

Boyine Anthrax

JUNE 2015

Cause

Bacillus anthracis bacteria

Risk of Exposure in Illinois

Low

Risk of Transmission to exposed people High

Mode of Transmission Ingestion or inhalation of spores; handling contaminated carcass, hide or hair

Incubation Period

Human: Cutaneous form: 3-10 days

Inhalation form: 1-5 days

Gastrointestinal form: 2-5 days

Animal: 3-7 days (can range from 1-20 days)

Clinical Signs-Human

Cutaneous form accounts for most human cases-red, raised lesion: blister

Pulmonary form- fever; general ill-being; muscle pain; cough; respiratory distress; sweating; shock; death

Gastrointestinal form- fever; vomiting; bloody diarrhea;

general ill-being

Clinical Signs-Animal

Acute form- sudden fever; incoordination; tremors; respiratory distress; blood-tinged diarrhea; blood in urine

and milk: convulsions and *death Peracute form- *sudden death

*Failure to achieve rigor mortis after death

Control and Prevention

Vaccinate livestock in endemic areas: Vaccinate individuals in high risk occupations; deep burial/burn infected carcass

Comments

Reportable disease in Illinois If anthrax is suspected, do **NOT** perform a necropsy;

potential bioterrorist agent

Additional Information

http://emergency.cdc.gov/agent/anthrax/index.asp http://www.cfsph.iastate.edu/Factsheets/pdfs/anthrax.pdf



Boyine Arcanobacterium pyogenes

JUNE 2015

Cause

Arcanobacterium pyogenes bacteria (previously known as Actinomyces pyogenes and Corynebacterium pyogenes bacteria)

Risk of Exposure in Illinois

Moderate

Risk of Transmission to exposed people

Low

Mode of Transmission

Direct contact; fly vector

Incubation Period Humans: Unknown

Animals: Organism colonizes mucous membranes of cattle

Clinical Signs-Humans Abscesses on extremities; sore throat; pneumonia; arthritis; septicemia (blood poisoning); endocarditis

(inflammation of heart valves); meningitis

Clinical Signs-Animals Mastitis that does not respond well to treatment; enlarged lymph nodes; weight loss; liver abscesses; skin

abscesses; pneumonia

Control and Prevention

Fly control; clean/dry calving areas; dry off of affected cows; wear gloves to protect open wounds

Comments

None

Additional Information

http://www.phac-aspc.gc.ca/lab-bio/res/psds-ftss/msds2eeng.php

http://c.ymcdn.com/sites/www.aazv.org/resource/resmgr/ID M/IDM_Actinomycosis_2013.pdf



Boyine Brucellosis

JUNE 2015	BANG'S DISEASE
Cause	Brucella abortus bacteria
Risk of Exposure in Illinois	Low (Illinois is currently Brucellosis free)
Risk of Transmission to exposed people	High
Mode of Transmission	Contact with infected animals especially aborted fetuses, uterine fluids or membranes, and urine; inhalation or ingestion; accidental injection with vaccine strain; contact with objects capable of harboring bacteria
Incubation Period	Humans: 1 week- several months after infection Animals: Variable; stillbirths and abortion can be seen 2 weeks-5 months after infection
Clinical Signs- Humans	Fever; headache; chills; generalized weakness; nausea; weight loss; enlarged lymph nodes and spleen Asymptomatic infections can occur. Symptoms may persist for years either intermittently or continuously.
Clinical Signs- Animals	Late term abortion or birth of weak calves; decreased fertility; poor conception rate; retained afterbirths; decrease in milk production; inflammation of testis; testicular atrophy; cystic swelling on knee joints
Control and Prevention	Wear protective clothing around suspect animals; use cautious vaccination techniques; avoid non-pasteurized dairy products and undercooked meat.
Comments	Reportable disease in Illinois; potential bioterrorist agent
Additional Information	http://www.cdc.gov/brucellosis/ http://www.cfsph.iastate.edu/Factsheets/pdfs/brucellosis.pdf



