

Coordinating with Local Health Departments



Fairfax County

Health Department

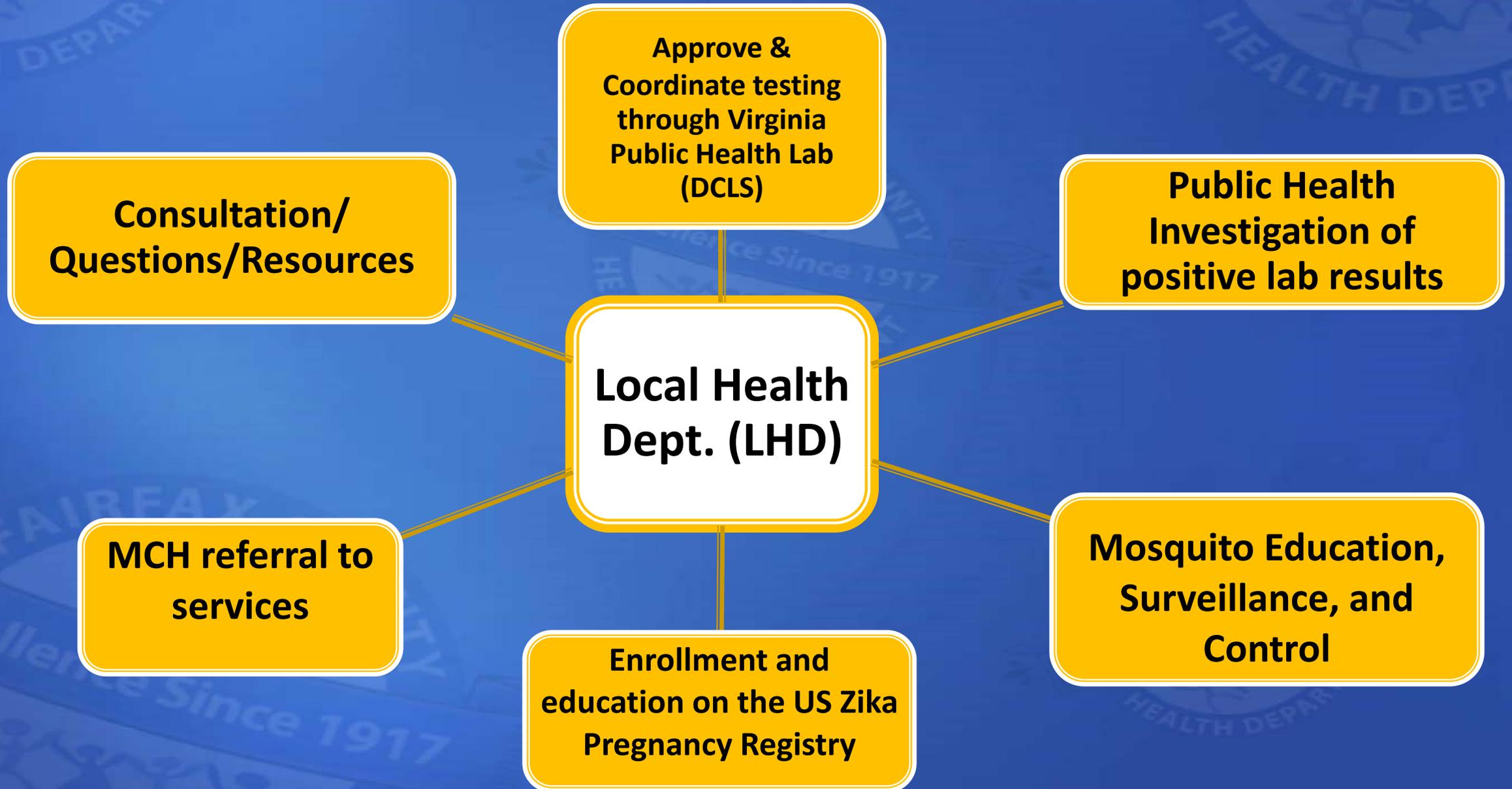
Presented by the Fairfax County Health Department

Presenters: Barbara Downes, MS, CIC, Epidemiologist
Shawn Harper, RN, BSN, CD/Epi Public Health Nurse
Joshua Smith, Environmental Health Supervisor, Disease Carrying Insects Program

