
From: Yoder, Jonathan S. (CDC/OID/NCEZID) <jey9@cdc.gov>
Sent: Friday, May 01, 2015 11:00 AM
To: Cupal, Suzanne; Garrison, Laurel (CDC/OID/NCIRD); Bohm, Susan (DCH); Fiedler, Jay (DCH)
Cc: Johnson, Shannon (DCH); Henry, James; Hasan, Shurooq; Childs, Bonnie; Valacak, Mark; Collins, Jim (DCH); Langley, Gayle E. (CDC/OID/NCIRD); Tyndall Snow, Leigh (DCH); Weinberg, Meghan (DCH); Fialkowski, Veronica (DCH); Carpenter, Joe (CDC/OID/NCEZID); Gargano, Julia Marie W. (CDC/OID/NCEZID); Fullerton, Katie (CDC/OID/NCEZID)
Subject: water complaint resources
Attachments: CDC 2007 Vermont Chloramines investigation Epi2.pdf; Ewence 2011 Review of skin irritation and tap water quality UK Drinking Water.pdf; SF Water 2013 Chloramines and skin irritation.pdf; Weintraub 2006 Heterogeneous dermatitis complaints after change in DW treatment Env Hlth.pdf

Hi Suzanne

Thank you for the information on Legionella.

For the non-legionella water issues, here are some documents that might assist with thinking about complaints related to drinking water. The 2007 investigation in Vermont has some questions designed to assess health effects such as dermatitis that might be helpful. However that investigation was very difficult, partly because some members of the community and outside groups attempted to influence the results of the investigation. If you want to discuss that investigation further, I can contact the staff who participated for their feedback.

If you want to pursue these other complaints, it would be good to gather standard information on each complaint and categorize by syndrome, time, location, etc. You might already be doing this. We previously discussed syndromic surveillance; I am glad to discuss that further if you are interested. We don't have experience doing that type of analysis in this situation but there might be others who do.

Regards
Jonathan

From: Cupal, Suzanne [mailto:scupal@gchd.us]
Sent: Friday, May 01, 2015 8:40 AM
To: Garrison, Laurel (CDC/OID/NCIRD); Bohm, Susan (CDC michigan.gov); Fiedler, Jay (CDC michigan.gov)
Cc: Johnson, Shannon (DCH); Henry, James; Hasan, Shurooq; Childs, Bonnie; Valacak, Mark; Yoder, Jonathan S. (CDC/OID/NCEZID); Collins, Jim (CDC michigan.gov); Langley, Gayle E. (CDC/OID/NCIRD); Tyndall Snow, Leigh (DCH); Meghan Weinberg (CDC michigan.gov); Fialkowski, Veronica (DCH)
Subject: RE: Follow-up Information

Attached is additional information Shurooq prepared yesterday to supplement our conversation information. It includes the number of confirmed Legionella cases in Genesee County *by calendar year*. To clarify, the number we quoted for 2013 yesterday reflects our fiscal year which is October 2012-2013 and included confirmed and suspect cases.

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From: Garrison, Laurel (CDC/OID/NCIRD) [<mailto:lee5@cdc.gov>]
Sent: Wednesday, April 29, 2015 9:09 PM
To: Bohm, Susan (CDC michigan.gov); Cupal, Suzanne; Fiedler, Jay (CDC michigan.gov)
Cc: Johnson, Shannon (DCH); Henry, James; Hasan, Shurooq; Childs, Bonnie; Valacak, Mark; Yoder, Jonathan S. (CDC/OID/NCEZID); Collins, Jim (CDC michigan.gov); Langley, Gayle E. (CDC/OID/NCIRD); Tyndall Snow, Leigh (DCH); Meghan Weinberg (CDC michigan.gov); Fialkowski, Veronica (DCH)
Subject: RE: CDC-GCHD Call, 9:00am Apr 30th

Thank you Susan and everyone for your work on this and for sharing your findings thus far. I will forward this to the rest of the group here, and we'll talk to you tomorrow at 9.
 Laurel

From: Bohm, Susan (CDC michigan.gov)
Sent: Wednesday, April 29, 2015 5:28 PM
To: Garrison, Laurel (CDC/OID/NCIRD); Cupal, Suzanne; Fiedler, Jay (CDC michigan.gov)
Cc: Johnson, Shannon (DCH); Henry, James; Hasan, Shurooq; Childs, Bonnie; Valacak, Mark; Yoder, Jonathan S. (CDC/OID/NCEZID); Collins, Jim (CDC michigan.gov); Langley, Gayle E. (CDC/OID/NCIRD); Tyndall Snow, Leigh (DCH); Meghan Weinberg (CDC michigan.gov); Fialkowski, Veronica (DCH)
Subject: RE: CDC-GCHD Call, 9:00am Apr 30th

Hello,

Attached please find the survey data of cases interviewed by MDHHS and Genesee Co HD so far (EpiInfo analysis) and updated info on the investigation (MDHHS Prelim Stats). We've included an agenda to help guide tomorrow morning's call.

