

# **Collaborative Local Public Health Initiatives: Epidemiology within a Team @ MHOA 2024**

- 1. Massachusetts Epidemiology Collaborative: Empowering local public health to make data informed decisions**  
by Manizeh Afridi & Pooja Shelke
- 2. Cross-Sector Collaboration: Pertussis outbreak on the north shore**  
by Laura Nash
- 3. Local Solutions for the Opioid Crisis: Community Naloxone Program**  
by Isabella Caruso
- 4. Alpha Gal Syndrome: Tracking & tackling a new tick epidemic on Martha's Vineyard**  
by Lea Hamner
- 5. Data Informed Decision Making in Public Health Practice**  
by Pooja Shelke

**MASSACHUSETTS**

**EPIDEMIOLOGY**

**COLLABORATIVE**



*Empowering Local Public Health to Make Data Informed Decisions*

Manizeh Afridi, MPH

Pooja Shelke, MPH

# Overview:

- Understand and care for our communities
- Massachusetts Local Public Health Data
- The creation of the MA Local/Regional Epidemiology Working Group
- The importance of actionable data at the local level

# Background of Journey:

## January, 2022

- Hired under: Public Health Excellence grant & Contact Tracing/Case Investigation grant
- 2022 during largest COVID-19 surge in MA
- At this time: The majority of Health Departments were understaffed

## March, 2022

- As surge declined by end of March...
- NO guidance for local/regional epidemiologists
- How do local health departments utilize an Epidemiologist when they've never had one before COVID?

# Switching Gears:

## **We wanted to know...**

- What data was available?
- What was happening outside of COVID-19?
- What issues had been exacerbated?
- Who was being the most affected?

## **What we found...**

The Data available was:

- Outdated
- Not town-specific enough
- Incomplete
- Not reflective of our communities

# Key Questions:



How can we move forward and effectively serve our municipalities with lack of up to date data?

How do we improve the health & well being of our communities if we cannot accurately measure anything?

How could Regional Epi's be of value to our health departments without relevant, accurate data?

What actions can we take to address the issues at hand?

Are we the only ones facing these issues?

# The Regional Epidemiologist Working Group

## Where we started

- End of March 2022
- 7 Members
- Identifying/sharing common barriers via email

**What we have  
grown into**



## 40+ Members

Representing over 150 municipalities

## Expanded Channels of Communication

- Discord channel
- Shared Google Drive
- Weekly Zoom Meeting

## Collaborating with MDPH State Epis

Involvement/ collaboration at a higher level

## Expanding to more Regions

Serving about 20 regions across MA

## Guest Speakers

Notable guest speakers from different health backgrounds

## Collaborative Support Network

Cross municipal information exchange and support for shared services regional epidemiologist

## Together we have learned:

- ★ Better understanding of the populations we serve
- ★ Resources and data available
- ★ How local public health works
- ★ How we can be of value to serve our health departments and communities
- ★ Areas of improvement





# What can your local Epi do?

*Like a state Epidemiologist, local Epi's can provide population level clinical guidance and support!*

Your Epi's can provide...

- MAVEN coverage/communicable disease investigation
- Data analysis
- Data visualization
- Health communication and education
- Community Health Assessments
- Survey creation
- Data collection
- Leading research
- Assist with immunization clinics and provide support with COLOR +MIIS
- Identify, apply, and provide research support for securing grants
- Provide expertise on disease transmission and prevention

## What does a local Epidemiologist do?



### FAQ's

What can your local Epidemiologist do for you?

*Like a state Epidemiologist, local Epi's can provide population level clinical guidance and support!*

**Your Epidemiologist can provide...**

- MAVEN coverage (i.e. case investigation/contact tracing)
- Data analysis (i.e. creating reports from MAVEN or other town specific resources)
- Data visualization (i.e. creating infographics)
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**How do I contact my local Epi?**

- If your city/town is part of an SSA, please contact your coordinator to connect you with the epidemiologist in your region.

**When should I work with an Epidemiologist?**

- When you are away and need assistance with MAVEN coverage
- If you have a heavy caseload and need assistance with MAVEN investigations that do not require a healthcare licensure
- If you are in need of any reports that require research

Regional Epidemiologists:  
Manizeh Afridi: [mafridi@townofhudson.org](mailto:mafridi@townofhudson.org)  
Pooja Shelke: [pshelke@townofhudson.org](mailto:pshelke@townofhudson.org)

Brought to you by the *Regional Epidemiologists Working Group*

# An Epi's Understanding of Your Community:

Takes a holistic approach to know what kind of data exists in every sector so that we can better understand

- WHO is in our communities
- WHAT the issues are
- WHO is being affected most

**We do this so that we can provide ACTIONABLE solutions using data!**



# Importance of Actionable Data:

Utilization of  
Local/Regional  
Epis

+

Local level data  
collection &  
usage

=

Ability to collect  
relevant data that is  
community specific  
and therefore take  
data driven action to  
effectively and  
efficiently address  
community needs

# Examples of Local Level Actionable Data Projects:

- ✓ Pulling communicable disease reports from MAVEN
- ✓ Utilizing CIMS data for opioid mapping
- ✓ Data collection for how to utilize opioid abatement funds
- ✓ Vaccine surveys
- ✓ Regional Youth Health Survey (i.e. local YRBSS)
- ✓ Support with migrant shelters/emergency assistance
- ✓ Community Health Assessments

## **Next Presentations:**

**Laura Nash:** Cross Sector Collaboration: A Pertussis Outbreak in the North Shore

**Isabella Caruso:** Local Solutions for the Opioid Crisis: Community Naloxone Program

**Lea Hamner:** Alpha Gal Syndrome: Tracking & Tackling a New Tick Epidemic on Martha's Vineyard

**Pooja Shelke:** Data Informed Decision Making in Public Health Practice

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**Thank you!**  
**Questions?**

# Cross-Sector Collaboration: A Pertussis Outbreak in the North Shore

Laura Nash, MPH  
Regional Epidemiologist  
North Shore Public Health Collaborative



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- NSPHC is comprised of 8 different communities in the North Shore
  - Beverly
  - Danvers
  - Lynn
  - Marblehead
  - Nahant
  - Peabody
  - Salem
  - Swampscott



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# Who We Are

- **Hannah Laffer**, *Regional Sanitarian*
- **Hayden Fitch**, *Regional Sanitarian*
- **Jeanne Butler**, *Regional Public Health Nurse*
- **Kendra Harris**, *Regional Public Health Social Worker*
- **Laura Nash**, *Regional Epidemiologist*
- **Meg Dlusniewski**, *Regional Public Health Coordinator*
- **Stephen Casey**, *Regional Trainer - Housing*
- **Steven Kahn**, *Regional Training Hub Coordinator*
- **Terry Kennedy**, *Regional Trainer - Food*



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# Cross-Sector Collaboration: A Pertussis Outbreak in the North Shore

A look back at causes, trends, and local public health's actions



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# Pertussis (Whooping Cough)

## *A.K.A., the "100-day cough"*

- Pertussis caused by bacteria that is easily spread from person to person; usually mild in older children and adults, but it often causes serious problems for young children
- Pertussis symptoms have three stages
  - 1<sup>st</sup>: begins like a cold with a runny nose, sneezing, and cough. The cough slowly worsens for a week or two
  - 2<sup>nd</sup>: uncontrollable coughing spells, vomiting after coughing, and sometimes getting a whooping noise you can hear when breathing in. Lasts for around 2 to 6 weeks
  - 3<sup>rd</sup>: when symptoms begin to gradually lessen. The person may still have have a cough for months




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# Pertussis (Whooping Cough) *A.K.A., the "100-day cough"*

- Pertussis lives in the nose, mouth, and throat and is sprayed into the air when an infected person sneezes, coughs, or talks
  - Symptoms normally arise 7 to 10 days after a person is exposed

People of all ages need **WHOOPING COUGH VACCINES**



<b>DTaP</b> for young children	<b>Tdap</b> for preteens	<b>Tdap</b> for pregnant women	<b>Tdap</b> for adults
✓ 2, 4, and 6 months ✓ 15 through 18 months ✓ 4 through 6 years	✓ 11 through 12 years	✓ During the 27-36th week of each pregnancy	✓ Anytime for those who have never received it

[www.cdc.gov/whoopingcough](http://www.cdc.gov/whoopingcough) 



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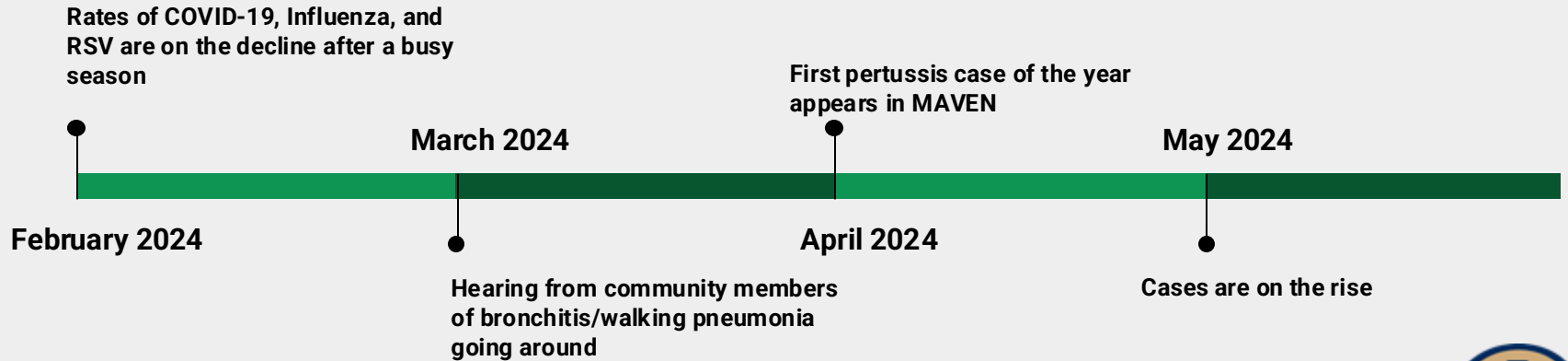
- If diagnosed with pertussis, current recommendations advise that one must isolate for 5 days after receiving antibiotics
  - One is considered to be infectious 7 days before cough onset through 3 weeks after cough onset
- Close contacts, even if vaccinated, are urged to receive post-exposure prophylaxis (PEP). This includes:
  - Household contacts
  - People at high-risk of developing a severe pertussis infection
  - Those who have contact with people at high-risk of developing a severe pertussis infection



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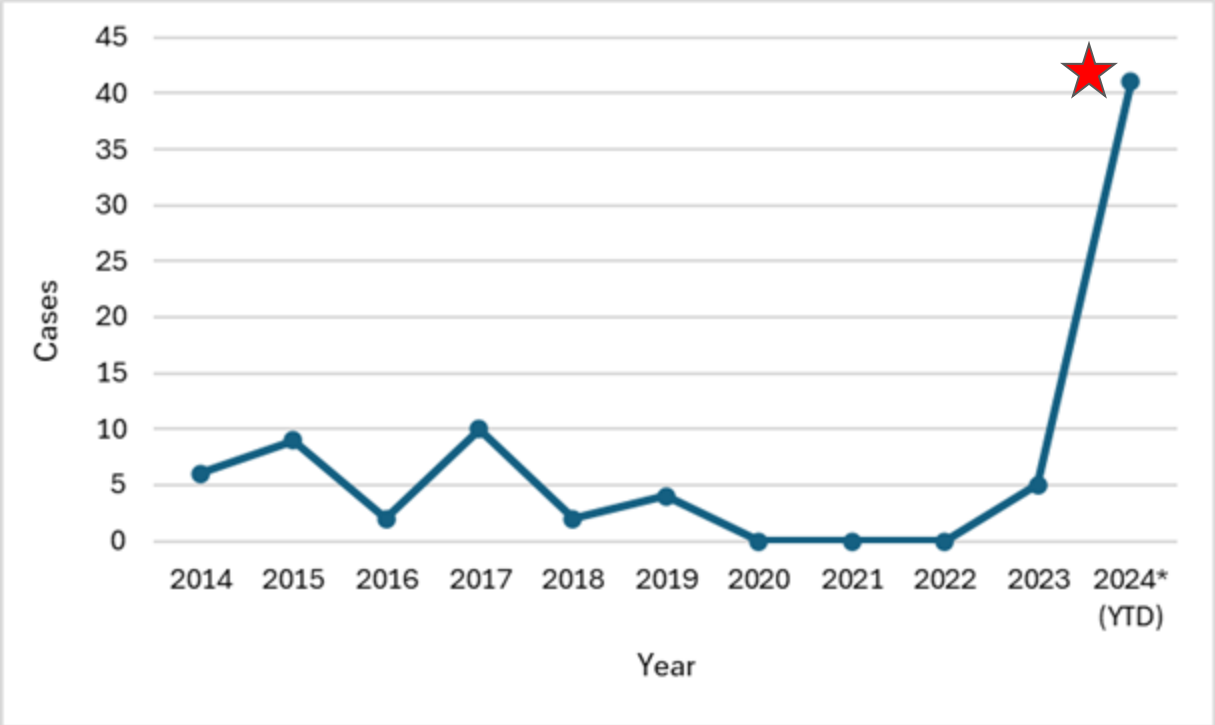
# Timeline of Cases



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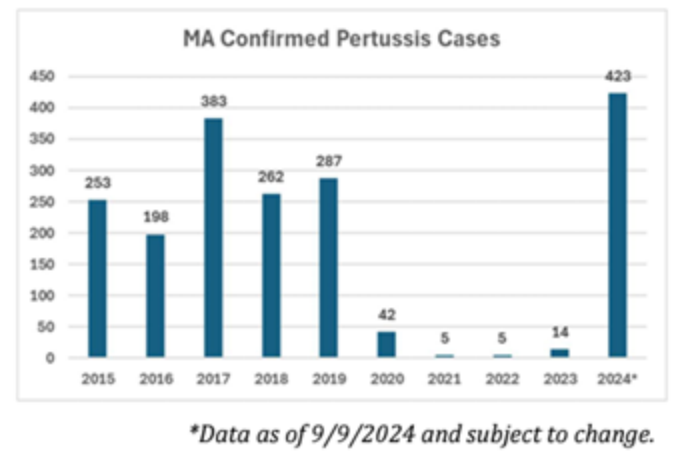
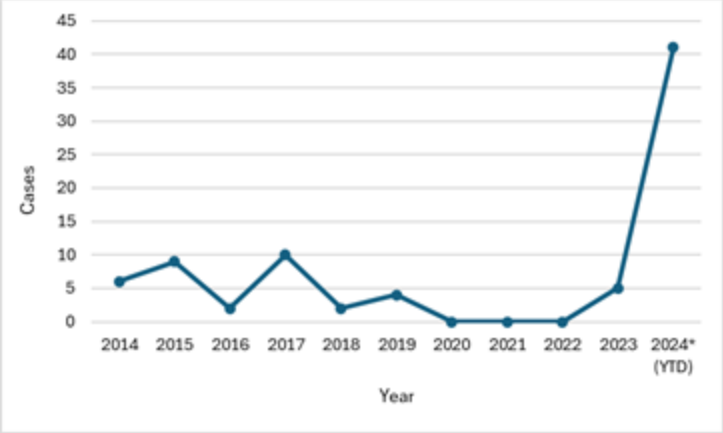
# Pertussis Trends, NSPHC\*, 2014 - 2024 (YTD)



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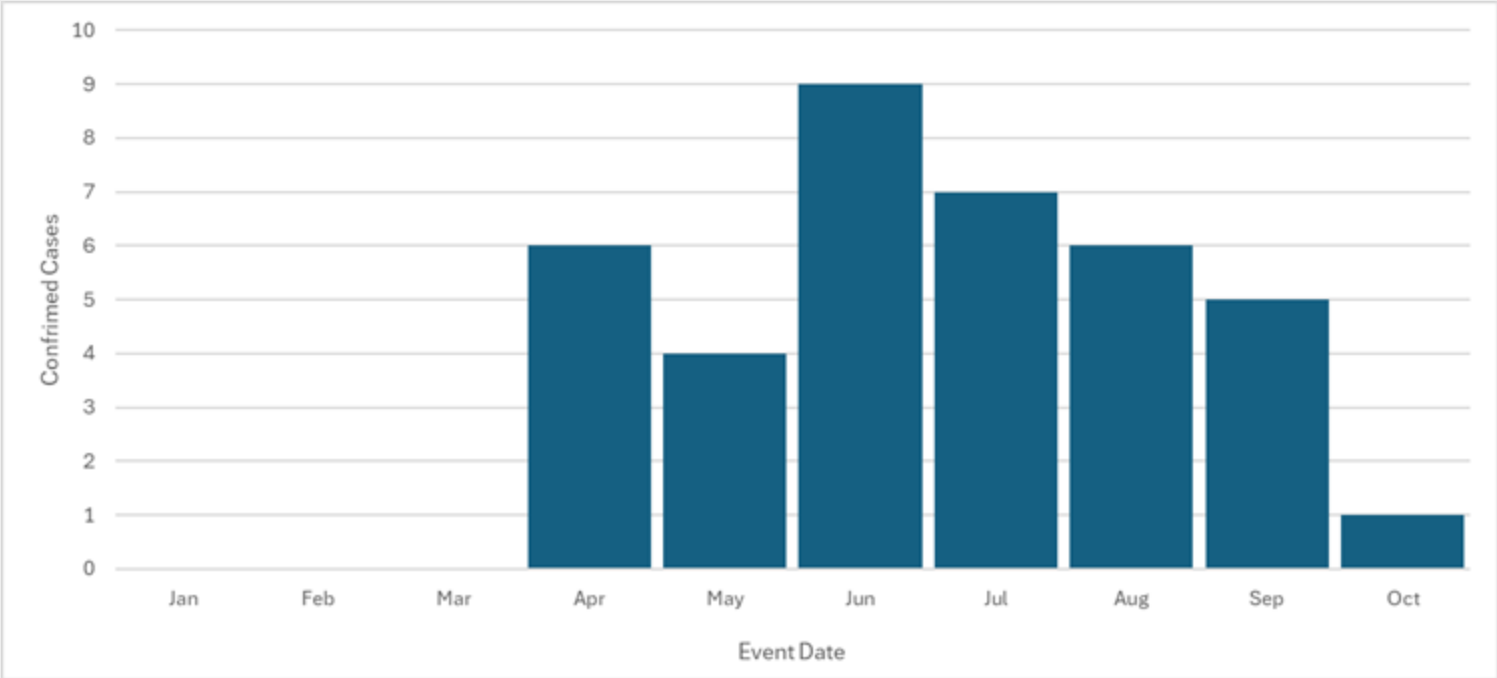


# Pertussis Trends, YTD\*



Taken from the Massachusetts Department of Public Health's [MAVEN Webinar, 9/10/24](#)

# Epi Curve



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# Characteristics of Cases

- Average age of cases was around 15.4 years - *middle/high school aged students*

Figure 1. Self-described race among cases

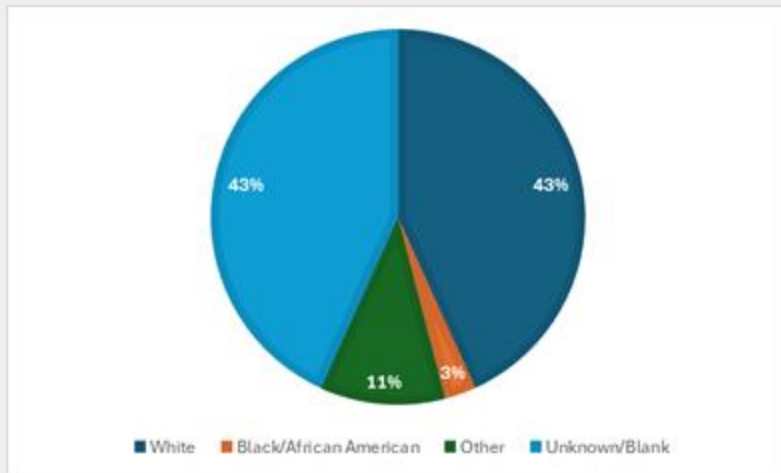
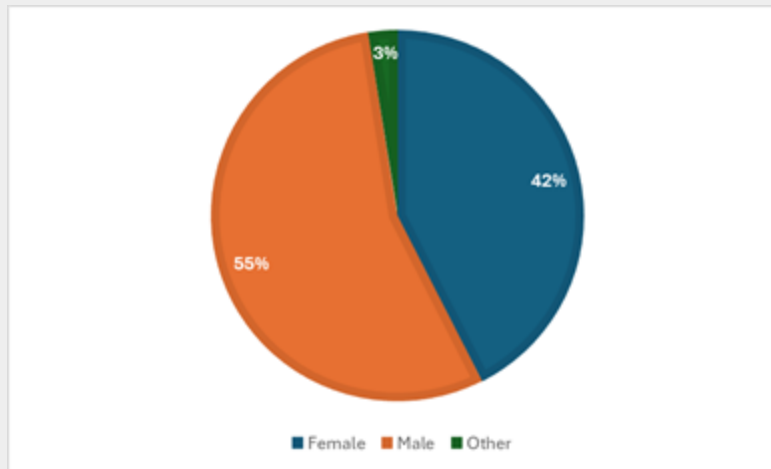


Figure 2. Self-described gender among cases



# Reflecting on Information

- What gaps exist?
  - Patients unaware of diagnosis
  - Close contacts unaware of exposure
  - Conflicting information being disseminated from providers
  - Lack of testing among suspect cases
  - General public unaware
    - Common belief: *"isn't that something just babies get?"*



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# Key Collaborators

## Public Health Nurse (PHN)

- MAVEN case investigation
- Communicate with providers
- Direct point of contact with schools
- Guidance on precautions for school setting

## Epidemiologist

- MAVEN case investigation
- Communicate with cases to conduct interviews, identify close contacts
- Data collection on cases: *"What does our population look like?"*

## School Nurse

- Direct point of contact with parents, students, and local boards of health
- Tracks the number of students calling out sick
- Guidance on precautions for school setting

# Local Public Health's Actions

- ***Advisories and close contact letters sent out to schools***
- Websites updated accordingly
- Educational materials made available in different languages
- Improving communication with urgent care centers and primary care providers
  - Consulted with providers on advised on best practices
- Revisiting what we could have done better



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## Pertussis Advisory – For Close Contacts

This is to advise you that there has been <insert number> confirmed case(s) of whooping cough (pertussis) at <insert name> School. **We have identified your child as a close contact of the case, and we are recommending that close contacts receive antibiotics, regardless of whether or not they are symptomatic, in order to prevent the contacts from contracting and/or transmitting the disease.**

Below is basic information for parents and guardians on the signs and symptoms of pertussis, and what you should do.