Bovine Vibriosis

JUNE 2015	BOVINE CAMPYLOBACTERIOSIS
Cause	Campylobacter spp. bacteria
Risk of Exposure in Illinois	High
Risk of Transmission to exposed people	Moderate/High
Mode of Transmission	Ingestion (contaminated food/water, raw milk, fecal-oral) Direct contact
Incubation Period	Humans: 1-11 days (3-5 days most common) Animals: 3-25 days (although most cases are asymptomatic)
Clinical Signs- Humans	Systemic form (<i>C. fetus</i>)-chills; sweats; fever; cough; weight loss; anorexia; vomiting; diarrhea; late term abortion Intestinal form (<i>C. jejuni</i>)-acute diarrhea +/- blood; abdominal pain; vomiting; headache; vague sense of ill-being
Clinical Signs- Animals	C. fetus-infertility; abortion of early fetus C. jejuni-ocassional diarrhea
Control and Prevention	Dispose of aborted fetuses and placentas promptly; pasteurize milk; good personal hygiene
Comments	Person to person transmission has been observed.
Additional Information	http://www.cdc.gov/nczved/divisions/dfbmd/diseases/campylobacter/ bacter/ http://www.cfsph.iastate.edu/Factsheets/pdfs/campylobacteriosis. pdf http://coloradodisasterhelp.colostate.edu/prefair/disease/dz/Campylobacteriosis.html



Boyine Cryptosporidiosis

JUNE 2015	BOVINE CRYPTO
Cause	Cryptosporidium parvum protozoa parasite
Risk of Exposure in Illinois	High
Risk of Transmission to exposed people	High
Mode of Transmission	Fecal-oral; waterborne; airborne; foodborne
Incubation Period	Humans: 1-12 days (average is 7 days) Animals: 4-9 days; oocysts shed for up to 10 days
Clinical Signs- Human	Cramping; abdominal pain; profuse watery diarrhea; anorexia; weight loss; vomiting; headache; immunosuppressed patients exhibit more severe illness
Clinical Signs- Animals	Loss of appetite; mild to severe watery diarrhea; debilitation; dehydration; loss of body fat; feces may contain blood and/or mucus; symptoms most common in young calves and not affected by conventional antimicrobial therapy; many infections asymptomatic
Control and Prevention	Good personal hygiene, avoid contact with calves, especially calves with diarrhea; proper fecal waste disposal
Comments	Person to person transmission has been observed.
Additional Information	http://www.cfsph.iastate.edu/Factsheets/pdfs/cryptosporidios is.pdf http://www.cdc.gov/parasites/crypto/
	http://coloradodisasterhelp.colostate.edu/prefair/disease/d z/Cryptosporidiosis.html



Boyine Ringworm

JUNE 2015

DERMATOPHYTOSIS

Cause

Trichophyton spp.; *Microsporum* spp. fungi

Risk of Exposure in Illinois

Moderate

Risk of Transmission to exposed people

High

Mode of Transmission

Direct contact with infected animal, or indirect contact with contaminated objects capable of harboring the fungi

Incubation period

Humans: 7-14 days (can last from several days to few weeks)

Animals: 2-4 weeks

Clinical Signs-Humans Fungi generally grow in keratinized tissue such as hair, nails and outer layer of skin; mucous membranes not affected. Itching; "ringworm" lesion; hair loss; inflammation

Clinical Signs-Animals Focal areas of hair loss; raised, circular, non-itching skin lesions of variable size; occasionally generalized skin involvement. Most often around eyes in calves. Animals may have lesions on chest, limbs, dewlap, or face. Lesions usually resolve spontaneously in 2-4 months.

Control and Prevention

Sanitation; good personal hygiene; wear gloves when handling suspect animals or contaminated objects capable of harboring the fungi.

Comments

Person to person transmission has been observed.

