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Tickborne Diseases in New Hampshire

Key Points and Recommendations:

- 1. Blacklegged ticks transmit at least five different infections in New Hampshire (NH): Lyme disease, Anaplasma, Babesia, Powassan virus, and *Borrelia miyamotoi*.
- 2. NH has one of the highest rates of Lyme disease in the nation, and 50-60% of blacklegged ticks sampled from across NH have been found to be infected with *Borrelia burgdorferi*, the bacterium that causes Lyme disease.
- 3. NH has experienced a significant increase in human cases of anaplasmosis, with cases more than doubling from 2016 to 2017. The reason for the increase is unknown at this time.
- 4. The number of new cases of babesiosis also increased in 2017; because Babesia can be transmitted through blood transfusions in addition to tick bites, providers should ask patients with suspected babesiosis whether they have donated blood or received a blood transfusion.
- 5. Powassan is a newer tickborne disease which has been identified in three NH residents during past seasons in 2013, 2016 and 2017. While uncommon, Powassan can cause a debilitating neurological illness, so providers should maintain an index of suspicion for patients presenting with an unexplained meningoencephalitis.
- 6. Borrelia miyamotoi infection usually presents with a nonspecific febrile illness similar to other tickborne diseases like anaplasmosis, and has recently been identified in one NH resident. Tests for Lyme disease do not reliably detect *Borrelia miyamotoi*, so providers should consider specific testing for *Borrelia miyamotoi* (see Attachment 1) and other pathogens if testing for Lyme disease is negative but a tickborne disease is still suspected.
- 7. Report all tickborne diseases, confirmed or suspected, to the Bureau of Infectious Disease Control at 603-271-4496 (after hours 603-271-5300). For more information about testing for specific pathogens, please review the "tickborne disease diagnostic testing" section below.

Background:

NH has evidence of local transmission of five tickborne diseases. Lyme disease (*Borrelia burgdorferi*), babesiosis (*Babesia spp.*), anaplasmosis (*Anaplasma phagocytophilum*), Powassan virus, and *Borrelia miyamotoi* are transmitted by the bite of the blacklegged tick (*Ixodes scapularis*). Although the lifespan of this tick is two years, people are most likely to be infected between April and August when the aggressive nymph stage is active. Nymphs are very small (< 2mm) and difficult to see unless they become engorged with blood. Household

pets commonly bring ticks in from outdoors that can serve as a source of infection for their owners.

Epidemiology:

Lyme disease has been identified in all 10 NH counties. Anaplasmosis and babesiosis continue to increase across the state. Powassan virus is rare, with only three reported cases, one in 2013, one in 2016, and one in 2017. One case of *B. miyamotoi* was identified in a NH resident in early 2018. Additional data can be found on our website at: http://www.dhhs.nh.gov/dphs/cdcs/lyme/publications.htm.

2013 2014 2015 2016 2017 1416¹ 1371¹ 1480¹ NA^2 Lyme Disease 1691 Anaplasmosis 110 88 130 135 317 16^{3} **Babesiosis** 22 40 53 76 Powassan Virus 1 0 0 1 1

Table 1. Tickborne disease incidence in New Hampshire by year, 2013-2017.

1. The number of cases of Lyme disease for 2014 - 2016 was estimated based on the number of reports received and historical data.

2. NA = Not available. Data are incomplete due to volume of reports received and a backlog of processing.

3. Babesia surveillance is incomplete for 2016

Tick testing performed during 2013-2014 on a convenience sample of ticks in NH showed that >50% of adult ticks tested in most counties were infected with the bacteria causing Lyme disease with the exception of Carroll, Cheshire, Coos and Sullivan counties where very low numbers of ticks were collected, precluding prevalence assessment. *Babesia* and *Anaplasma* have also been detected in ticks in NH, although reliable prevalence data for these pathogens in ticks is not available. Tick surveillance maps by county from 2013-2014 are available at: http://www.dhhs.nh.gov/dphs/cdcs/lyme/documents/blacklegged13-14.pdf.

Borrelia miyamotoi was first identified in 1995 in ticks from Japan, and the first human cases were identified in Russia in 2011. Fewer than 60 human cases have been well documented in the United States. NH has had one human case, which was identified in 2018; surrounding states have also reported cases. NH ticks have tested positive for *B. miyamotoi* (https://www.tickreport.com).