### **What should I do?**

If your child is **symptomatic**, please contact your **health care provider** and bring this advisory with you. Your child should be tested for pertussis by your family's health care provider and, per Massachusetts's requirements, **must complete five days of antibiotic treatment before returning to their activities.**

If your child is **asymptomatic (no symptoms)**, we strongly recommend that he/she receive antibiotics, though he/she may continue to participate in their activities. If pertussis symptoms develop, you should contact your health care provider so that your child can be tested appropriately.

If your child is in the same household or spends significant time with an infant, pregnant woman in her third trimester, or an immunocompromised individual, it is particularly important to have your child receive antibiotics in order to protect those people that are considered "high risk" for pertussis.

## Sample close contact letter

## Sample advisory letter

### **Pertussis Advisory**

This is to advise parents/guardians/staff that there has been <insert number> confirmed case(s) of pertussis (whooping cough) at <insert name> School. At this time, there are no recommendations for antibiotics for your child. However, parents and guardians should be aware of the signs and symptoms of pertussis. If your child has symptoms or develops symptoms, testing is recommended, and five days of antibiotic treatment will be required before being able to return to school.

#### **What should I do?**

If your child has any symptoms of pertussis, please contact your health care provider and bring this advisory with you. If you have any questions, please contact your Local Board of Health at (781) 596-8864 or the Massachusetts Department of Public Health at (617) 983-6800.

#### **What is pertussis?**

Pertussis (also called whooping cough) is a disease caused by bacteria that spreads from person to person with close contact. Pertussis is often mild in older children and adults, but can cause serious problems in infants.

#### **Who gets pertussis?**

In MA, pertussis is most common among people 10-20 years old who have lost the protection they got from childhood vaccines. Infants are also likely to get the disease since they are often too young to have full protection from the vaccine.

#### **What are the symptoms?**

Pertussis is a cough illness whose symptoms can range from mild to severe. It usually begins with cold-like symptoms, with a runny nose, sneezing and dry cough. After two weeks of cold-like symptoms, the cough slowly gets worse. The next stage, which may last from four to six weeks, may be marked by coughing spells that are uncontrollable and may be followed by vomiting. Between spells, the person may

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< Infectious Diseases

# Pertussis (Whooping Cough)



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# WHOOPING COUGH



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# TOSSE COMPRIDA



## O que é a coqueluche (ou 'tosse comprida')?

A coqueluche (também chamada de 'tosse comprida') é uma doença causada por bactérias, que é transmitida de pessoa para pessoa pelo contato próximo. Geralmente, a coqueluche é mais leve em crianças mais velhas e adultos, mas ela pode causar problemas sérios em crianças pequenas.



## Quem pode pegar a coqueluche?

No estado de Massachusetts, a coqueluche é mais comum entre pessoas dos 10 aos 20 anos, que perderam a proteção que receberam quando foram vacinadas na infância. As crianças pequenas também têm um grande risco de contrair a doença, já que são muito novas para desenvolverem toda a



# TOSFERINA

## ¿Qué es la tosferina?

La tosferina es una enfermedad provocada por una bacteria que se transmite de una persona a otra a través del contacto cercano. Habitualmente la tosferina es leve en los niños grandes y los adultos, pero puede ocasionar serios problemas en los lactantes.



## ¿A quiénes les da tosferina?

En MA, la tosferina es más común entre las personas de 10 a 20 años de edad que han perdido la protección que obtuvieron de las vacunas infantiles.



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# Moving Forward

- Considerations
  - Delayed labs may leave more people at risk of developing the disease
  - Difficult to understand why some providers declined to test for pertussis
  - Region undergoing staffing changes; difficult to complete follow-up in a timely manner
    - Coverage is inconsistent



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# Moving Forward

- Reflect
  - How could we made this more of a concerted effort regionally?
  - What could the local-level done differently in terms of education and outreach?
  - What other key partners could have been involved?
  - Could we have a more streamlined process for outbreaks?



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Thank you!  
Email: [lnash@salem.com](mailto:lnash@salem.com)



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# Local Solutions for the Opioid Crisis: Community Naloxone Program

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**Isabella Caruso, MPH**

Health and Human Services Director  
Town of Northborough



508-504-1812



[icaruso@town.northborough.ma.us](mailto:icaruso@town.northborough.ma.us)

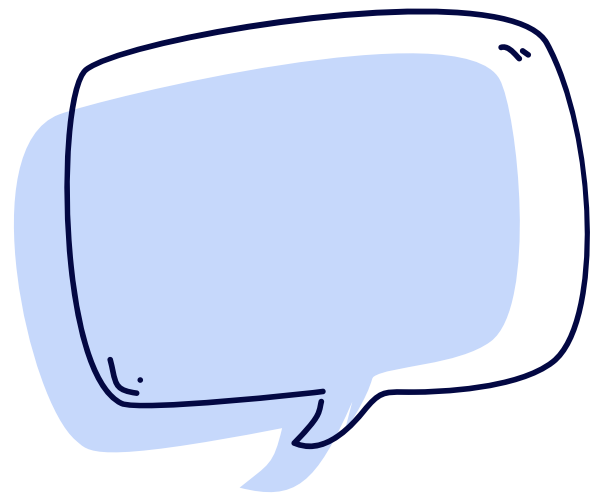


**Health  
& Human Services**  
Northborough



**Greater Boroughs  
Partnership for Health**

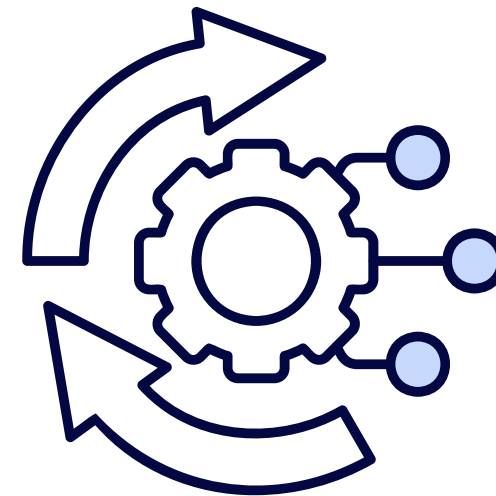
# Agenda



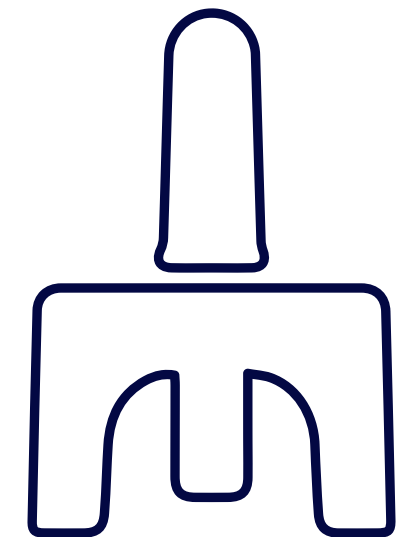
Introduction



Opioid Crisis  
Background



Application of  
the Strategic  
Prevention  
Framework



Community  
Naloxone  
Program (CNP)



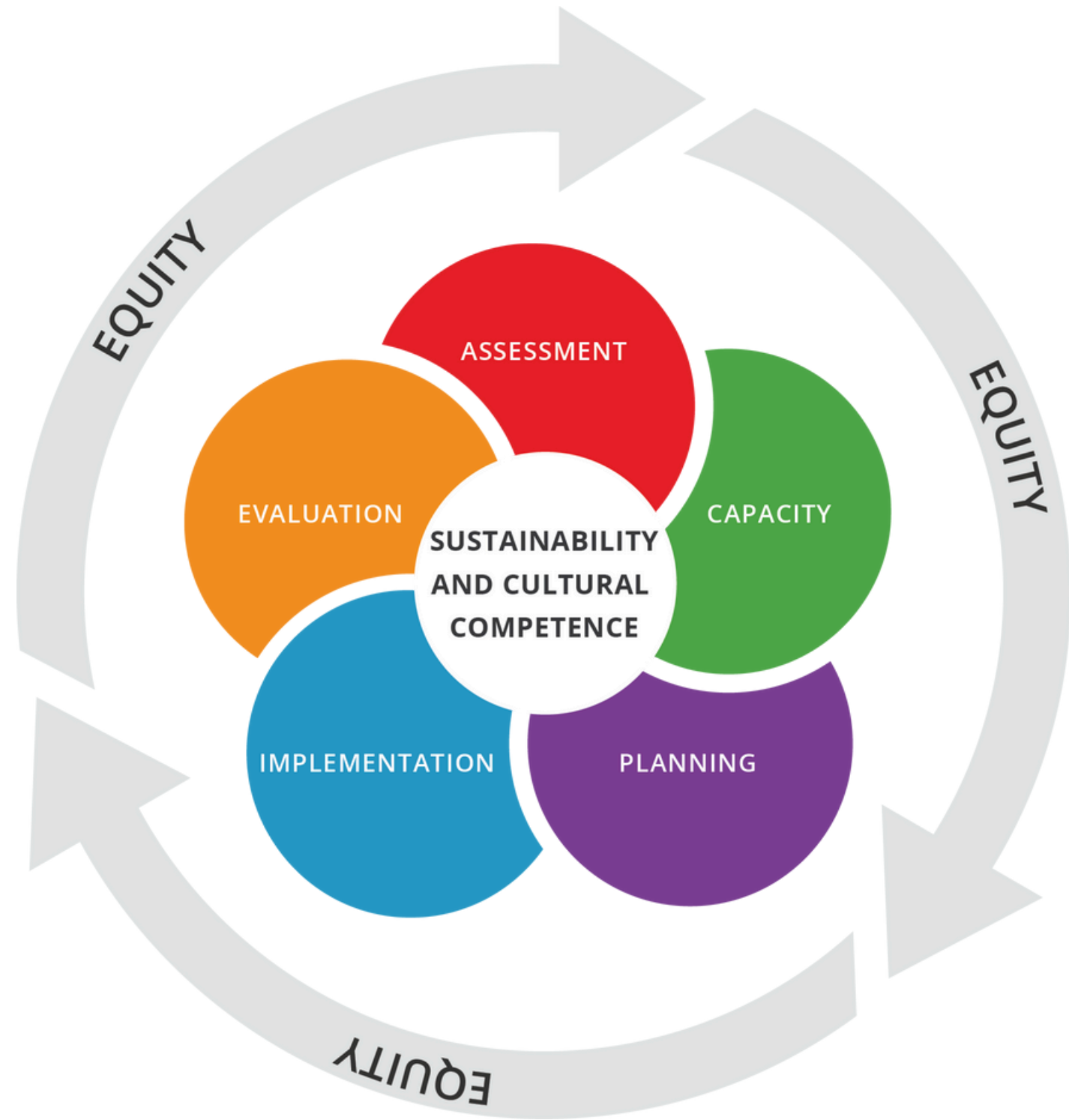
## Greater Boroughs Partnership for Health

GBPH provides public health services for the communities of Boylston, Northborough, Southborough, and Westborough. Our services are supported by the Public Health Excellence Grant from the Massachusetts Department of Public Health.

Regional staff include a Public Health Nurse, Epidemiologist, Shared Service Coordinator, and Health Agent.



**Epidemiologists can support at each phase of the project!**



# **SAMHSA Strategic Prevention Framework**

## **01 Assessment**

Examine data. Collect local data. Who? What? Where? When? Why?

## **02 Capacity**

Build local resources and community partnerships.

## **03 Planning**

Plan prevention program to meet needs of the community.

## **04 Implementation**

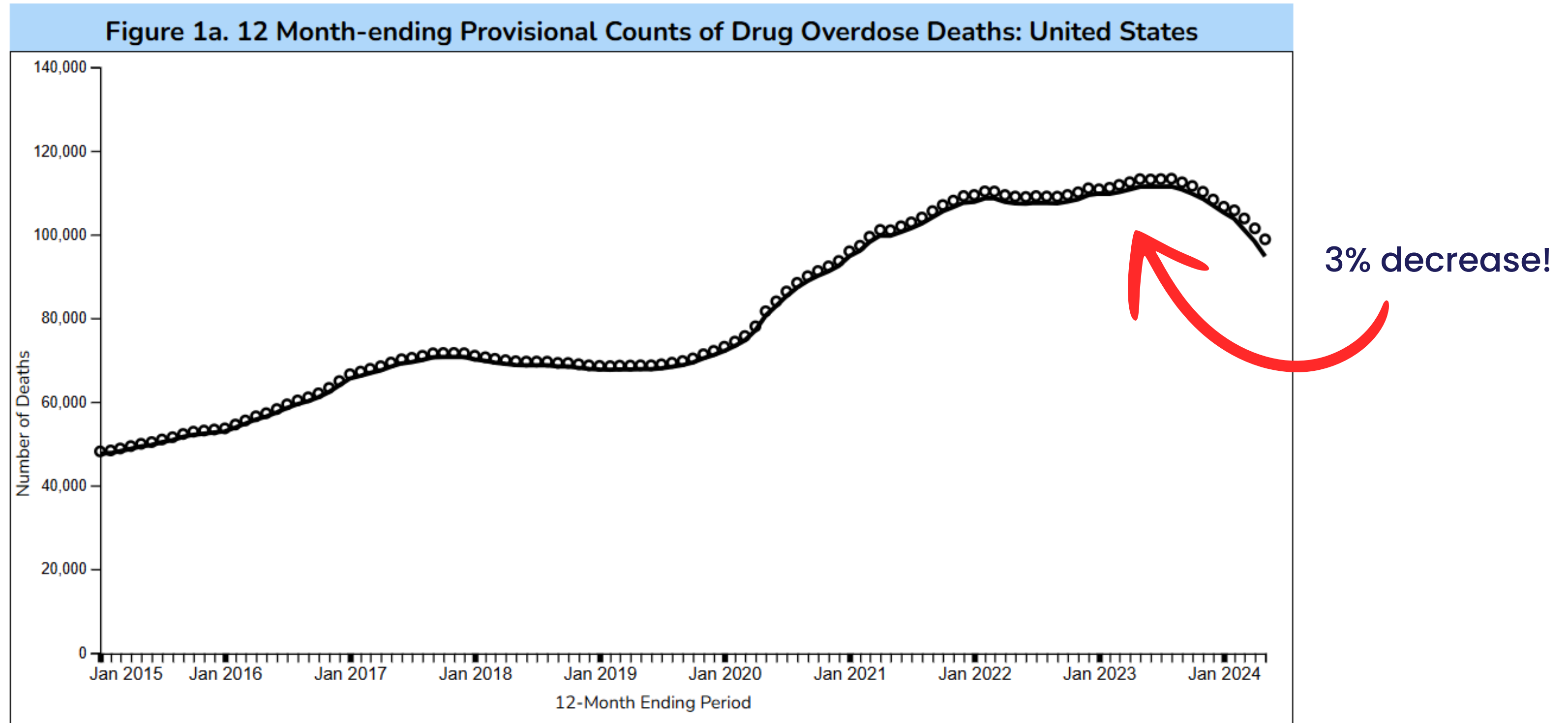
Deliver evidence-based program.

## **05 Evaluation**

Examine the outcomes of the program.

# Country-Level Data

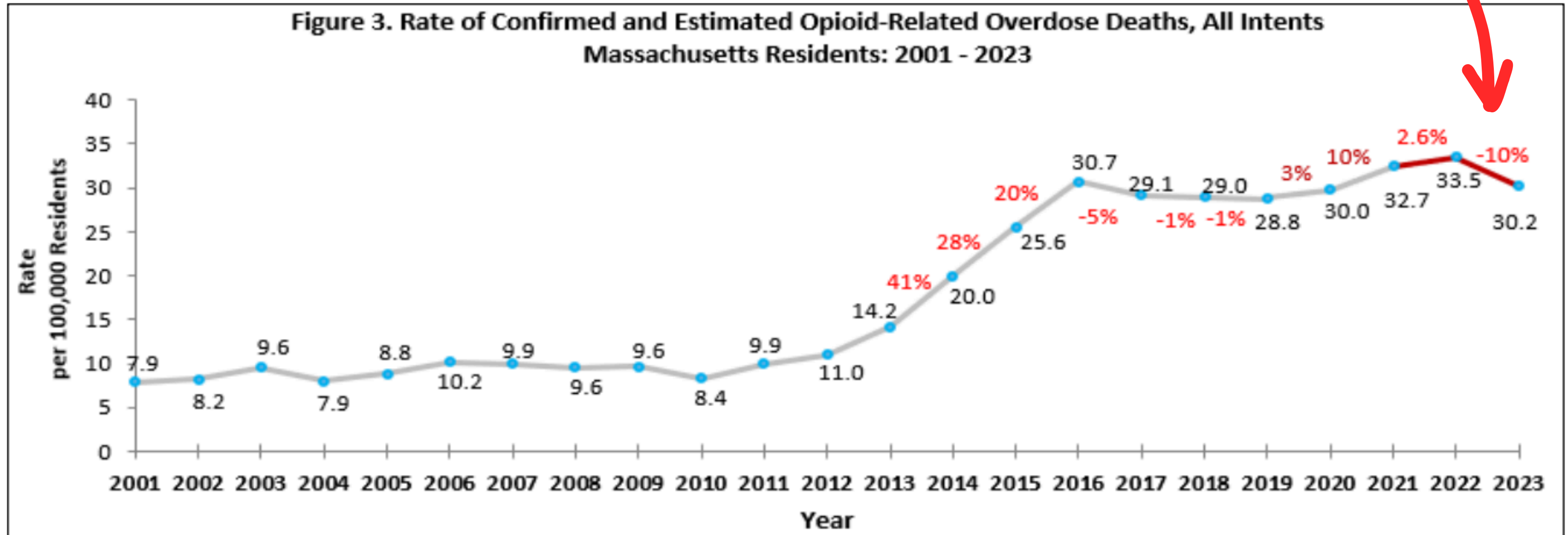
Based on data available for analysis on: October 6, 2024



Source: Ahmad FB, Cisewski JA, Rossen LM, Sutton P. Provisional drug overdose death counts. National Center for Health Statistics. 2024.

# State-Level Data

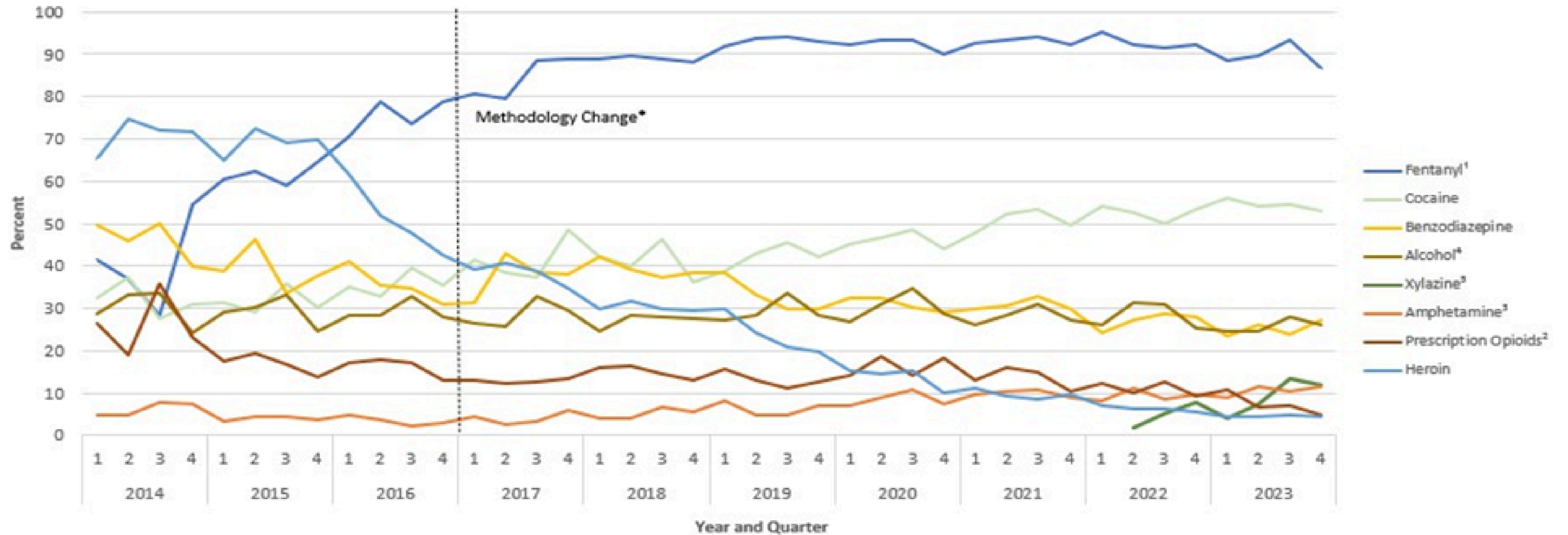
10% decrease!



