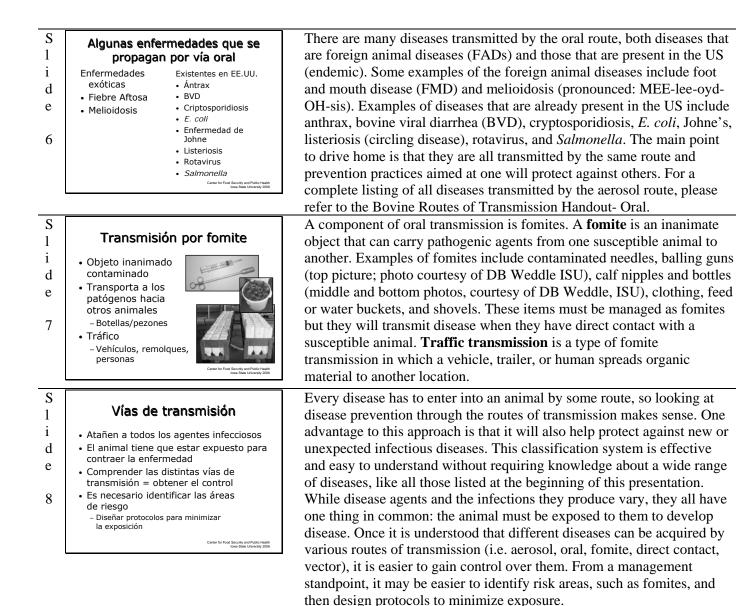
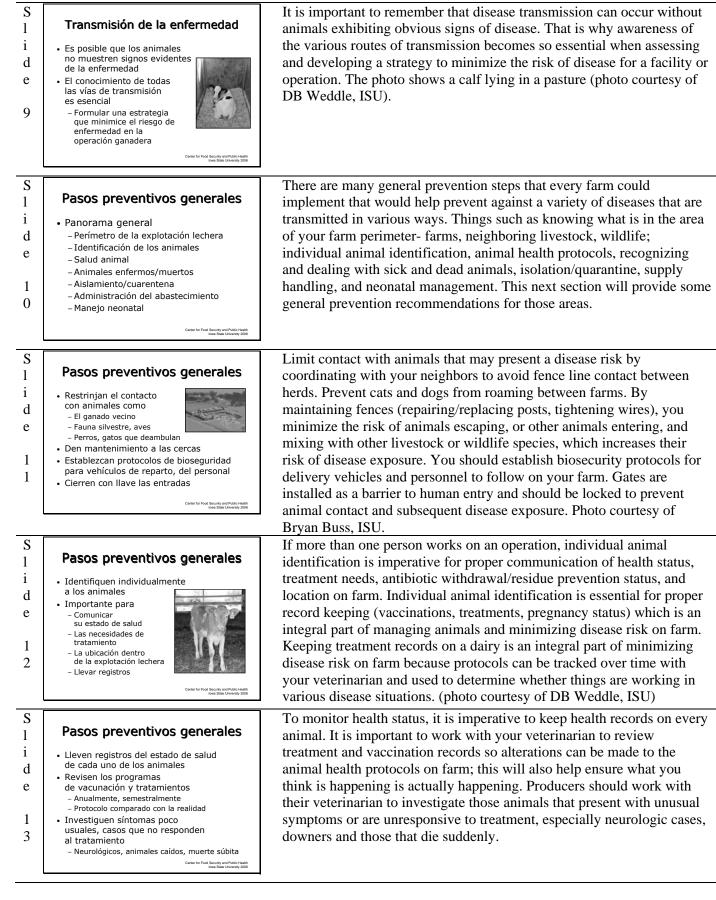


(photo source USDA).





