

# Rabies: Human Risk Assessment Table Top Exercise

5<sup>th</sup> Annual CD Skills Development Conference

May 2014

# Objectives

- **Become familiar with new Agreement Addenda 510 requirements related to Rabies Control**
- **Become familiar with NC Rabies Public Health Program Manual, located on-line at: <http://epi.publichealth.nc.gov/cd/lhds/manuals/rabies/toc.html>**
- **Review common rabies scenarios and apply North Carolina guidance**

# Agreement Addenda 510

## Rabies Control

# Division of Public Health

## Agreement Addendum

### FY 14–15

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**Local Health Department Legal Name**

510 - General Communicable Disease Control

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**Activity Number and Description**

June 1, 2014 – May 31, 2015

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**Service Period**

July 1, 2014 – June 30, 2015

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**Payment Period**

**Original Agreement Addendum**

**Agreement Addendum Revision # \_\_\_\_\_** (Please do not put the Budgetary Estimate revision # here.)

**I. Background:**

The mission of the North Carolina Communicable Disease Branch (CDB) is to reduce morbidity and mortality resulting from communicable diseases that are a significant threat to the public through detection, tracking, investigation, control, education and care activities to improve the health of people in North Carolina.

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Epidemiology/Communicable Disease Branch

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**DPH Section/Branch Name**

Kathryn Dail, 919-715-7396

kathy.dail@dhhs.nc.gov

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**DPH Program Contact**

(name, telephone number with area code, and email)

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**DPH Program Signature**

**Date**

(only required for a negotiable agreement addendum)

### **III. Scope of Work and Deliverables:**

4. Per NCGS 130A-41(b)10, the Local Health Director is responsible for examination, investigation, and control of rabies.

LHD clinical staff will provide guidance to persons, utilizing the North Carolina Rabies Manual, <http://epi.publichealth.nc.gov/cd/lhds/manuals/rabies/toc.html>, pertaining to:

- Obtaining rabies pre-exposure immunization
- Human rabies risk assessment
- Rabies post-exposure prophylaxis in persons
- Sending staff to regional training

# AA510 – Rabies Control

- **LHD should develop**
  - **Policies**
  - **Agreements with outside agencies (if applicable)**
  - **Resource documents**

# **Rabies Policies**

- **LHD adopts NC Rabies Manual**
- **Describes personnel responsibilities**
- **Describes county specific decisions**

**Pre-exposure vaccine**

**Postexposure vaccine**

**Vaccine for indigent persons**

**10 day confinement**

**6 month quarantine**

**Certified Rabies Vaccinator (CRV) staff**

**Community Outreach**

# Agency Agreements

**Memorandum of Agreement (MOA)  
defines how agencies will work together**

- **LHD and Sheriffs Department**
  - **LHD and Hospital**

**If Animal Control and LHD clinical staff  
fall under same agency (MOA not needed)**



# Resource Documents

- **General Rabies information handouts**
- **Where to go for services**
  - **Pre-exposure vaccines**
  - **Postexposure vaccines**
- **Ten day confinement information**
- **Six Month Quarantine information**

# AA 510 – Rabies Control

- **Per AA 510 LHDs agree to send staff to regional training**
- **NC DPH to provide**
  - **regional trainings in August/September 2014.**
  - **sample policies, agreements, and handouts**
- **LHD need to have elements in place by June 30, 2015**

# Rabies Scenarios

## Table Top Exercise

# Instructions: Group Exercise

- Assign a Scribe and a Speaker
- Review the Scenario
- Answer the Questions provided for your scenario
- Rabies resources provided
  - NC Rabies Public Health Program Manual
  - Algorithm: Human Rabies Risk from Animal Bites
- Session Scenario Discussion

# Unusual/Complex Scenarios

## Examples

- Exotic or Hybrid Bites
- Non-human primates; Macaques
- Wolf-hybrids, Savannah cats – (not *Canis lupus familiaris*, not *Felis catus*)

Call the state Public Health Veterinarians

919-733-3419

# Rabies Scenarios

Table Top Exercise

15 minutes

# Rabies Scenarios

Table Top Exercise

Discussion

**Scenario 1:**

**Bats in a Building**



# Bats in a Building

You receive a call on a Thursday morning from a resident of your county that is frantic because she found a bat flying around in her baby's room this morning when she awoke and went in to tend to the baby. She reports that the family had several windows open in the house last night and the windows have no screens. She also reported that the bat flew back out the window and is not available for capture and testing.