Source: Data Brief: Opioid-Related Overdose Deaths among Massachusetts Resident, Massachusetts Department of Public Health, July 2024.

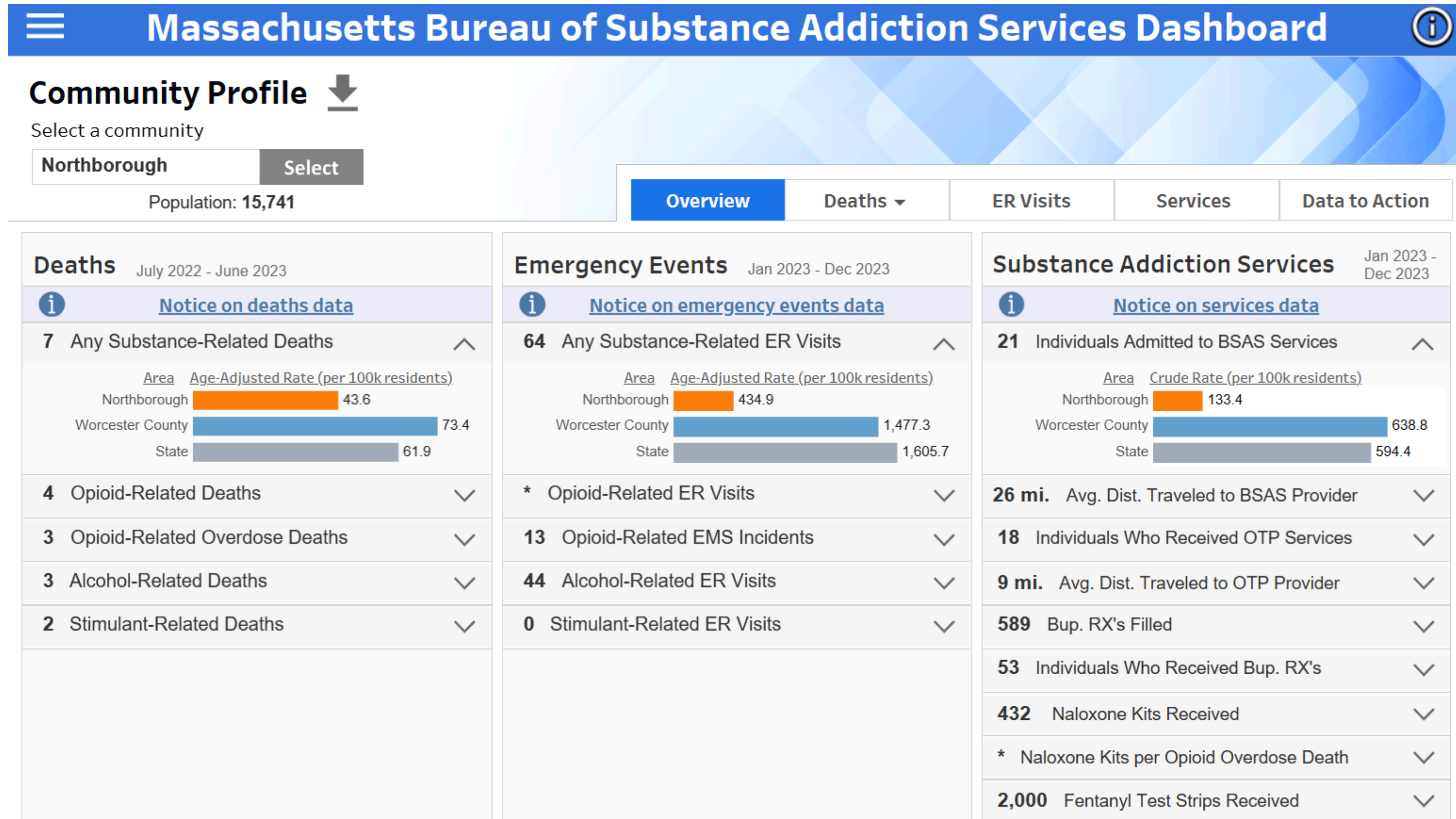
# State-Level Data

Figure 4. Percent of Opioid-Related Overdose Deaths with Specific Drugs Present in Massachusetts  
2014 - 2023



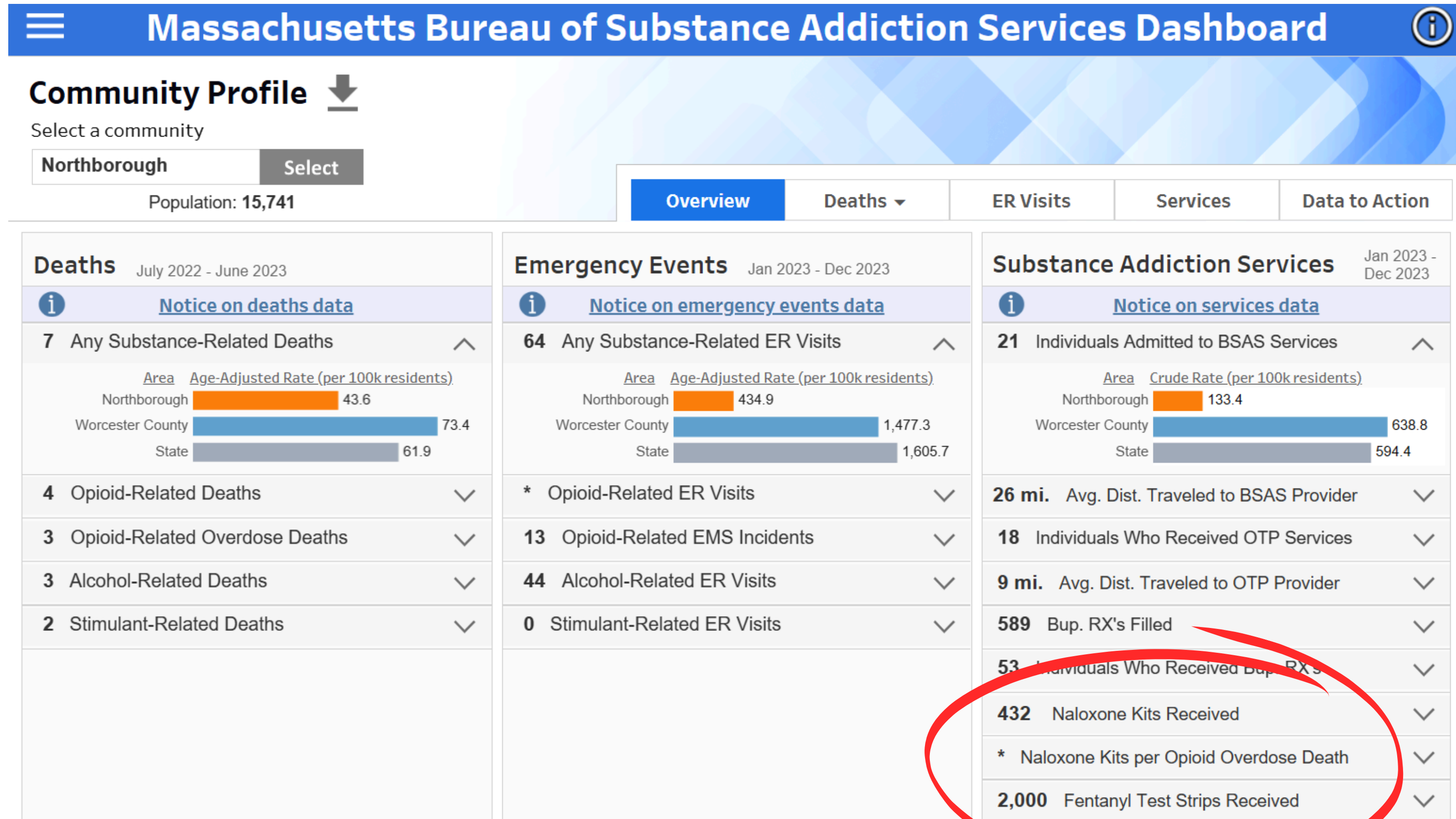
Source: Data Brief: Opioid-Related Overdose Deaths among Massachusetts Resident, Massachusetts Department of Public Health, July 2024.

# Town-Level Data





# Town-Level Data



Source: [www.mass.gov/info-details/bureau-of-substance-addiction-services-bsas-dashboard](http://www.mass.gov/info-details/bureau-of-substance-addiction-services-bsas-dashboard)

# Community Naloxone Program (CNP)

## Goal:

The goal of the CNP is to prevent death from opioid overdose by increasing distribution of free naloxone to community bystanders across Massachusetts.

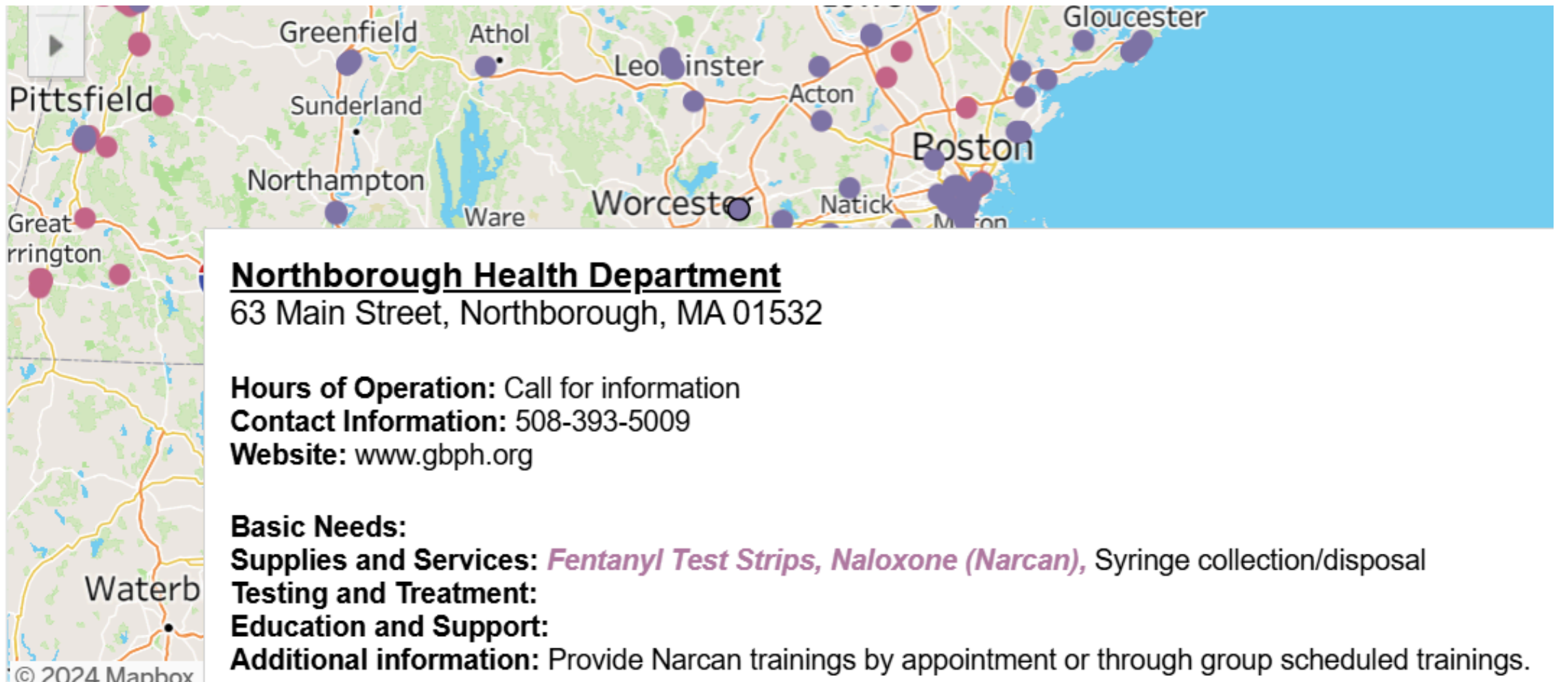
**The CNP allows many eligible programs to obtain Narcan™ brand naloxone through the State Office of Pharmacy.**



### Harm Reduction Program Locator

The map below shows the location addresses, services provided, hours of operation, and contact information of harm reduction programs in MA....

Mass.gov



**Northborough Health Department**  
63 Main Street, Northborough, MA 01532

**Hours of Operation:** Call for information  
**Contact Information:** 508-393-5009  
**Website:** [www.gbph.org](http://www.gbph.org)

**Basic Needs:**  
**Supplies and Services:** *Fentanyl Test Strips, Naloxone (Narcan)*, Syringe collection/disposal  
**Testing and Treatment:**  
**Education and Support:**  
**Additional information:** Provide Narcan trainings by appointment or through group scheduled trainings.

[www.mass.gov/info-details/harm-reduction-program-locator](http://www.mass.gov/info-details/harm-reduction-program-locator)

# Data Requirements



- ✔ Number of naloxone doses distributed.
- ✔ Number of naloxone distribution encounters.
- ✔ Number of overdose reversals reported back to program.

Affiliate programs must designate a staff member as the CNP Coordinator. This person will be the main point of contact with DPH and will take responsibility for required program activities and documentation, and data tracking and reporting.

# GBPH Narcan Trainings

---



**Offers 30-minute trainings in  
Boylston, Northborough,  
Southborough, and Westborough.**

- Monthly group trainings hosted at the libraries in each communities,
- Individual trainings upon request.
- Businesses and local organizations trainings upon request.

## Training Agenda

- What are opioids?
- What is fentanyl?
- What is Narcan?
- What are risk factors of an overdose?
- How to recognize an overdose?
- How to administer Narcan?

# Narcan Trainings

All participants receive a free kit with the following:

- 2 doses of Narcan
- Instructions on Narcan administration
- Fentanyl test strips with instructions
- Face shield for rescue breaths
- Local recovery resource guide



# Community Impact

**1,276**

Doses of Narcan distributed in  
Boylston, Northborough,  
Southborough, and  
Westborough.

**500+**

Residents in Boylston,  
Northborough, Southborough, and  
Westborough trained on how to  
recognize and reverse an overdose.

# Qualitative Evaluation

“Expanding to offer training in the high school health classes might be one idea or as part of 12th grade fitness class as they get ready to graduate.”

-School Key Stakeholder

“The training was informative, sufficient, and the clients really enjoyed the training. It was helpful and we look forward to doing more in the future!”

-Recovery Center

# Key Collaborators

## Health Director/Shared Service Coordinator

- Community Naloxone Program (CNP) application.
- Maintain Controlled Substance Registration for Municipality.

## Public Health Nurse/Prevention Coordinator

- Creates and keeps presentation up-to-date.
- Presents 30-minute presentation for community members.
- Orders naloxone as needed and creates kits with fentanyl test strips and resource guides.

## Epidemiologist

- Tracks and report naloxone data to DPH monthly.
- Reviews substance use data from MetroWest Health Foundation, DPH, CDC.
- Use data to inform Narcan trainings and future substance prevention work.

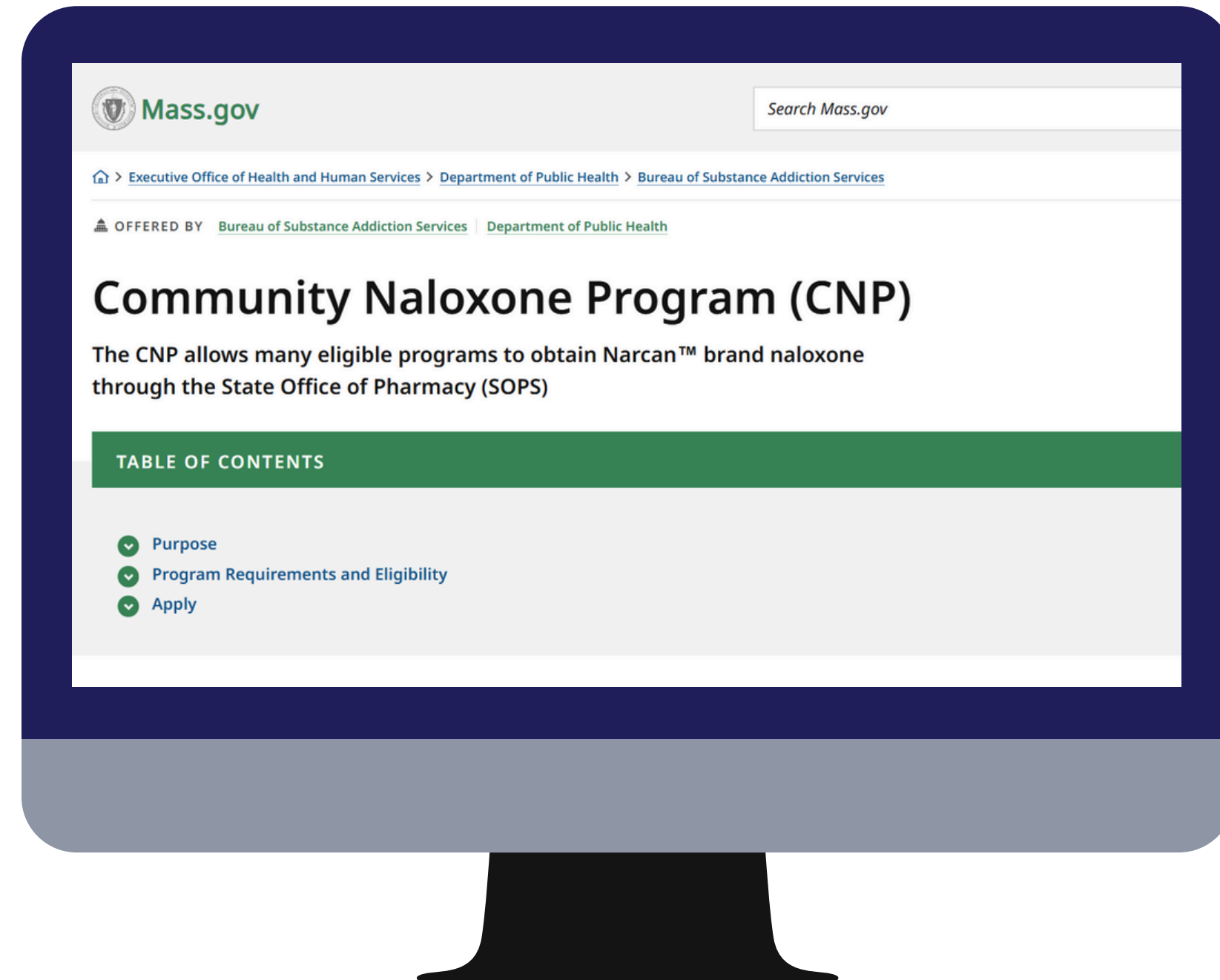
**Community outreach and engagement to increase visibility and reach of naloxone trainings.**



# CNP Information

## How to apply?

- Online application:
  - [www.mass.gov/info-details/community-naloxone-program-cnp](https://www.mass.gov/info-details/community-naloxone-program-cnp)
- Reach out to [naloxone@mass.gov](mailto:naloxone@mass.gov) with questions about the program



# MA Substance Use Resources

## **You Can:** [www.youcan.info](http://www.youcan.info)

- A web resource, created by HRIA and funded by DPH, that goes over the basics of overdose response and rescue breathing.

## **SafeSpot:** [www.safe-spot.me](http://www.safe-spot.me)

- MA Overdose Prevention Line offers virtual monitoring of those who are using drugs alone.

## **MA Substance Use Helpline:** [www.helplinema.org](http://www.helplinema.org)

- Statewide resource for finding substance use harm reduction, treatment, recovery, and problem gambling services.

## **Massachusetts Health Promotion Clearinghouse:**

[www.massclearinghouse.ehs.state.ma.us](http://www.massclearinghouse.ehs.state.ma.us)

- Free health promotion materials for MA residents and health and social services providers.



