

Injection Sites and Techniques

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Goal (learning objective)

Youth will learn about proper injection technique and appropriate locations to administer injections.

Supplies

- 1 orange or 1/2 banana one per youth
- Syringes 6cc or 12cc one per youth (can be shared)
- Needles 18 x 1/2 or 3/4 one per youth (can be shared)
- Dyed sterile water in vaccine bottles (can be shared)
- Sharp knives for use by adult volunteer
- Handout 1 "Appropriate Injection Sites" (enough copies for group)

Pre-lesson preparation

- Check with your local veterinarian early to have them save sterile water.
 - a. Draw some of the water out of each bottle and replace it with a SMALL amount of food coloring. Red or green works best.
- Study recommended injection sites for species (see resources).

Lesson directions and outline

Share the following information with the youth:

At some point in time, it is necessary to give all animals an injection. This could be a vaccine to prevent a disease or a medication to treat a disease. It is important to use proper injection technique and to administer injections in recommended locations as not to damage the meat.

Conducting the activity (DO)

- 1. Discuss with youth the importance of properly restraining the animal when giving an injection.
- 2. Discuss with youth the difference between subcutaneous (sq) and intermuscular (im) injections.
- 3. Show youth the correct locations for injections on the species they are interested in.
- 4. Demonstrate to the group how to correctly fill a syringe with "medication."
- 5. Have youth fill their syringe with 1cc of "medication."
- 6. Have youth inject the piece of fruit, administering:
 - a. One sq injection
 - b. One im injection
- 7. Cut the fruit to see if they administered the "medication" in the proper location.

What did we learn? (REFLECT)

- Ask: What are some reasons why we would give an animal an injection?
- Ask: Where are the proper locations for injections on their animal? Why those locations?

Why is that important? (APPLY)

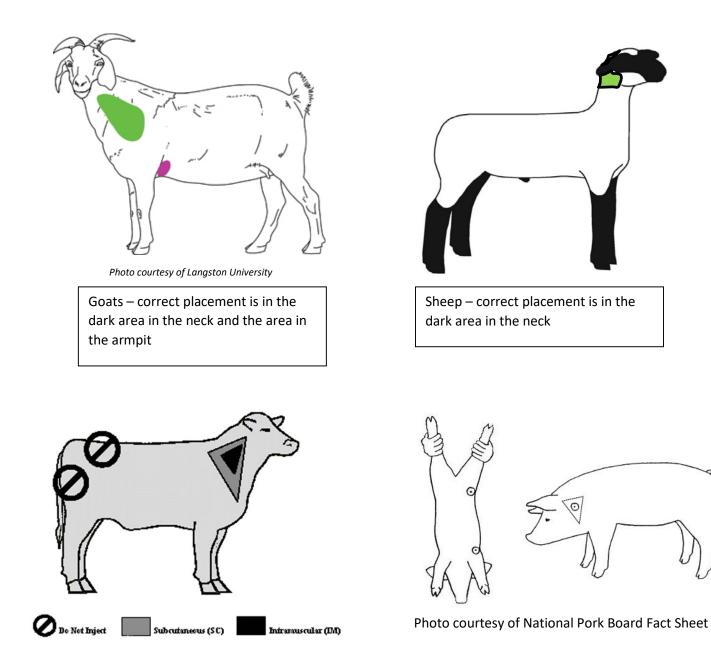
- Ask: What could happen if an injection was given in the wrong location?
- Ask: What could happen if you were given an injection in the wrong location?

Resources

- Ohio State University Extension. (2011). Health Maintenance. *Beef resource handbook* (pages 5-7 through 5-8).
- Ohio State University Extension. (2008). Caring for Animals *Goat resource handbook* (pages 165-166).
- Ohio State University Extension. (2011). Health Maintenance and Diseases. *Sheep resource handbook for market and breeding projects* (pages 71-72).
- Ohio State University Extension. (2000). Caring for Animals. *Swine resource handbook for market and breeding projects* (pages 24-7 through 24-9).

HEALTH & DISEASES: INJECTION SITES AND TECHNIQUES - HANDOUT 1

APPROPRIATE INJECTION SITES



Cattle – correct placement is in the areas in the neck

Swine – correct placement is the area in the neck and the areas n the armpit and flank