About Me...

- 3rd Year Veterinary Student
  - St. George’s University, Grenada

- National SAVMA
  - Global and Public Health Officer-Elect 2013

- Pet Photography
North Carolina Department of Health and Human Services

- Background and Function
- Products
- Activities
- Competencies
North Carolina Department of Health and Human Services

- Executive Organization Act of 1971
- Raleigh, North Carolina
- Protect the health and safety of all North Carolinians while providing essential human services in collaboration with their many partners and affiliations
Mentor

- Dr. Marilyn Goss Haskell
  - DVM - University of Florida
  - MPH - Medical College of Virginia

- Public Health Veterinarian and Epidemiologist
Communicable Disease Branch

- Downtown Raleigh
- Home Rule State
  - 86 Autonomous Local Health Departments
- Medical Consultation Unit
- Surveillance
- HIPAA
Surveillance

- North Carolina Disease Event Tracking and Epidemiologic Collection Tool (NC DETECT)
  - Unique to North Carolina
  - Real-Time Surveillance
  - International Classification of Diseases (ICD)
    - Emergency Departments / Urgent Care
    - Carolinas Poison Control Centers
- Earlier event detection than with reporting alone
Surveillance

- North Carolina Electronic Disease Surveillance System (NC EDSS)
  - CDC Initiative to move to electronic based surveillance
  - Reporting to State
  - Reporting to CDC
    - De-Identified Information
  - IT
Products Developed

- Animals in Public Settings North Carolina Guidance Document
- Staying Safe Around Dogs
- Rabies Sample Submission Questionnaire
- Public Health Practice
- Journal of Activities
Animals in Public Settings
North Carolina

- Original Product:
  - Update existing Animals in Schools

- Recent NC Events
  - Aedins Law 2005
    - Exhibition regulation and permit requirements
    - 2011

- Change in need for the document
ANIMALS IN PUBLIC SETTINGS
NORTH CAROLINA GUIDE

INTRODUCTION

This guide is designed to provide a quick reference to resources for North Carolina animal exhibitors and operators of multiple animal venues to assist in creating healthy and safe environments for the public to interact with animals. Human contact with animals and animal excrements (urine, feces, saliva, birthing fluids, etc.) may be associated with zoonotic disease transmission. Zoonotic diseases are infectious diseases transmitted from vertebrate animals to humans. Young children, the elderly and immune-compromised persons are especially susceptible.
Animals in Public Settings
North Carolina

- Laws, Codes, Regulations
- Authoritative Guidance
- Contacts
- Venues
Animals in Public Settings
North Carolina

- Hyperlinked
- Benefits
  - Broad
  - Guides the User
  - Organization
Animals in Public Settings
North Carolina

- Problems:
  - PDF on Website
  - Cannot directly link to NCAC
- Update Constantly
Animals in Public Settings
North Carolina

- Venues Refer Back
Animals in Public Settings
North Carolina

- Changes:
  - Add Allergy Section
  - Add summary for each Section
  - Compendia 2013
Staying Safe Around Dogs

- Created to prevent dog bites in children
- Children (boys) ages 5-9
- End of the School year
- Given by LHD Nurses or Animal Control Officers
Staying Safe Around Dogs

- FUN

When Should We Pet Dogs?
- This dog is eating.
- Should we pet her?
- STAY AWAY and come back later.

Say It Again, Please...
- STAY AWAY when dogs are chewing on bones or eating food.
Staying Safe Around Dogs

- Obstacles in Photography
Staying Safe Around Dogs

- Recommendations of the American Veterinary Medical Association
Staying Safe Around Dogs

- Included approach by a dog
- Knocked down
- Protection
Staying Safe Around Dogs

- Script / Guide for presenter
- Re-work
- More Interactive
- Q and A session
- Include Cats
Rabies Sample Submission Questionnaire

- Submitter
- Positive Cases
- General Information about the exposure

A. Person being interviewed or completing the questionnaire:
   - Owner's veterinarian
   - Wildlife officer
   - Other
   - Animal control officer

B. Did the submitter have an established relationship with the animal and client prior to onset of symptoms?
   - Yes (please go to C)
   - No (please go to D)

C. Approximately how many times had you seen the patient prior to onset of symptoms?
   - 1 to 3 times
   - 4 to 10 times
   - More than 10 times

D. Animal info (circle or fill in the blank):
   - Species:
     - Dog
     - Cat
     - Horse
     - Cow
     - Other (specify)
   - Sex:
     - Male
     - Female
   - Status:
     - Spayed neutered
     - Intact
   - Approximate age (years):
     - Less than 1 year old
     - 1 to 2 years old
     - 2 to 4 years old
     - 4 to 8 years old
     - 8 years old or more

E. Housing:
   - Indoors
   - Outdoors
   - Indoor/outdoor mix
   - Unknown

County/City and state residing in or found in:
   - County/City:
   - State:
Rabies Sample Submission Questionnaire

- Behavioral
- Central Nervous System Signs
- Digestive
- Other
Rabies Sample Submission Questionnaire

- Additions:
- Veterinarian Information
- Ownership Status
- Type of Exposure
- Feral Cat Management in County