# Thank you!



## Reach out with any questions!



**Isabella Caruso, MPH**

Health and Human Services Director  
Town of Northborough



508-504-1812



[icaruso@town.northborough.ma.us](mailto:icaruso@town.northborough.ma.us)



**Health  
& Human Services**  
Northborough



**Greater Boroughs  
Partnership for Health**

# Alpha Gal Syndrome:

Tracking & Tackling a New Tick Epidemic on Martha's Vineyard

Massachusetts Health Officer  
Association Conference  
November 13, 2024



**Lea Hamner, MPH**

Contract Epidemiologist, Cape & Islands



**Patrick Roden-Reynolds**

Director & Biologist, Martha's Vineyard Tick Program

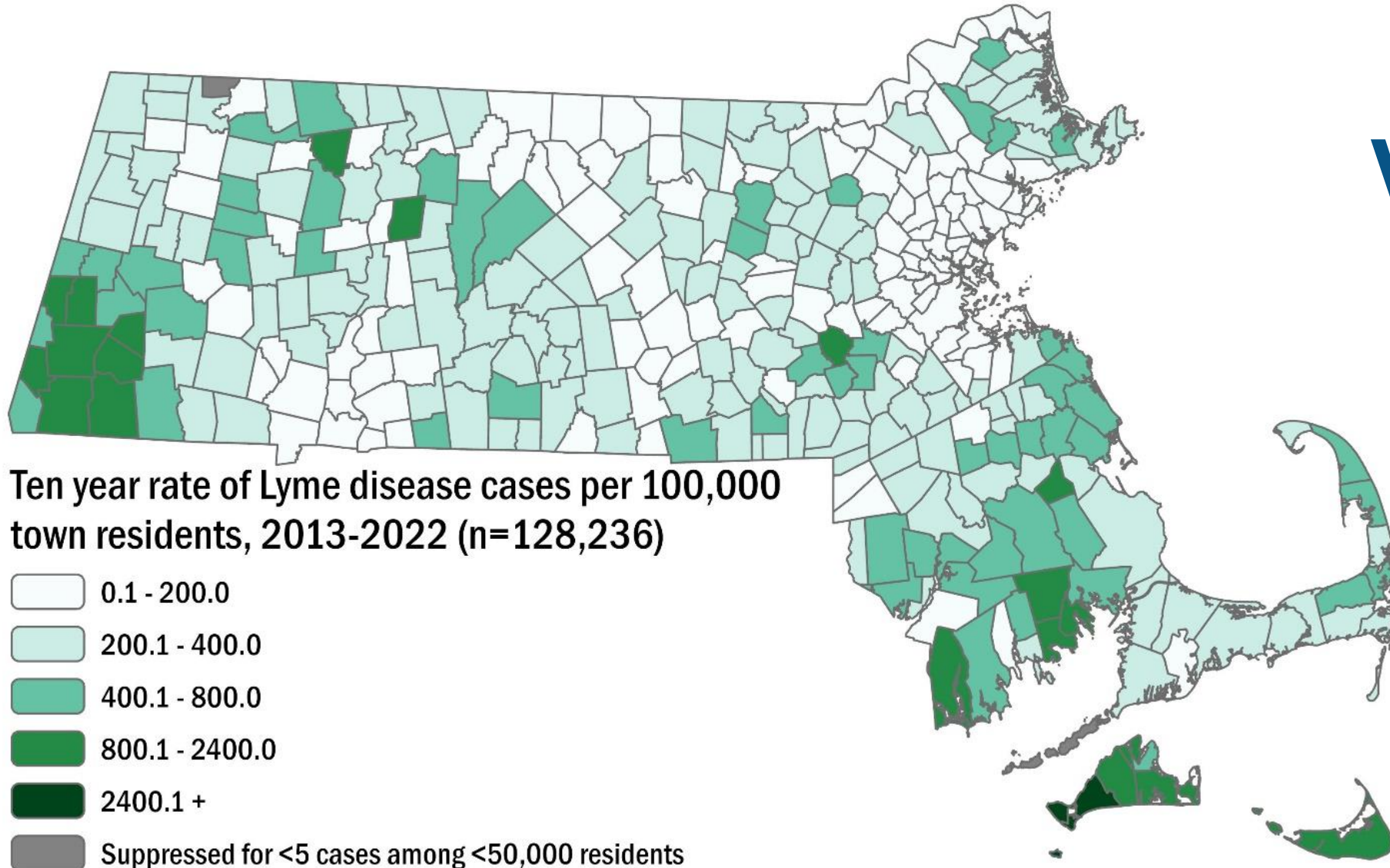




# Roadmap

1. The Ticks
2. The Allergy
3. The Data

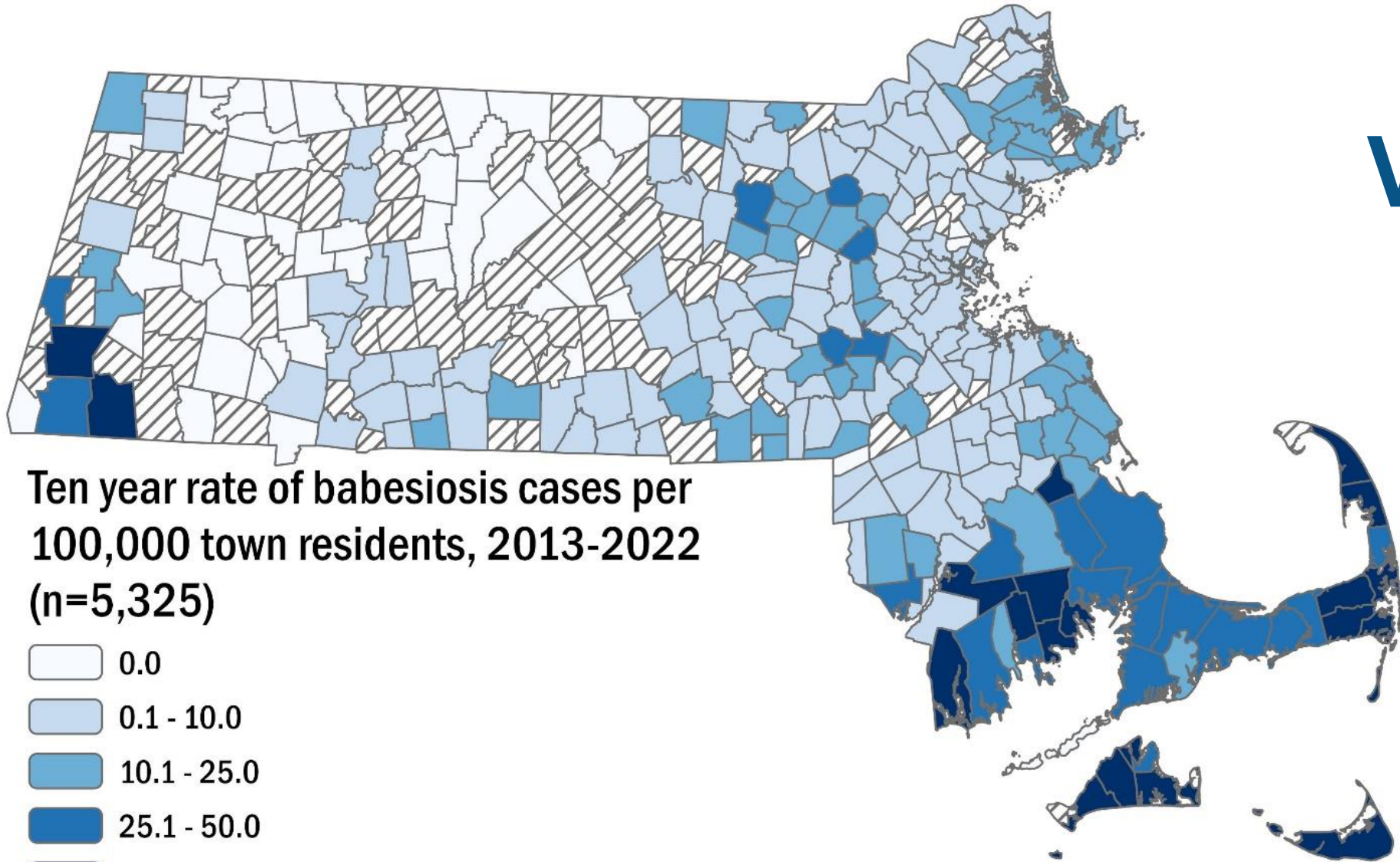
# Martha's Vineyards Tick Problem



There were 4,851 cases with no town assigned that are not represented on this map. Data are current as of February 2024 and are subject to change.

Massachusetts Department of Public Health  
Bureau of Infectious Disease and Laboratory Sciences

# Martha's Vineyards Tick Problem



Ten year rate of babesiosis cases per 100,000 town residents, 2013-2022 (n=5,325)

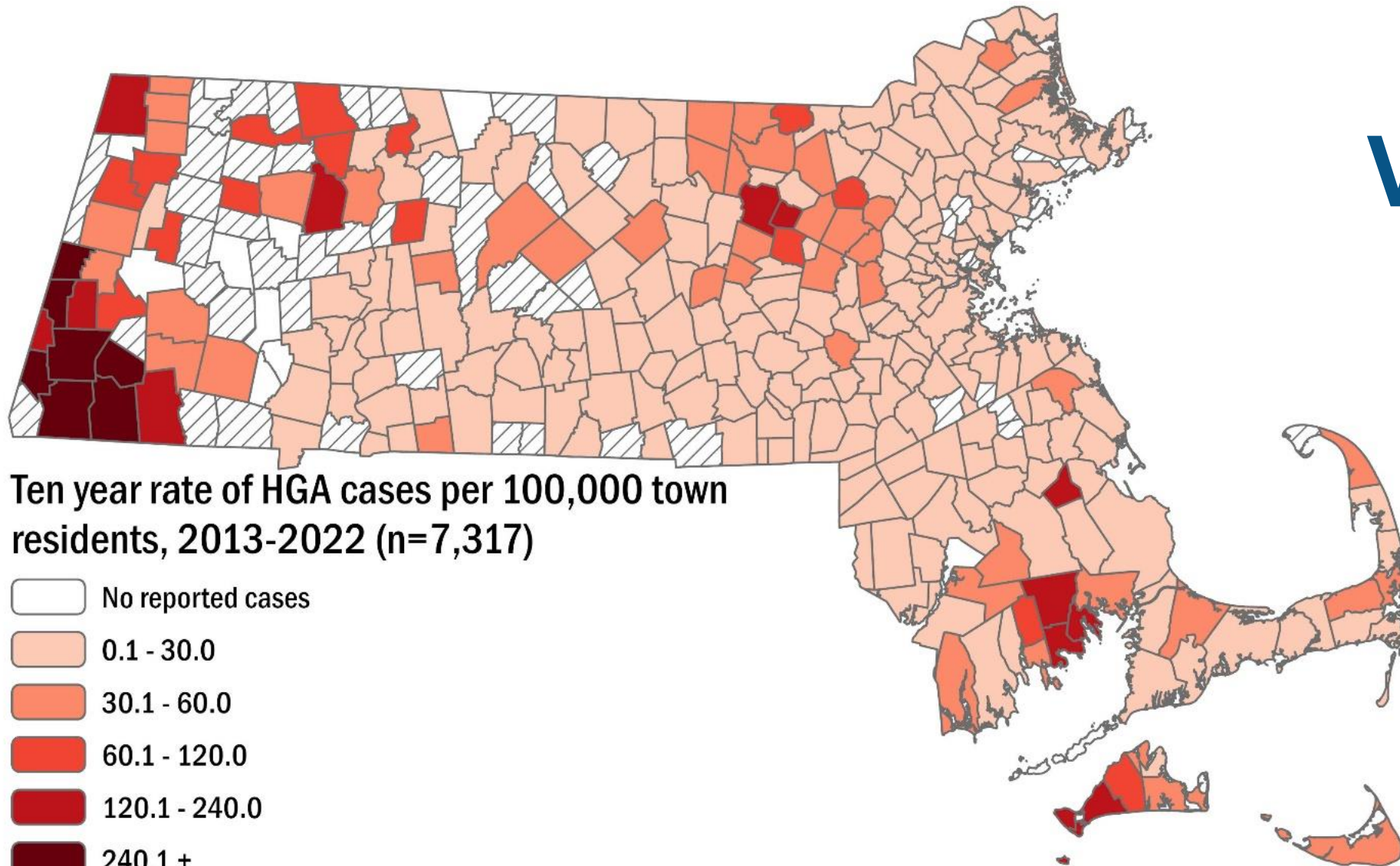
- 0.0
- 0.1 - 10.0
- 10.1 - 25.0
- 25.1 - 50.0
- 50.1 +

Suppressed for <5 cases among <50,000 residents

Data are current as of February 2024 and are subject to change.

Massachusetts Department of Public Health  
Bureau of Infectious Disease and Laboratory Sciences

# Martha's Vineyards Tick Problem



There were 5 cases with no town assigned that are not represented on this map. Data are current as of February 2024 and are subject to change.

Massachusetts Department of Public Health  
Bureau of Infectious Disease and Laboratory Sciences



# The Team



Patrick Roden-Reynolds  
**Biologist**  
IIPHEC Staff



Amelia Hambrecht  
**Public Health Nurse**  
Contracted



Betsy VanLandingham  
**Case Investigation Coordinator**  
Contracted



Lea Hamner  
**Epidemiologist**  
Contracted



Mike Hugo  
**Shared Service Coordinator**  
Contracted



**8 Town Health Agents &  
Directors**  
in IIPHEC

# Enter a New Tick: Lone Star (*Amblyomma Americanum*)



## Martha's Vineyard Tick Program

Residential Yard  
Survey

May 31, 2024 in  
Chilmark, MA

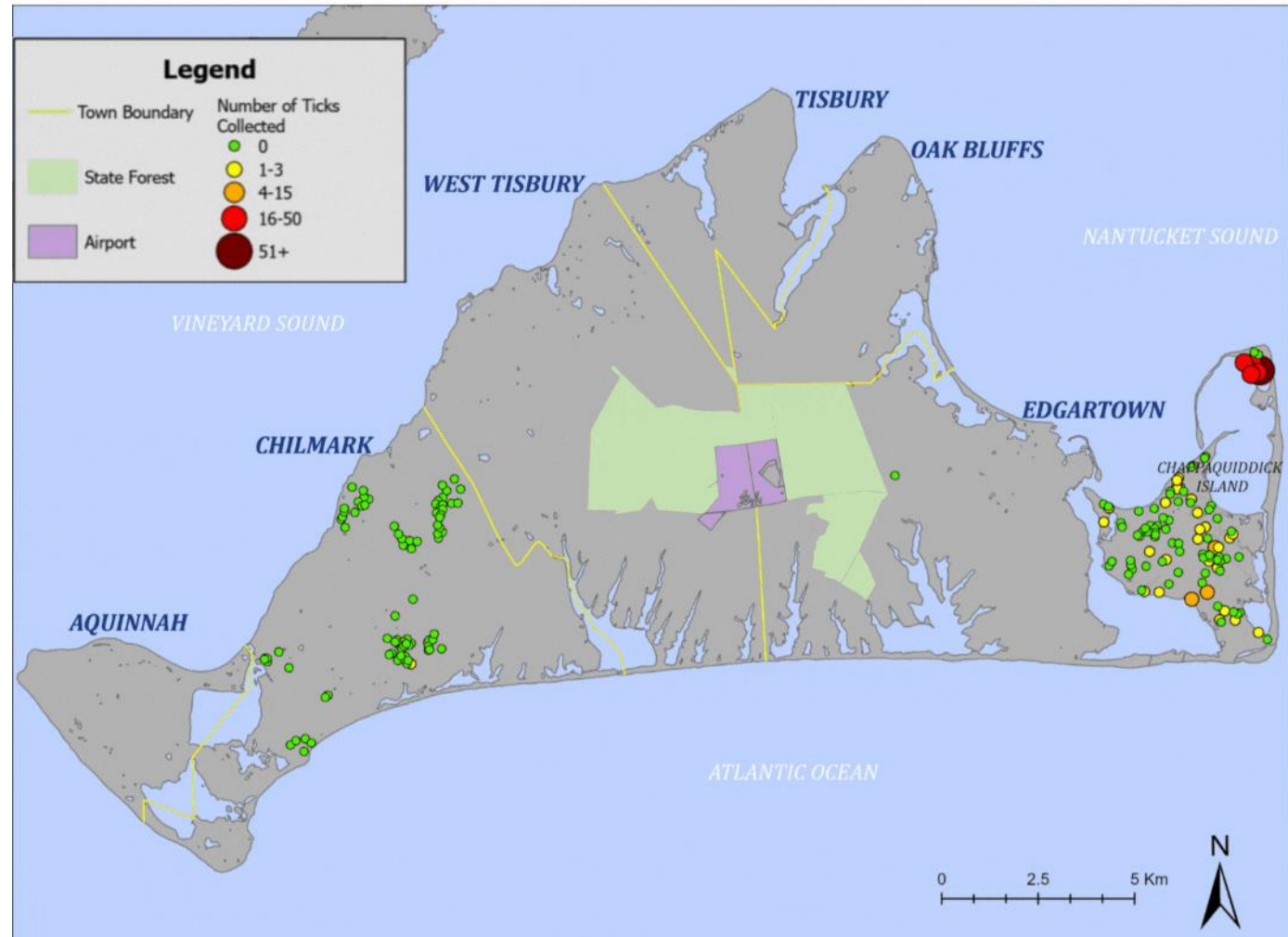
Lea's yard

# Lone Star Ticks: A tale of relentless expansion



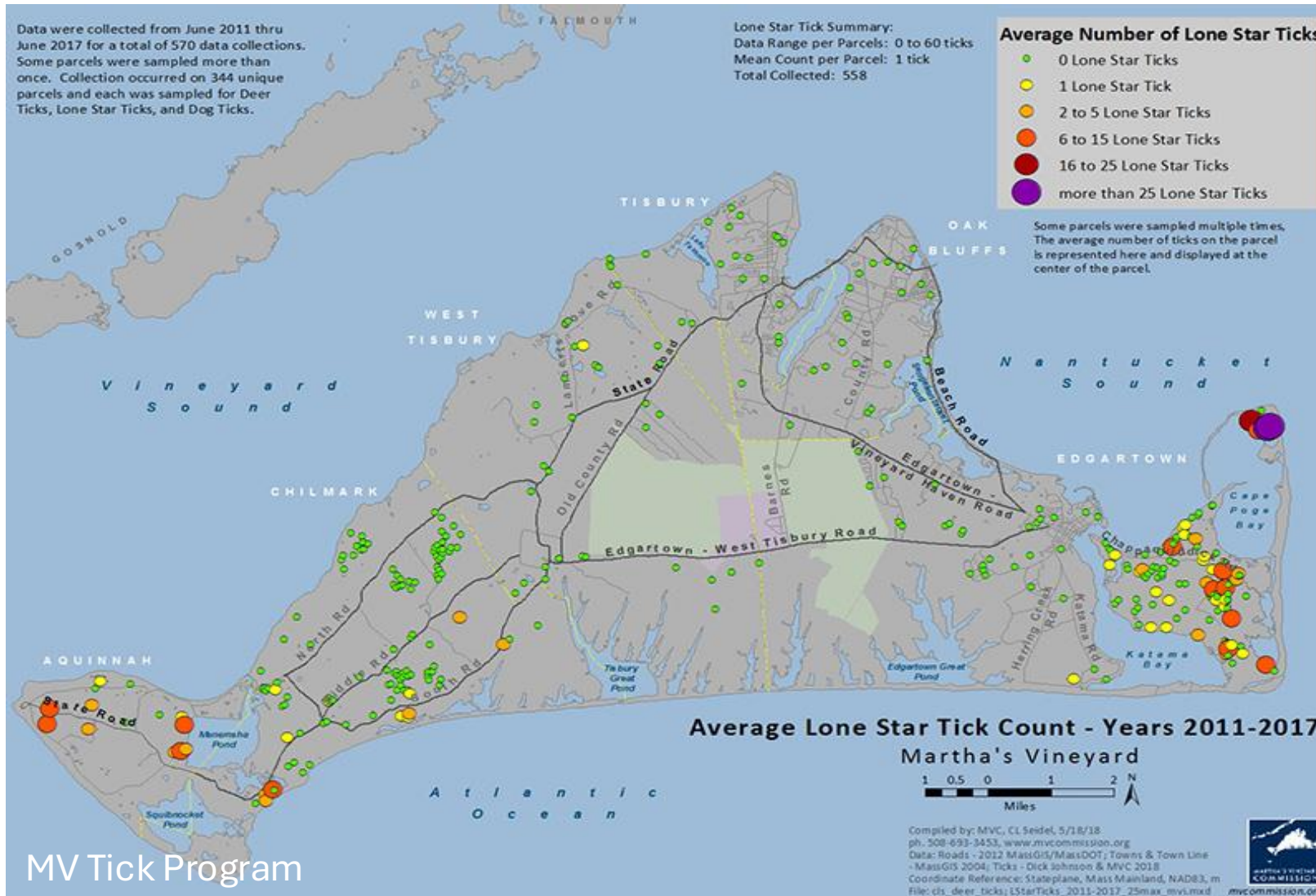
Check us out in the  
poster hall!