Symptoms:

Many tickborne diseases present initially with nonspecific flu-like symptoms that may include fever, chills, malaise, headache, muscle and joint pains, and lymphadenopathy. Some may also present with other systemic symptoms (neurological, cardiovascular, gastrointestinal symptoms). Powassan (POW) virus infection, in particular, can progress to meningoencephalitis. About half of those that survive clinical disease have permanent neurological sequelae.

For more information about specific clinical syndromes associated with the different tickborne diseases, please review the following:

Lyme disease: https://www.cdc.gov/lyme/signs_symptoms/index.html

- Anaplasmosis: https://www.cdc.gov/anaplasmosis/symptoms/index.html
- Babesiosis: https://www.cdc.gov/parasites/babesiosis/disease.html
- Powassan: <u>https://www.cdc.gov/powassan/symptoms.html</u>
- Borrelia miyamotoi: <u>https://www.cdc.gov/ticks/miyamotoi.html</u> <u>https://www.ncbi.nlm.nih.gov/pubmed/26053877</u>

Diagnostic Testing:

For Lyme disease, anaplasmosis, and babesiosis providers should use their already established clinical testing networks.

Powassan virus testing should be coordinated through the State of New Hampshire's Public Health Laboratories by calling the Bureau of Infectious Disease Control.

For testing information on Borrelia miyamotoi, please see attachment 1.

If you suspect another tickborne disease for which testing may be limited or not accessible, please contact the Bureau of Infectious Disease Control at 603-271-4496 (after hours 603-271-5300).

Treatment:

For guidelines on treatment of Lyme disease, anaplasmosis, and babesiosis, please see the most current IDSA guidelines: <u>http://www.idsociety.org/Organism/#LymeDisease</u>.

These guidelines are in the process of being reviewed and updated, but are still the most current guidelines. A more recent review of the literature was conducted by Dr. Sanchez and colleagues (published in JAMA 2016) which was intended to provide an update on diagnosis, treatment, and prevention of tickborne infections and can serve as a helpful resource to clinicians: <u>https://www.ncbi.nlm.nih.gov/pubmed/27115378</u>.

Some newer data indicate that 10 days of doxycycline therapy for early Lyme disease may be sufficient and have comparable treatment outcomes to longer courses of therapy:

- Sanchez et al. JAMA 2016: <u>https://www.ncbi.nlm.nih.gov/pubmed/27115378</u>
- Stupica et al. Clin Infect Dis 2012: <u>https://www.ncbi.nlm.nih.gov/pubmed/22523260</u>
- Kowalski et al. Clin Infect Dis 2010: <u>https://www.ncbi.nlm.nih.gov/pubmed/20070237</u>
- CDC Webpage on Treatment: https://www.cdc.gov/lyme/treatment/index.html

Data on treatment for *Borrelia miyamotoi* is limited, but case reports suggest treatment is likely similar to that of Lyme disease. In patients diagnosed with *Borrelia miyamotoi*, we suggest consultation with an Infectious Disease specialist.

There is no specific treatment for Powassan infection and care is supportive.

Reporting Tickborne Diseases:

Clinicians should report suspected and confirmed cases of all tick-borne diseases to the Bureau of Infectious Disease Control by submission of a case report form or by calling 603-271-4496 (after hours 603-271-5300). Please be sure to record the date of symptom onset and exposure

history. Completed forms can be mailed or faxed to the Bureau if Infectious Disease Control at 29 Hazen Drive, Concord, NH, 03301 (Fax: 603-271-0545).

Please utilize the following case report forms:

- Lyme disease: http://www.dhhs.nh.gov/dphs/cdcs/documents/lymediseasereport.pdf
- Tickborne Rickettsial Diseases: https://www.cdc.gov/ticks/forms/2010_tbrd_crf.pdf
- Babesia: https://www.cdc.gov/parasites/babesiosis/resources/50.153.pdf.
- Other tickborne diseases:
 https://www.dhhs.nh.gov/dphs/cdcs/documents/diseasereport.pdf

Prevention:

An individual's risk of tickborne disease depends on their outdoor activities and the abundance of infected ticks. All tickborne diseases are prevented the same way. There are options for personal protection through the use of appropriate clothing and repellents, as well as options for environmental management and control. The use of environmental management and control is successful in preventing tick encounters, thereby reducing the risk of tick bites. There are several resources available to educate your patients about how to reduce their risk of tick encounters and tick bites.