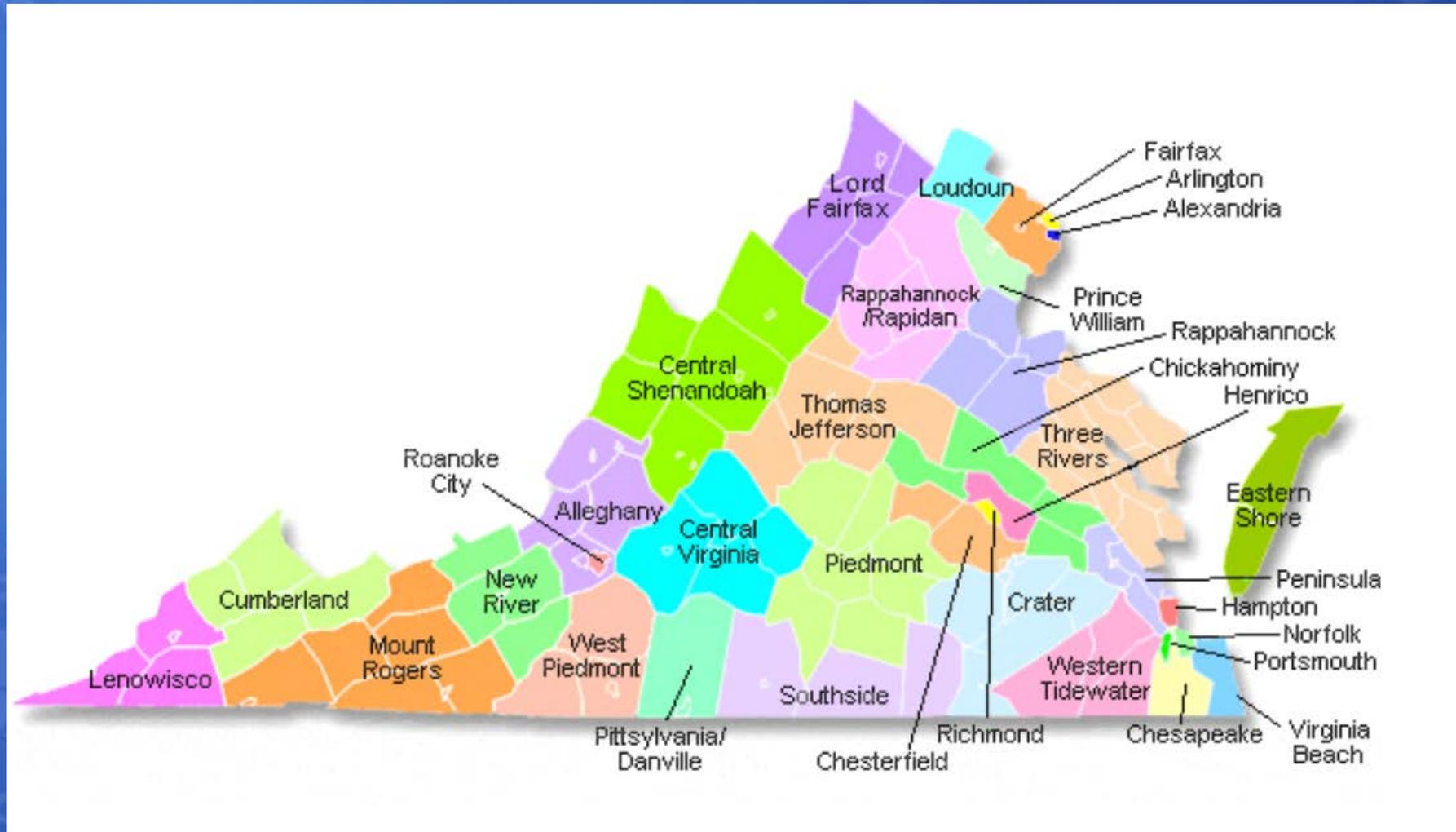
Learning Objectives:

- Identify the role of the local health department in a Zika virus investigation.
- Know when and how to contact the local health department, especially if local transmission of Zika Virus is suspected.
- Evaluate case studies to demonstrate coordination with local health department and best practices.