# 2011-2015

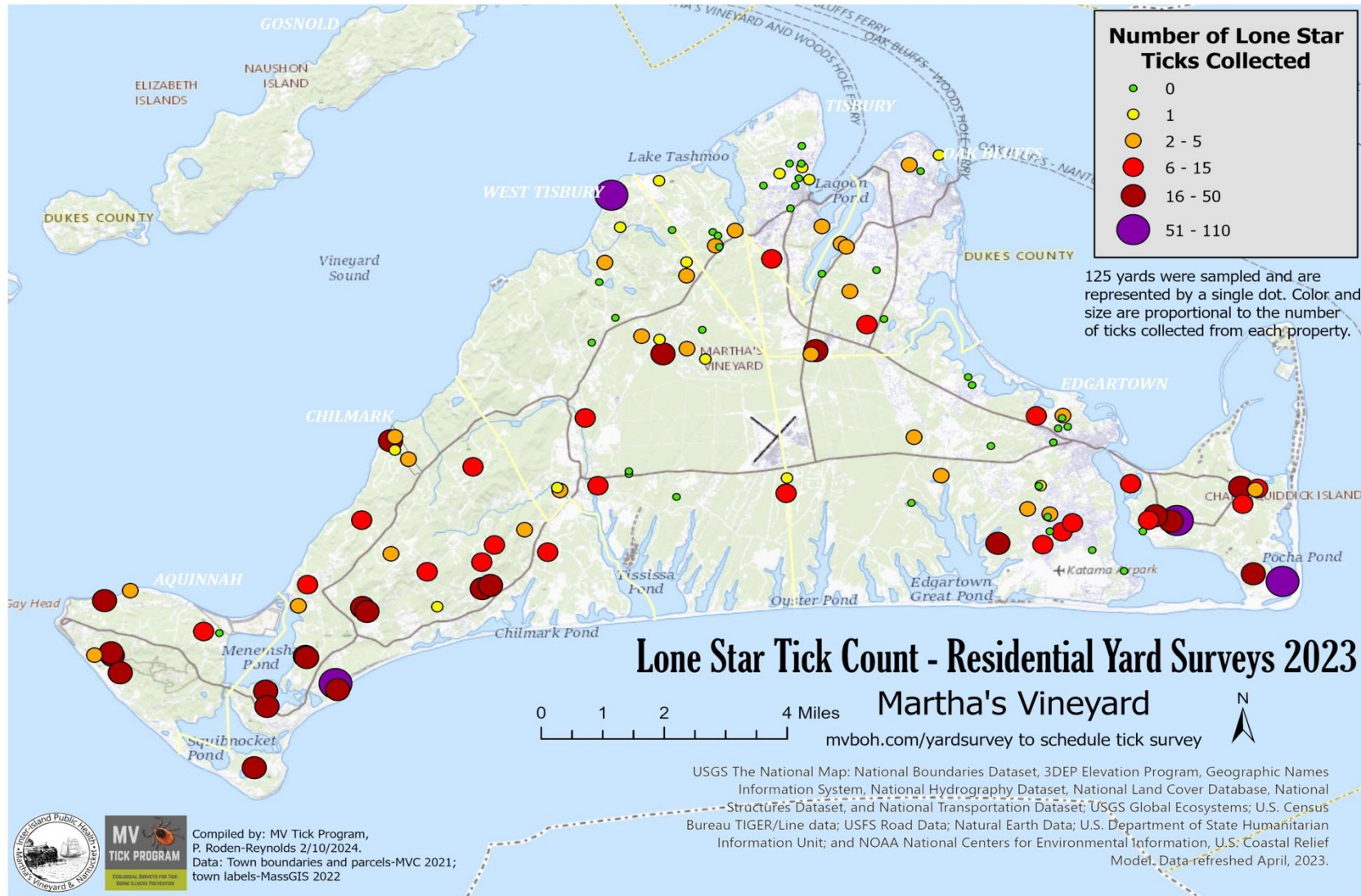


## Lone Star ticks found in Residential Yard Surveys

# Lone Star Ticks: A tale of relentless expansion



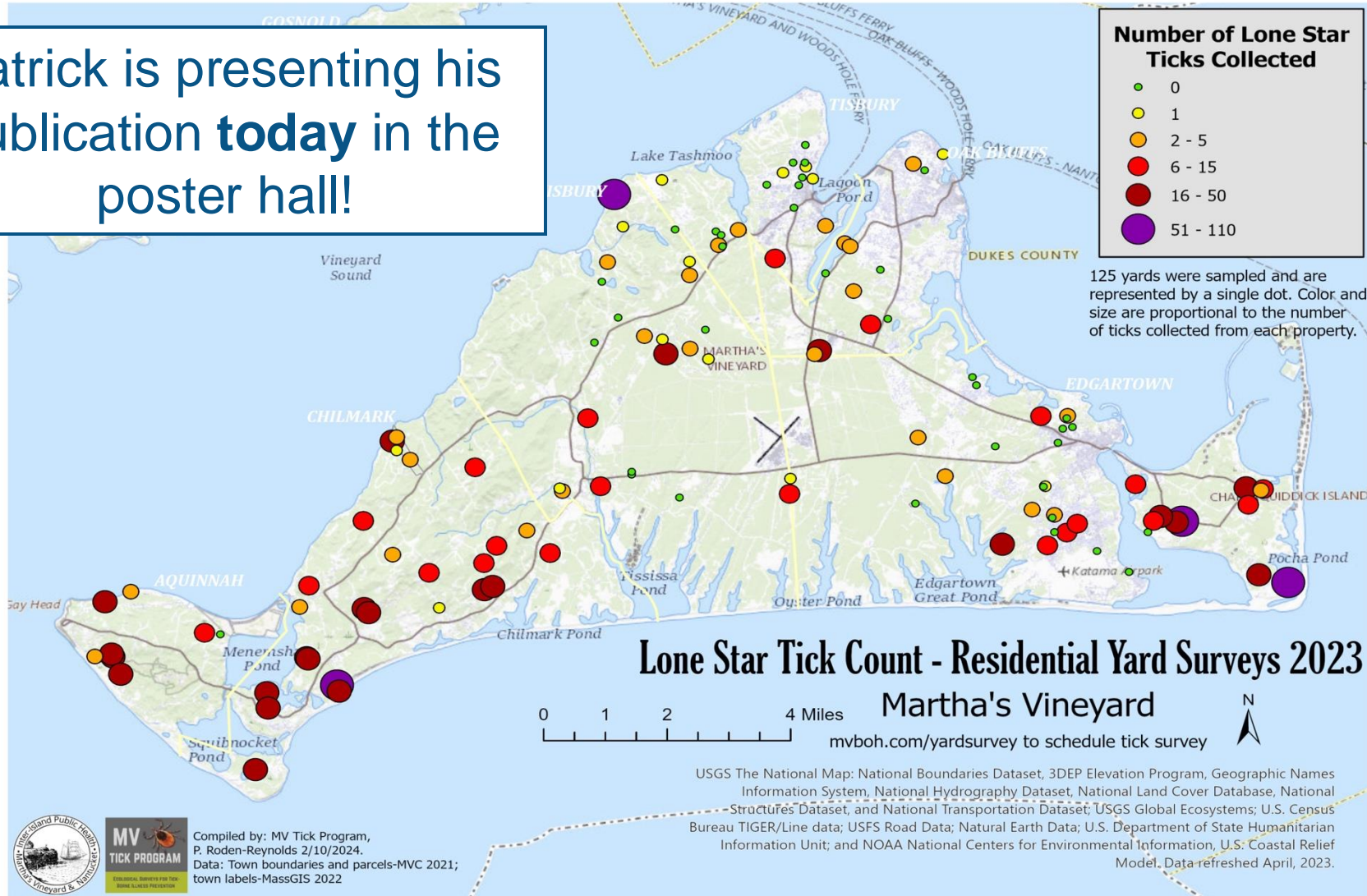
# Lone Star Ticks: A tale of relentless expansion



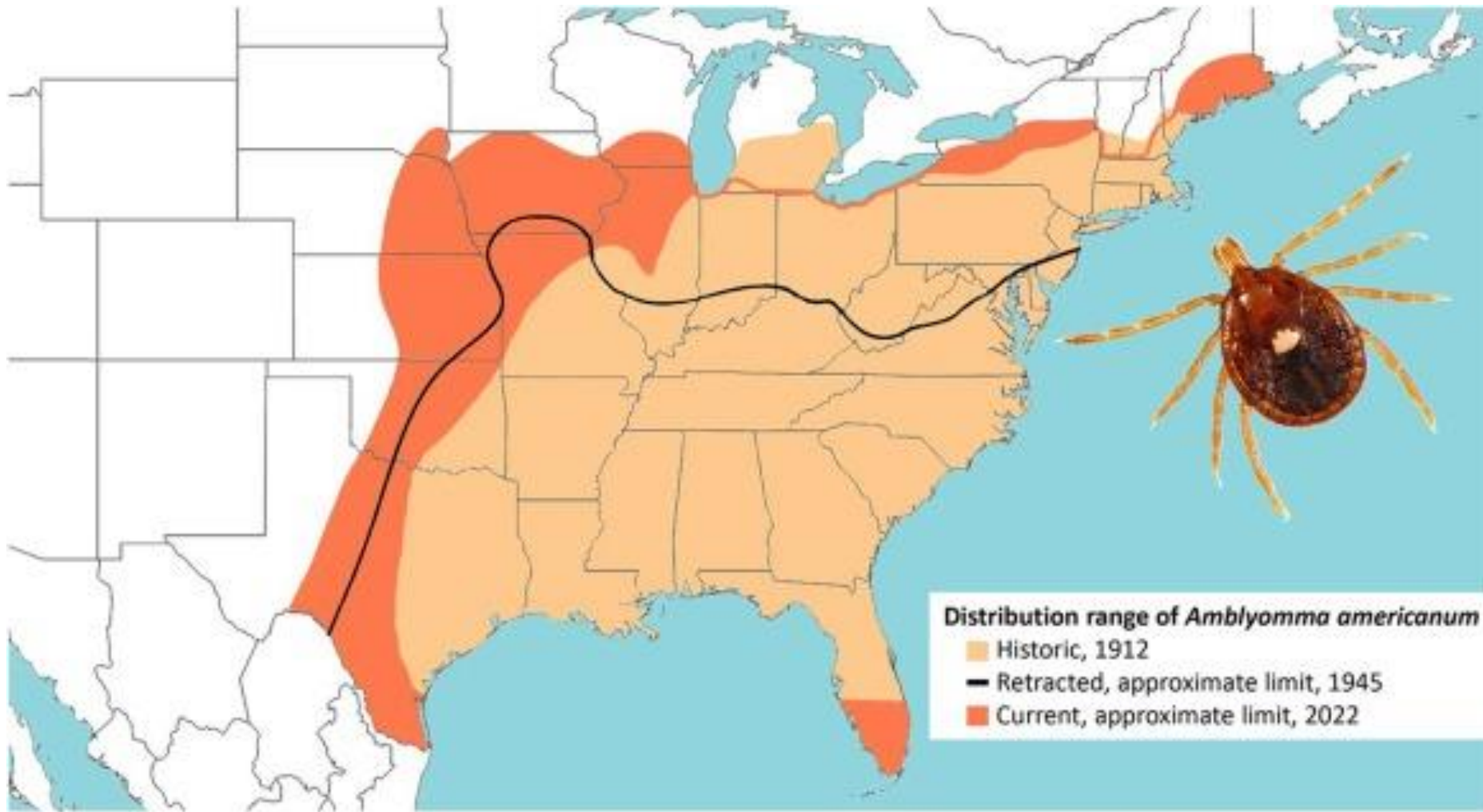
# Lone Star Ticks: A tale of relentless expansion



Patrick is presenting his publication **today** in the poster hall!



# Lone Star Tick Distribution



ALPHA-GAL INFORMATION

A PROJECT OF ALPHA-GAL ALLIANCE

# ALPHA-GAL SYNDROME

The Epidemic You Never Heard of

[LEARN MORE](#)





Monday, October 28th @ 6pm on Zoom

## Alpha-gal syndrome: the tick bite-induced epidemic of severe allergic reactions

# Epi at Work:

## Communicating the Science



Top alpha-gal expert, Dr. Scott Commins, will explain the basic science and translational work that went into describing the alpha-gal mammalian meat allergy. He will present research related to defining both the cause and the mechanism of alpha-gal IgE response, the role of tick bites in AGS, and the epidemiology of AGS in the US and globally. A question and answer period to follow talk.



Scott Commins is the Dr. William J. Yount Distinguished Professor at The University of North Carolina at Chapel Hill, where he serves as Section Chief for Allergy and Immunology in the Department of Medicine. Dr. Commins maintains an active clinical practice and research program with a focus on food allergy, including the alpha-gal syndrome (AGS) and eosinophilic esophagitis.

[Link](#)

58:32

Vineyard Haven Library  
200 Main Street | Vineyard Haven  
www.vhlibrary.org | 508.696.4244

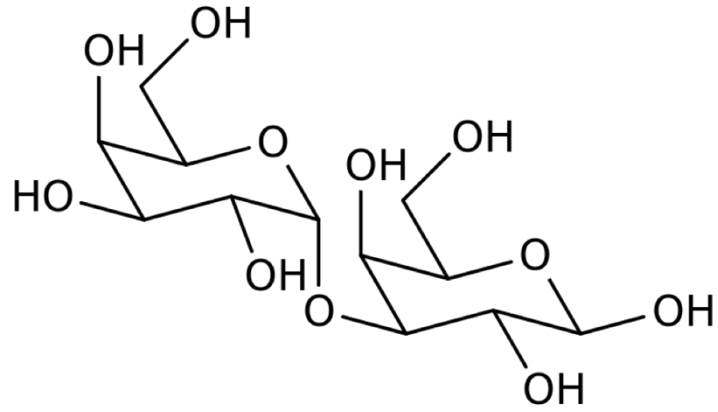


An extremely abbreviated version:

---

**Alpha Gal Syndrome**

---



Galactose alpha-1,  
3-galactose  
(A carbohydrate)

---

# Alpha Gal Syndrome

---

Present in  
tissues & cells of  
**ALL non-primate**  
mammals &  
some other  
organisms too



---

# Alpha Gal Syndrome

---

## **An allergy**

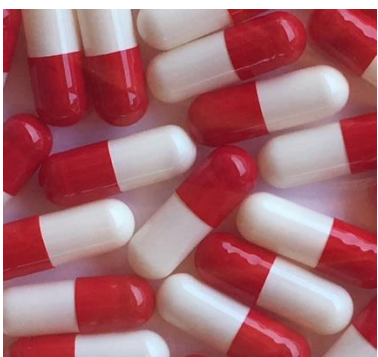
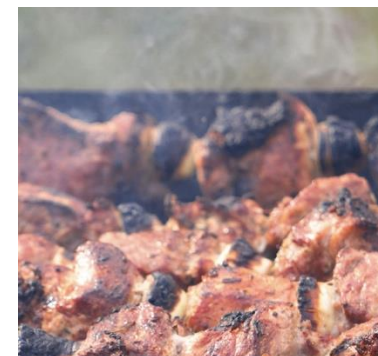
Wide range of symptoms that can affect gastrointestinal, skin, cardiovascular, and respiratory systems.

**Delayed symptoms (2-8 hours) after exposure**

“Consistently Inconsistent”

**Reactions can be mild to life-threatening**

# Exposure Sources



## Food Allergen Regulations:

- Currently **NO** regulatory requirements for the labeling of foods, medications, or products with mammalian content.
- Term “Vegan” is also not regulated. “Vegan-certified” products are safer but not guaranteed.

# Management of Alpha Gal Syndrome

- Referral to allergist
- Diet and lifestyle changes depending on triggers
- No cure, BUT...
  - **Allergy can go away for some patients** (usually years)
  - **Allergy can come back if re-exposed to Lone Star ticks**

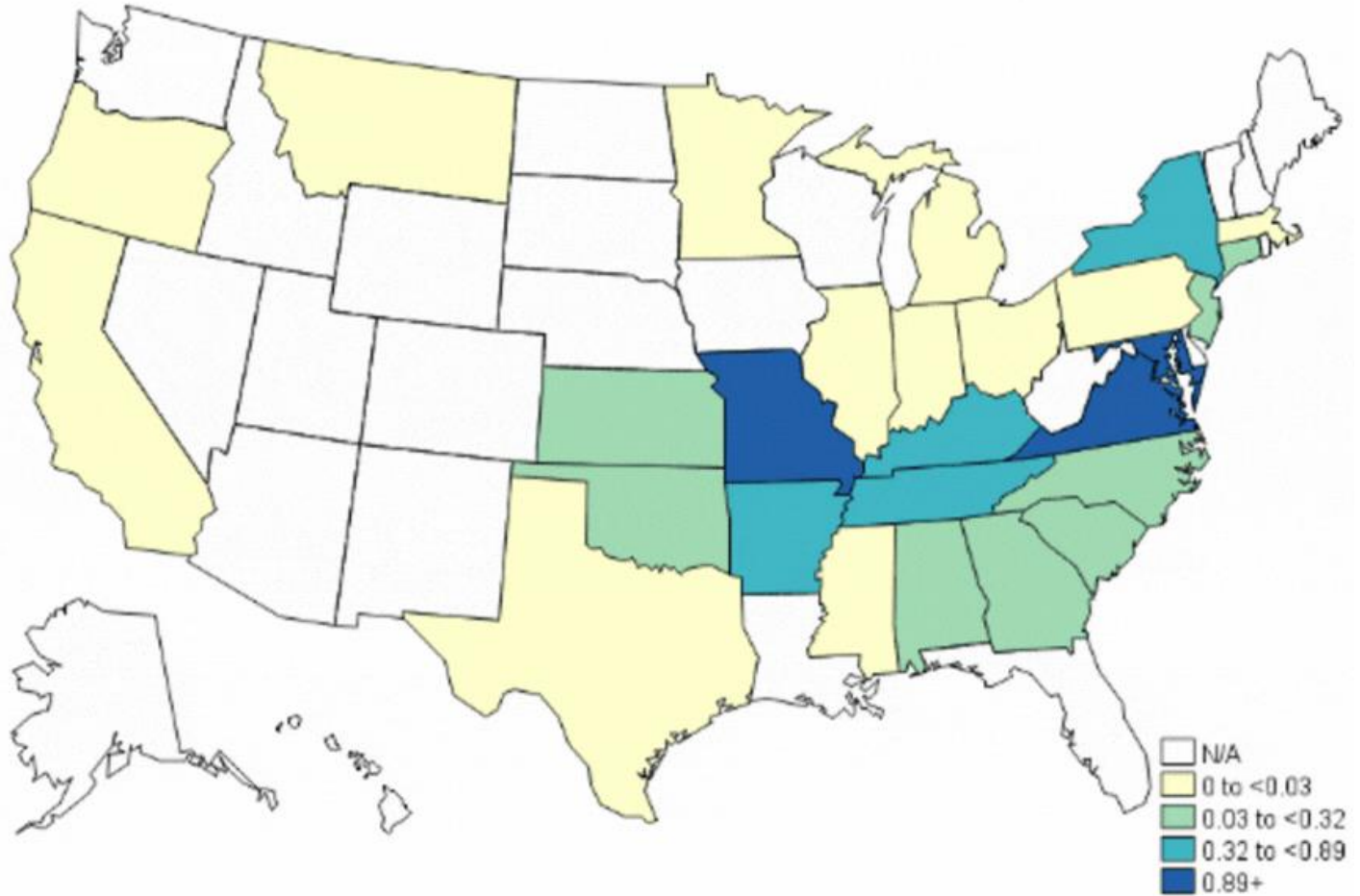
**Prevention is the cure.  
PREVENT TICK BITES.**

# 2013

## An Allergy Epidemic

Persons positive  
per 100,000  
population

Article: Binder,  
Commins, et al  
2021

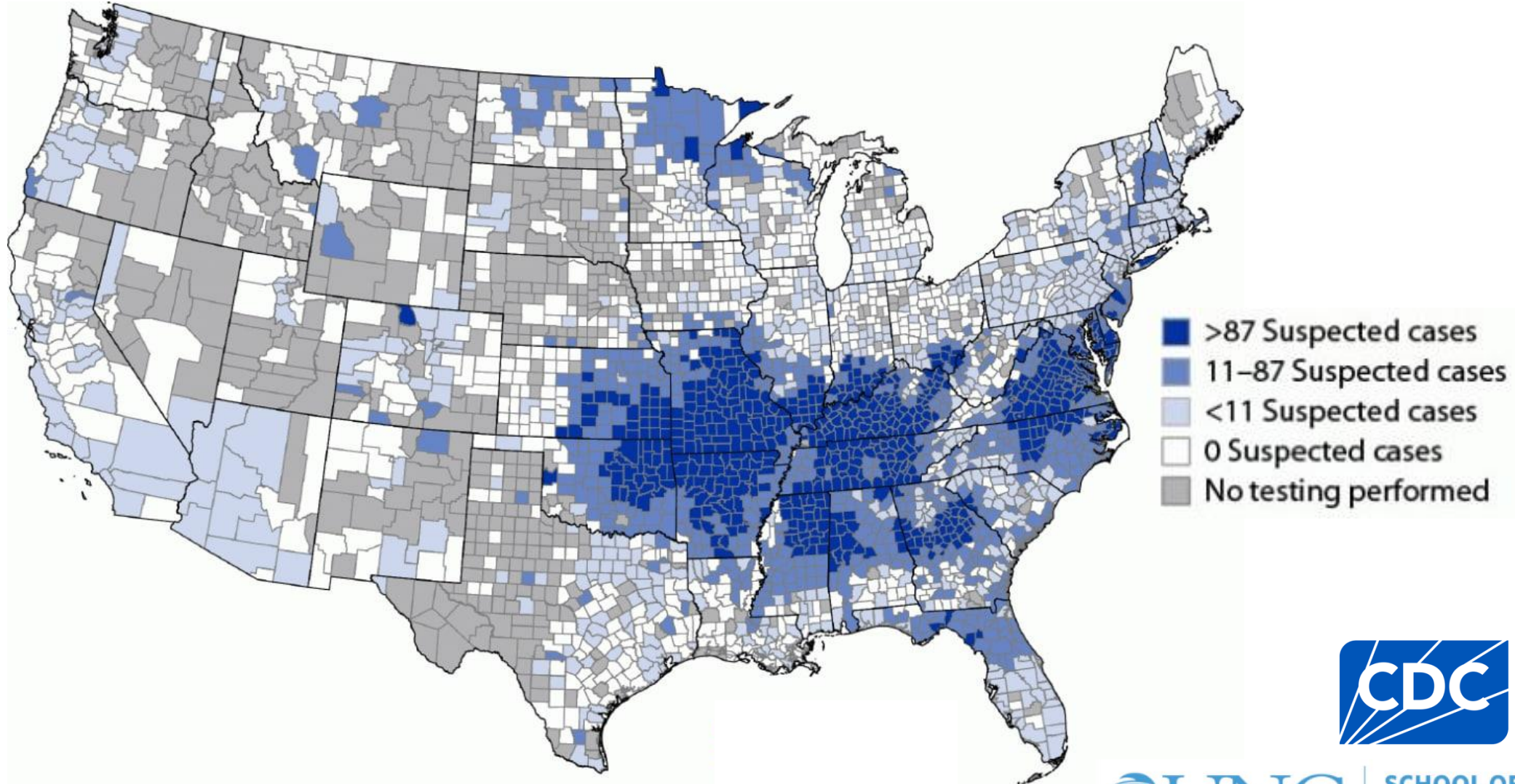


# Most Recent Map per Lab Surveillance

2017-  
2022

Persons  
positive per  
1,000,000  
population

Article:  
Thompson et  
al, 2023





# CDC Reports Shocking Increase in Cases and a Lack of Physician Awareness



**450,000**

Up to 450,000 Americans are now estimated to have alpha-gal syndrome.



