



Massachusetts Department of Public Health

MDPH Tuesday Infectious Disease Webinar Series

Tools for Local Boards of Health

December 12, 2023

**MAVEN Overview
Tips and Tricks**

Tools for LBOHs

December 12, 2023

Scott Troppy, MPH, PMP, CIC, Surveillance Epidemiologist
Kate Hamdan, MPH Surveillance Epidemiologist
Bureau of Infectious Disease and Laboratory Sciences
MA Department of Public Health



Hillary Johnson, MHS

Senior Epidemiology Advisor to Local Health, Division of Epidemiology

Scott Troppy, MPH, PMP, CIC

Senior Epidemiologist – MAVEN User Management & Data Visualization Lead

Kate Hamdan, MPH

Surveillance Epidemiologist, MAVEN Training Team Lead

Julie Coco, MPH

Internship Program and Training Coordinator, Division of Epidemiology

Petra Schubert, MPH

Emerging Infections Coordinator, Division of Epidemiology

Agenda December 12, 2023

- **End of Year Disease Updates/Reminders**
 - Respiratory Test Kit Distribution Program for LBOHs
 - Hepatitis A December 2023 Update
 - Enteric & Waterborne Illness End-of-Season Summary
 - Carley Perez Kauffman, MPH, Epidemiologist
- **Featured Presentation: MAVEN Overview, Tips and Tricks.**
 - Scott Troppy, MPH, PMP, CIC, Surveillance Epidemiologist
 - Kate Hamdan, MPH, Surveillance Epidemiologist
 - Lionel White, Senior Surveillance Research Analyst

The older I get, the more I wonder what Kevin's dad in "Home Alone" did for a living to afford this house and a vacation to Paris for 9 people



Infectious Disease Tools for LBOH Webinar Schedule!



- You help us identify topics, needs, & content!
- Be sure to send ideas, requests, and questions to Hillary and Scott!

MAVEN Help has Guidance Documents and
Previous Webinars:

<http://www.maven-help.maventrainingsite.com/toc.html>

23/24 Upcoming Schedule!

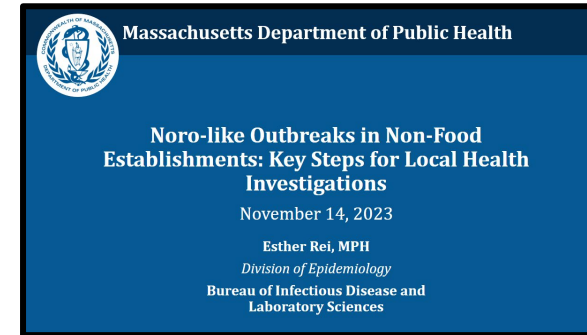
All Registrations:	https://maven-webinars.constantcontactsites.com/
2 nd Tues 12/12/23	2023 MAVEN Wrap Up & Review
	<i>*No December 2023 Office Hours</i>
2 nd Tues 1/09/24	MIIS Tips and Tricks for LBOH
4 th Tues 1/23/24	*4 th Tuesday Office Hours

No December 2023 Office Hours: contact
mavenhelp@mass.gov with specific questions.

Updates – A quick recap for Dec. 12, 2023

We Last Met November 14, 2023:

- **MAVEN Release This Week**
 - New Local Health Reports!
- **COVID-19 Guidance Reminders for HCWs & HC Settings**
- **Expanded TB Screening for Humanitarian Parolees**
 - Anna Hippchen, RN & Michael Boyer, MS, Division of Global Populations and Infectious Disease Prevention [Slides](#)
- **End of Vibrio Season Wrap Up!**
 - Johanna Vostok, MPH, Foodborne & Waterborne Illness Coordinator, Division of Epidemiology
- **Noro-like Outbreaks in Non-Food Establishments: Key Steps for Local Health Investigations**
 - Esther Rei, MPH, Epidemiologist, Division of Epidemiology



[PDF SLIDES: Noro-like Outbreak Investigations for LBOH](#)

[WEBINAR: Presentation Recording](#)



Always Remember you can see recent webinar recordings and slides in MAVEN Help.

Bookmark the URL!

