

ASA Presentation Notes Lesson 8.1

Unit Name: Unit 8 Animal Health

Lesson Topic: Lesson 8.1 Popular Pathogens

Presentation on: What is a disease?

Pathogens.

- In the general sense, anything capable of causing disease.
- Commonly signifies a living, microscopic, disease-producing agent, such as a bacteria or virus.

Disease.

- Any deviation from a normal state of health in plants, animals, or people, which temporarily impairs vital functions.
- Disease Categories.
 - Infectious.
 - Contagious.
 - Non-infectious.

Infectious Diseases.

- A disease caused by bacteria, protozoa, viruses, prions, or fungi entering the body.
- It is not necessarily contagious or spread by contact.

Example: “Mad Cow Disease”

- Bovine Spongiform Encephalopathy.
 - Degenerative disease of brain and spinal cord.
 - Caused by feeding meat and bone meal to cattle.

Contagious Diseases.

- A disease transmitted or spread from animal to animal by direct or indirect contact with a diseased animal.
- Common colds and the flu are contagious diseases.

Example: Foot-and-Mouth Disease.

- Virus found in cloven-hoofed animals.
- Spreads easily from cattle to sheep to pigs to goats to deer.

- Destruction, decontamination, and quarantine only methods to control.

Non-Infectious Diseases.

- A disease that is not caused by microorganisms and transmitted from one animal to another.
- Examples:
 - Nutritional disorders.
 - Poisoning.
 - Genetic disorders.

Example: Spider Lamb Syndrome.

- Genetic disorder.
- ••Causes skeletal deformities, such as bent legs, crooked spine, long neck and flattened ribs.

How Diseases Spread.

- Direct contact.
 - Animal to animal or person to person contact.
 - Shaking hands.
- •Indirect contact.
 - Vectors.
 - Fomites.

Vectors.

- Any agent, such as an insect or animal that transmits, carries, or spreads a disease from one plant or animal to another.
- Example:
 - Mosquito carrying malaria.

Fomites.

- Contaminated inanimate objects.
- Substance other than food that may harbor or transmit a disease.
- Example:
 - Sharing straws or water troughs.

ASA Reflection Page

List 5 key points that are important to remember from this presentation.

- 1.
- 2.
- 3.
- 4.
- 5.

List 3 ideas or concepts that this new information has in common with previous things learned.

- 1.
- 2.
- 3.

List questions or ideas that remain unclear about the information presented that should be asked for clarity at the appropriate time.