**10th Most Common Food Allergen**

The CDC's estimate makes alpha-gal syndrome the 10th most common food allergy in the U.S.



**78%**

78% of healthcare providers know little to nothing about alpha-gal syndrome.



**Only 5%**

Only 5% of healthcare providers feel very confident in diagnosing and managing alpha-gal syndrome.

**You're telling me...**

there is a recently discovered allergy caused by tick bite,  
**and these Lone Star ticks are rapidly expanding their territory,**  
and doctors don't know how to recognize the allergy or manage it,  
**and patients don't know what is causing their symptoms,**  
and foods & products aren't labeled for the allergen,  
**and the allergy can go away but come back if you get more bites?**

**Yes. Yes, we are.**



# Data Informed, Community Driven

**Goal 1:** Prevent tick bites

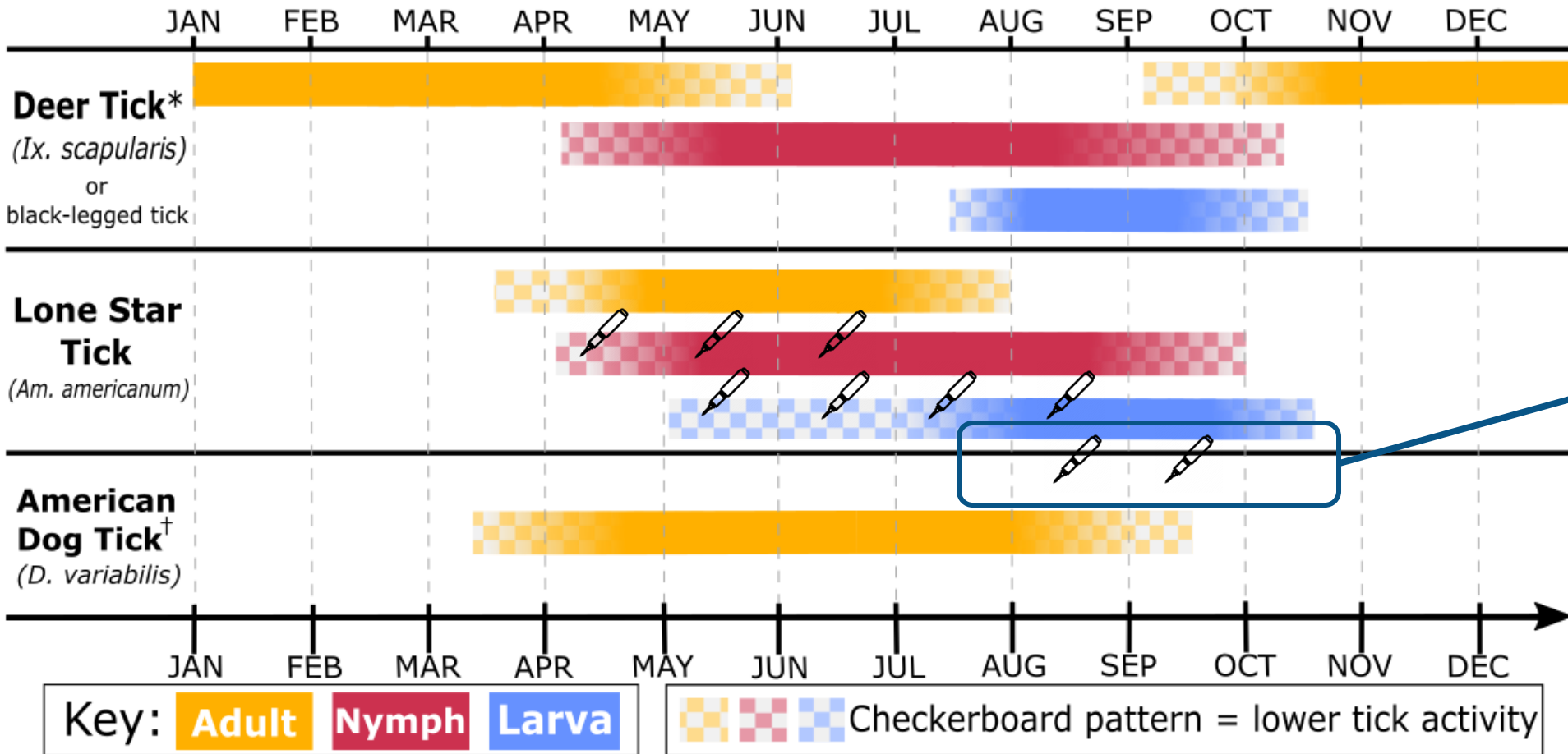
**Goal 2:** Increase awareness and accurate information among public, providers, leaders, schools, etc

**Goal 3:** Support those currently suffering.

**Goal 4:** Investigate & add to the science; attract experts to study AGS here.

Photo of the first Alpha Gal Support Group meeting led by our Public Health Nurse

# Exposure Risk is in Spring to Fall



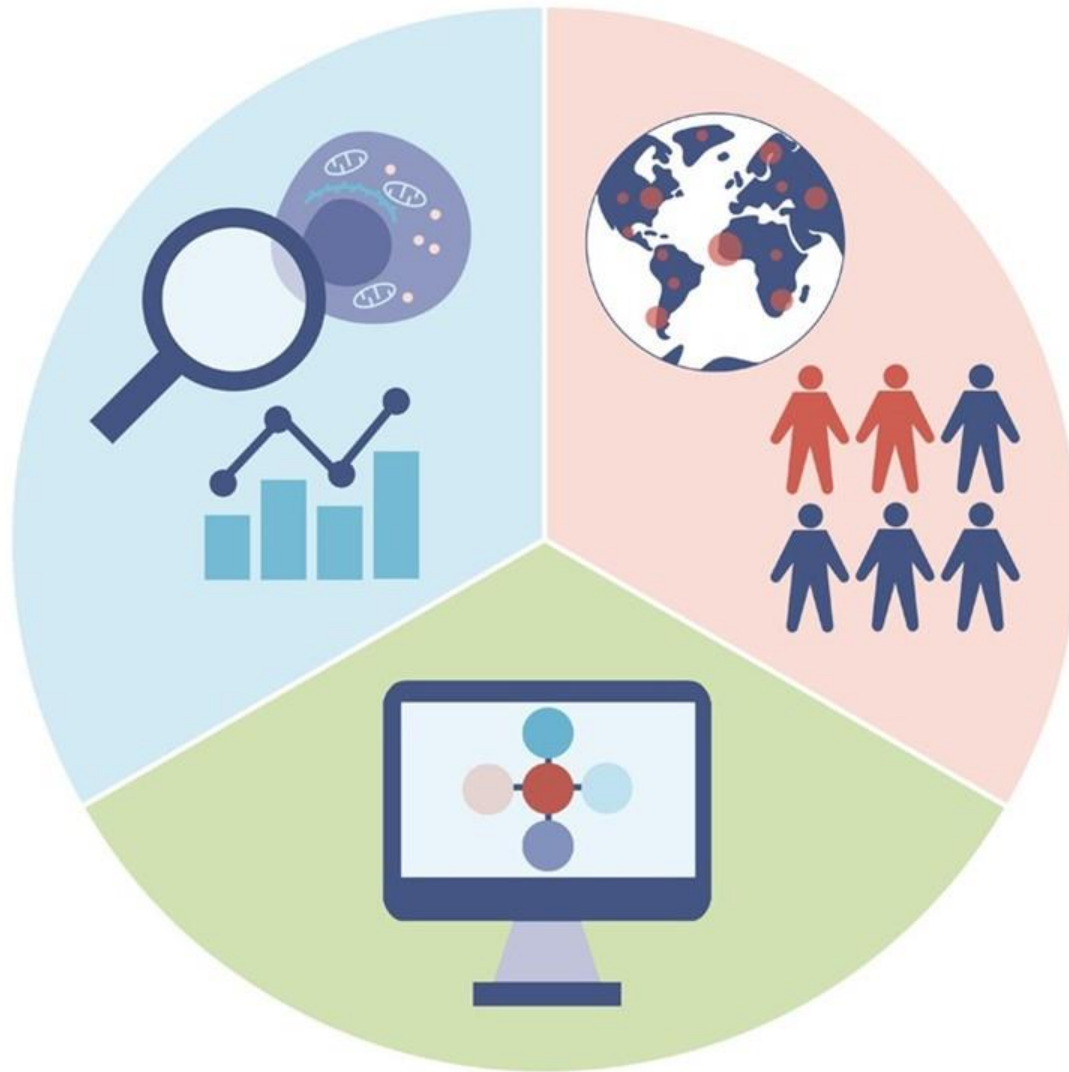
\*Deer tick adults will be active when temperatures are above 40°F.

†Only the adult life stage of the American Dog Tick is known to bite humans.

Compiled by P. Roden-Reynolds for IIPHEC & MV Tick Program 02/2024  
Adapted from "Ticks and Tick-borne Diseases of Virginia" flyer. Virginia Department of Health



[Link to graphic](#)



**Epi at  
Work:**

**Measuring  
the  
Problem**

# Alpha Gal is NOT a Reportable Disease in MA

MAVEN Electronic Disease Surveillance System(EDSS)

Several Tickborne Conditions are NOT Reportable in MA State Law:

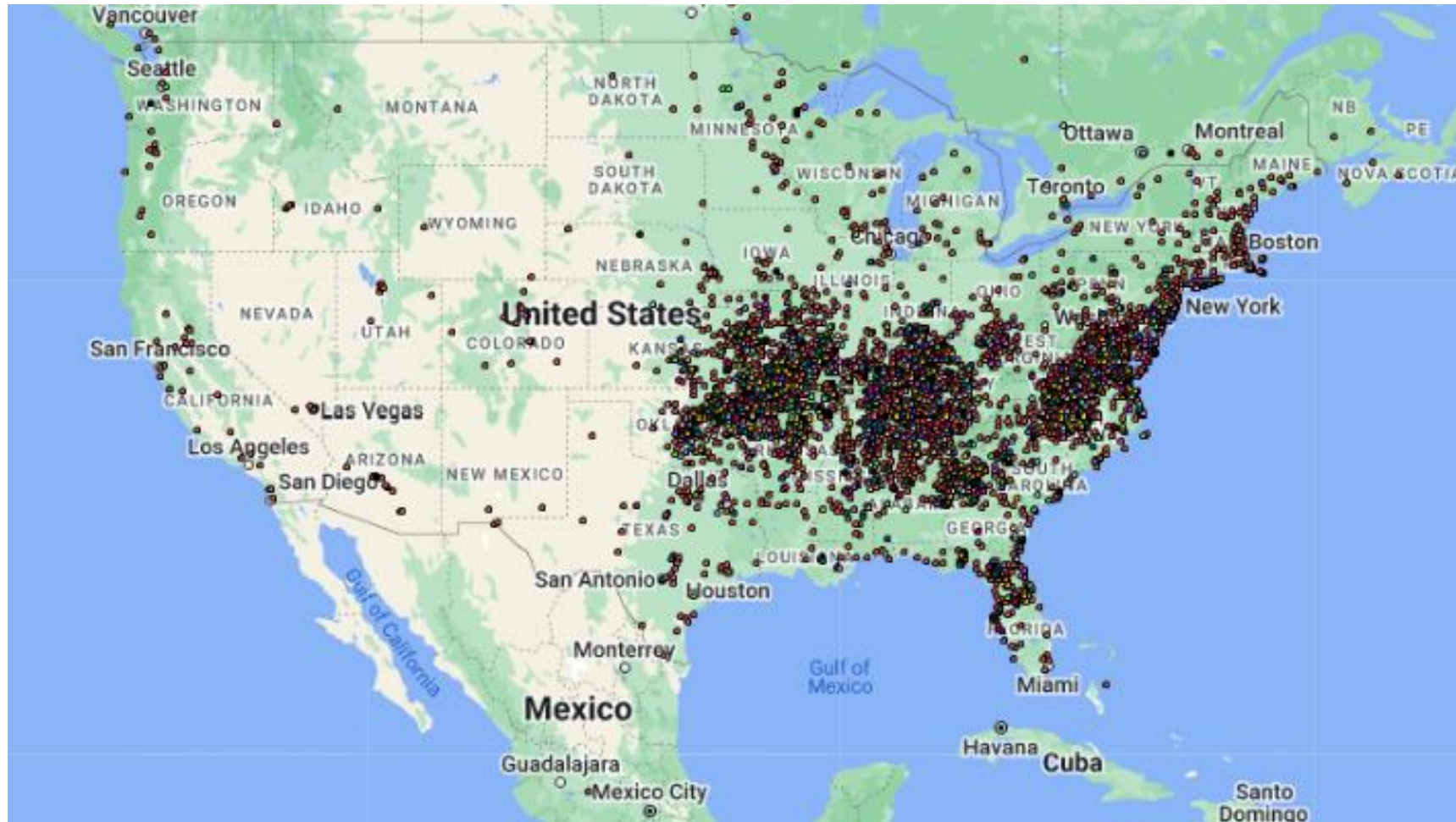
- Alpha Gal Syndrome (an allergy)
- Heartland Virus
- Bourbon Virus
- Southern tick-associated rash illness (STARI)
- Colorado tick fever
- Tickborne relapsing fever (Soft tick relapsing fever)



# Surveillance: What Data Can We Get with the Resources We Have



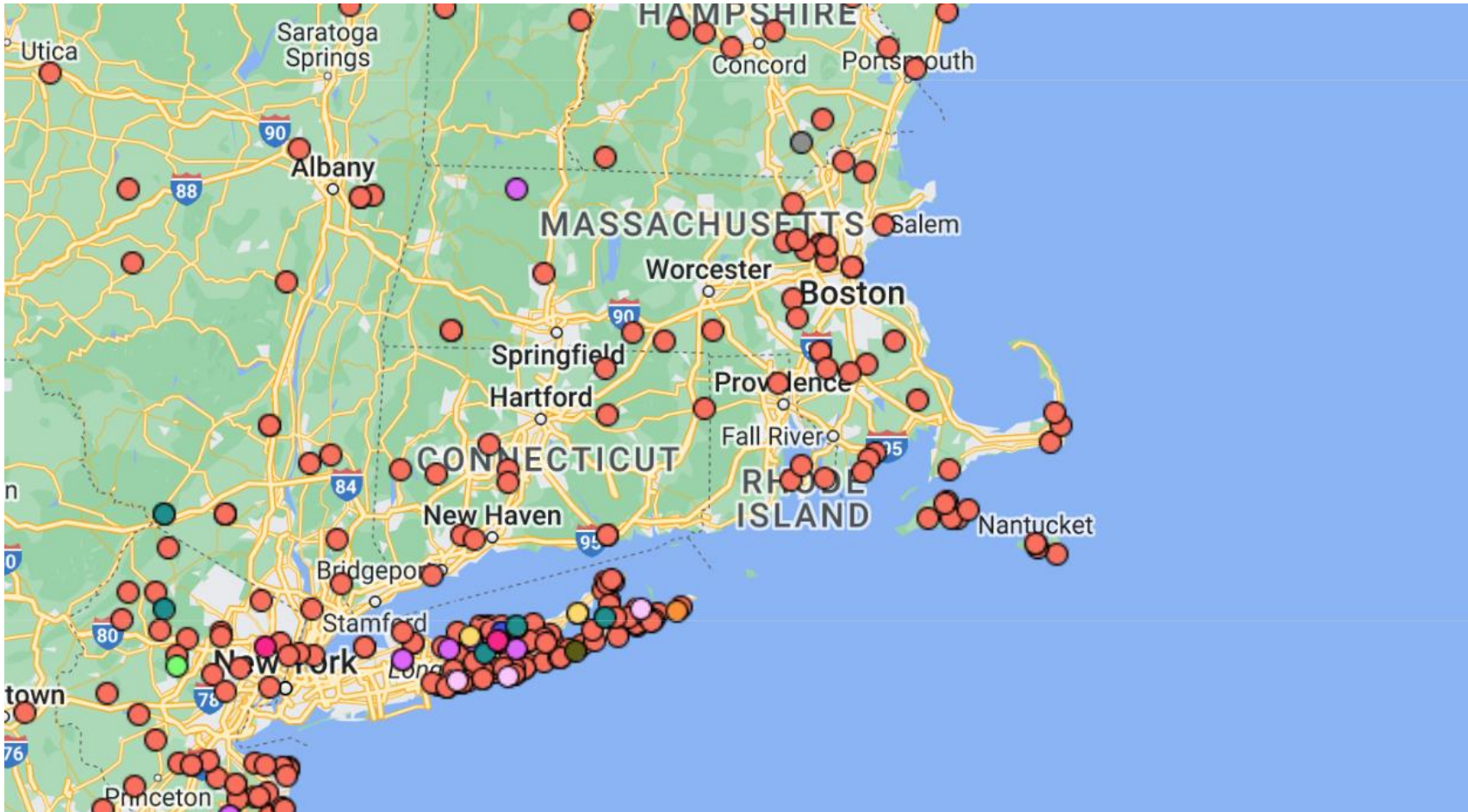
# Option #1: Self-Report



[Where is AGS? - Alpha-gal Information \(alphagalinformation.org\)](http://alphagalinformation.org), screenshot taken 8/8/2024



# Option #1: Self-Report



[Where is AGS? - Alpha-gal Information \(alphagalinformation.org\)](http://alphagalinformation.org), screenshot taken 8/8/2024

# Option #2: Aggregate Lab Surveillance

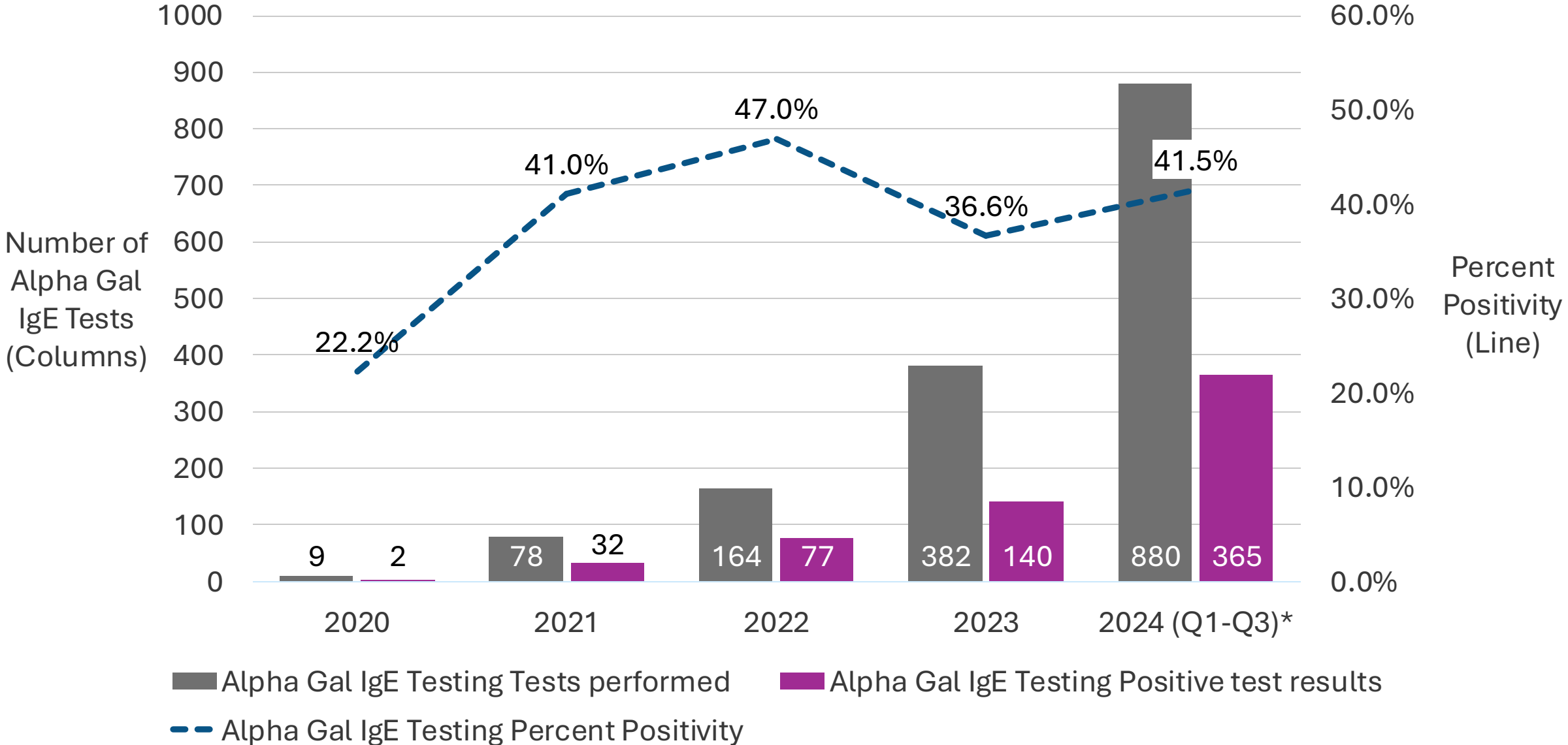
## Small island is an advantage (sometimes)