<table>
<thead>
<tr>
<th>Question</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Person being interviewed or completing the questionnaire?</td>
<td>Name(s): Owner's Veterinarian:</td>
</tr>
<tr>
<td>D1. Animal Information (circle or fill in the blanks)</td>
<td>Species: Dog, Cat, Horse, Cow,</td>
</tr>
<tr>
<td>D2. Sex:</td>
<td>Other (specify: )</td>
</tr>
<tr>
<td>D3. Status:</td>
<td>Yes, No, Unknown</td>
</tr>
<tr>
<td>E. Housing:</td>
<td>Indoor, Outdoor, Indoor/Outdoor,</td>
</tr>
<tr>
<td>F. County/City and state of residence/capture:</td>
<td>Unknown</td>
</tr>
<tr>
<td>G. Did the submitter have an established relationship with the animal</td>
<td>Yes, No, Unknown</td>
</tr>
<tr>
<td>H. Does the county of residence/capture have a local Feral Cat</td>
<td>Other (specify: )</td>
</tr>
<tr>
<td>I. Were there human exposures to this animal?</td>
<td>Yes, No, Unknown</td>
</tr>
<tr>
<td>J. Has the animal ever been vaccinated against Rabies?</td>
<td>Yes, No, Unknown</td>
</tr>
</tbody>
</table>
Public Health Practice

• Short Summary
• Public Health Practice
Journal

- Log of Activities
- Things to look up!
- Contacts
- HIPAA
Activities

- Rabies On-Call
- Communicable Disease On-Call
- Conference Calls for Outbreak Investigations
- State Laboratory for Public Health
- Rollins Laboratory for Animal Diseases
- Wake County Food Inspection
- HIV Bridge Counseling
- USDA National Poultry Improvement Plan
- Occupational and Environmental Epidemiology Branch
- Orange County Animal Services
Rabies On-call

- Veterinary Public Health Program
- 24/7 Support
  - Local Health Departments
  - Healthcare Providers
  - Veterinarians
  - State Agencies
  - Public
- Rabies Public Health Program Manual - Online
- Algorithm publication
  - High vs. Low risk animals
Communicable Disease On-call

- Similar in Support
  - Hospital Acquired Infection
  - Vaccine-Preventable Disease
  - Sexually Transmitted Disease
  - Foodborne Disease
  - Potential Bioterrorism Agent Reporting
Communicable Disease On-Call

- Conference Calls
- Outbreak Investigations
  - Legionnaire’s outbreak in a hospital
  - Carbapenem-resistant Enterobacteriaceae outbreak in a long-term care facility
  - Bat Infestation and exclusion situation within a state mental health facility
    - Wildlife Resource Commission
    - ILDH
State Laboratory for Public Health

- Rabies Testing
- HIV Testing
SLPH - HIV Testing

Enzyme Immunosorbent Assay (EIA)
SLPH - Rabies Testing

- Ordered By Risk
- Direct Fluorescent Antibody (DFA)
- Variant Typing
- Indefinitely stored
- Positives sent to CDC
Rollins Laboratory for Animal Diseases
Rollins Laboratory for Animal Diseases

- North Carolina Department of Agriculture and Consumer Services
- Veterinary Diagnostic Laboratory System
- Reportable Disease List - State Veterinarian
- BSL-3 Laboratory Facilities
- Necropsy Services - public
Rollins Laboratory for Animal Diseases
USDA APHIS

• National Poultry Improvement Plan

• Establishes standards for poultry breeding stock and hatchery products, and certifies that poultry are free from egg transmitted and hatchery disseminated diseases:
  • *Salmonella pullorum*
  • *Salmonella gallinarum*
  • Avian Mycoplasmas
  • *Salmonella enterica*
  • Avian Influenza
National Poultry Improvement Plan

- Backyard vs Commercial
- Quarterly
  - Pullorum
  - Avian Influenza
Occupational and Environmental Epidemiology

- Epidemiology Branch
- Industrial Hygienist On-call
  - MOLD - No acceptable Level
  - Risk Analysis - N95 Masks
- Bioterrorism Meeting
  - CDC case definition, treatment
- De-briefing industrial CO poisoning
North Carolina Department of Health and Human Services

Divisions

Sections

Branches

Public Health

Epidemiology

Communicable Disease

Occupational and Environmental Epidemiology

Preparedness and Response

State Laboratory of Public Health

Office of Chief Medical Examiner

Vital Records

Environmental Health
Wake County Environmental Services

- Food Inspection
- 3 Team Leaders
  - 17 Field Inspectors
  - Report to LHD
- Addendum
- Most outbreak investigations -
  - Employee handling or illness
HIV Bridge Counseling

- Viral Suppression
- NOT a notifier
- Loss of care
  - 9 months or longer
- Identification
- Line list
County Animal Shelter
Animal Services

- Uphold Ordinances
- Enforce Civil Penalties
Core Competencies

- Pathogens / Pathogenic Mechanisms
- Host Response to Pathogens
- Environmental / Ecological Influences
- Disease Surveillance
- Effective Communication