Additional Information

http://www.cfsph.iastate.edu/Factsheets/pdfs/dermatophytosis.pdf http://www.vetmed.wisc.edu/pbs/zoonoses/systemic%20mycoses/dermat sporoindex.html

http://www.cdc.gov/healthypets/diseases/ringworm.html



Boyine E. Coli 0157:H7

http://www.cdc.gov/ecoli/index.html

E. COLI **JUNE 2015** Escherichia coli O157: H7 bacteria Cause Risk of Exposure Moderate in Illinois Risk of Variable Transmission to exposed people Mode of Ingestion (undercooked meat, contaminated water, raw Transmission milk); direct contact less often Incubation Humans: 2-9 days (3-4 days most common) Uncertain; fecal shedding weeks to months Period Animals: Acute bloody diarrhea; cramps with little or no fever; vomiting. (Commonly lasts about one week.) Clinical Signs-Occasionally hemolytic uremic syndrome (HUS) which is a Humans combination of symptoms that includes kidney failure, anemia, and blood clotting problems. Children <5 yrs of age, elderly and immunosuppressed individuals are at serious risk. This organism (0157:H7) generally does not cause disease Clinical Signsin cattle: E. coli can cause diarrhea in calves and mastitis in **Animals** cows. Control and Good personal hygiene; thoroughly cook meat Prevention Person to person transmission has been observed. Comments http://www.cfsph.iastate.edu/FastFacts/pdfs/ecoli_F.pdf Additional Information



Bovine Giardiasis

JUNE 2015

Cause

Giardia spp. protozoa parasite

Risk of Exposure in Illinois

Low/Moderate

Risk of Transmission to exposed people

High

Mode of Transmission

Ingestion (contaminated water, fecal-oral)

Incubation Period Human: 1-25 days Animal: 5-14 days

Clinical Signs-Human Sudden onset of diarrhea with foul-smelling stools; abdominal cramps; bloating; flatulence; nausea; fatigue; dehydration; chronic infections may occur.

Clinical Signs-Animal Adult animals may be asymptomatic; young animals-diarrhea or soft stools; poor hair coat; flatulence; weight loss or failure to gain weight

Control and Prevention

Good personal hygiene; thoroughly cook food; boil contaminated water; chlorine will not kill cysts.

Comments

Person to person transmission has been observed.

Additional Information

http://www.cfsph.iastate.edu/Factsheets/pdfs/giardiasis.pdf

http://www.cdc.gov/parasites/giardia/index.html



Bovine Johne's Disease

JUNE 2015

PARATUBERCULOSIS

Cause

Mycobacterium avium (paratuberculosis) bacteria

Risk of Exposure in Illinois

Moderate

Risk of Transmission to exposed people

Low (uncertain if zoonotic transmission occurs)

Mode of Transmission

Direct contact; ingestion (routes of transmission not proven)

Incubation Period Human: Uncertain

Animal: 1.5-5 years or longer

Clinical Signs-Human It has been suggested that Johne's disease is linked to Crohn's disease in humans, which causes chronic inflammatory intestinal disease and diarrhea.

Clinical Signs-Animal

Chronic profuse watery diarrhea and weight loss despite good appetite.

Control and Prevention

Good personal hygiene

Comments

Reportable disease in Illinois

http://www.cfsph.iastate.edu/Factsheets/pdfs/paratuberculosis.pdf

Additional Information

http://www.aphis.usda.gov/wps/portal/footer/topicsofinterest/applyingforpermi t?1dmy&urile=wcm%3apath%3a%2Faphis_content_library%2Fsa_our_focus% 2Fsa_animal_health%2Fsa_animal_disease_information%2Fsa_cattle_health% 2Fsa_johnes%2Fct_johnes_disease



