Massachusetts Public Health Inspector Training (MA PHIT) Food Certificate Program

Day 4, Session 4 Foodborne Illness Activity

Learning Objectives

- Collect information about a foodborne illness
- Complete the foodborne illness worksheet
- Provide recommendations to prevent cases of foodborne illness

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Notification

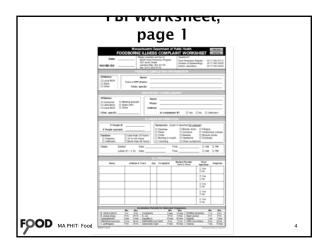
 On Monday, LBOH receives a call from the mother of a bride. The wedding was Saturday evening at a hotel in Boston (not the town where she lives) and she and her husband got sick on Sunday. The mother of the bride is starting to get calls from other guests (who live out of town) who were also sick on Sunday. She is quite embarrassed and concerned.



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• Is a laboratory diagnosis required for LBOH to begin investigation?

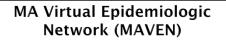
Next steps?
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M DPH Foodborne Illness Complaint Worksheet Page 2 of FOOD HISTORY									
Obtain food history back 72 hours prior to symptoms. If organism identified, obtain history for time period between minimum and maximum incubation periods. If more than two people are 8, follow the above time frame for common media diodici only. Always record time consumed, if cossible: otherwise choose the trenditat. Le lunch. De dinner.									
Suspect food or drink	Date & time consumed	Location consumed	Location purchased	Brand or Lot #	Food testing				
	Date: Time: D B D L D D	Home Home Other, specify:	Name:		Available for testing Yes No Sent to HSLI? Yes No				
	Date: Time: D B D L D D	Home Home Other, specify:	Name:	_	Available for testing Yes No Sent to HSLI? Yes No				
	Date: Time: D B D L D D	Home Where purchased Other, specify:	Name:	-	Available for testing Yes No Sent to HSLI? Yes No				
	Date: Time: D B D L D D	Home Where purchased Other, specify:	Name:		Available for testing Yes No Sent to HSLI? Yes No				
	Date: Time: D B D L D D	Home Home Other, specify:	Name:		Available for testing Yes No Sent to HSLI? Yes No				
	Date: Time:	Home Home Other, specify:	Name:		Available for testing Yes No Sent to HSLI? Yes No				

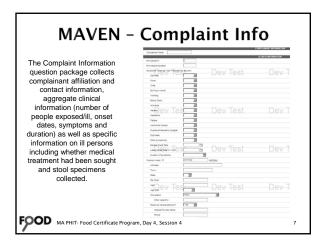




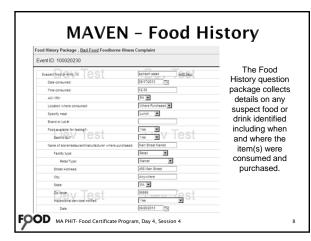
- DPH has developed a new module in MAVEN to capture Foodborne Illness Complaints (FBI). It allows:
 - LBOHs to enter FBI complaint information directly into MAVEN, eliminating the need to fax paper forms
 - More efficient searching and reporting of FBI Complaints by time frame, establishment and town

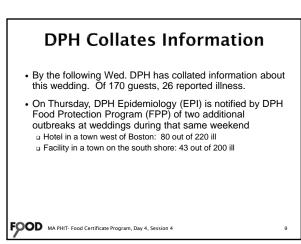
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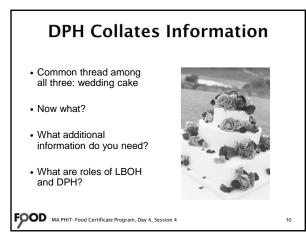
Automatic triage of newly created complaints to appropriate stakeholders

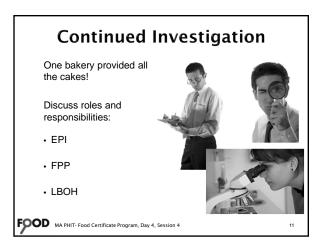


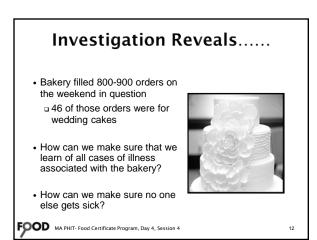


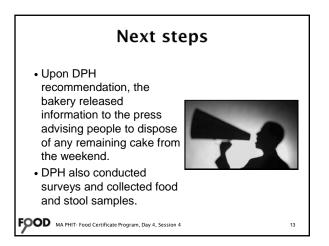














 A case definition is used in public health practice to define who should be included and excluded as a case in an outbreak. It includes time, place and person.

What should the case definition be for this outbreak?