MAVEN Help: <http://www.maven-help.maventrainingsite.com/toc.html>



Join our Respiratory Kit Distribution Program

- **LBOH can assist with respiratory illness surveillance** by storing respiratory test kits and helping facilities in your jurisdiction have easy access to testing supplies!
- **How it Works:** LBOH keep MA State Public Health Lab (SPHL) Respiratory Testing Kits on site in your jurisdiction, allowing LTCF, ALF to have easy access to testing supplies.
 - All testing supplies are **FREE** including shipping costs and testing fees!
- **Expectations of LBOH:** Store respiratory kits properly, assist facilities with obtaining kits, return specimens to MA SPHL via a UPS account we set up for you.
- **Email Tori Carroll at Victoria.m.carroll@mass.gov** to learn more and schedule your flu kits.



Recent Hepatitis A cases: December 2023 Update

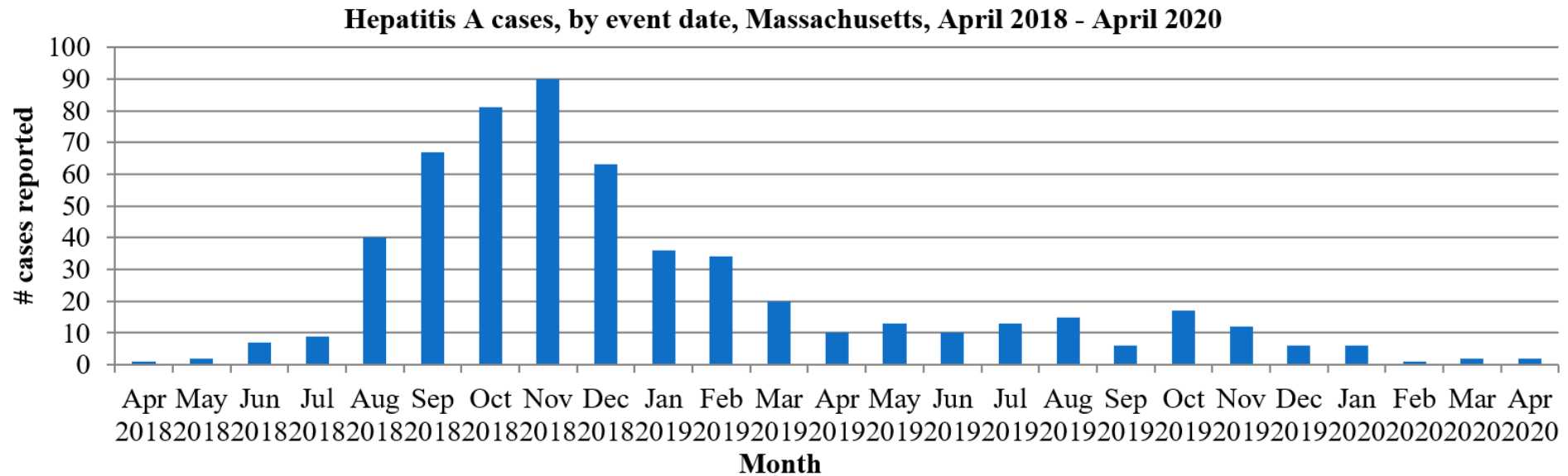
As of 12/6/2023, six (6) confirmed cases of hepatitis A infection among persons experiencing homelessness and persons who use drugs reported in November 2023

- Additional suspect cases under investigation
- Known symptom onset dates span 11/3/23-11/20/23
- Four (4) cases hospitalized; no deaths reported
- Risk factors
 - Homelessness (5)
 - Any drug use (5)
 - Injection drug use, specifically (4)
 - None are reported to have traveled outside Massachusetts prior to symptom onset
- Several cases report receiving services and medical care at shelters, clinics, and substance use treatment facilities in the Boston area
- Consistent with risk profile from the [2018-2020 outbreak](#).

Demographics:

- Male (4), Female (2)
- White, non-Hispanic (4), Hispanic (2)
- Ages 36-60 (median 46.5)
- Reported counties of residence:
 - Suffolk (2)
 - Norfolk (2)
 - Plymouth (1)
 - Hampden (1)

2018-2020 Hepatitis Outbreak



Data for more recent weeks may be incomplete due to diagnosis and reporting delays. Data source: MDPH Bureau of Infectious Disease and Laboratory Sciences. Data as of 5/29/2020 and subject to change.

