

### Vaccination During Animal Disease Emergencies

Overview
Basic Mechanics





#### Vaccines in Animals

- Disease prevention intervention
- Regulated by the U.S. Department of Agriculture, Center for Veterinary Biologics
  - Veterinary biologics for commercial use must be produced at a USDA-approved establishment, and be demonstrated to be pure, safe, potent, and efficacious

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#### National Veterinary Stockpile

- Established through HSPD 9
- Countermeasures for damaging animal diseases
- Deployment within 24 hours

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#### Types of Vaccines

- Types
  - Modified live vaccines (MLV)
  - Killed inactivated vaccines
- Withdrawal times
- Use determined by
  - Disease
  - Species
  - Vaccine availability
  - Approval for use

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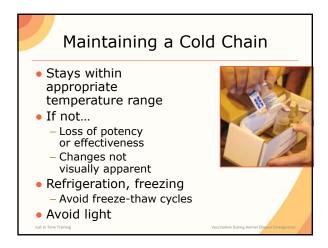
#### Vaccine Administration

- Single use disposable syringes
- Automatic multidose syringes
- Bottle-mount syringe (automatic self-filling syringe)
- Parenteral
  - IntramuscularSubcutaneous
- Intranasal
- Needle-free injection
- Ocular
- Oral
- Spray/topical

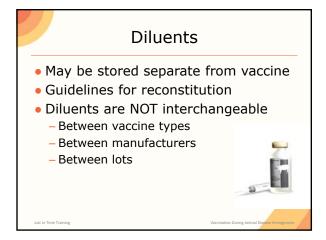
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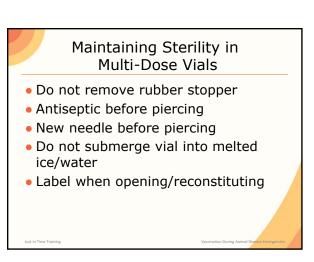
# VACCINE HANDLING

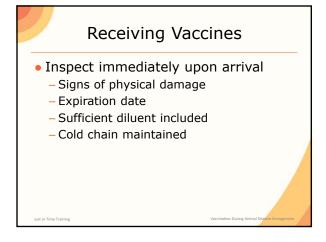
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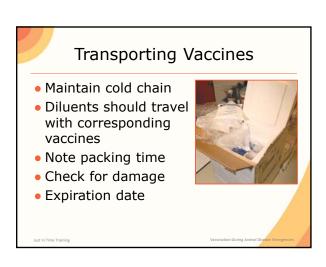












#### If the Cold Chain is Broken

- Any indication that a proper temperature has not been maintained:
  - Mark the vaccine "DO NOT USE"
  - Contact supervisor or other authority for further instructions
  - Do NOT immediately discard the vaccine unless directed to do so

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#### Vaccination Strategies During an Outbreak

- Dependent upon
  - Scope of the outbreak
  - Objectives
  - Population at risk
  - Nature of the disease
  - Resource availability
  - Geographic considerations
  - Trade restrictions
  - Resource availability

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- Suppressive vs. targeted vaccination
- Depopulation



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# PREVENTING DISEASE TRANSMISSION DURING VACCINATION

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## Preventing Disease Transmission During Vaccination

- Biosecurity
  - Wash hands
  - Wear gloves
  - Use new needle
  - Disinfect reusable equipment
  - Dispose of trash on-site
  - Wear disposable shoe covers/boots

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#### Record Keeping

- Individual and/or group animal IDs
- Name, address of animal owner
- Species, age, sex, breed of animals
- Date of vaccination
- Route, location of vaccination
- All vaccine information
  - Include withdrawal time

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#### Personal Safety When Vaccinating

- Needle sticks
- Vaccine exposure
- Sharps disposal
- Animal hazards
  - Livestock handling, restraint
- Environmental hazards



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