- 1 lab
- Seasonal & tourists use it too
- Easy to pull out of Epic

## Limitation:

- Maintenance testing creates **duplicate records**
- Alpha Gal IgE values don't tell the whole story
  - People can test positive without symptoms (sensitized) but to have the allergy you **must** have symptoms
- Worried well seeking testing

# Alpha Gal Testing at Martha's Vineyard Hospital Lab



For more information, contact Lea Hamner [lhamner@oakbluffsma.gov](mailto:lhamner@oakbluffsma.gov)

# Option #3: Aggregate Healthcare Surveillance

## Small island is an advantage (sometimes)

- 1 allergy clinic
- 1 hospital
- 4 healthcare provider groups

## Limitation:

- Improving but generally poor HCP understanding of AGS
- Many patients seek care off-island
- Access to care challenges
- Seasonal and tourists aren't getting primary care here

# Option #3: Aggregate Healthcare Surveillance

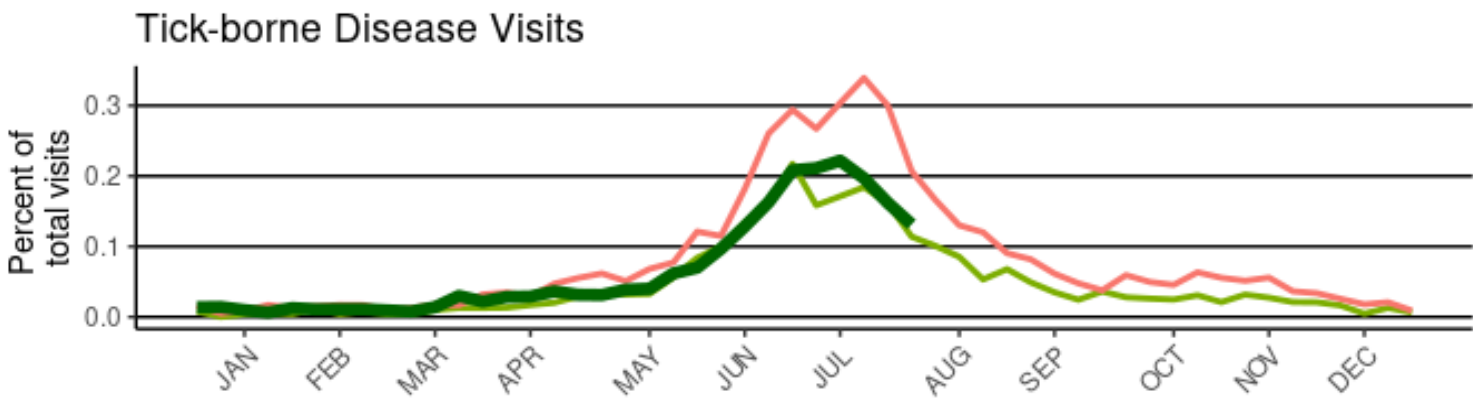
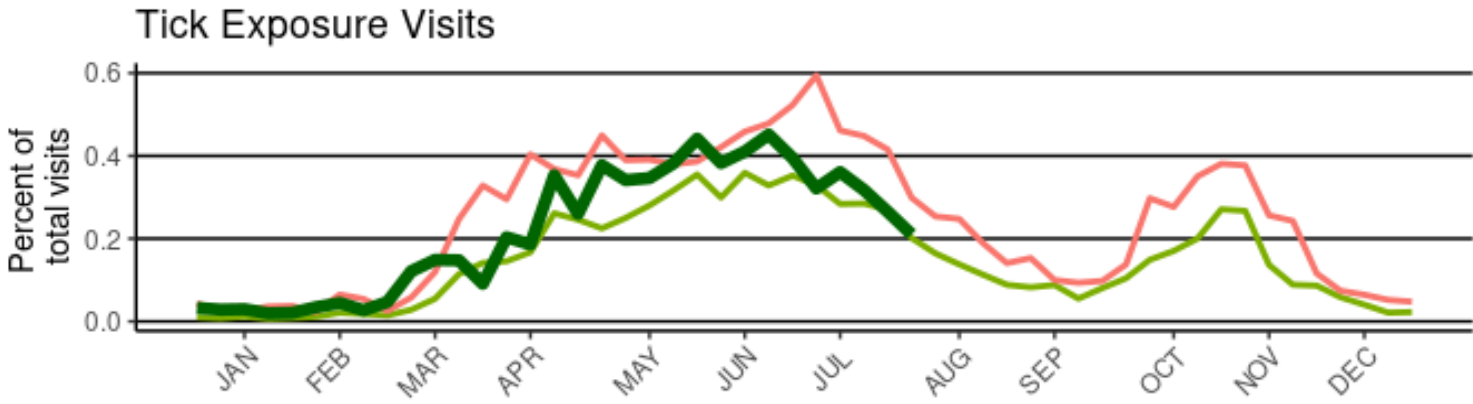
## Small island is an advantage (sometimes)

- 1 allergy clinic → Reports 250 active patients with AGS
- 1 hospital (Compared to <50 in 20 previous years of practice)
- 4 healthcare provider groups

## Limitation:

- Improving but generally poor HCP understanding of AGS
- Many patients seek care off-island
- Access to care challenges
- Seasonal and tourists aren't getting primary care here

# Option #5: Syndromic Surveillance (ED Visits)



Legend ■ 2024 to date ■ Maximum, 2021-2023 ■ Minimum, 2021-2023



# Option #6: Make it Reportable

Labs could flow into MAVEN for investigation. But based on other tickborne diseases, we already have a problem...



# Option #6: Make it Reportable

Labs could flow into MAVEN for investigation. But based on other tickborne diseases, we already have a problem...



**10x population shift**

**Winter population = 22,000**

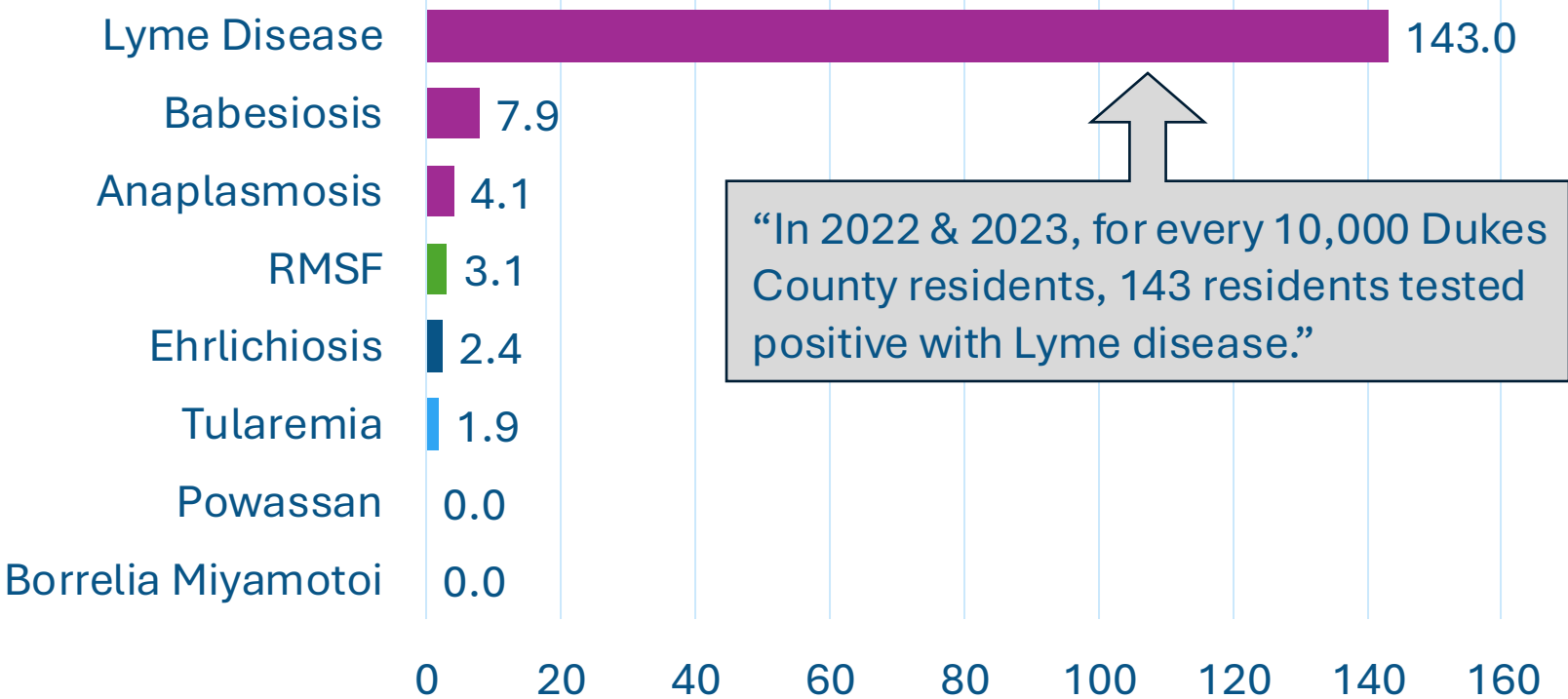
**Summer population = 200,000**

All reportable diseases in the US are assigned to their home residence, where they live most of the year. So, they might get exposed on MV, but they'll go home to your towns.



# Compared to the Other Reportable TBDs, Where Do I Estimate AGS Falls?

## Dukes County Tickborne Disease Incidence per 10,000 Residents, 2022-2023



Deer tick-transmitted

American Dog tick-transmitted



Lone Star tick-transmitted

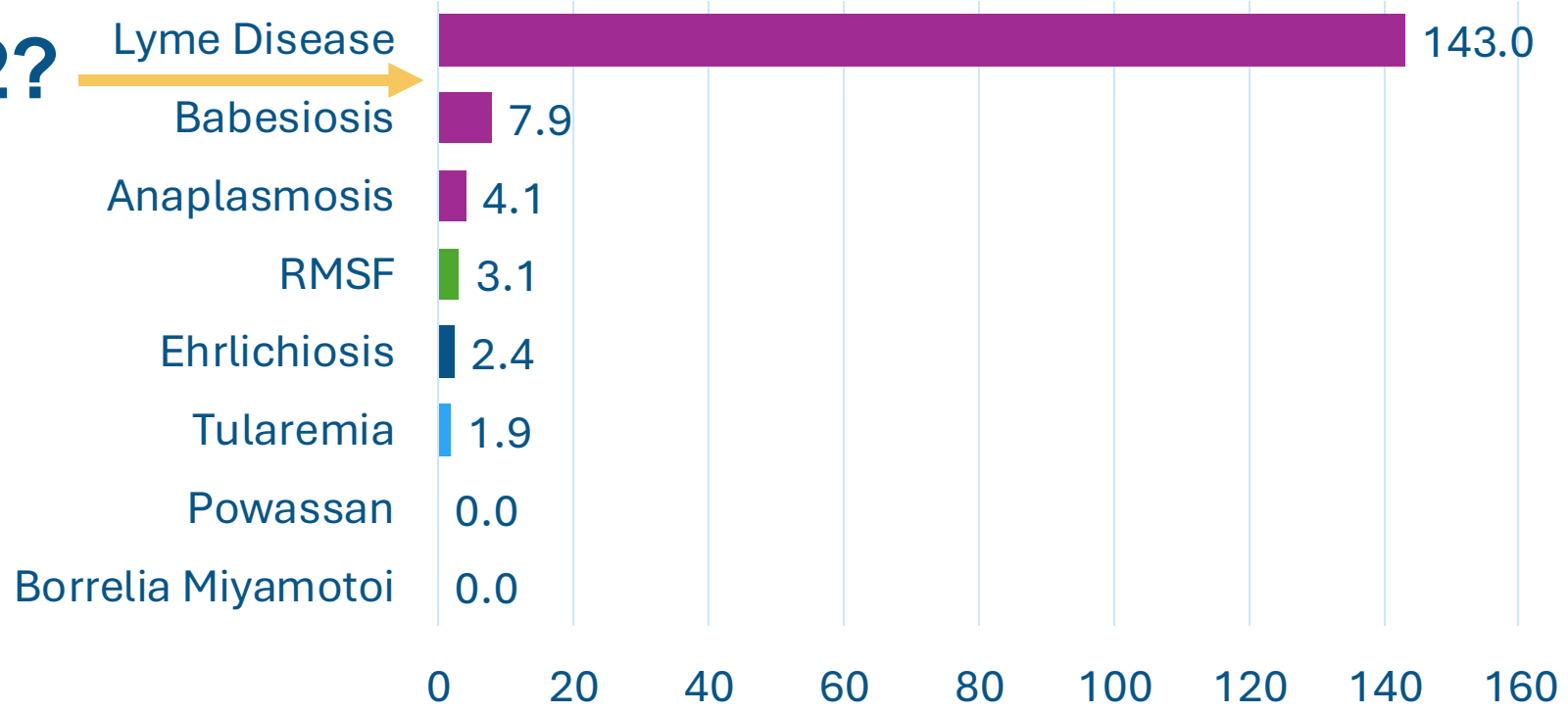
Not just tick transmitted

Reference: MAVEN, analyzed by Lea Hamner, June 2024

# Compared to the Other Reportable TBDs, Where Do I Estimate AGS Falls?

Dukes County Tickborne Disease Incidence per 10,000 Residents, 2022-2023

**AGS @ #2?**



Deer tick-transmitted

American Dog tick-transmitted



Lone Star tick-transmitted

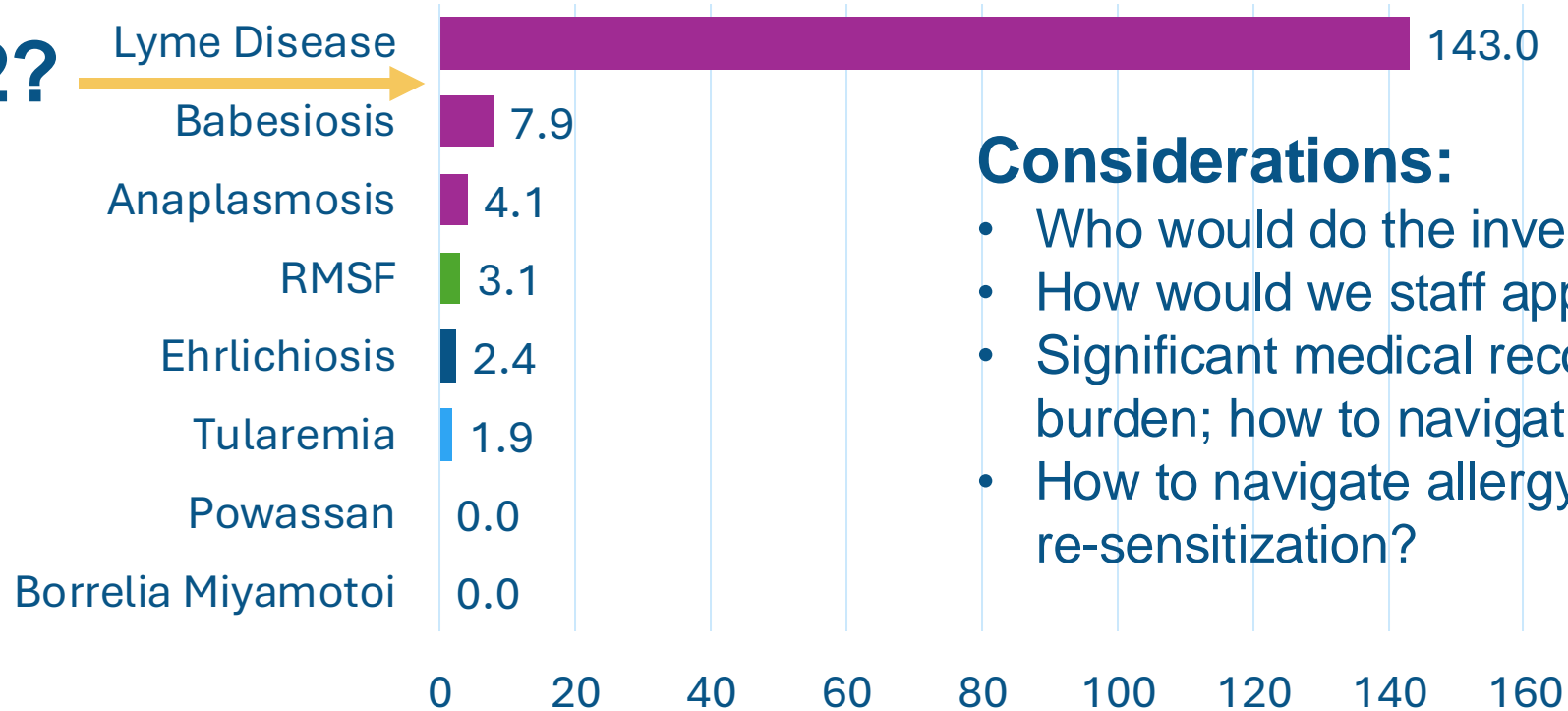
Not just tick transmitted

Reference: MAVEN, analyzed by Lea Hamner, June 2024

# Compared to the Other Reportable TBDs, Where Do I Estimate AGS Falls?

Dukes County Tickborne Disease Incidence per 10,000 Residents, 2022-2023

**AGS @ #2?**



## Considerations:

- Who would do the investigation?
- How would we staff appropriately?
- Significant medical record review burden; how to navigate that?
- How to navigate allergy resolution and re-sensitization?



Deer tick-transmitted



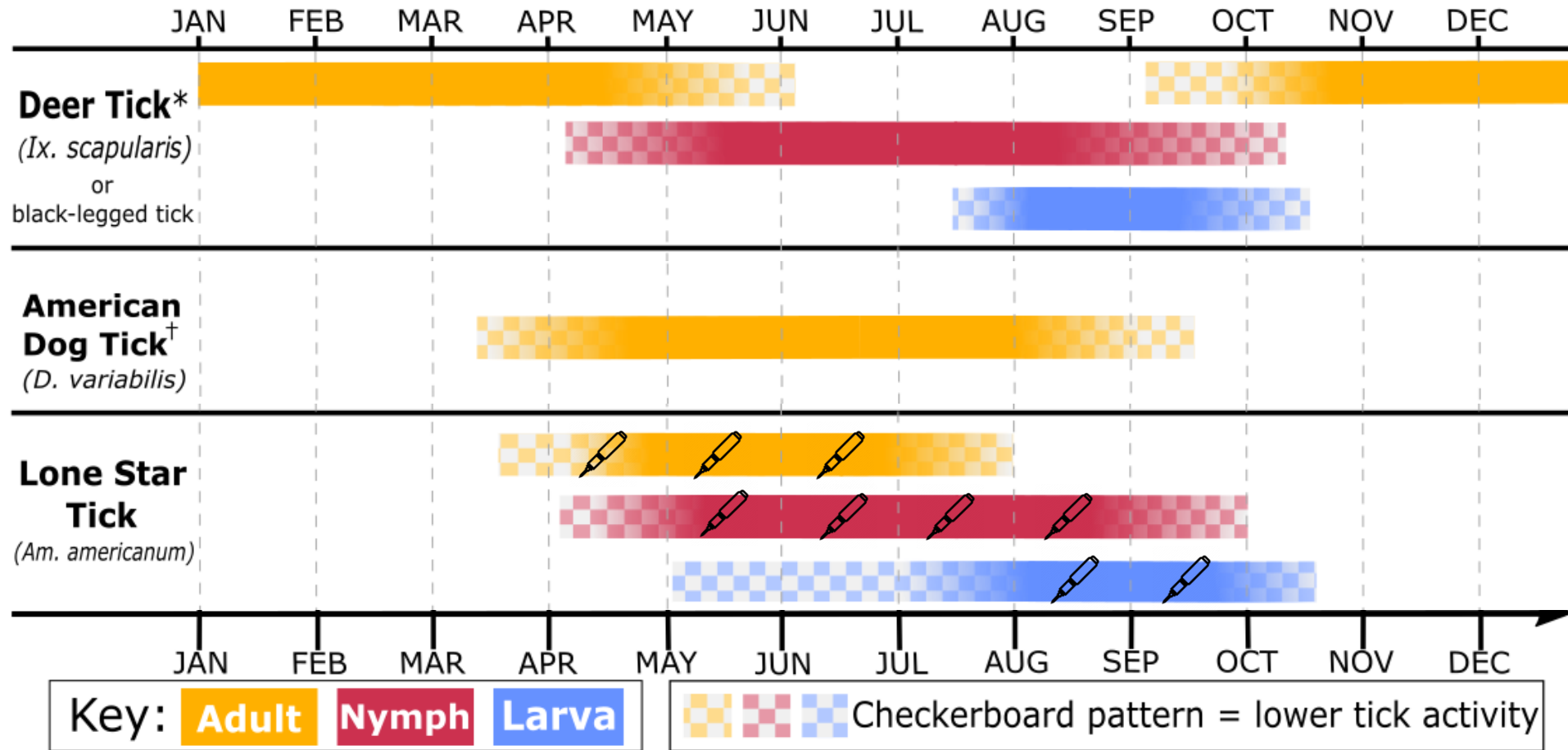
Lone Star tick-transmitted

American Dog tick-transmitted



Not just tick transmitted

# Exposure Risk is in Spring to Fall



\*Deer tick adults will be active when temperatures are above 40°F.