State of New Hampshire Tickborne Disease Prevention Plan: <u>https://www.dhhs.nh.gov/dphs/cdcs/lyme/documents/tbdpreventionplan.pdf</u>

University of New Hampshire Cooperative Extension's Biology and Management of Ticks in New Hampshire:

https://extension.unh.edu/resources/files/Resource000528 Rep1451.pdf

Connecticut Agricultural Experiment Station's Tick Management Handbook: http://www.ct.gov/caes/lib/caes/documents/publications/bulletins/b1010.pdf

CDC Tick Bite Prevention: https://www.cdc.gov/ticks/avoid/index.html

Prevention Messages for Patients:

- > Avoid tick-infested areas when possible and stay on the path when hiking to avoid brush.
- > Wear light-colored clothing that covers arms and legs so ticks can be more easily seen.
- > Tuck pants into socks before going into wooded or grassy areas.
- Apply insect repellent (20-30% DEET) to exposed skin. Other repellent options may be found here: <u>https://www.epa.gov/insect-repellents/find-insect-repellent-right-you#search tool</u>
- > Permethrin is highly effective at repelling ticks on clothing; it is not meant for use on skin.
- Outdoor workers in NH are at particular risk of tickborne diseases and they should be reminded about methods of prevention.
- Perform daily tick checks to look for ticks on the body, especially warm places like behind the knees, behind the ears, the groin, and the back of neck.
- Pets returning inside may also bring ticks with them. Performing tick checks and using tick preventatives on pets will minimize this occurrence.
- > Encourage landscape or environmental management to reduce tick habitat and encounters.
- Shower soon after returning indoors to wash off any unattached ticks and check clothes for any ticks that might have been carried inside. Placing dry clothes in the dryer on high heat for ten minutes or one hour for wet or damp clothes effectively kills ticks.
- Remove ticks promptly using tweezers. Tick removal within 36 hours of attachment can prevent Lyme disease, but transmission of other tickborne diseases can occur with shorter periods of attachment time.

Monitor for signs and symptoms of tickborne diseases for 30 days after a tick bite. Patients should contact their healthcare provider if symptoms develop.

Additional Resources:

New Hampshire Tickborne Disease Page	https://www.dhhs.nh.gov/dphs/cdcs/lyme/
NH Tickborne Disease Prevention Plan	http://www.dhhs.nh.gov/dphs/cdcs/lyme/documents/tbdpreventionplan.pdf
Tickborne Diseases of the United States: A Reference Manual for Health Care Providers, Second Edition (CDC)	https://www.cdc.gov/lyme/resources/TickborneDiseases.pdf
Tickborne Disease (CDC)	https://www.cdc.gov/ticks/index.html
Powassan (CDC)	https://www.cdc.gov/powassan/
Borrelia miyamotoi (CDC)	https://www.cdc.gov/ticks/miyamotoi.html

For any questions regarding the contents of this message, please contact NH DHHS, DPHS, Bureau of Infectious Disease Control at 603-271-4496 (after hours 603-271-5300).

To change your contact information in the NH Health Alert Network, contact Adnela Alic at 603-271-7499 or adnela.alic@dhhs.nh.gov.

Status:	Actual
Message Type:	Alert
Severity:	Moderate
Sensitivity:	Not Sensitive
Message Identifier:	NH-HAN 20180518 Emerging Tickborne Diseases in New Hampshire
Delivery Time:	6 hours
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Distribution Method:	Email, Fax
Distributed to:	Physicians, Physician Assistants, Practice Managers, Infection Control
	Practitioners, Infectious Disease Specialists, Community Health Centers, Hospital
	CEOs, Hospital Emergency Departments, Nurses, NHHA, Pharmacists, Laboratory
	Response Network, Manchester Health Department, Nashua Health Department,
	Public Health Networks, DHHS Outbreak Team, DPHS Investigation Team, DPHS
	Management Team, Northeast State Epidemiologists, Zoonotic Alert Team, Health
	Officers, Deputy Health Officers, MRC, NH Schools, EWIDS
From:	Benjamin P. Chan, MD, MPH – State Epidemiologist
Originating Agency:	NH Department of Health and Human Services, Division of Public Health Services