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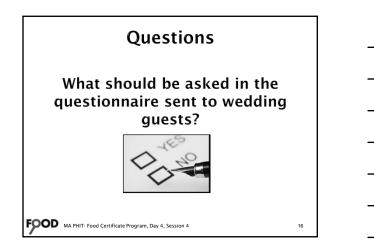
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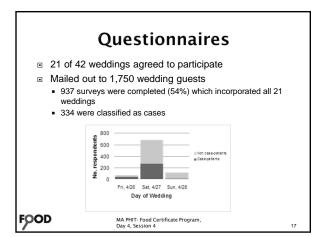
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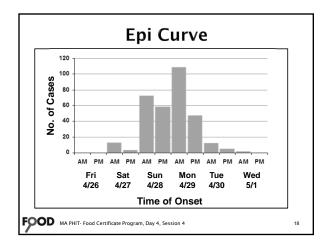


- A case was defined as any person who:
- Attended a wedding during the weekend in question and
- Had been supplied a cake by the identified bakery and
- Experienced illness onset within three days of the event with at least one of the following four symptoms: vomiting, diarrhea, nausea, or abdominal cramps.

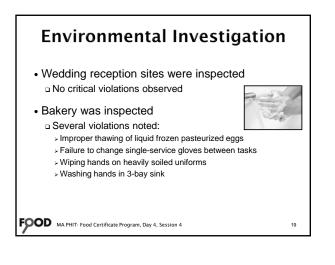
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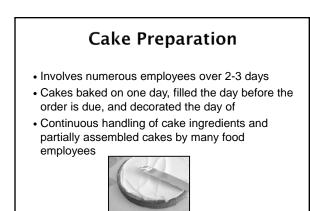












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 Case Composition

 Baked Cakes
 Filings

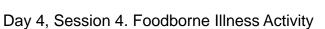
 • Gold
 • White Chocolate Mousse

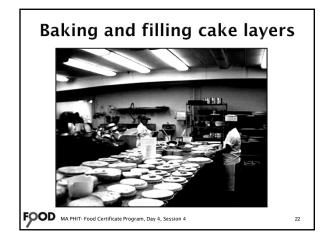
 • Chocolate
 • Strawberry

 • Carrot
 • Chocolate Mousse

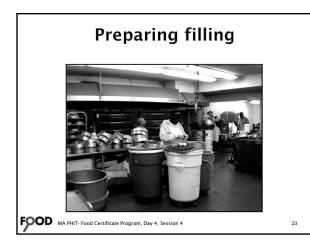
 • Wonchate
 • Strawberry

 • Mochate
 • Cream Cheese

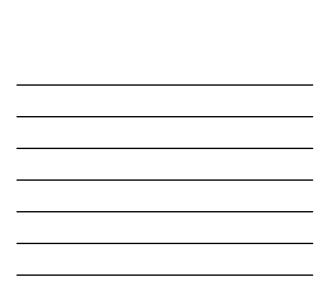


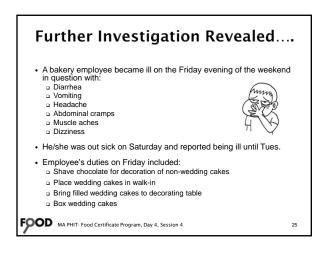


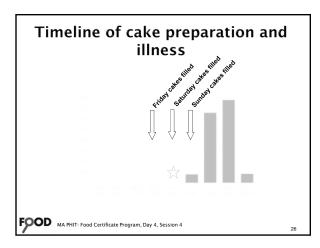


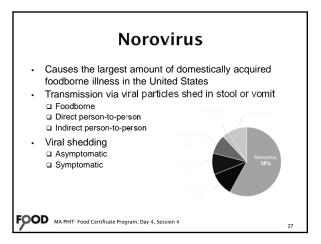


	# Cases Exposed	# Non-cases Exposed	Relative Risk
White Chocolate Mousse Filling	264	173	5.41
Strawberry Grand Marnier	252	156	4.15*
Chocolate Mousse	19	17	1.20
White Chocolate Mousse only	4	5	1.00
Raspberry Chocolate Mousse	2	1	1.50
Cream Cheese Filling	6	17	0.58











What would you recommend to the bakery to prevent such an outbreak from happening again?

Conclusion

The Centers for Disease Control & Prevention estimates that every year, 1 out 6 Americans get sick from, and 3,000 die, of foodborne illness. The majority of illnesses are caused by viruses!

Reducing foodborne illness by 10% would prevent 5 million Americans from getting sick each year. Preventing a single fatal case of E. coli O157 infection would save an estimated \$7 million.

State $\underline{\text{and}}$ local health departments play a critical role in all aspects of food safety.

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