## Bats in a Building (2)

A. The resident calls back and reports that the family may have seen bats in other areas of the house over the past year. No one has reported having direct contact with any bats that she knows of. Her son had a sleepover a couple of weeks ago and he just told her that one of the boys said he saw a bat flying around in the den downstairs during the sleepover but he was half asleep and thought he was dreaming.

## Bats in a Building (3)

B. The resident calls the next morning and states that her husband has found a bat in the laundry room downstairs next to the den and wants to know if it should be tested. Their two dachshunds alerted the husband of the bat by barking and were in the laundry room with the bat. The bat was found on the floor flapping around the two Dachshunds.

**Answer the questions provided for this scenario.**

**Scenario 1:**

**Bats in a Building**

Discussion

**Scenario 2:**

**Feral Cat Colony**

# Feral Cat Colony

There is a colony of feral cats that live in the woods behind a small subdivision. This morning a resident called Animal Control stating that last evening one of these cats bit and scratched him as he was trying to pet it. This was unusual behavior he thought, because the cats have never acted this way before. Then the same cat went up to his daughter (who was standing beside him) and clawed her in the leg leaving a 4 inch scratch mark.

## Feral Cat Colony (2)

Upon further discussion, it was noted that this resident (and maybe others) leave food and water out for these cats. Occasionally, the resident gets pretty close to the cats and pets them. The resident denies being bitten or scratched before. The resident also states that he has 2 indoor/outdoor cats of his own and believes they are current with rabies vaccine. Lastly, the resident stated that his neighbor has a dog that spends a lot of time in the fenced yard, but occasionally he has heard that dog barking and chasing one of the feral cats from the yard.

# Feral Cat Colony (3)

Answer the questions given this information.

- A. Feral cat can be identified, it is caught, sent for testing and negative for rabies
- B. Feral cat can be identified, it is caught, sent for testing and positive for rabies
- C. Feral cat cannot be differentiated from other feral cats in the area
- D. Feral cat is not caught, but is identifiable and visualized for the next 11 days
- E. Feral cat is not caught, but is visualized for next 3 days....then do not see cat anymore



# Scenario 2: Feral Cat Colony

Discussion

**Scenario 3:**

**Dog Bite Victim at the ED**

# Dog Bite Victim at the ED

The local Emergency Department calls on Monday morning to report to you at the Local Health Department that a patient was seen by a physician in the ED on Sunday morning for a dog bite. The patient was doing her usual running routine in a local park when a mixed breed medium-sized brown dog ran up, jumped on her and the dog's teeth penetrated her left thigh. She yelled at the dog and it ran off into the woods. According to the patient the dog had a collar and tags but appeared to be scraggly, thin and in poor condition. After further questioning of the ED Nurse you determine that the physician provided wound care, administered a tetanus booster and began Day 0 of PEP on Sunday morning.

# Dog Bite Victim at the ED (2)

*Answer the questions, given this information.*

A. After 72 hours Animal Control still has not captured the biting dog.

B. The dog is captured on Monday by Animal Control and can be positively identified by the bite victim. The dog is currently vaccinated although thin.

## **Dog Bite Victim at the ED (3)**

C. The dog is captured on Tuesday afternoon by Animal Control and can be positively identified by the bite victim, but is very ill and acting vicious, trying to bite everyone and everything in sight.

