

Case Study: Evaluation tools used to assess effectiveness in Ohio



THE OHIO STATE UNIVERSITY
COLLEGE OF VETERINARY MEDICINE



DEPARTMENT OF VETERINARY PREVENTIVE MEDICINE

- ✓ Pre- and post- test instrumentation was used to assess the effectiveness of pilot scenario based training sessions
- ✓ The instrument consisted of 20 statements related to information covered in the training regarding IAV in swine.
- ✓ Each statement was rated on a 5 point Likert-type scale
- ✓ Evaluation Post-test scores of 85.7 is significantly higher than pre-test score of 65.6 ($p < .001$)

INFLUENZA A VIRUS AT COUNTY FAIRS POST-TEST

Participant Number:
Age:
Years showing pigs:

For each item identified below, circle the number to the right that best fits your judgment of its quality. Use the rating scale to select the quality number.

Survey Item	Scale				
	No	Maybe			Yes
1. I have heard of influenza A viruses	1	2	3	4	5
2. I know pigs can get influenza A viruses	1	2	3	4	5
3. I know what the "H" and "N" mean in the name of influenza A viruses	1	2	3	4	5
4. I know how influenza A viruses spread between animals	1	2	3	4	5
5. I know how influenza A viruses spread between animals and people	1	2	3	4	5
6. I know what to do before the fair if my pig seems sick	1	2	3	4	5
7. I know what to do at the fair if my pig seems sick	1	2	3	4	5
8. I know what to do after the fair if my pig comes home with me	1	2	3	4	5
9. I get a flu vaccination each year	1	2	3	4	5
10. My pigs have been vaccinated for influenza A viruses	1	2	3	4	5
11. I have more than one pig at home	1	2	3	4	5
12. I have a veterinarian that I can call if my pig is sick	1	2	3	4	5
13. I have animals other than pigs at home	1	2	3	4	5
14. I know how to take a pig's temperature	1	2	3	4	5
15. I know the clinical signs of influenza in pigs	1	2	3	4	5
16. I am confident in my ability to tell when a pig is sick	1	2	3	4	5
17. I know more about influenza now than before the lesson	1	2	3	4	5
18. I know who to talk to if I think I have influenza	1	2	3	4	5
19. I know what factors make it more risky for humans to visit pig barns	1	2	3	4	5
20. I know what the term bio-security means	1	2	3	4	5



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- ✓ Questionnaires were used to evaluate Youth Swine Day and Ohio 4-H Conference training sessions
- ✓ Were they effective?

Session 418 "Staying Healthy with Your Pig" (Jacqueline Nolting, Andrew Bowman)

		Future Conferences			Plan to teach this knowledge				One idea you expect to share	Comments
Knowledge Before	Knowledge After	Quality of Presentation	Speaker invited to be at future conferences?	Topic used again at future conferences?	Will not teach	Teach in Club	Teach in County	Teach in State		
3	5	5	Y	Y		x	x			
5	5	5	Y	Y		x	x			
4	5	5	Y	Y		x	x		Our county must stress biosecurity when advisors go farm to farm to tag pigs... maybe change tagging protocol	
5	5	5	Y	Y		x	x		pH tester	Thanks!
3	4	5	Y	Y		x	x			
4	5	5	Y	Y		x	x			
4	5	4	Y	Y			x			
3	5	4	Y	Y		x	x		The mucus sharing activity	
2	4	4	Y	Y			x			
1	5	5	Y	Y			x			
3	5	5	Y	Y		x	x		Diseases	
1	5	5	Y	Y		x	x		Be safe	
3	5	5	Y	Y		x	x		How quickly disease can be spread	
5	5	5	Y	Y		x	x		Love the hands on activity	
3	5	5	Y	Y		x	x	x	The activities	Great Job Andy!
5	5	5	Y	Y		x	x	x		
2	5	5	Y	Y		x	x			
3	4	5	Y	Y			x		Biosecurity	
5	5	5	Y	Y		x	x	x	Biosecurity	
3	5	5	Y	Y		x	x		The liquid activity	
2	5	4	Y	Y			x		That you need to have a biosecurity plan	
3	4	5	Y	Y		x			All	
3.3	4.8	4.8	22	22	0	17	21	3		