Bovine Leptospirosis

JUNE 2015	LEPTO
Cause	Leptospira spp. bacterial spirochete
Risk of Exposure in Illinois	Moderate
Risk of Transmission to exposed people	High
Mode of Transmission	Ingestion of contaminated water; inhalation; direct contact with urine or through skin lesions; walking barefoot
Incubation Period	Human: 2 days-4 weeks Animal: 3-7 days; abortion several weeks in cattle
Clinical Signs- Human	Fever; headache; chills; cough; difficulty breathing; severe muscle pain or tenderness; reddening of the eyes; jaundice; meningitis; acute kidney failure; abortion
Clinical Signs- Animal	Usually asymptomatic; abortions often with retention of placenta; decreased fertility; fever; anorexia with rapid decline in milk yield and atypical mastitis; jaundice; blood in urine
Control and Prevention	Pasture drainage; protect water supply from animal contamination; wear protective clothing.
Comments	Person to person transmission has been observed.
Additional Information	http://www.cdc.gov/leptospirosis/index.html
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Boyine Listeriosis

JUNE 2015	CIRCLING DISEASE
Cause	Listeria monocytogenes bacteria
Risk of Exposure in Illinois	Moderate
Risk of Transmission to exposed people	Low (unless foodborne)
Mode of Transmission	Ingestion; direct contact; aerosol
Incubation Period	Human: Uncertain but considered to range from 3-70 days Animal: 10 days-3 weeks
Clinical Signs- Human	Flu-like symptoms: fever; diarrhea; headache; muscle aches; stiff neck; abortion, premature birth or sick newborn; meningitis; asymptomatic fecal carriers common; pregnant women, elderly and immunosuppressed individuals at increased risk
Clinical Signs- Animal	Encephalitis (circling, head tilt, ear droop, excessive salivation, incoordination, depression, etc); abortion; septicemia (blood poisoning); many cases are asymptomatic.
Control and Prevention	Use only good quality silage; control rodents; cook meat; pasteurize milk; good sanitation
Comments	Person to person transmission has been observed.
Additional Information	http://www.cfsph.iastate.edu/Factsheets/pdfs/listeriosis.pdf http://www.cdc.gov/listeria/index.html



Boyine Lyme Disease

JUNE 2015	BORRELIOSES
Cause	Borrelia bacterial spirochete
Risk of Exposure in Illinois	High in endemic areas
Risk of Transmission to exposed people	High
Mode of Transmission	Transmitted by ticks (not by cattle)
Incubation Period	Human: Uncertain but thought to range from 3 days- several weeks Animal: Variable
Clinical Signs- Human	Rash; flu-like symptoms (fever, headache, abdominal pain, vomiting); arthritis; meningitis; myocarditis (inflammation of heart muscle); persistent asymptomatic infection is possible.
Clinical Signs- Animal	Symptoms in cattle are nonspecific: arthritis, myocarditis, pneumonia and stillbirths
Control and Prevention	Application of insect repellent; wear light colored clothes; Avoid areas likely infected with ticks.
Comments	None
Additional Information	http://www.cdc.gov/lyme/index.html http://www.cfsph.iastate.edu/Factsheets/pdfs/lyme_disease.pdf



Boyine Papular Stomatitis

JUNE 2015	BOVINE PARAPOXVIRUS
Cause	Pox virus
Risk of Exposure in Illinois	Low
Risk of Transmission to exposed people	High if open wounds on skin
Mode of Transmission	Direct contact with lesion or mucous membranes of infected animals; contact with contaminated objects capable of harboring virus
Incubation Period	Human: 3-7 days Animal: 2-3 days
Clinical Signs- Human	Most infected people develop a single lesion although generalized infections have been reported. Small, firm papule at site of inoculation progressing to a weeping (can be painful) nodule that develops into a thick crust; low-grade fever; enlarged lymph nodes; secondary bacterial infection may occur.
Clinical Signs- Animal	Nodule, blister or pustule in oral cavity of calf. Occasionally affects teats or results in thick crusts on lips, nose, ears, eyelids, feet, or tail region.
Control and Prevention	Good personal hygiene; wear gloves if lesions are seen or when handling the mouth of susceptible calves.
Comments	Person to person transmission has been observed.
Additional Information	http://coloradodisasterhelp.colostate.edu/prefair/disease/dz/ Bovine%20Papular%20Stomatitis.html