- 563 cases
 - 442 hospitalizations (78.5%)
 - 9 deaths (1.6%)
- 64% male
- Median age: 35
- Homelessness/unstable housing: 35%
- Any illicit drug use: 68%
- Known injection drug use: 55%

Investigating Hepatitis A Cases

LBOH response tips:

- Hepatitis A case investigation resources available on MAVEN Help (Updated August 2023):
 - [Slides](#)
 - [Recording](#)
 - [Tip sheet](#)
- Thorough data completion is critical: race/ethnicity, occupation, symptoms and onset date, liver function test values, hospitalization, outcome, homelessness, drug use, and venues or care settings visited
- For non-Boston cases, inquire about any time spent at facilities (e.g. shelters) and areas in the City of Boston
- If a case reports association with a facility in Boston, ensure that it is documented in the notes so that MDPH can notify the Boston Public Health Commission.

Hepatitis A Vaccination Resources

Immunization resources:

Immunize.org

- Hepatitis A resources for Clinicians and Vaccine Recipients: [Hepatitis A | Immunize.org](#)
- [Vaccine Information Statements | Immunize.org](#)
- [Clinical resources \(screening checklist, contraindications/precautions, managing vaccine reactions, Q&As\)](#)

CDC

- [ACIP Hepatitis A Vaccine Recommendations](#)
- [Safety Information for Hepatitis A Vaccines](#)
- [Hepatitis A Q&A for Health Professionals](#)
- [What is Hepatitis A – FAQ for the public](#)

Interpreting immunization records and language resources

- [Immunize.org Vaccine Information Statements Language Index](#)
- [Immunize.org Quick Chart of VPD Terms in Multiple Languages](#)
- [Minnesota Department of Health Immunization Program: Foreign Language Terms – Aids to translating foreign immunization records](#)
- [Children's Hospital of Philadelphia: Interpreting Foreign Immunization Records](#)

Vaccine ordering

Ordering hepatitis A vaccine in the MIIS

- [New Order Mini Guide](#)
1. Your site must be in an enrolled status in MIIS to be able to place a vaccine order.
 2. Hep A vaccines can be ordered by navigating under the “Vaccines” tab at the top of the MIIS page and selecting “Orders.” In the top left hand corner of the “Orders” page there will be a gray button labeled “Create a New Order.” By clicking the “Create a New Order” button, your site will be able to place the request. The full guide to placing an order is linked above.
 3. All orders will be shipped within 2 weeks of receiving the MIIS confirmation e-mail that your order was processed by the Vaccine Management Unit.
 4. On the ordering page there is the option to input a note to the Vaccine Management Unit. Please utilize the note section to provide any necessary information that the Vaccine Management Unit might need to process your vaccine order request.

Hepatitis C Case Investigations

MAVEN Help Resources:

- [Slides](#)
- [Recording](#)
- [Tip Sheet](#)

Updated Case Investigation Wizard (July 2023)

- Focus on collecting only the information most critical to the case investigation
- Reworked some questions to be more consistent with requests from CDC
- Retired questions that are no longer as important
- Categorized questions and reordered them to improve flow of interview

Question Packages		
Question Package	Person	Last Update
1. Administrative	Event ID	09/02/2023
2. Demographic		08/23/2023
3. Clinical		09/02/2023
5. Risk/Exposure/Control & Prevention		08/23/2023
6. Epi-linked and Outbreak Information		08/16/2023
8. ECR Information		08/16/2023
9. Electronic Case Reporting		08/16/2023
9. Sequencing Information		08/16/2023

View Question Package

Wizards:

Acute Hepatitis C Investigation Wizard

View Wizard



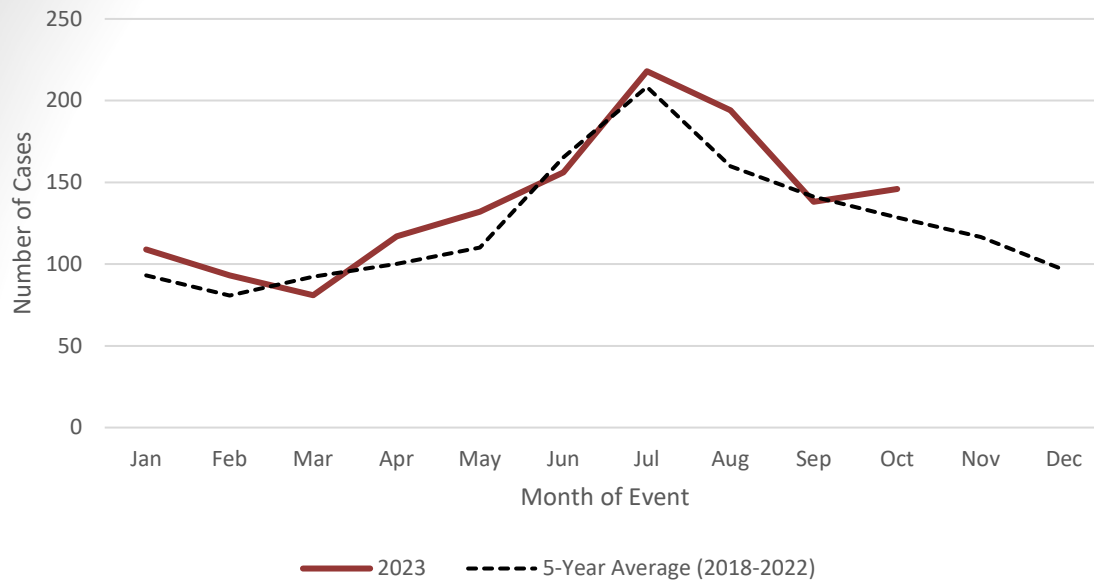
Enteric & Waterborne Illness End-of-Season Summary

December 12, 2023

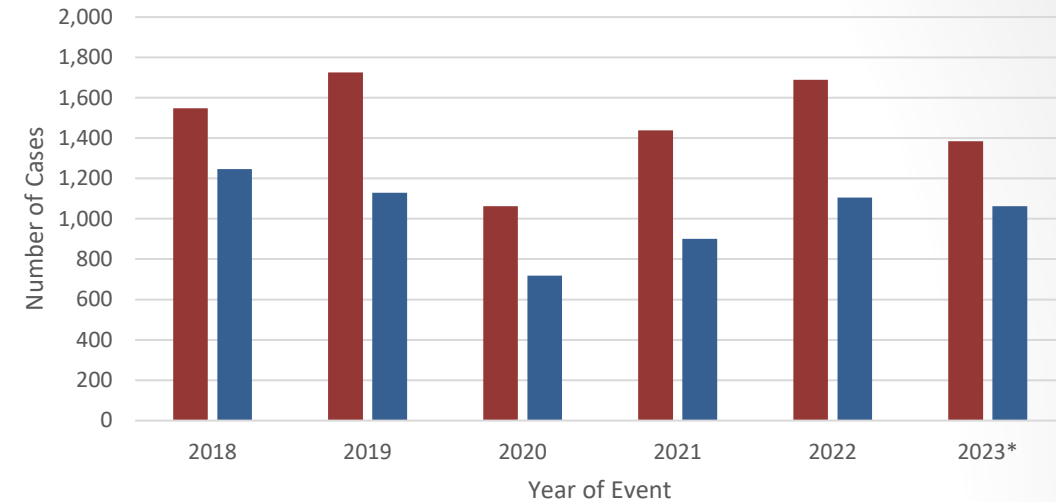
Epidemiology Program | Bureau of Infectious Disease and Laboratory Sciences
MA Department of Public Health