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Junior Swine Day Columbus Evaluation Summary March 19, 2016

176 registered, 164 attended with 74 completed evaluations – Ohio and Michigan
33 YPQA certificates

1. What is your overall rating of the Junior Swine Day?

	Poor				Excellent
	1	2	3	4	5

2. Please rate the following presentations on a scale of 1 to 5.

2. Please rate the following presentations on a scale of 1 to 5.											
Presentations	Poor (Not Useful)		Avg		Excellent (Extremely Useful)						
											N/A
Evaluating and Selecting Your Pig Project – Patrick Barker	1	2	3	4	5						4.45
Meat 101 – Dr. Lyda Garcia	1	2	3	4	5						4.77
PQA Plus Certification – Tony Nye	1	2	3	4	5						4.68
Lunch	1	2	3	4	5						4.69
How Do Diseases Spread? – Andy Bowman, DVM	1	2	3	4	5						4.77
Nutrition and Weight Management – Dr. Jim Smith	1	2	3	4	5						4.21
Showmanship and the Summer Show Circuit Gus Mitchem, Katie Siegel and Kelly Morgan	1	2	3	4	5						4.89
	1	2	3	4	5						

3. What did you learn at the Junior Swine Day that surprised you the most?

Instructors were very helpful, how important the nutrition is, the number of things I was doing wrong in showmanship, when they brought the pigs out and were well trained, we have attended every year and learned new things each time, biosecurity, meat science, digestive system, cold water on a pig can kill them, how quick bacteria can spread, how different vitamins and proteins affect your pig, mostly meat 101, about PSE in carcasses, many take a ways, the way flu spreads,

4. What one thing do you plan to change or do as a result of attending?

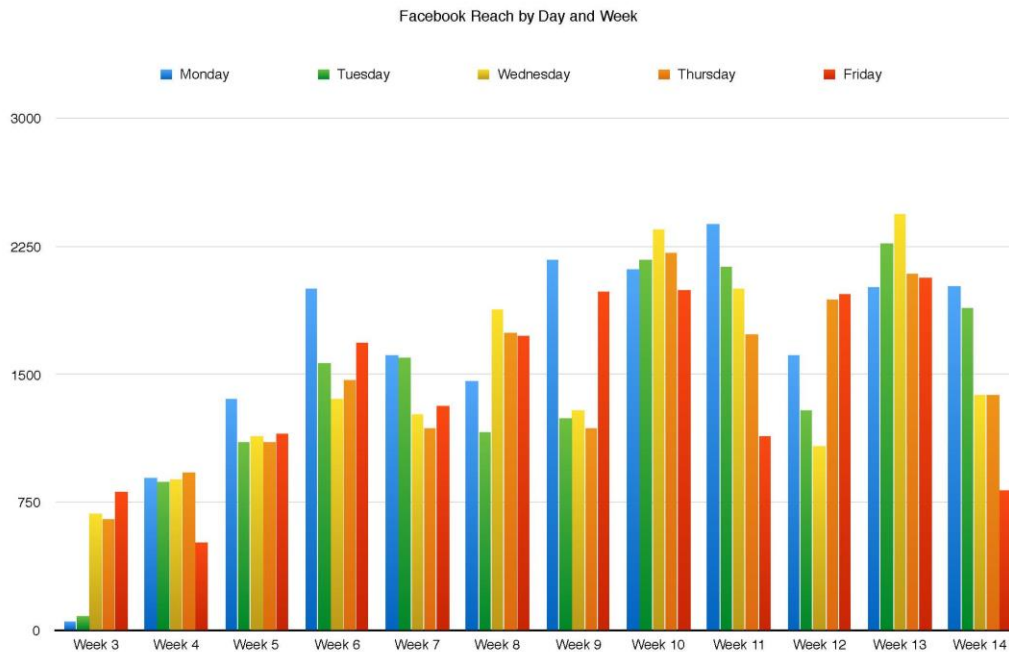
Make sure my pen is clean, selecting my pig, work harder on my showmanship, was my pig once a week, double check the nutrition levels of the feed, work more with the pigs, improve my showmanship, better pig selection, whipping my pig to hard, try to train my pig to keep its head