Boyine Shipping Fever

JUNE 2015	PASTEURELLOSIS
Cause Risk of	Mannheimia hemolytica (previously Pasteurella hemolytica), Pasteurella multocida bacteria
Exposure in Illinois	High
Risk of Transmission to exposed people	Low
Mode of Transmission	Wound contamination; inhalation; ingestion
Incubation Period	Human: Via wound-less than 24 hours (up to 14 days) Animal: Approx. 1-3 weeks after being introduced to stressful situation
Clinical Signs- Human	Local redness; swelling; skin infection and abscess; less commonly chronic pneumonia; meningitis and generalized illness
Clinical Signs- Animal	Symptoms start out vague with slight depression, anorexia and fever; labored breathing and cough may be present; thick nasal discharge; generalized illness
Control and Prevention	Vaccinate livestock; minimize stress; good personal hygiene; avoid bites/scratches
Comments	None
Additional Information	http://cmr.asm.org/content/26/3/631.full
IIIIOIIIIdtioii	http://www.brdcomplex.org/files/bacterialpathogens.pdf



Bovine Milker's Nodules

JUNE 2015	PSEUDOCOWPOX
Cause	Pox virus
Risk of Exposure in Illinois	Low
Risk of Transmission to exposed people	High if open wounds on skin
Mode of Transmission	Direct contact with infected lesion
Incubation Period	Human: Several days Animal: 5-14 days
Clinical Signs- Human	Milker's nodules usually appear on the fingers, hands, or forearms of people who milk cows. May see nodules, blisters or pustules that scab over and may be painful. Healing can take up to several weeks often without a scar.
Clinical Signs- Animal	Area of redness on the teat or udder followed by the development of a pustule or blister that ruptures in approx. 48 hrs. leaving a scab; scab usually circular or horseshoeshaped.
Control and Prevention	Wear gloves when milking suspect cows; thorough handwashing after milking.
Comments	Person to person transmission has been observed.
Additional Information	http://coloradodisasterhelp.colostate.edu/prefair/disease/dz/ Psuedocowpox.html
	http://www.cfsph.iastate.edu/FastFacts/pdfs/pseudocowpox_F.pdf



Bovine Q-Fever

JUNE 2015

Cause

Coxiella burnetti rickettsial bacteria

Risk of Exposure in Illinois

Moderate

Risk of Transmission to exposed people

High

Mode of Transmission

Inhalation (aerosol); ingestion; direct contact- organism is shed in placenta, vaginal secretions, urine, feces, milk; can be spread by ticks

Incubation Period Human: 2-5 weeks Animal: Variable

Clinical Signs-Human Most cases are asymptomatic; sudden onset of fever; chills; frontal headache; weakness; muscle spasms; profuse sweating. Less commonly, hepatitis, endocarditis (inflammation of the innermost covering of the heart), premature birth, stillbirth, abortion, nonproductive cough or chest pain

Clinical Signs-Animal Most infections are asymptomatic; reproductive failure may be the only symptom; abortions late in pregnancy; stillbirths; retained placenta; uterine infection; infertility

Control and Prevention

Wear protective clothing/gloves when assisting with calving or milking if infection is suspected in herd; appropriately dispose of placenta and aborted fetuses; drink only pasteurized milk; good personal hygiene

Comments

Reportable disease in Illinois; potential bioterrorist agent

Additional Information

http://www.cdc.gov/qfever/

http://www.cfsph.iastate.edu/Factsheets/pdfs/q_fever.pdf



Bovine Rabies

JUNE 2015

Cause

Rhabdovirus

Risk of Exposure in Illinois

Low

Risk of Transmission to exposed people

High

Mode of Transmission

Direct contact with infected saliva into break in skin or mucous membranes; animal bite