Confirmed & Probable Cases of *Campylobacter*, 2023



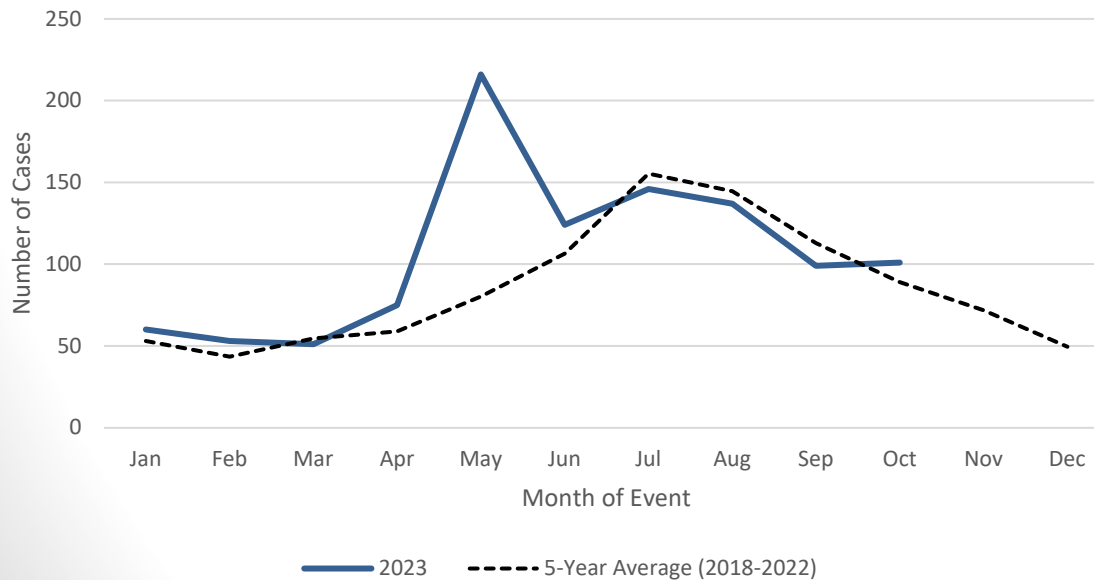
Confirmed & Probable Cases of *Campylobacter* and *Salmonella*, 2018-2023*