Social Media Campaign

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- ✓ Sysmos software was used to track the reach of social media posts



	Total for All Days
Total Reach	89,576
Facebook Shares	50
Facebook Likes	75
Twitter Retweets	27
Twitter Engagements	470
Twitter Impressions	22,340
Twitter Hearts	53



Outputs and Evaluation

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"Becoming a Swientist" program – 2017

- ✓ Participants were encouraged to take "selfies" while completing healthy habits to upload on a private Swientist webpage
- ✓ Individuals who loaded the most selfies, with captions, in each showmanship age division were awarded Ipads at the annual OH-Pigs banquet.
- ✓ 37 photos were submitted
- ✓ Based on submitted photos, the most frequently practiced healthy habit is shoe/boot disinfection



"Soaking boots in bleach and soap after a visit to the pig farm."



"Ali getting her shoes disinfected before going into the barn with her show pigs"



"I have a pair of Nike flip flops that stay in show barn. I only wear them in the show barn so none of my other shoes are contaminated when dealing with my sows or in the farrwowing house."



Measures to Minimize Survey

- ✓ Approximately 150 surveys were collected from jackpot swine exhibitors regarding their perceptions and behaviors related to recommendations in the “Measures to Minimize Influenza Transmission at Swine Exhibitions” document.
- ✓ Average number of shows respondents plans to attend in 2017 = 11



State	No. Surveys
AR	2
AZ	5
CA	1
FL	4
GA	2
IA	1
ID	1
IL	2
IN	4
KS	1
MI	5
MN	2
MO	6
NE	1
OH	99
OK	9
TX	5
WV	1
Unknown	4
Grand Total	155



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	Good Reccomendation	Could Implement	Already Has Implemented
Clean and disinfect all tack, feeders, waterers, and show supplies between shows	98%	93%	51%
Wash your hands with soap and water when you leave the barn.	96%	92%	75%
No food or drink in animal areas.	67%	66%	21%
Allow at least 7 days of “down time” (i.e. on-farm quarantine) after returning from a previous show before showing a pig or pen-mates, to reduce the risk of spreading influenza. - DOWNTIME	80%	65%	58%
Allow at least 7 days of “down time” (i.e. on-farm quarantine) after returning from a previous show before showing a pig or pen-mates, to reduce the risk of spreading influenza. - ISOLATION	85%	69%	50%
Discuss the use of swine influenza vaccines with a veterinarian and check the show rules for any requirements.	95%	92%	83%



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	Good Reccomendation	Could Implement	Already Has Implemented
Consult a veterinarian to help outline and implement applicable biosecurity and swine health practices at home.	96%	92%	89%
Sick pigs and sick people need to stay home so they do not risk infecting other pigs or people.	98%	92%	77% -Pigs 60% - People
Avoid sharing tack with other exhibitors, but if you must, clean and disinfect in-between uses.	87%	83%	53%
No sleeping in animal areas.	75%	66%	53%
Report sick pigs to exhibition organizers.	89%	84%	43%
Become familiar with the clinical signs of influenza and other illnesses in pigs.	99%	94%	71%



Outputs and Evaluation

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Swine Resource Handbook Zoonotic Disease Chapter Skill-a-thon – 2017

- ✓ 48 youth participated in a pilot zoonotic disease station included in a skill-a-thon tiebreaker at the Ohio State Fair in 2017
- ✓ Average score was 5 out of 10 (50%) correct
- ✓ This score is on-target with all other stations completed at the OSF 2017 swine skill-a-thon

Example Skill-a-thon stations





Comments and Suggestions