S Pasos preventivos generales i • Capaciten al personal de la explotación para que reporte a los animales enfermos d • Inspeccionen a los animales enfermos e • Equipo, botas, vestimenta limpios • De manera inmediata y adecuada, sacrifiquen • Ios animales terminalmente enfermos 1 a los animales terminalmente enfermos - Retirándolos del predio o beneficiándolos para extraer grasa • Realicen la autopsia a los animales que

 Realicen la autopsia a los animales que hayan muerto por causas desconocidas
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S Pasos preventivos generales i . Almacenen las vacunas y antibióticos que no requieren refrigeración fuera de la luz de sol ya que ésta podría desactivarlos e . Monitoreen mensualmente

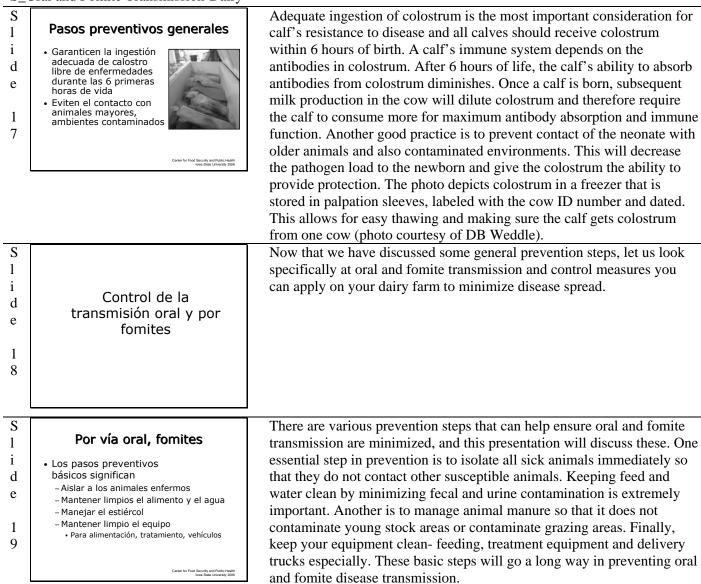
la temperatura de refrigeración – Temperatura ideal 36-46°F Restrinjan el acceso a las medicinas para que solo lo tenga el personal debidamente capacitado

> Center for Food Security and Public Health Iowia State University 2006

By establishing and educating all employees on what to look for regarding sick animals and having a reporting system so that those in charge can make treatment decisions or the veterinarian can be contacted, serious diseases can be identified early on and minimize the risk of disease spread. It is important to clean any equipment, boots, clothing that is used between groups of animals with differing health status. Animals that are not going to recover can serve as a reservoir for many disease organisms and should be euthanized humanely and in a timely manner. Dead animals can also serve as a reservoir for many disease organisms and should be promptly removed from the operation. Dead animals need to be rendered, composted or buried in a timely manner so predators, wild birds, etc do not spread disease. By having a veterinarian necropsy animals that die of undetermined causes, a diagnosis may be obtained by sending samples into a diagnostic laboratory. Unusual diseases may not present in a manner you are used to, so involving a veterinarian may help identify a potentially infectious disease before it becomes widespread on your facility. Photo depicts an Ayrshire calf being necropsied and samples being collected for diagnostic testing (courtesy of UC Davis VMTRC).

Cows that are identified as ill should be removed from the rest of the herd immediately and placed in an isolation area where ventilation, feed/water, and other equipment and is not shared and direct contact with other animals does not occur in order to minimize the risk of disease spread. Newly introduced animals, including show cattle/calves that have been away from the farm as pictured here, may be carrying diseases that your home herd is not immune to, so quarantine them for a period of time. Time spent in isolation and quarantine varies depending on the risk so this should be determined together with your herd veterinarian. Before taking animals out of isolation or quarantine, it is a good risk management plan to test them for key diseases (determined together with your herd veterinarian) and make sure they are not carrying diseases that could be introduced into the home herd. Photo courtesy of DB Weddle, ISU.

Sunlight deactivates vaccines and can render antibiotics ineffective, causing inadequate protection or treatment when used in your animals; make sure you read the label and store properly. Vaccines and medicines that need to be refrigerated are susceptible to changes in temperature and may not be effective if they get too warm (greater than 46 degrees Fahrenheit) or too cold/frozen (less than 36 degrees Fahrenheit); monitoring your refrigerator at least monthly can help ensure the products are adequately stored. Work with your veterinarian to teach proper handling procedures to all people who routinely deal with vaccines and medicine and restrict access to only trained personnel. The photo depicts a refrigerator on a dairy farm with a thermometer-purchased for less than \$3 at a large retail store (photo courtesy of DB Weddle, ISU).