Attachments: 1. *Borrelia miyamotoi* lab testing table, 2. Lyme disease prophylaxis guidelines 3. NH Lyme Disease Case Report Form 4. NH Confidential Communicable Disease Report Form

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ATTACHMENT 1

Borrelia miyamotoi lab testing

Currently, confirmation of a diagnosis relies on 1) the use of polymerase chain reaction (PCR) tests that detect DNA from the organism (preferred) or 2) antibody-based tests. Both types of tests are under development and not widely commercially available but can be ordered from a limited number of CLIA-approved laboratories.

Less sensitive and specific methods for detecting *B. miyamotoi* and agents of tickborne relapsing fever include identification of spirochetes in peripheral blood films and spinal fluid preparations and serologic testing.

Lab	Test	Specimen	Volume	Storage	Shipping	Turnaround time	Comments
Imugen	Borrelia PCR	CSF, Synovial Fluid or EDTA Whole Blood	2.0 ml (0.5 ml minimum)	Refrigerate	Ambient	24-48 hours from receipt	Doesn't differentiate between <i>B. burgdorferi</i> and <i>B. miyamotoi</i>
Imugen	<i>B. miyamotoi</i> serology (IgM and IgG)	Serum or CSF	2.0 ml (0.5 ml minimum)	Refrigerate	Ambient	24-48 hours from receipt	Most patients acutely symptomatic with Borrelia miyamotoi infection are seronegative. If the clinical history strongly suggests infection, collect/submit a convalescent specimen 3-4 weeks later.
Mayo	<i>B. miyamotoi</i> PCR	EDTA whole blood	1.0 ml (0.3 ml minimum volume)	Refrigerate	Ambient	Unknown	
Quest	<i>B. miyamotoi</i> PCR	CSF, synovial fluid, whole blood (EDTA)	1.0 ml (0.3 ml minimum volume)	Refrigerate	Ambient	Unknown	

ATTACHMENT 2

Tick bites and single-dose doxycycline as prophylactic treatment for Lyme disease in NH (Based on the 2006 Infectious Disease Society of America guidelines)

A **single** dose of doxycycline (200 mg) may be offered to adult patients and to children \geq 8 years of age (4 mg/kg up to a maximum dose of 200 mg) when ALL of the following conditions exist:

1. The attached tick is a blacklegged tick (deer tick, *Ixodes scapularis*). Tick identification is most accurately performed by an individual trained in this discipline. However, blacklegged ticks are very common in southeastern and central New Hampshire and there are many images available online to help identification.

AND

2. The tick has been attached for at least 36 hours. This determination can be made by asking the patient about outdoor activity in the time before the tick bite was noticed to estimate attachment time, or by asking about degree of engorgement. Unengorged (unfed) blacklegged ticks are typically flat. Any deviation from this "flatness," which is often accompanied by a change in color from brick red to a gray or brown, is an indication that the tick has been feeding.

AND

3. Prophylaxis can be started within 72 hours of the time that the tick was removed. This time limit is suggested because of an absence of data on the efficacy of prophylaxis for tick bites following longer time intervals after tick removal.

AND

4. Doxycycline prophylaxis is not contraindicated. Doxycycline is relatively contraindicated in pregnant women and children less than 8 years old. The other common antibiotic treatment for Lyme disease, amoxicillin, is not recommended for prophylaxis because of an absence of data on an effective short-course prophylaxis regimen, the likely need for a multi-day regimen along with its possible adverse effects, and the excellent efficacy of treatment if signs or symptoms do develop.

Note that single-dose doxycycline is not 100% effective for prevention of Lyme disease; consequently, patients who receive this therapy should monitor themselves for the development of Lyme disease as well as other tickborne diseases including anaplasmosis and babesiosis.