†Only the adult life stage of the American Dog Tick is known to bite humans.



# Key Collaborators: Who Does What on Ticks

	Biologist	Epidemiologist	Case Investigators	Public Health Nurse
Surveillance	Tick distribution, density, & activity	Disease trends Data collection, analysis, interpretation MAVEN case investigation	MAVEN case investigation	Health care provider & lab relationship building
Outreach & Education	Tick bite prevention education Ecological interventions Attracting experts	Inform decision-making with evidence Public & provider engagement, outreach & education	Provider engagement, outreach & education	Health education Support groups Provider engagement, outreach & education
Partnerships	Public Health (local, state, regional) Scientists & researchers Public-Private	Public Health (local, state, regional, federal) Scientists & researchers Health care & labs Public-Private	Public Health (local & state) Health care & labs	Public Health (local) Health care & labs
Prevention	Landscaper occupational intervention Homeowner education Tick-bite prevention Permethrin clothing	Landscaper occupational intervention Permethrin clothing	Patient education during interviews	Health screenings Home visits

# Key Collaborators: Who Does What on Ticks

	Biologist	Epidemiologist	Case Investigators	Public Health Nurse
Surveillance	Tick distribution, density, & activity	<b>Disease trends</b> <b>Data collection, analysis, interpretation</b> MAVEN case investigation	MAVEN case investigation	Health care provider & lab relationship building
Outreach & Education	Tick bite prevention education Ecological interventions Attracting experts	<b>Inform decision-making with evidence</b> <b>Public &amp; provider engagement, outreach &amp; education</b>	Provider engagement, outreach & education	Health education Support groups Provider engagement, outreach & education
Partnerships	Public Health (local, state, regional) Scientists & researchers Public-Private	Public Health (local, state, regional, federal) Scientists & researchers Health care & labs Public-Private	Public Health (local & state) Health care & labs	Public Health (local) Health care & labs
Prevention	Landscaper occupational intervention Homeowner education Tick-bite prevention Permethrin clothing	Landscaper occupational intervention Permethrin clothing	Patient education during interviews	Health screenings Home visits

# PREVENT Tick Bites!

## Wear Permethrin-Treated Clothing

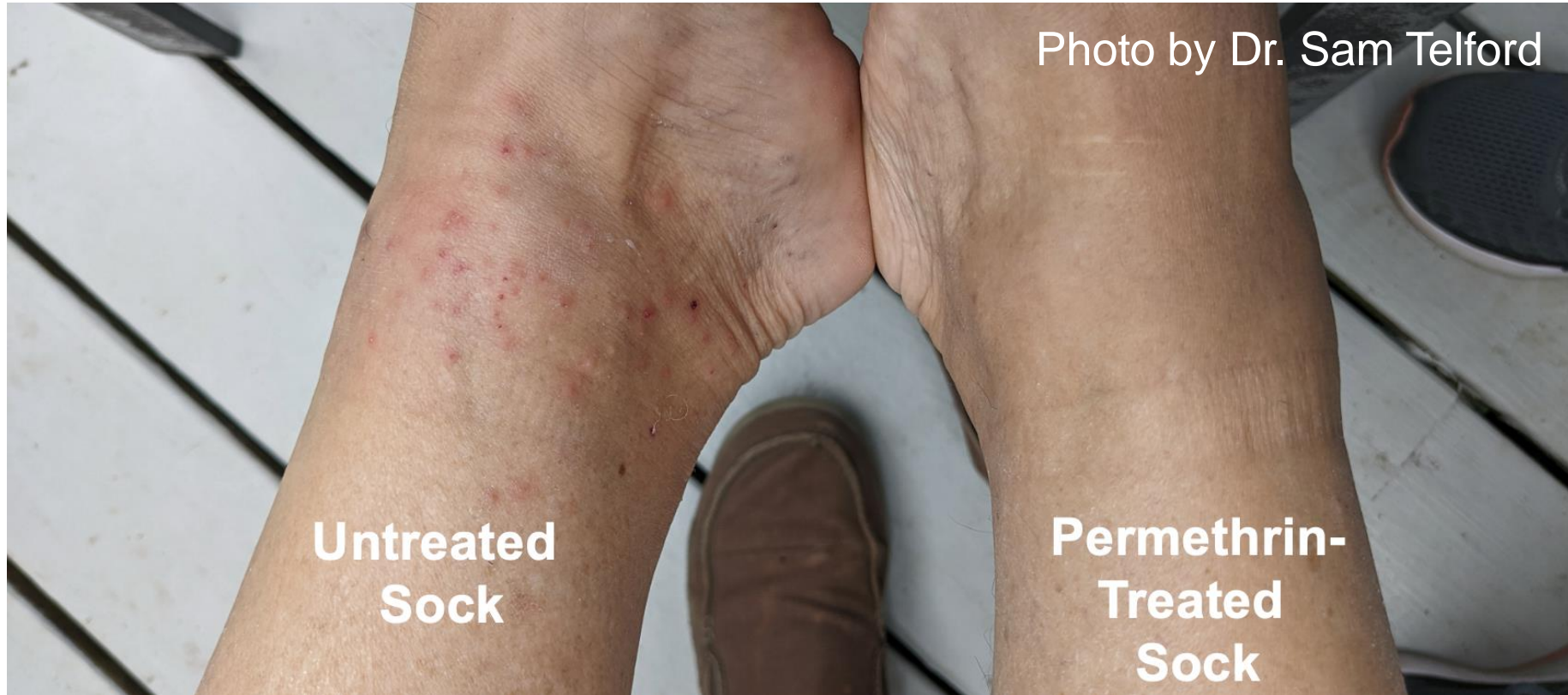


Dr. Sam Telford on Tuckernuck Island



He's safe! These pants are permethrin-treated!

# Thank you. Stay tick-safe!



**Lea Hamner, MPH**  
Contract Epidemiologist, Cape & Islands  
[lhamner@oakbluffsma.gov](mailto:lhamner@oakbluffsma.gov)  
[lea.hamner-contractor@capecod.gov](mailto:lea.hamner-contractor@capecod.gov)





# Resources

- **Educational websites**

- MV Tick Program - [www.mvboh.com/tickborneillness](http://www.mvboh.com/tickborneillness)
- [AlphaGalInformation.org](http://AlphaGalInformation.org) – evidence informed resource

- **Presentations and in-depth information**

- MV Tick Program's recent [Tick Ecology, Disease, and Allergy Series](#)
- [Tickborne Conditions United Alpha Gal Symposium](#)
- [Spread of Lone Star Ticks on Martha's Vineyard](#) published in Insects

- **Food Is Good (FIG) app** for allergen identification (alpha-gal is crowd sourced)

- **Media articles**

- NY Magazine [What the Mystery of the Tick-Borne Meat Allergy Could Reveal](#)
- Vineyard Gazette (read the comments to see what patient experiences, perceptions, information looks like)
  - [Alpha-Gal Cases Skyrocket as Lone Star Ticks Dig in](#)
  - [Tick-Borne Alpha Gal Syndrome Continues to Soar](#)
  - [Lone Star Ticks Continue to Make Inroads around Islands](#)

# Data Informed Decision Making in Public Health Practice



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# Introduction

- ❖ During this presentation, we will be discussing 3 public health topics/issues: **Influenza, Substance Use/Opioid Overdoses and Tick-Borne Diseases.**
- ❖ Each topic/issue will address the following questions:
  - ▶ *What type of data is available and what is the best way to present it?*
  - ▶ *How do we transform this data into action?*
  - ▶ *Who are the key collaborators?*

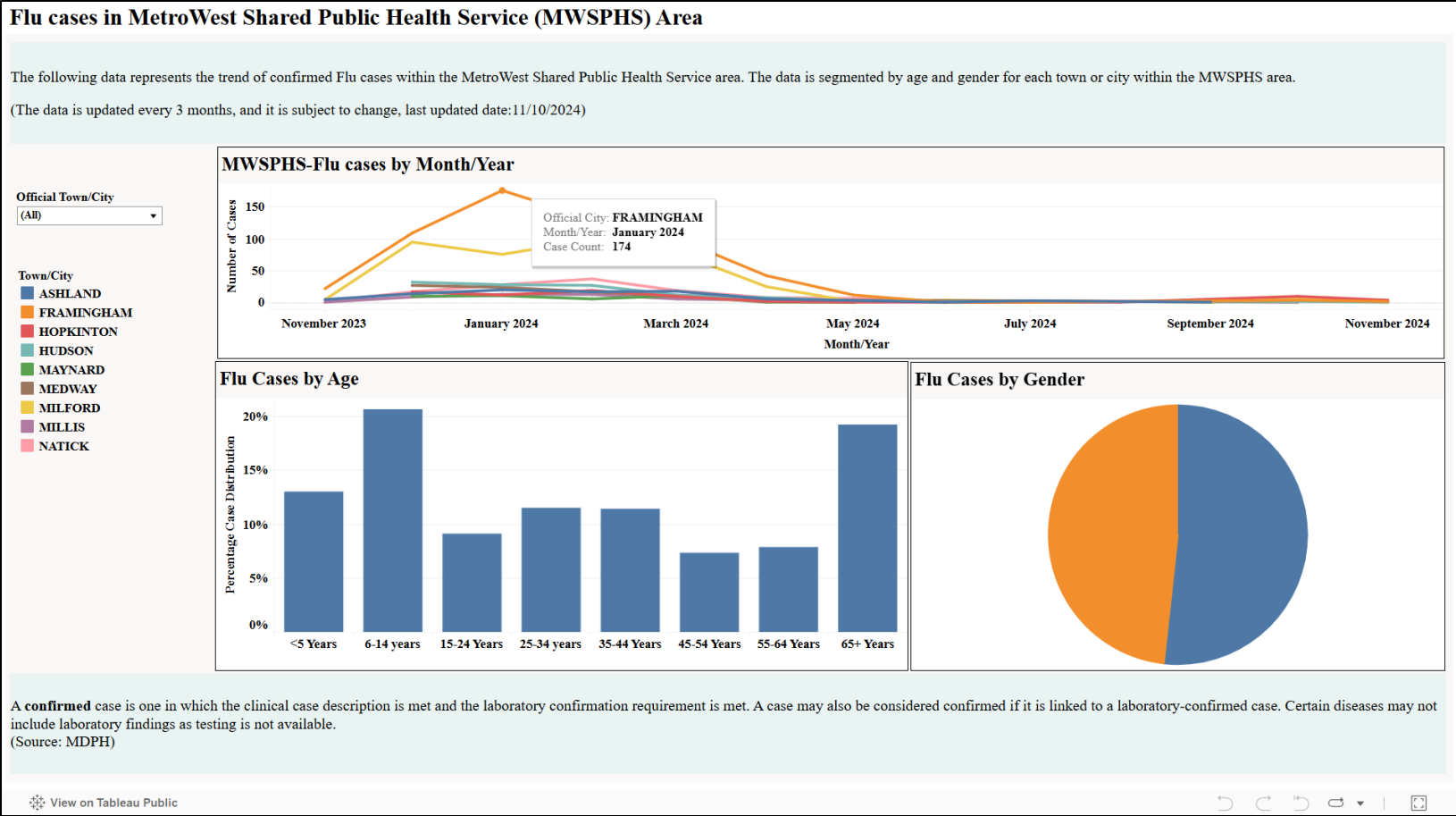
# Public Health Topic #1: Influenza

- ❖ What is the public health issue? Flu Season
- ❖ What type of data is available? MAVEN Data
- ❖ What is the best way to present it? Interactive Disease Dashboard



# Interactive Disease Dashboard

- ❖ An interactive dashboard is a data visualization tool that allows users to engage with the data in real time, often through filtering, drilling down, and exploring various data points to uncover insights



# Data-Informed Decisions

- ❖ Disease Surveillance
- ❖ Resource Allocation
- ❖ Testing & Vaccination
- ❖ Public Health Education
- ❖ Disease Forecasting



# Key Collaborators

## Epidemiologist

- Monitor MAVEN DATA
- Assist with Case Investigation
- Analyze Data
- Data Reporting and Updating Dashboards
- Disease Forecasting
- Evidence-based Recommendations

## Public Health Nurse

- Disease Case Investigation
- Support Disease Surveillance
- Engage with community members
- Public Health Education
- Vaccination

## Health Director/Shared Services Coordinator

- Oversee response strategies
- Allocate budget and resources
- Co-ordinate interagency collaborations
- Communications with the State

# Public Health Topic #2: Substance Use/Opioid Overdoses

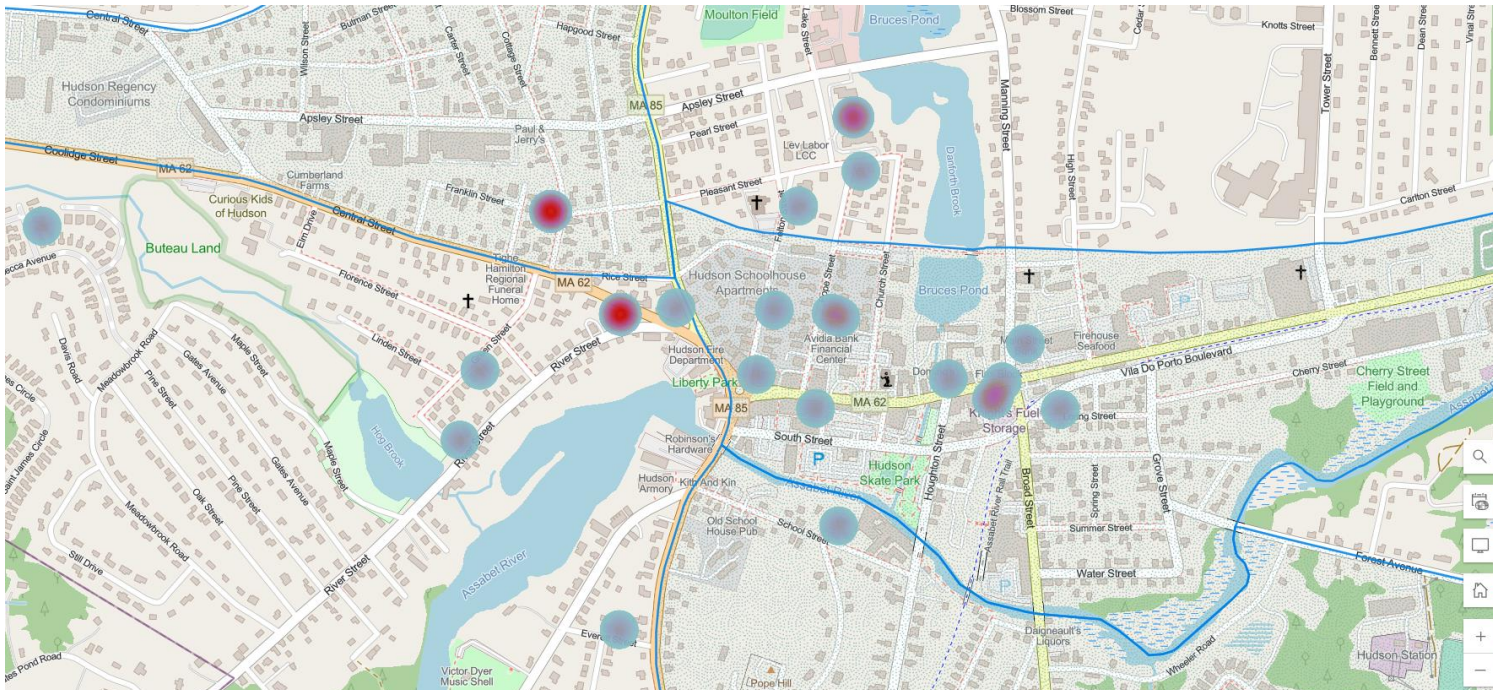
- ❖ What is the public health issue? Increased overdose incidents
- ❖ What type of data is available? CIMS/EMS/BSAS
- ❖ What is the best way to present it? GIS Mapping





# Geographic Information Systems Mapping

- ❖ **Geographic Information Systems Mapping or GIS Mapping** is a technology used to capture, store, analyze, manage, and visualize data related to geographic locations.



# Data-Informed Decisions

- ❖ Identifying Hot Spots
- ❖ Narcan Training
- ❖ Narcan Distribution
- ❖ Community Outreach and Education
- ❖ Emergency Response Optimization



# Key Collaborators

## Epidemiologist/Public Health Nurse

- Analyze Data
- Identify Trends
- Heat maps to identify hot spots
- Provide evidence-based recommendations
- **Public Health Nurse**
- Community outreach and education
- Narcan training

## Health Director/Program Coordinator

- Oversee public health strategies
- Collaborate with other stakeholders, agencies
- Allocate resources
- Community outreach and education

## Law Enforcement and EMS

- Frontline Responders
- Naloxone administration
- Data Collection
- Intervention and Prevention Efforts


# Public Health Topic #3: Tick-Borne Diseases

- ❖ What is the public health issue? Tick-Borne Disease
- ❖ What type of data is available? MAVEN Data
- ❖ What is the best way to present it? Surveillance Report



# Public Health Topic #3: Quarterly/Yearly Disease Surveillance Report

- ❖ A surveillance report is a structured document that provides an overview of data collected through a surveillance system, typically to monitor public health indicators such as disease incidence, risk factors, or health outcomes.



### TICKBORNE DISEASE SURVEILLANCE REPORT

**Introduction**

This tickborne disease surveillance summary report provides the five-year (2020-2024) data on tickborne infections for the town of Ashland. The data is retrieved from MAVEN and present the number of confirmed, probable, and suspect cases of tickborne diseases by fiscal year. This report focuses on the three most common tickborne diseases in Massachusetts:

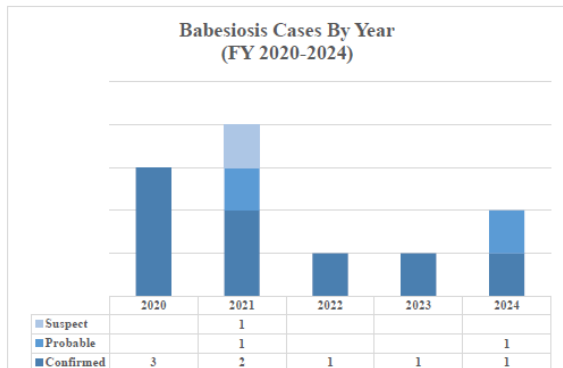
- Babesiosis
- Human Granulocytic Anaplasmosis (HGA)
- Lyme Disease

**Surveillance Highlights**

**Babesiosis**

From 2020 to present, there have been eight confirmed and two probable babesiosis cases reported in Ashland. The following chart represents the number of confirmed, probable and suspect babesiosis cases by fiscal year. There is one confirmed and one probable case reported in the running fiscal year 2024.

**Babesiosis Cases By Year (FY 2020-2024)**



	2020	2021	2022	2023	2024
Suspect		1			
Probable		1			1
Confirmed	3	2	1	1	1

# Data-Informed Decisions

- ❖ Monitor Seasonal Trends
- ❖ Identify High-Risk Areas
- ❖ Target Interventions
- ❖ Resource Allocations
- ❖ Policy and Prevention efforts



# Key Collaborators

## Epidemiologist

- Monitor MAVEN DATA
- Assist with Case Investigation
- Analyze Data
- Data Reporting
- Evidence-based Recommendations

## Public Health Nurse

- Disease Case Investigation
- Support Disease Surveillance
- Engage with community members
- Public Health Education
- Vaccination

## Public Health Communication Specialist

- Create Communication Materials
- Community Outreach
- Public Health Education Campaign

## Health Director/Shared Services Coordinator

- Oversee response strategies
- Allocate budget and resources
- Co-ordinate interagency collaborations
- Communications with the State

# Key Takeaways

- ❖ Data as a foundation for public health
- ❖ **Right data right time to the right people**
- ❖ Communicating data using right platforms
- ❖ **Translate data into meaningful actions**
- ❖ Drive impact through data-informed decisions
- ❖ Value of having an epidemiologist on the team
- ❖ **Collaboration is the key**





# Thank you! Questions?

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