Aislamiento

i • Las enfermedades diarreicas propagan organismos d

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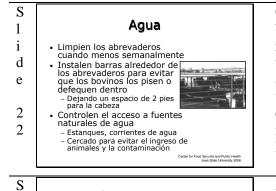
· La separación es esencial para minimizar la propagación



 Los equipos para alimentación y para suministro de agua debe separarse Center for Food Security and Public Health that they do not contact other susceptible animals. Keeping feed and water clean by minimizing fecal and urine contamination is extremely important. Another is to manage animal manure so that it does not contaminate young stock areas or contaminate grazing areas. Finally, keep your equipment clean- feeding, treatment equipment and delivery trucks especially. These basic steps will go a long way in preventing oral and fomite disease transmission. Isolation and quarantine were discussed under general prevention, so we will not cover that in detail here. For diarrheal diseases (Salmonella, crypto, rotavirus), animals shed thousands, even millions of organisms into the environment and should be separated from susceptible animals.

Separate equipment for feeding and watering are important to minimize disease spread. The animal in this photo should be removed from this group pen so as not to expose the other calves; photo courtesy of DB Weddle, ISU.





Alimento y agua

Alimento y agua

 Control de aves Las aves son portadoras

de enfermedades

A menudo difíciles de controla

No fomenten que hagan nidos o usen de percha ciertos sitios

Pónganse en contacto con la oficina de servicios de extensión para obtener

· Limiten que tengan acceso al alimento

i d e	Control de roedores/plagas • Los roedores pueden ser portadores de enfermedades y contaminar el alimento – Heres u orina	
2 3	 Programas de control de roedores Inhibidores, cebos o veneno, trampas Limpien el alimento derramado 	

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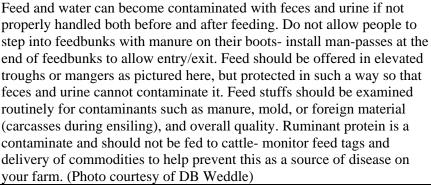
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Clean waterers at least once a week (more often if needed) to avoid buildup that allows disease organisms, like Salmonella, to grow. Install rails around waterers with 2 feet of clearance to allow their heads to pass through but prevent cattle from stepping or defecating into the trough. If a natural water source, such as a pond or stream, is the main drinking water for the herd, control access so that cattle can drink from it but not enter and potentially contaminate it. This can be done with strategic fencing and a concrete or gravel rock pad leading into the water source. Photo courtesy of DB Weddle, ISU.

As stated earlier, the greatest threat for exposure to orally transmitted disease is ingestion of disease causing agents in the environment or in feed and water contaminated by other animals. Rodents can carry diseases that affect cattle and can readily contaminate feed with their feces and urine. Every operation should have a rodent control program. Control measures that should be considered include the use of deterrents, baits/poisons and traps as pictured- closed box top photo, open box bottom photo. These boxes would benefit by having a bit of water added to them to attract the rodents to the bait. In addition, attempts should be made to secure all feed storage areas, clean up spilled feed, and avoid having excess feed available to any animals (e.g. wildlife, birds, vermin, dogs, cats, horses, cattle, sheep). For specific information about rodent control, refer to the Bird and Rodent Control Measures handout. Photos courtesy of DB Weddle, ISU.

Birds are also disease carriers, Salmonella for instance, and while it is nearly impossible to eliminate them from animal housing areas, steps should be taken to discourage their nesting and roosting. There are legal regulations in many areas, so check with your local extension office for recommendations. The risk of feed contamination by birds may be as important as that by rodents so it is important to limit their access and clean up spilled feed so it is not an attractant. Top photo depicts a farm yard with hundreds of birds roosting on the roof and fence (courtesy of http://ianrpubs.unl.edu/wildlife/graphics/ncr451p1.GIF) and the bottom photo is a common scene on many farms where the birds are eating right out of the feedbunk with cattle (courtesy of http://whyfiles.org/193prion/images/feedlot.jpg).

