BONUS POINTS: NORS FORM

Foodborne outbreaks are reported to National Outbreak Reporting System (NORS) using the NORS report form. Receive bonus points by correctly completing a NORS report form for this outbreak. Your NORS form must be submitted to FOC headquarters by 12PM.

For guidance on completing a NORS form, visit:

<http://www.cdc.gov/nors/pdf/NORS-Guidance_FINAL508c.pdf>

BONUS POINTS: EPI CURVE

Receive bonus points by creating an Epi curve for this outbreak. Your Epi curve must be submitted to FOC headquarters by 12PM. Use the graph paper in this packet.

QUESTIONNAIRE Worksheet

You have an opportunity to interview 3 possible outbreak cases. What should you ask them? What do you need to know to help determine if this is an outbreak? The CDC defines a foodborne outbreak as “an incident in which two or more persons experience a similar illness after ingestion of a common food, and epidemiologic analysis implicates the food as the source of the illness”.

Submit completed “QUESTIONNAIRE” activity worksheet to the FOC headquarters to receive instructions on the next activity. Remember-- you have 2 more pathogen-related activities to complete before 10AM! Use your time wisely.

What items do you need to know to determine if this is an outbreak?

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FIND ADDITIONAL CASES Worksheet

It’s an outbreak! CDPHE has assigned the following outbreak number: 05-231-2006. Please tell us how you are going to find additional cases. List 5 approaches ranked in order of importance.

Answers to the initial interviews with the 3 possible cases are enclosed here.

Submit completed “FIND ADDITIONAL CASES” activity worksheet to the FOC headquarters to receive instructions on the next activity. Remember-- you have 1 more pathogen-related activity to complete before 10AM! Use your time wisely.

How do you search for additional cases? Place a star (\*) next to the most important source of additional cases.

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PATHOGEN Worksheet

Great work! You've identified 23 individuals that were part of the outbreak. And someone has agreed to give you a stool sample to test. Please prepare the stool sample for submission to the CDPHE lab with the completed lab form. CDPHE only tests for 5 pathogens at a time so choose wisely!

Attached is a line list of the 23 individuals with their symptoms and information about their time at the hotel.

Package and submit the stool sample and lab form to the FOC headquarters by 10AM to complete this piece of the puzzle! Submit completed “PATHOGEN” activity worksheet for bonus points.

Write down ONE pathogen you think is causing the outbreak

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STUDY DESIGN Worksheet

CDPHE wants you to carry out a more thorough investigation. What type of epidemiologic study would you use to investigate this hypothesis? Give 2 reasons why?

Submit completed “STUDY DESIGN” activity worksheet to the FOC headquarters and then open envelope marked “CASE DEFINITION”

What type(s) of study would you use to investigate this hypothesis?

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What are your reasons for choosing this study design?

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BONUS POINTS: INTERVIEWEE QUESTIONNAIRE

Here is the name and cell phone number of someone who attended the event. Please demonstrate your interview skills by interviewing them by the end of the session (by 12PM).

**Rachel:** **303.692.2459**

CASE DEFINITION Worksheet

Submit completed “CASE DEFINITION” activity worksheet to the FOC headquarters to receive instructions on the next activity. Remember-- you have 1 more pathogen-related activity to complete before 11AM! Use your time wisely.

What case definition would you use for your investigation?

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FOOD SAMPLE Worksheet

The Hyperion Hotel outbreak cohort study has been completed. Attached is all of the data we collected. Based on these data, decide what food samples to submit for testing. CDPHE only allows 2 food samples to be submitted at any one time so make sure you use the right measures of association to narrow down your choice. Draw a star next to the 2 foods you would test.

Submit completed “FOOD SAMPLE” activity worksheet to the FOC headquarters to receive instructions on the next activity. Remember-- you need to complete before 11AM! Submitted completed “FOOD” activity worksheet for bonus points.

What evidence can you use to determine which food samples to send to the lab? Calculate the appropriate measures of association for each exposure.

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| Exposure | Measure of Association (include type) | Confidence Intervals |
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Write down ONE food you think is causing the outbreak

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STAFF INTERVIEW Worksheet

While carrying out the environmental assessment you will need to interview staff members. Who do you want to interview? What questions do you want to ask them about the outbreak? Come up with 10 questions to ask hotel staff about the outbreak.

Submit completed “STAFF INTERVIEW” activity worksheet to the FOC headquarters to receive instructions on the next activity. Remember—you have 2 more contamination activities to complete before 12PM! Use your time wisely.

What staff would you like to talk to at the hotel? Name 3 types of hotel personnel you would want to speak with.

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What questions do you want to ask them about the outbreak? Come up with 10 questions to ask hotel staff about the outbreak.

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SOURCE Worksheet

Here are the results of your environmental assessment. At this point you will need to compile your data to determine the source of contamination. Do you think evidence implicates a food handler as the source of the outbreak? Give 4 compelling reasons for your decision.

Submit completed “SOURCE” activity worksheet to the FOC headquarters to receive instructions on the next activity. Remember—you have 1 more contamination activities to complete before 12PM! Use your time wisely.

Do you think evidence implicates a food handler as the source of the outbreak?

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Give 4 compelling reasons that support your decision above.

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TRACEBACK Worksheet

You've determined it was not a food worker that caused contamination. In that case, the food must have been contaminated when it arrived at the hotel. Other individuals could still be at risk. A traceback investigation is required. Use the materials provided to determine each of the missing pieces below.

Submit completed “TRACEBACK” activity worksheet to the FOC headquarters. Remember—you only have until 12PM!

What information on the implicated food item will facilitate the traceback process?

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| Name of Melon Distributor: |  |
| Cold storage location: |  |
| Main facility location: |  |
| Country where melons grown: |  |
| City where melons grown #1: |  |
| City where melons grown #2: |  |

Based on the information given identify the shipment that delivered the contaminated melon and the farm at which it was grown

|  |  |
| --- | --- |
| Shipment Date: |  |
| Farm where contamination occurred: |  |