*Data through October 2023

■ Campylobacter ■ Salmonella

Confirmed & Probable Cases of *Salmonella*, 2023



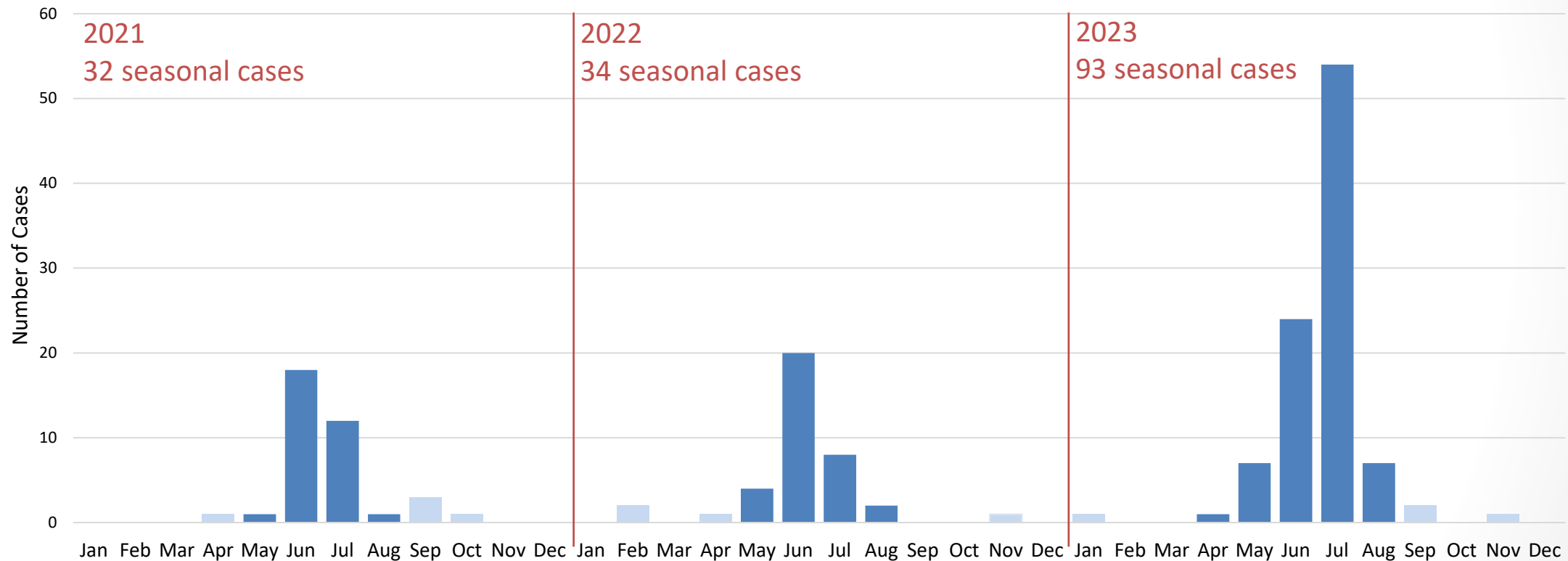
Key Takeaway

- In 2023, more cases of salmonellosis were reported in May than expected. This is attributable to a large restaurant-based outbreak in Suffolk County.

Cyclo Season Summary



Reported confirmed & probable cases of *Cyclospora* infection, 2021-2023



“Cyclo Season” is typically May 1st – August 31st (shown in the darker blue)
April included in 2023 season

Cyclo Season Summary

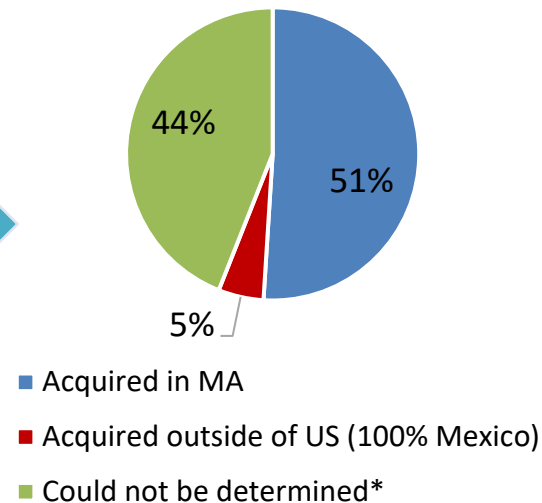


97%

Confirmed & probable cases reported April-August 2023 that were successfully interviewed by LBOHs or MDPH with a full or partial risk history obtained

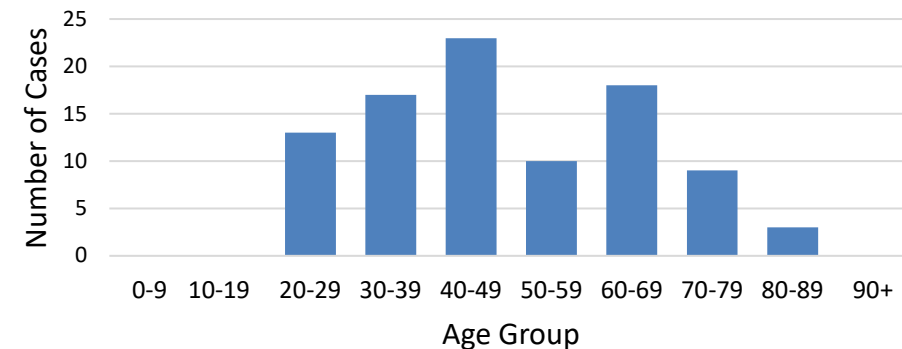
Only 3 cases were lost to follow-up or refused interview

Breakdown of Import Status



*Several cases were only in MA for part of their 14-day incubation period, either traveling to other states or other countries.

Age of reported confirmed and probable cases of *Cyclospora* infection, April-August 2023