Local health department's role in a Zika investigation



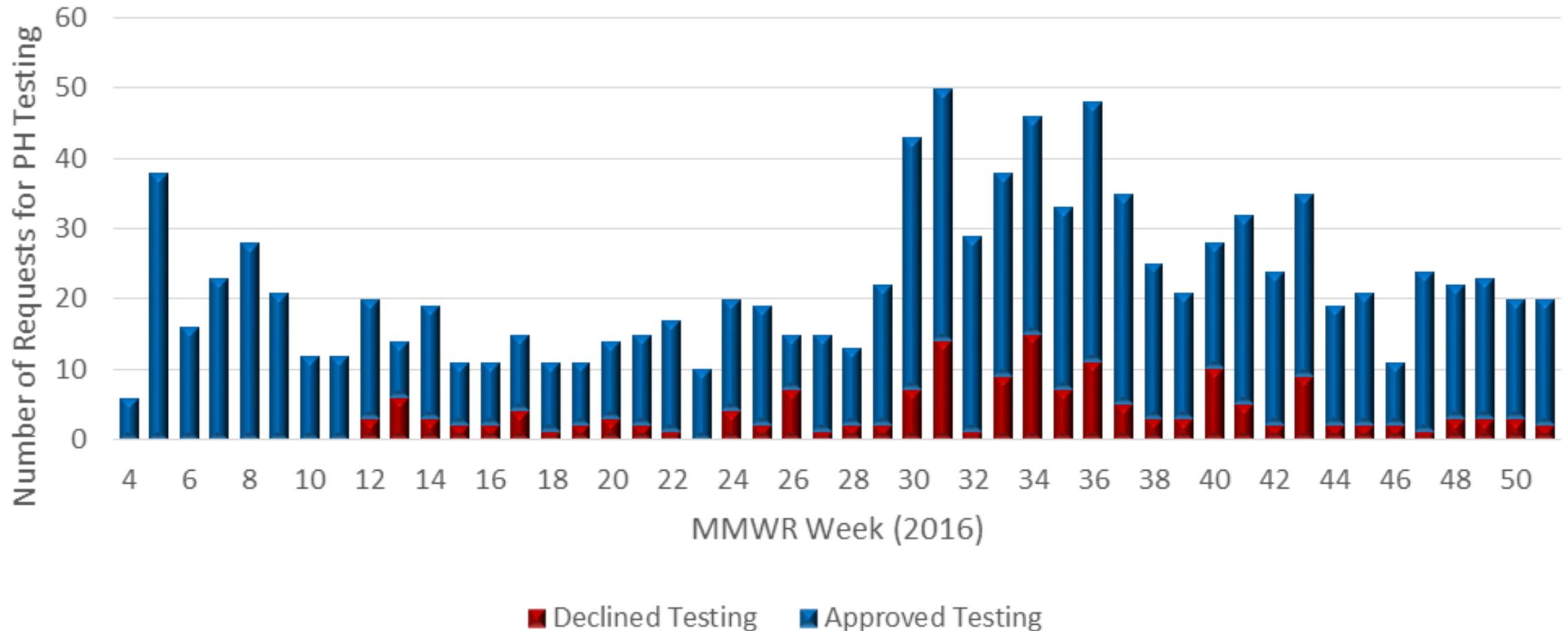
Get to know your local health department!



<http://www.vdh.virginia.gov/local-health-districts/>

FCHD 2016 Zika Response; By the Numbers

2016 FCHD Requests Received for Public Health Zika Virus Testing and Status by MMWR Week



For Fairfax Providers: One Stop Resource—the FCHD Zika Webpage

http://www.fairfaxcounty.gov/hd/westnile/zika-virus.htm

Zika Virus - Fairfax County, ...

File Edit View Favorites Tools Help

Suggested Sites Web Slice Gallery

Printer Friendly Text Size Text Only

homepage > health department > environmental health > disease carrying insect program:

Zika Virus

Public health guidance on Zika virus is updated as more information becomes known.

Zika is mainly spread through the bite of an infected *Aedes* mosquito. Zika also can be spread from a pregnant woman to her fetus, through sexual contact and possibly through blood transfusion.

Take steps to avoid mosquito bites to lower your chance of infection. If you think you may have Zika, contact your health care provider.

Outreach Materials

Fairfax businesses can request printed materials for employees and customers.

Clinical Testing for Zika

Health care providers, complete the Zika testing request form.

