**Excellence in Exhibition: Preventing Disease in Animals and People**

**Lesson 1: Introduction to Influenza, Zoonoses, and Disease Risks**

**Disease Comparison Chart Worksheet**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Cause | Species Affected | Clinical Signs in Animals | Clinical Signs in Humans |
| Avian Influenza |  |  |  |  |
| Influenza A Virus of Swine Origin |  |  |  |  |
| Q fever |  |  |  |  |
| Salmonellosis |  |  |  |  |
| *E. coli* |  |  |  |  |
| Ringworm |  |  |  |  |
| Contagious ecthyma  (Orf) |  |  |  |  |
| Cryptosporidiosis |  |  |  |  |
| Campylobacteriosis |  |  |  |  |

**Disease Comparison Chart Worksheet ANSWER KEY**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Cause | Species Affected | Clinical Signs in Animals | Clinical Signs in Humans |
| Avian Influenza | Influenza A virus | Pet birds  Poultry  Mammals | Depression  Ruffled feathers  Lack of appetite  Watery diarrhea  Swollen combs and wattles  Decreased egg production  Paralysis  Sudden Death | Swelling and reddening of the issues around the eyes  Fever  Aches  Cough  Sore throat  Runny nose  Headache  Tiredness |
| Influenza A Virus of Swine Origin | Influenza A virus | Turkeys  Pigs  Mink  Ferrets | Fever  Tiredness  Lack of appetite  Weight loss  Coughing  Sneezing  Nasal discharge  Labored breathing | Fever  Aches  Cough  Sore throat  Runny nose  Headache  Tiredness |
| Q fever | *Coxiella burnetti* bacteria | Sheep  Cattle  Goats | Abortion  Infertility  Small offspring  Weak offspring | Fever  Chills  Night sweats  Headache  Weakness  Chest pains  Premature birth or miscarriage in pregnant women |
| Salmonellosis | *Salmonella* bacteria | Pigs  Cattle  Horses  Poultry  Reptiles | Often asymptomatic  Diarrhea  Stomach pain  Fever  Dehydration | Diarrhea  Fever  Cramping |
| *E. coli* | *Escherichia coli* bacteria | Cattle  Sheep  Pigs  Dogs  Poultry | Many do not become ill  Diarrhea  Edema disease in pigs | Stomach pain  Cramping  Watery or bloody diarrhea |
| Ringworm | Many species of fungi | Birds  Dogs  Cats  Cattle  Goats  Horses  Pigs  Sheep | Hair loss  Scaling  Crusts  Redness | Itchiness  Inflammation  Redness  Scaling |
| Contagious ecthyma | Contagious ecthyma virus | Camels  Alpacas  Sheep  Goats | Small raised bumps, sores, and blisters found on the lips, nose, ears, and eyelids | Single, small, firm, red to blue bump, sore, or blister that lasts for 3 to 6 weeks |
| Cryptosporidiosis | *Cryptosporidium parvum* parasite | All mammals  More common in young animals | Diarrhea  Poor appetite  Weight loss | Watery diarrhea  Stomach cramps  Poor appetite |
| Campylobacteriosis | *Campylobacter jejuni* bacteria | Cats  Cattle  Dogs  Pigs  Poultry  Sheep | Diarrhea  Decreased appetite  Vomiting  Fever | Diarrhea  Fever  Vomiting  Stomach pain  Headache  Muscle pains |