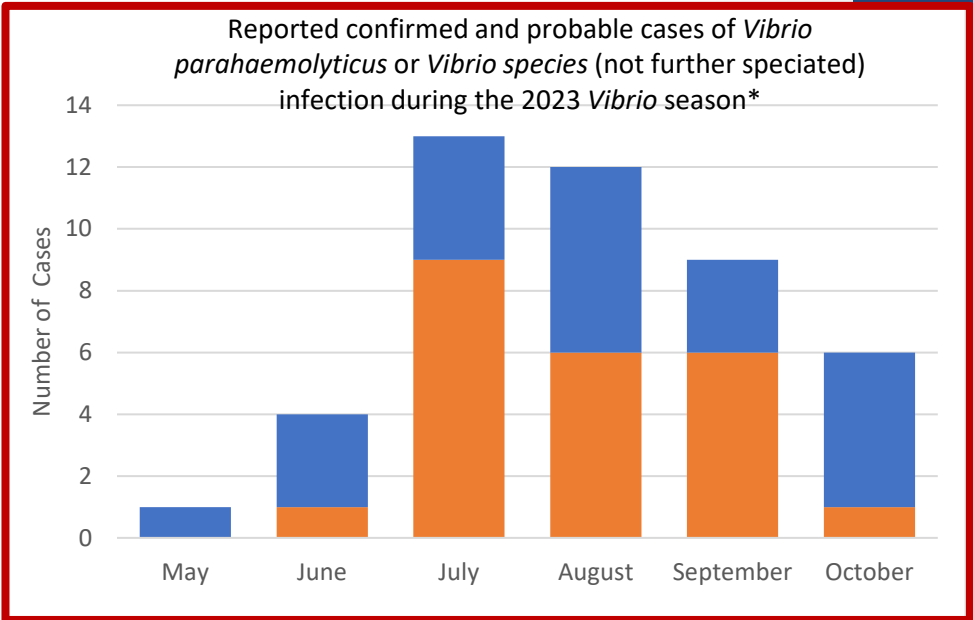
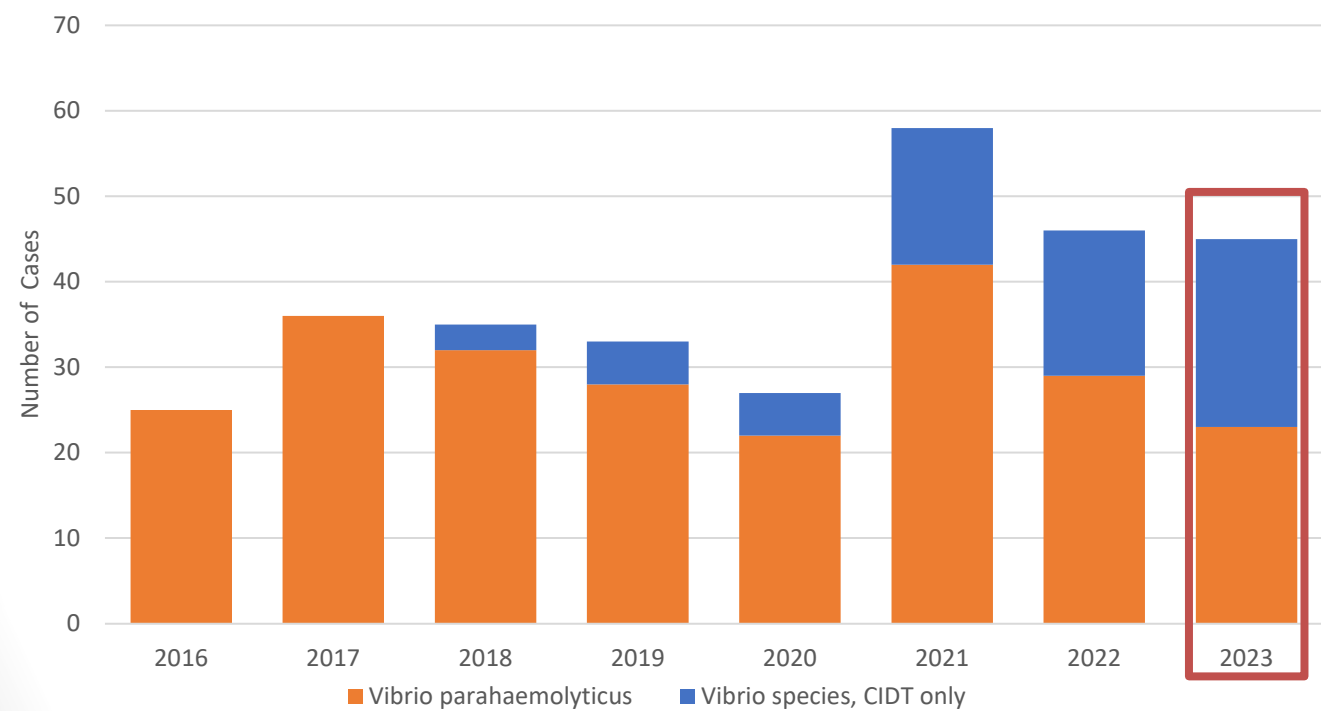
Key Takeaways

- There were more domestically-acquired cases of *Cyclo* this year compared to previous years.
- There were no confirmed outbreaks in MA where traceback occurred despite several cases reporting similar produce items from the same grocery store.