Zika Pregnancy Registry

- About the Zika Pregnancy Registry
- Maternal Health History Form*
- Neonate Assessment at Delivery Form*
- Infant Follow-Up Form*

*Contact the Communicable Disease/Epidemiology Unit for the VA Zika ID.

Zika Virus

www.ZikaVA.org VDH

The screenshot shows a web browser window displaying the Fairfax County Zika Virus webpage. The page is organized into several sections. On the left, there is a navigation menu with categories like 'Index', 'Related Links', 'Online Services', 'Our Government', 'News and Events', 'Maps, Facts & Stats', and 'State & Federal'. The main content area features a breadcrumb trail, a title 'Zika Virus', and introductory text. A prominent blue oval highlights the 'Outreach Materials' section, which includes a list of downloadable resources such as 'Zika Fact Sheet', 'Dress to Protect', 'Tip & Toss Card', 'Zika-Carrying Asian Tiger Mosquito Container Breeding Card', 'Protect Your Pregnancy Card', 'Prevent Mosquito Bites!', 'Zika Flyers', 'Zika Posters', and 'Zika Postcards'. Each resource is accompanied by a small thumbnail image and a list of available languages. Another blue oval highlights a box titled 'Clinical Testing for Zika', which instructs health care providers to complete a testing request form. A third blue oval highlights a box titled 'Zika Pregnancy Registry', which lists various forms and provides contact information for the Communicable Disease/Epidemiology Unit. At the bottom right, a fourth blue oval highlights a 'Zika Virus' logo with the website URL 'www.ZikaVA.org' and the 'VDH' logo. A video player is also visible on the right side of the page, showing a man speaking at a podium.

FCHD Online Request for Testing Form:

Fairfax County Health Dept. Zika Testing Request

- Complete and submit the *Zika Testing Request*. Please fill in all required fields.
- The Communicable Disease/Epidemiology Unit will respond to your request regarding testing eligibility determination and next steps by close of the next business day. *Please know that this is a request for testing and that testing eligibility will have to be determined. Approval by the Fairfax County Health Department's Communicable Disease Epidemiology Unit must be obtained for Zika Virus testing. Any specimens submitted to the Health Department without prior approval or necessary paperwork will not be tested.*
- If you experience any problems requesting Zika testing or have additional questions, please call the Communicable Disease/Epidemiology Unit at 703-246-2433.

Provider Information

Provider Last Name Provider First Name

Address Email

Phone Fax

Patient Information

Last Name First Name

Patient Address

Street City State Zip code

Phone Alt Phone

Date of Birth Male Female

Symptoms (check all that apply)

Asymptomatic Fever

Maculopapular Rash Arthralgia

Conjunctivitis Guillain-Barre Syndrome

Infant born with congenital complications Infant born to a mother who had Zika positive or inconclusive test result

- Implemented March 2016
- Encrypted and protected
- Positive feedback from Fairfax providers:
 - Saves time
 - Easy to navigate
- As of May 22, 2017: Over 1500 requests for public health testing received and processed through the system.

If Public Testing is Approved:

Reply Reply All Forward IM



Mon 5/22/2017 1:27 PM

fairfaxnet-noreply@fairfaxcounty.gov

[PGP] Zika Testing Approved

To Downes, Barbara

Cc

Message FCHD Zika handout EngSp.pdf (1 MB)

Zika specimen collection instructions Oct16.pdf (159 KB)

FCHD Handout on Zika
Virus: Please review
with your patient

Detailed instructions
on specimen collection
and submission

* PGP Decrypted Message

Approved testing notification: Testing has been approved for your patient, Barbara TESTING TESTING, date of birth: 5/3/2017.

Please see the attached two items:

1. Instructions for collection and delivery of specimens. It is important that specimens are submitted within the appropriate time frame.
2. An informational handout on Zika virus. Please provide and review the information with your patient, (Reference Number 1771). While results are pending, it is important to remind the patient, as noted in the 'Symptoms of Zika' section of the handout:

"Even if you do not feel sick, take steps to prevent mosquito bites for three weeks by staying indoors or wearing protective clothing and insect repellent. This will help prevent mosquitos from biting you and spreading the virus to others in the community."

Please call 703-246-2433 with any questions.

If Public Health Testing is Declined:

Reply Reply All Forward IM



Mon 5/22/2017 1:30 PM

fairfaxnet-noreply@fairfaxcounty.gov

[PGP] Zika Testing Request Determination

To Downes, Barbara

Cc Summers, Virginia A.