Incubation Period Human: 10 days-3 months (up to years; depends on location

of bite/exposure)

Animal: 10 days-6 months

Clinical Signs-Human Headache; fever; general ill-being; abnormal behavior; weakness or paralysis; difficulty swallowing; delirium;

convulsions; death

Clinical Signs-Animal Restlessness; anorexia or increased appetite; any abnormal behavior or neurological signs (ataxia, incoordination, aggression, paralysis, etc); fever; abnormal bellowing; death

Control and Prevention

Wear gloves when handling suspect animals; vaccination program for animals and individuals at high risk

Comments

Reportable disease in Illinois; seek medical attention immediately if exposure is suspected; person to person transmission has been observed.

Additional Information

http://www.cdc.gov/rabies/

http://www.cfsph.iastate.edu/Factsheets/pdfs/rabies.pdf



Bovine Salmonellosis

JUNE 20015

Cause

Salmonella spp. bacteria

Risk of Exposure in Illinois

High

Risk of Transmission to exposed people

Moderate

Mode of Transmission

Ingestion (fecal-oral); contaminated food and water;

direct contact

Incubation Period

Human: 12 hours-3 days

Animal: Highly variable; often symptoms do not appear

until the animal is stressed; commonly 1-5 days

Clinical Signs-Human Varies from self-limiting gastroenteritis to generalized illness; vomiting; watery diarrhea; low grade fever; abdominal pain

Clinical Signs-Animal Diarrhea; dehydration and generalized illness which may lead to death; dairy cows-acute drop in milk yield; abortion and uterine infection with temporary infertility; asymptomatic infections common

Control and Prevention

Wash hands after contact with animal feces; wear protective clothing when working with diarrheic cattle; do not consume unpasteurized or raw dairy products; cook meat thoroughly.

Comments

Person to person transmission has been observed.

http://www.cdc.gov/salmonella/

Additional Information

http://www.cfsph.iastate.edu/Factsheets/pdfs/nontyphoidal_salmo nellosis.pdf



Boyine Sarcosporidiosis

JUNE 2015	SARCOCYSTOSIS
Cause	Sarcocystis spp. protozoal parasite
Risk of Exposure in Illinois	Not transmitted from cattle to humans except in meat; exposure to feces of definitive hosts is high on livestock farms
Risk of Transmission to exposed people	High
Mode of Transmission	Ingestion of undercooked meat; fecal-oral transmission from definitive hosts (dogs, cats, wildlife, birds); fly transmission possible
Incubation Period	Human: 3 hours-18 days Animal: 10 days-years
Clinical Signs- Human	May be asymptomatic; reddening of skin; muscle weakness or pain; fever; abdominal pain; diarrhea; vomiting
Clinical Signs- Animal	Usually asymptomatic; in heavily infected cattle-fever; anorexia; diarrhea; abortion; neurological signs; muscle spasms; pneumonia, anemia; jaundice; death
Control and Prevention	Cook meat thoroughly; wash hands thoroughly; good sanitation and hygiene
Comments	Disease is more common in cultures where raw meat is commonly eaten.
Additional Information	http://www.cfsph.iastate.edu/Factsheets/pdfs/sarcocystosis.pdf http://www.michigan.gov/dnr/0,1607,7-153-10370 12150 12220- 27272,00.html



Boyine *Staphylococcus* aureus

JUNE 2015	STAPH. AUREUS
Cause	Staphylococcus aureus bacteria
Risk of Exposure in Illinois	High (S. aureus is natural skin organism)
Risk of Transmission to exposed people	Low (unless foodborne)
Mode of Transmission	Ingestion; wound contamination
Incubation Period	Human: 1-12 hours Animal: 4-10 days
Clinical Signs- Human	Predominantly asymptomatic infections; abdominal cramps, diarrhea, vomiting; boils, impetigo, abscesses in skin; occasionally pneumonia, endocarditis (inflammation of the innermost covering of the heart), bone infections
Clinical Signs- Animal	Clinical or asymptomatic mastitis; decreased milk production
Control and Prevention	Good milking techniques; identify and treat or cull infected animals; sample new cows; good personal hygiene; pasteurize milk
Comments	Human to cow transmission possible.
Additional Information	http://www.cdc.gov/ncidod/dbmd/diseaseinfo/staphylococcus_food_g.htm http://www.cfsph.iastate.edu/Factsheets/pdfs/staphylococcal_enterotoxin_b