Vibrio Season Summary

Reported confirmed and probable cases of *Vibrio parahaemolyticus* or *Vibrio species* (not further speciated) infection during *Vibrio* season*, 2016-2023



**Vibrio* season: May 1st – October 31st.
**CIDT stands for culture independent diagnostic testing
Data from MAVEN as of 12/5/23 and are subject to change.



Vibrio Season Summary

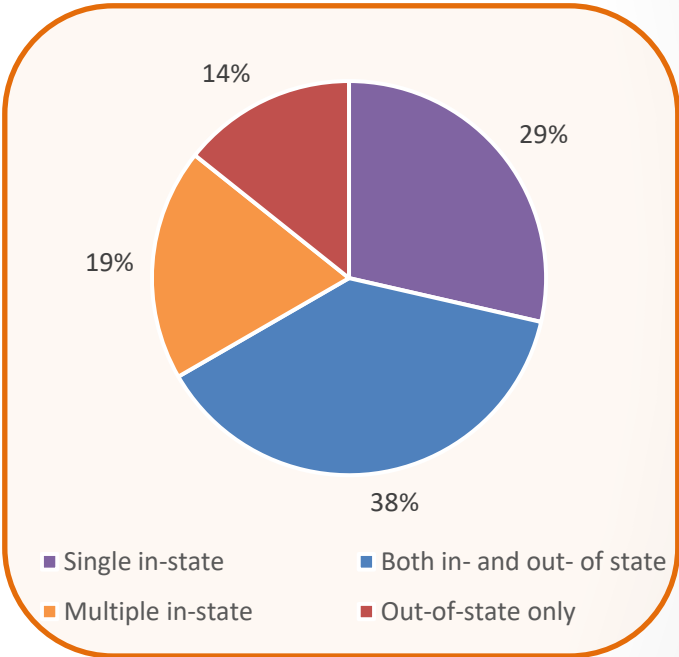
45

MA residents investigated with *Vibrio parahaemolyticus* or *Vibrio sp.* (not further speciated) from stool



69%

Reported consuming raw oysters (25 out of 36 with information available)



An additional 25 out-of-state residents reported with consumption of oysters in MA, or whose illness was traced back to oysters in MA.

Data from MAVEN as of 12/5/23 and are subject to change.



Vibrio Season Summary



- **New:** Cases of *Vibrio vulnificus* are treated as immediate events in Maven during *Vibrio* season
 - **Why?** For rapid identification of relevant exposures
- *Vibrio vulnificus* can cause life-threatening wound infections
 - 1 in 5 people with this infection will die
 - Those with underlying health conditions such as liver disease, diabetes, and immunocompromising conditions are at higher risk
 - Wound infections can occur when a wound comes into contact with:
 - Saltwater or brackish water
 - Raw or undercooked seafood or its juices/drippings
 - Thrives in warmer waters
 - During July-August 2023 the US experienced above-average coast sea surface temperatures
- In 2023, some East Coast states (Connecticut, New York and North Carolina) reported severe and fatal *V. vulnificus* after exposure to coastal waters in those states
- CDC released a [HAN](#) in September 2023



Resources

- Foodborne and Enteric Diseases folder in [Maven Help](#)
 - Webinars
 - [Introduction to Enteric Gastrointestinal Illness Disease Case Investigations](#)
 - [Cyclospora and Vibrio Case Investigations for LBOH](#)
 - [Legionella Overview Webinar](#)
 - [Foodborne Illness Complaint \(FBI\) Tip Sheet](#)
- [Foodborne illness information for healthcare and public health professionals](#)
 - [Guide to Surveillance, Reporting, and Control](#) *Disease-specific case investigation guidance*
 - [Disease-specific fact sheets](#) *Includes Salmonella, Campylobacter, Cyclospora, Cholera, and Vibrio parahaemolyticus*