* PGP Decrypted Message

Patient: Barbara TESTING TESTING
Date of birth: 5/3/2017

The Virginia Department of Health (VDH) has revised Zika Virus testing recommendations, which can be found [here](#), so the highest priority patients receive public health testing from Virginia's Division of Consolidated Laboratory Services (DCLS). Based on this criteria, the test request for your patient, Barbara TESTING TESTING, is **NOT** approved for testing via the state public health laboratory, DCLS.

The use of private laboratories is encouraged for some patients, such as those who are not pregnant and have uncomplicated travel-related illnesses. Several private laboratories offer molecular (e.g., rRT-PCR) and serologic testing for Zika virus; a current list of private laboratories that offer diagnostic testing is available [here](#). The CDC Zika testing recommendations can be found [here](#). The Fairfax County Health Department is available to discuss additional scenarios with clinicians on a case-by-case basis and to assist with test result interpretation, as needed (703-246-2433).

*This e-mail may contain information that is protected by law.
The use of this information by unauthorized persons is strictly prohibited.
If you have received this e-mail in error, please notify the sender immediately by telephone
and permanently delete this e-mail from your computer system.*

Still wish to pursue
Zika testing? Current
list of private labs
that offer Zika
testing

Link to the
current VDH
testing algorithm
for Zika Virus
Testing through
Public Health
Lab

Link to CDC Zika
testing
recommendations

Fairfax County Health Department: Zika Response

- Communicable Disease/Epidemiology Unit conducting human surveillance
- Disease Carrying Insects Program conducting mosquito surveillance
- If either of these indicate an area at high risk for Zika transmission—Health Department will conduct educational outreach and begin mosquito control activities, which may include:
 - Removal of mosquito breeding sites
 - Apply pesticide

Case Investigation

- Receive notification
- Verify diagnosis
- Define infectious period
- Create exposure definition
- Perform contact tracing
- Implement appropriate prevention and control measures
- Conduct enhanced surveillance

Vector control for Zika virus cases (travel-associated)

- Infected during travel to Zika-affected area and returned to Fairfax County
- Conduct site visit to case property and perform the following, as necessary:
 - Educate
 - Source reduction
 - Larvicide
 - Collect mosquitoes
 - Adult mosquito control



Vector Control for Zika virus cases (local transmission by mosquitoes)

Patient is symptomatic and lab-positive for Zika without recent travel history to Zika-affected area

OR

Adult mosquitoes collected during surveillance test positive for Zika virus

THEN

Perform outreach, source reduction, larviciding, and adult mosquito control at case property as previously described, and on additional properties in the surrounding area

Zika Preparation in Fairfax County

● Education

- Outreach materials
- Community-based activities
- PSAs
- Yard inspections

● Mosquito Surveillance

- Collect adult mosquitoes and test for Zika virus
- Larval collections



Eliminate Asian Tiger Mosquito Habitat

- Source reduction (Tip and Toss)
 - Check yard weekly
 - Eliminate larval habitats, especially containers
 - Flip over or discard containers



Asian Tiger Mosquito Control

- Larvicides

- Control larvae when standing water cannot be emptied
- Follow label instructions