Adapted from: Wormser GP, et al. The Clinical Assessment, Treatment, and Prevention of Lyme Disease, Human Granulocytic Anaplasmosis, and Babesiosis: Clinical Practice Guidelines by the Infectious Diseases Society of America. Clinical Infectious Diseases; 2006; 43:1089–1134. Available online at: http://cid.oxfordjournals.org/content/43/9/1089.full

New Hampshire Confidential Communicable Disease Report Form 2017

Disease: Report Date:/	<u>NH RSA 141-C</u> and <u>He-P301</u> mandate reporting of suspect and confirmed cases of these conditions by healthcare providers and labs.
PATIENT INFORMATION:	Report diseases with an (*) within 24 hours of diagnosis All others must be reported within 72 hours of diagnosis
Name	 Acute Flaccid Myelitis Acquired Immune Deficiency Syndrome (AIDS) Anaplasmosis [Anaplasma Phagocytophilum]
Date of Birth// Age 🔲 Male 🔲 Female	 ○ Anthrax [Bacillus anthracis]* ○ Arboviral infection, including EEE, WNV, Dengue, Powassan, Zika*
Address	 Babesiosis [Babesia microti] Botulism [Clostridum botulinum]* Brucellosis [Brucella abortus]*
City/Town State Zip	Campylobacteriosis [Campylobacter species]
Phone: Cell Home Work	Carbapenem-resistant enterobacteriaceae Chlamydial infection [Chlamydia trachomatis]
	⊖ Cholera [Vibrio cholerae]*
Occupation/Employment	 Coccidioidomycosis [Coccidioides immitis] Creutzfeldt-Jakob Disease*
Miscellaneous Information (check all that apply):	Cryptosporidiosis [Cryptosporidium parvum]
Healthcare Worker Pregnant # of weeks:	 Cyclospora infection [Cyclospora cayetanensis] Diphtheria [Corynebacterium diphtheriae]*
Nursing Home Resident Deceased	 Ehrlichiosis [Ehrlichia species]
Child Care Attendee / Worker Hospitalized	Escherichia coli 0157 infection and other shiga toxin producing E. coli
Food Service Worker if yes, where?	 ◯ Giardiasis [Giardia lamblia] ◯ Gonorrhea [Neisseria gonorrhoeae]
	Haemophilus influenzae, invasive disease, sterile site*
Race: 🗌 White 🗌 Black 🗌 Asian 🗌 Pacific Islander 🗌 Native Am./Alaskan Nat	Hantavirus Pulmonary Syndrome [Hantavirus]*
Unknown 🗌 Other	Hemolytic Uremic Syndrome (HUS) Hepatitis, viral: A*, E,
Ethnicity: 🗌 Hispanic 🗌 Not Hispanic 🗌 Unknown	Hepatitis, viral: positive B surface antigen in a pregnant woman
Is patient aware of diagnosis? 🗌 Yes 🗌 No 🗌 Unknown	 Hepatitis, viral: B, C (new diagnoses from providers only, no lab reporting) Human Immunodeficiency Virus (HIV), including perinatal exposure Human Immunodeficiency Virus-related CD4+ counts and all viral loads
SYMPTOMS AND TREATMENT INFORMATION:	C Legionellosis [Legionella pneumophila]
	Leprosy, Hansen's disease [Mycobacterium leprae] Leptospirosis [Leptospira species]
Symptom Onset Date:/ Diagnosis Date://	C Listeriosis [Listeria monocytogenes]
Type of Test: Date of Test/	C Lyme disease [Borrelia burgdorferi]
Specimen Source: Blood Cervix Stool Urethra Urine Rectum	 Malaria [Plasmodium species] Measles [Rubeola]* Mumps*
	○ Neisseria meningitidis, invasive disease, sterile site*
Treatment: Date:/ Drug:	 Pertussis [Bordetella pertussis]* Plague [Yersinia pestis]*
Dosage: Days:	 Pneumococcal disease, invasive [Streptococcus pneumoniae] Pneumocystis pneumonia [Pneumocystis jiroveci formerly carinii]
REPORTING INFORMATION:	 Poliomyelitis [Polio]* Psittacosis [Chlamydophilia psittaci]*
Reported by Phone	Rabies in humans or animals*
Healthcare Provider Phone	Rocky Mountain Spotted Fever [Rickettsia rickettsii] Rubella, including Congenital Rubella Syndrome*
	Salmonellosis [Salmonella species] (report S. Typhi* within 24 hours)
Name of Facility	 Shigellosis [Shigella species] Syphilis, including Congenital Syphilis Syndrome [Treponema pallidum]
City/Town State Zip	⊖ Tetanus [Clostridium tetani]
Notes or additional information:	Toxic-Shock Syndrome (TSS) [streptococcal or staphylococcal] Trichinosis [Trichinella spiralis]
	○ Tuberculosis disease [Mycobacterium tuberculosis]*
	Tuberculosis infection, latent (lab reporting only, no provider reporting) Tularemia [Francisella tularensis]*
	 Typhoid fever [Salmonella Typhi]*
How to Report a Communicable Disease	⊖ Typhus [Rickettsia prowazekii]*
Business Hours (Monday – Friday 8:00am – 4:30pm): 1-603-271-4496	 ○ Varicella ○ Vibriosis [any Vibrio species]*
Toll Free (in NH only) 1-800-852-3345 ext. 4496	○ Vancomycin Resistant Staphylococcus aureus (VRSA)*
After Hours (urgent matters only): 1-603-271-5300	 ○ Yersiniosis [Yersinia enterocolitica] ○ Any suspect outbreak, cluster of illness, unusual occurrence of disease,
Toll Free After Hours (in NH only): 1-800-852-3345 ext. 5300 Fax: 1-603-271-0545 DO NOT FAX HIV reports	or other incident that may pose a public health threat.*
Electronically: Call during Business Hours to request an online account	Any investigation of suspected or actual incident of diversion of injectable medications in a health care setting.