D. The dog is captured on Wednesday but could not be positively identified.

# Dog Bite Victim at the ED (4)

## Additional Questions:

- If the dog appears normal and healthy at the time of the bite, why is a ten day confinement period required?
- Is a ten day confinement period required if the dog is currently vaccinated against rabies?
- If the dog develops signs of illness during the ten day confinement, what is required by law?

**Scenario 3:**

**Dog Bite Victim at the ED**

Discussion

**Scenario 4:**

**Rabid Dog at a Trailer Park**



# Rabid Dog at a Trailer Park

You receive a call and Fax from NC DPH Rabies On Call that a dog in your county, submitted through Animal Control, tested rabies positive. On the rabies examination form #1614 that was faxed to you, are three children's names and one adult that were bitten. You recognize the address to be a local trailer park (about 100 trailers) that is composed for the most part of Hispanic families. There are two other trailer parks within a two mile radius that are adjacent to this park. It is Friday afternoon in the summertime and school is out.

# Rabid Dog at a Trailer Park (2)

One of the county Animal Control officers calls you about the same time. The ACO is Hispanic and has already started his investigation of the animals in the park and provides you with the following information: The two year old rabid dog was previously very friendly to people and many children that would play with this dog. This dog was owned but roamed freely with other dogs in the trailer park. Suddenly this dog became “loco” and bit several children and an adult when he tried to control the dog.

# Rabid Dog at a Trailer Park (3)

Answer the questions given this information:

A. The three children and man have received wound treatment and Tetanus boosters at the ED.

B. The three trailer parks are populated with families that have on average three or more children. The rabid dog is owned but was never vaccinated. In fact, none of the animals in the park have received any veterinary care and they're fed communally. There also is a colony of feral cats in this trailer park.

**Scenario 4:**

**Rabid Dog at a Trailer Park**

Discussion

# Scenario 5: Cute Baby Raccoon

# Cute Baby Raccoon

A person called animal control and said that her son was bitten by his neighbor's pet raccoon yesterday. This resident said that the neighbor was driving down the road several weeks ago and found this baby raccoon at the side of the road. There was no sign of a mother, so he decided to adopt the raccoon. The raccoon has been allowed to roam the neighbor's house and play with the family. Over the last week they have been inviting neighbors over to see and play with this new pet.

# Cute Baby Raccoon (2)

Answer the questions given this information.

A. There are no other pets in the home.

B. There are other pets in the home.

# Scenario 5: Cute Baby Raccoon

Discussion



# Questions?



# Veterinary Public Health Contact Information

1902 Mail Service Center  
Raleigh NC 27699-1902

Phone: (919) 733-3419 (24/7)

FAX: (919) 733-9555

<http://www.rabies.ncdhhs.gov>



**North Carolina Public Health**  
Working for a healthier and safer North Carolina  
Everywhere. Everyday. Everybody.

**Scenario 8:**

**Rabid Cow in a Barn**

# Rabid Cow in a Barn

You receive a call and Fax from an NC DPH Epidemiologist on rabies call notifying you that the State Laboratory of Public Health has reported a rabies positive cow from your county, testing positive on 29 MAY. You call animal control to see if they were aware of this submission and they were not. On the Rabies Examination form (DHHS # 1614) that was faxed, you notice that the animal was submitted through NCDA&C VDLS, Rollins Veterinary Diagnostic Laboratory. There are four people listed on the form as potentially exposed to the cow through handling, one of which is a veterinarian. A dog is also indicated as exposed. Fortunately the phone numbers of the persons exposed are listed on the form.

# Rabid Cow in a Barn (2)

A. Through your investigation you determine that a local dairy farmer owned the rabid Holstein cow. He reported that the animal had been off feed for several days, and appeared to be choking. The cow then began acting aggressive toward other animals in the herd including the dog prior to dying suddenly on 28 MAY.

# Rabid Cow in a Barn (3)

B. The farmer has an Australian shepherd and several barn cats that run around with the cattle.

C. The farmer's son later recalls seeing a skunk in the pasture with the cows and dog about three weeks ago.

**Answer the questions provided for this scenario.**