- Adulticides

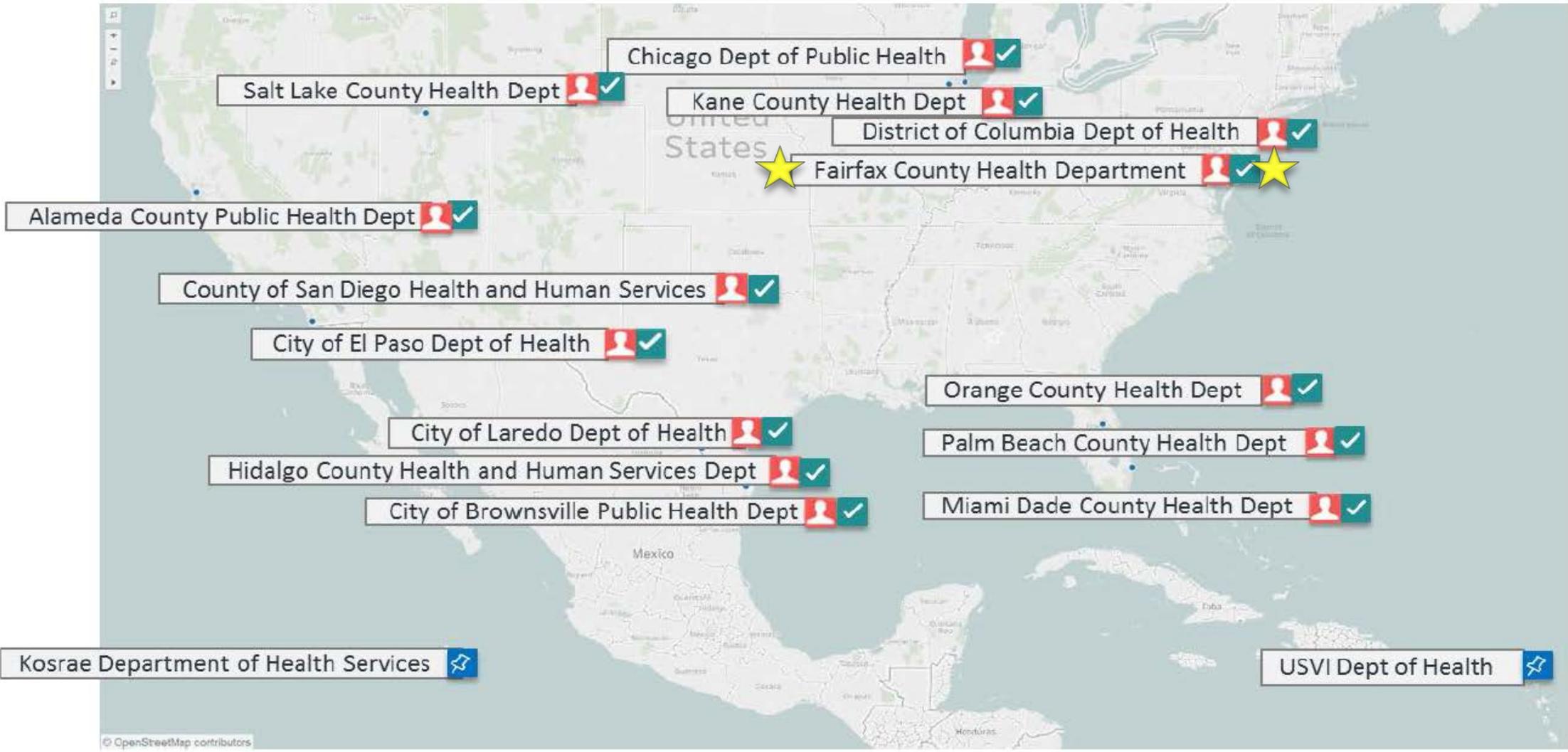
- Barrier treatments to control adult mosquitoes
- Follow label instructions



Prevention: Plan for Travel

- Pack to prevent
- Avoid mosquito bites
- Sleep indoors (screened windows or air-conditioning)
- Use bed net
- Prevent mosquito bites for 3 weeks
- Pregnant? Partner pregnant?
- CDC's Travelers Health website <http://www.cdc.gov/travel/>

CDC's Local Health Department Initiative: Cohort 1



© OpenStreetMap contributors

Expected Impact of CDC Field Support at FCHD

Improve **provider and community outreach** and **education**

Improve **data collection and reporting** for **USZPR** and **ZBD surveillance**



Improve **adherence to testing and clinical protocols**



Increase **testing and follow-up** care for pregnant women and infants at risk for Zika

Increase number of affected families with a **medical home and care coordination**

“Monitoring You and Your Baby’s Health” Card

- Developed by FCHD May 2016
- English and Spanish
- Provided to pregnant patients with positive Zika laboratory results by provider. Also included:
 - CDC Fact Sheets
 - CDC’s **ROADMAP FOR PARENTS**
 - Information on FCHD’s infant development program
 - CDC’s Protect Your Pregnancy Card
- Resource available statewide

Fairfax County Health Department

Monitoring You and Your Baby’s Health

Participating in the Zika Pregnancy Registry

Zika Pregnancy Registry checklist for _____

(last name, first name)

To continue participation in the Zika pregnancy registry, please remind your health care provider to follow up with the Fairfax County Health Department at these checkpoints:

For you, as the mother:

- 24 weeks of pregnancy
- 35 weeks of pregnancy

For your infant:

- 6 months of age
- 12 months of age
- 2 months of age
- 18 months of age

What do I do with this card?