NEW HAMPSHIRE LYME DISEASE CASE REPORT FORM HEALTH CARE PROVIDER

Patient's Name_	Re (Last Name) (First Name)	port Date				
	(Last Name) (First Name)Age Male Female Unknown	Race				
		 African American Asian Hawaiian or Pacific Islander 				
		□ Native Am./Alaskan Native □ Other				
City / Town	CountyStateZip	□ Unknown				
Home Phone	Work Phone	Ethnicity Hispanic 				
Occupation:		Not HispanicUnknown				
SYMPTOMS AND SIGNS OF CURRENT EPISODE (Please answer each question) Is this person being diagnosed with Lyme Disease?						
Date of symptom	n onset Onset date unknown 🛛 Date of Lym	e Disease diagnosis				
RHEUMATOL Arthritis charac NEUROLOGIC Bell's palsy or Radiculoneuro Lymphocytic n Encephalitis/En CSF tested for	ans (physician diagnosed EM at least 5 cm in diameter)? OGIC: cterized by recurrent brief attacks of joint swelling? c: other cranial neuritis? pathy? neningitis? antibodies to <i>B. burgdorferi</i> ?	□ Yes□ No□ Unknown□ Yes□ No□ Unknown				
Antibody to <i>B</i> . CARDIOLOGI	<i>burgdorferi</i> higher in CSF than serum	\Box Yes \Box No \Box Unknown				
Acute onset 2 nd	^d or 3 rd degree atrioventricular block?	□ Yes □No □ Unknown				
Pregnant: Hospitalized:	□ Yes □ No □ Unknown □ Yes □ No □ Unknown If yes, where					
Treatment:	□ Doxycycline □ Amoxicillin □ Other:					
Duration of trea	atment in days:					
Has this patient b	been diagnosed with Lyme Disease prior to this diagnosis? Yes, date (mm/yy)	yy) DNo DUnknown				
EXPOSURE HISTORY Tick Bite reported within 30 days of onset: Yes No Yes, out of state In the 30 days prior to symptom onset, did this individual travel outside of NH: Yes, out of state No Unknown County and state most likely exposed? Unknown						
LABORATORY RESULTS (Check all that apply) EIA/IFA: Positive Equivocal Negative Not done/Unknown Date if positive:						
Western Blot:						
Culture Results						
HEALTH CARE	E PROVIDER REPORTING INFORMATION:	For NH DHHS Staff Only				
Reported by		Imported Acquired in NH				
	er Phone	 Acquired Outside US Acquired in Another State 				
Provider Facility		Unknown				
City/Town	StateZip	Case Status				
		 Confirmed (meets CDC definitions) Probable (meets CDC definitions) 				
Bureau of Infecti 29 Hazen Drive,	H Department of Health and Human Services, ous Disease Control Concord, NH 03301. Fax: (603) 271-0545, (888) 836-4971. vMar14	 Suspected (meets CDC definitions) Not A Case Out of state Notes: 				

Phone: Hotline 1 (888) 836-4971. vMar14