Boyine Streptococcus

JUNE 2015	STREP
Cause	Streptococcus spp. bacteria
Risk of Exposure in Illinois	High
Risk of Transmission to exposed people	Low unless foodborne
Mode of Transmission	Direct contact; consumption of raw milk/dairy products
Incubation Period	Human: 1-3 days; variable Animal: Variable
Clinical Signs- Human	Sore throat; scarlet fever; rheumatic fever; difficult breathing; generalized illness; urinary tract infection
Clinical Signs- Animal	Clinical or asymptomatic mastitis; decreased milk production
Control and Prevention	Good milking techniques; identify and treat infected animals; sample new cows; good personal hygiene; pasteurize milk
Comments	Neonates and infants highly susceptible; human to cow transmission possible
Additional Information	http://www.cfsph.iastate.edu/Factsheets/pdfs/streptococcosis.pdf http://www.vetmed.wisc.edu/pbs/zoonoses/Streptococcus/streptBCD GLM.html



Bovine Tetanus

JUNE 2015

Cause

Clostridium tetani bacteria

Risk of Exposure in Illinois

Low

Risk of Transmission to exposed people

High if open wounds on skin

Mode of Transmission

Direct contact; penetrating wound

Incubation Period Human: 8 days (ranges from 3 days-21 days)

Animal: Variable (3 days-3 weeks)

Clinical Signs-Human Headache; muscle stiffness in jaw (lock jaw) followed by stiffness in neck; difficulty swallowing; rigidity of abdominal

muscles; spasms; sweating; fever; death

Clinical Signs-Animal Muscle stiffness; lack of coordination; inability to eat or drink;

bloat; death

Control and Prevention

Immunization; appropriate treatment of wounds; wear gloves

when working with affected animals.

Comments Tetanus vaccination recommended for farm workers.

Additional Information

http://www.health.state.ny.us/nysdoh/communicable_diseases/en/tetanus.htm

http://www.cdc.gov/vaccines/pubs/pinkbook/downloads/teta nus.pdf



Boyine Toxoplasmosis

TOXO JUNE 2015 Toxoplasma gondii protozoa parasite Cause Risk of Exposure in Not transmitted from cattle to humans except in meat; exposure to feces of definitive hosts is high on livestock Illinois farms. Risk of Transmission to exposed High people Mode of Transmission Ingestion of undercooked meat; fecal oral transmission from cats on farm Incubation Human: 5-23 days Period Animal: Suspect similar to humans Infection is common but clinical illness is low: flu-like Clinical Signssymptoms: fever; headache; weakness; also fetal death; congenital abnormalities; encephalitis; immunocompromised Human patients are at high risk. Most infections asymptomatic; abortions; stillbirths; fever; Clinical Signs-Animal respiratory distress Control and Prevention Cook meat thoroughly; good personal hygiene; avoid contact with cat feces, esp. if pregnant. Comments Person to person transmission only in utero. Additional http://www.cfsph.iastate.edu/Factsheets/pdfs/toxocariasis.pdf Information http://www.cdc.gov/toxoplasmosis/