Currently, you are enrolled in the Zika Pregnancy Registry. Please bring this card with you to your OB/GYN and pediatrician appointments. Remind your healthcare provider to update the local health department.

FRONT

What is the Zika Pregnancy Registry?

CDC developed the U.S. Zika Pregnancy Registry to:

- Learn more about the effects of Zika virus infection (Zika) during pregnancy.
- Learn more about the growth and development of babies whose mothers had Zika while pregnant.

The knowledge gained from this registry will help doctors and other healthcare providers care for pregnant women and their babies.

Form more information:

CDC’s U.S. Zika Pregnancy Registry website
cdc.gov/zika/hc-providers/registry.html

Fairfax County
fairfaxcounty.gov/hd/westnile/zika-virus.htm



Fairfax County Health Department, 03/2017
www.fairfaxcounty.gov/hd
703.246.2411, TTY 711

BACK

Working with Clinicians on USZPR

- Automated email reminders sent 1 week before assessment due date

From: fairfaxnet-noreply@fairfaxcounty.gov [mailto:fairfaxnet-noreply@fairfaxcounty.gov]

Sent: Monday, July 25, 2016 12:05 PM

To: Summers, Virginia A. <Virginia.Summers@fairfaxcounty.gov>

Subject: Infant Assessment Due

Workflow Notification

An assessment is due within one week for (patient name) whose birthdate is 06/02/2016.

Please complete an [Infant Follow-up form](#) and return to the Fairfax County Health Department by fax to 703-653-1347, or encrypted email to hdcd@fairfaxcounty.gov.

For more information about the CDC Zika Pregnancy Registry, visit CDC's website :

<https://www.cdc.gov/zika/reporting/registry.html>

If you have any questions, please call the Communicable Disease Unit at 703-246-2433.

FCHD Case Study Review

Case Study 1:

- Infant diagnosed with microcephaly upon delivery
- IP contacted local health department for testing guidance
- Infant's mother:
 - From Honduras and traveled back and forth throughout the pregnancy
 - Baby conceived in Honduras
 - Prenatal care minimal (reportedly due to no insurance), not screened or tested for Zika Virus during pregnancy.
- Both mother and baby's specimens collected and tested at the state public health laboratory

Case Study 1:

- Mother's results were IgM equivocal for Zika Virus; PRNT results were DEN1>1280, DEN2 >80 and Zika>1280
- Infant's results were IgM presumptive positive for Zika Virus; PRNT results were DEN1>1280, DEN2 >80 and Zika>1280
 - Request through state health department and public health lab to test for Dengue Virus
 - Dengue IgM negative
 - Eligible for enrollment in US ZPR

Case Study 1: Highlights and Challenges

Highlights

- Labor and Delivery team screening and assessment + request for testing
- Connection with MCH services (referral of care)

Areas for improvement:

- Health Department outreach: making providers aware of availability of health department resources
- Explanation of lab results and provider talking points

Case Study 2:

- Case traveled to Nicaragua in August 2016
- Symptoms of fever and rash
- Lab Result: Zika PCR+
- Site visit made:
 - Source reduction
 - Larvicide application
 - Provide educational materials, larvicide, repellent
 - Set mosquito trap
 - Use mechanical aspirator

Case Study 2:

- Follow-up actions:
 - Adult mosquito threshold reached (>25 *Ae. albopictus* in trap)
 - Barrier application of permethrin
 - Follow-up trapping
 - Neighbors notified of pesticide application

Site Visit Highlights and Challenges

- Generally well-received
 - Few non-responses or refusals
- Correct address
- Multiple households
- Apartments/condominiums
- Language

Updated information about Zika



- Centers for Disease Control and Prevention (CDC):
www.cdc.gov/zika



- Virginia Department of Health (VDH):
<http://www.vdh.virginia.gov/epidemiology/zika-virus-update/>



- Fairfax County Health Department (FCHD)
<http://www.fairfaxcounty.gov/hd/westnile/zika-virus.htm>

Contact Information:

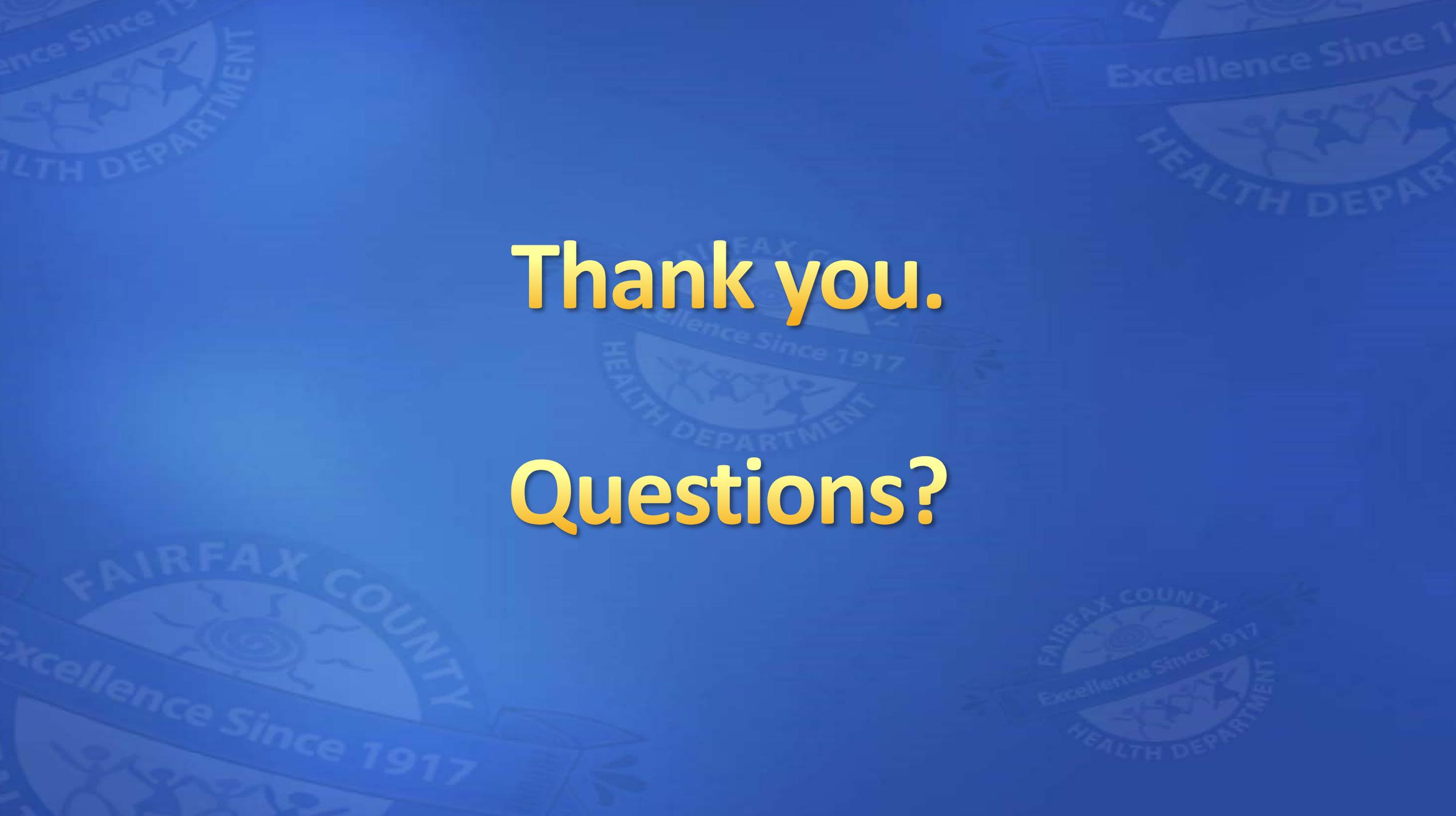
Fairfax County Health Department

Communicable Disease/Epidemiology Unit

703-246-2433

hdcd@fairfaxcounty.gov or

hdzika@fairfaxcounty.gov

The background of the slide is a solid blue color with a repeating watermark of the Fairfax County Health Department logo. The logo features a circular emblem with stylized human figures holding hands, a banner across the top with the text 'Excellence Since 1917', and the words 'FAIRFAX COUNTY' and 'HEALTH DEPARTMENT' around the perimeter.

Thank you.

Questions?