the retinitine, words universities in the southways paregraphs shall have the meaning attributed to them in general usage as reflected by



Activity means, for purposes of part 2, subpart C of this subchapter, those elements of research, testing, or teaching procedures that involve the care and

Administrative unit means the organizational or management unit at the departmental level of a research facility.

Administrator The Administrator, Animal and Plant Health Inspection Service, or any person authorized to act for the Administrator.

Ambient temperature means the air temperature surrounding the animal. Animal means any live or dead dog, cat, nonhuman primate, guinea pig, hamster, rabbit, or any other warm-blooded animal, which is being used or is intended for use for research, teaching, testing, experimentation, or exhibition purposes, or as a pet. This term excludes birds, rats of the genus Rattus, and nice of the genus Mus, bred for use in research; horses not used for research purposes; and other farm animals, such as, but not limited to, livestock or purposes, and outer tarm annuals, such as, out not annual at, are such as poultry used or intended for use as food or fiber, or livestock or poultry used or intended for use for improving animal nutrition, breeding, management, or production efficiency, or for improving the quality of food or fiber. With



ANIMAL WELFARE ACT:

The Animal Welfare Act does not include standards (protections) for farm animals.



PERCEPTIONS AND ATTITUDES:

"Farm animals are commonly perceived as mere food animals, and some populations and cultures believe that cows, chickens, goats, sheep, and poultry **do not require the same level of care and respect** as popular household companions."

Burich, L. et al. 2020

WHAT IS SENTIENCE?



- Sentience refers to the ability to experience emotions and sensations such as fear, pain, pleasure, and suffering. Research shows that farm animals are capable of experiencing a wide range of emotions and have complex social lives.
 - Pigs are shown to have long-term memories, show signs of empathy, and understand cause and effect.
 - Chickens can recognize and remember individual humans and other chickens. They show emotional contagion – the emotions of one chicken can spread to others.
 - Cows can form close bonds and become distressed when separated from their social group.

FREEDOMS & DOMAINS OF FARM ANIMAL WELFARE:

Five Freedoms

Hunger and Thirst
Discomfort
Pain, Injury, and Disease
Fear and Distress
To Express Normal
Behavior

Five Domains

1994

Nutrition
Environment
Health
Behavior
Mental State

Concerns

Noise Levels
Hovering Children
Stress Levels
Startle Reflexes
Animal Bites
Diurnal or Nocturnal
Zoonotic Infectious Diseases
Longevity / Lifespan
Isolated / No Partners

EXAMPLES OF FARM ANIMALS IN CARE FARMING SETTINGS:

Please study the photos in the next three slides and see if you can determine the welfare from the animal's point of view.

What, if anything, would you recommend?









OTHER WELFARE CONSIDERATIONS:

- Ambient Temperatures
- Vocalizations (less or more)
- Locomotion (less or more)
- Hiding / Withdrawal
- Pacing / Circling
- Repetitive Movements (Stereotypies)
- Panting



Stress represents a biological response of the animal/organism to stimuli that disturb its normal physiological equilibrium or homeostasis - Pawar SS. 2016



OBJECTIVES:

Determine ways to help ensure animal welfare during AAI/Care Farming while maintaining the integrity of the Care Farming program.



THINGS TO CONSIDER -

ASSESSMENT*

- Species Selection
- Temperament
- Socialization
- Willingness
- Training
- Health
- Environment / Location

* In partnership with a large animal veterinarian, animal behaviorist, and farmer (if services are to take place on a farm).



PRE-SCREENING INDIVIDUALS (HUMANS):

- Does the individual have history of elopement?
- Does the individual have a history of violence (against humans or animals)?
- Does the individual have impulse control disorder?
- Pyromania?

Agricultural settings are often remote, spacious, and provide a plethora of places to hide. These settings are also filled with various farm-related tools, such as pitchforks, shovels, saws, hammers, wire, machinery, etc. **Situational awareness.**

HANDS-ON CARE FARMING SESSIONS -VALUABLE & PRACTICAL RECOMMENDATIONS:

- Farm staff or other trained staff member is nearby
- All activities are supervised no solo animal interactions
- Clear communication on expected behaviors (no yelling, running, hitting, chasing, etc.)
- Proper techniques are explained and demonstrated
 - Bottle feeding or bucket feeding a calf
 - Grooming & farm chores
 - Exercising / walking on halter
- Observe animals for signs of stress



MORE HANDS-ON CARE FARMING SESSIONS VALUABLE & PRACTICAL RECOMMENDATIONS:

- No open-toed shoes or sandals
 - Heavy shoes or boots recommended
- No necklaces or long earrings (calves will quickly grab a necklace) Chickens are attracted to shiny objects (and nail polish)
- Rubber gloves are recommended
- Hand sanitizer



"FARM ANIMAL BEHAVIOR 101"

- Excited cows will run, jump, and kick
- Calves can be 75+ lbs. at birth and are strong (especially when hungry)
- Chickens explore their world through pecking (including feet and hands)
- Roosters can be protective (aggressive)
- Pigs are powerful and with an equally powerful bite
 - There is no such thing as a "mini pig"

Farm animals are not being or doing anything other than being farm animals. No animal is bomb-proof, and most will react out of fear.

IS OBSERVING FARM ANIMALS AN OPTION? YES.

Much can be learned or realized by watching farm animals

- Resilience and Adaptability
- Social Interaction and Hierarchy
- Instinct and Intuition
- Circle of Life
- Responsibility
- Caring







CONCLUSION:

Care Farming can be an effective and positive method to promote improvement in human physical, social, emotional, or cognitive function. This practice should include:

- Cooperation with the farm animals
- Respect for the farm animals
- Acknowledging the sentience of farm animals
- Accepting the natural behaviors of farm animals
- Understanding that welfare is not one-sided

THANK YOU

We are all interconnected.

Questions?
Please contact me at: Suzanne@hillsidefarms.org
The Lands at Hillside Farms
Hillsidefarms.org