Boyine Transmissible Spongioform Encephalopathy

JUNE 2015	TSE/BSE
Cause	Prion
Risk of Exposure in Illinois	Negligible
Risk of Transmission to exposed people	Low
Mode of Transmission	Ingestion
Incubation Period	Human: More than 16 years Animal: 3-8 years
Clinical Signs- Human	Confusion; personality changes; behavioral changes; weakness; muscle spasms; changes in vision
Clinical Signs- Animal	Behavioral disturbances; neurological signs; wasting and paralysis; death
Control and Prevention	Slaughtered animals may be tested for BSE before released for consumption; necropsy cattle with neurological signs.
Comments	Reportable disease in Illinois; person to person transmission has been observed; potential bioterrorist agent
Additional Information	<pre>http://www.cdc.gov/ncidod/dvrd/bse/ http://www.cfsph.iastate.edu/Factsheets/pdfs/transmissible_s</pre>



Boyine Tuberculosis

JUNE 2015	ТВ
Cause	Mycobacterium bovis bacteria
Risk of Exposure in Illinois	Low (Illinois is currently TB free)
Risk of Transmission to exposed people	High
Mode of Transmission	Ingestion (unpasteurized milk or dairy products); inhalation; aerosol; direct injury to skin/mucous membranes
Incubation Period	Humans: 4-6 weeks Animals: Variable
Clinical Signs- Human	Clinical signs depend on route of infection and may be asymptomatic; cough; cervical adenitis (inflammation of lymph node or gland in neck); genitourinary infection (organs of reproduction and urination); lesions in bones and joints; meningitis; pneumonia; may be severe in immunosuppressed patients.
Clinical Signs- Animal	Chronic condition; may be asymptomatic; weakness; anorexia; weight loss; enlarged lymph nodes; bronchopneumonia; dyspnea (difficulty in breathing); death
Control and Prevention Comments	Pasteurize milk; depopulate positive herds; test/treat human cases Reportable disease in Illinois
Additional Information	http://www.cdc.gov/tb/ http://www.cfsph.iastate.edu/Factsheets/pdfs/bovine_tuberc ulosis.pdf



Boyine Vesicular Stomatitis

JUNE 2015

Cause

Rhabdovirus

Risk of Exposure in Illinois

Low

Risk of Transmission to exposed people

Low/Moderate

Mode of Transmission

Animal contact; contact with contaminated objects capable of

harboring virus; insect vectors; aerosol

Incubation Period Humans: 1-6 days (30 hours average)

Animals: 2-8 days

Clinical Signs-Human Acute influenza-like illness; fever; muscle aches; headaches;

general ill-being; nausea

Clinical Signs-Animal Vesicles on mouth, dental pad, hooves and teats; fever; excessive salivation; vesicles will rupture and will leave open, raw wounds. Virus particles disappear within a week after

the vesicles rupture.

Control and Prevention

Good sanitation and quarantine practices; on farm insect

control; disinfection program

Comments

Reportable disease in Illinois

Additional Information

http://www.cfsph.iastate.edu/Factsheets/pdfs/vesicular_stomatitis.pdf

https://www.cvmbs.colostate.edu/ilm/proinfo/cdn/2005/VS_webinfo.pdf



Bovine Yersiniosis

JUNE 2015	YERSINIA
Cause	Yersinia spp. bacteria
Risk of Exposure in Illinois	Low
Risk of Transmission to exposed people	High
Mode of Transmission	Ingestion of food, milk, or water contaminated by feces of carriers; infection of rodents transmitted to humans by bite of infected flea; direct contact with infected blood or tissues
Incubation Period	Human: 2 to 8 days Animal: Uncertain
Clinical Signs- Human	Mimics clinical signs similar to appendicitis; fever; abdominal tenderness; anorexia; vomiting; enteritis with diarrhea; respiratory illness
Clinical Signs- Animals	Acute septicemia; enteritis with diarrhea; abortion; may be fatal; asymptomatic carriers
Control and Prevention	Prevent fecal contamination of food and drinking water; pasteurize milk; good personal hygiene
Comments	Potential bioterrorist agent; Person to person transmission has been observed.
Additional Information	https://www.avma.org/News/Journals/Collections/Documen ts/javma_222_4_444.pdf
	http://www.cdc.gov/nczved/divisions/dfbmd/diseases/yersinia/