Call Agenda

Summarizing the Investigation/Epidemiology

- Preliminary Statistics MDHHS (Shannon & Susan)
- Interview Data MDHHS (Lily & Meghan)
 - EPI Info Analysis
- EPI Curve GCHD
- Discussion of Current Investigation All

Environmental Investigation

- Environmental Sampling Protocol CDC

- Discussion

All

Additional Recommendations

- Additional Recommendations CDC/All

Till tomorrow then,

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From: Garrison, Laurel (CDC/OID/NCIRD) [<mailto:lee5@cdc.gov>]
Sent: Wednesday, April 29, 2015 1:58 PM
To: Cupal, Suzanne; Fiedler, Jay (DCH)
Cc: Bohm, Susan (DCH); Johnson, Shannon (DCH); Henry, James; Hasan, Shurooq; Childs, Bonnie; Valacak, Mark; Yoder, Jonathan S. (CDC/OID/NCEID); Collins, Jim (DCH); Langley, Gayle E. (CDC/OID/NCIRD)
Subject: RE: CDC-GCHD Call

Thanks, Suzanne. In just looking at this quickly, I'm wondering if you can you break down the epi curve in the following ways:

--Color code the cases with exposure to McLaren during their incubation periods

--Color code by some kind of indicator of exposure to Flint water (maybe Q.3?).

You've probably already looked at this in several different ways, and I think there are other ways to look at it as well, but perhaps that might help us. Thanks!

From: Cupal, Suzanne [<mailto:scupal@gchd.us>]
Sent: Wednesday, April 29, 2015 1:29 PM
To: Garrison, Laurel (CDC/OID/NCIRD); Fiedler, Jay (CDC michigan.gov)
Cc: Bohm, Susan (CDC michigan.gov); Johnson, Shannon (DCH); Henry, James; Hasan, Shurooq; Childs, Bonnie; Valacak, Mark; Yoder, Jonathan S. (CDC/OID/NCEID); Collins, Jim (CDC michigan.gov); Langley, Gayle E. (CDC/OID/NCIRD)
Subject: RE: CDC-GCHD Call

I just forwarded information. Please let us know if there is anything else we can share.

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From: Garrison, Laurel (CDC/OID/NCIRD) [<mailto:lee5@cdc.gov>]
Sent: Wednesday, April 29, 2015 1:18 PM
To: Fiedler, Jay (CDC michigan.gov); Cupal, Suzanne
Cc: Bohm, Susan (CDC michigan.gov); Johnson, Shannon (DCH); Henry, James; Hasan, Shurooq; Childs, Bonnie; Valacak, Mark; Yoder, Jonathan S. (CDC/OID/NCEZID); Collins, Jim (CDC michigan.gov); Langley, Gayle E. (CDC/OID/NCIRD)
Subject: RE: CDC-GCHD Call

Hi all,
 Just checking in to see whether you expect to send any epi data to help guide the discussion tomorrow. If we could review it prior to the call I think that would help facilitate the call and ensure we make the most of our time.
 Thanks!
 Laurel

From: Garrison, Laurel (CDC/OID/NCIRD)
Sent: Tuesday, April 28, 2015 12:18 PM
To: Fiedler, Jay (CDC michigan.gov); 'Cupal, Suzanne'
Cc: Bohm, Susan (CDC michigan.gov); Johnson, Shannon (DCH); Henry, James; Hasan, Shurooq; Childs, Bonnie; Valacak, Mark; Yoder, Jonathan S. (CDC/OID/NCEZID); Collins, Jim (CDC michigan.gov); Langley, Gayle E. (CDC/OID/NCIRD)
Subject: RE: CDC-GCHD Call

OK let's go ahead and plan for a call 9:00 AM on Thursday. I'm attaching our new document CDC Sampling Procedure and Potential Sampling Sites (it's not available on the website yet). Please review prior to the call and we will answer any questions then.

We can use our conference line:

Tel:

Code:

From: Fiedler, Jay (CDC michigan.gov)
Sent: Tuesday, April 28, 2015 11:50 AM
To: Garrison, Laurel (CDC/OID/NCIRD); 'Cupal, Suzanne'
Cc: Bohm, Susan (CDC michigan.gov); Johnson, Shannon (DCH); Henry, James; Hasan, Shurooq; Childs, Bonnie; Valacak, Mark; Yoder, Jonathan S. (CDC/OID/NCEZID); Collins, Jim (CDC michigan.gov)
Subject: RE: CDC-GCHD Call

Hello,

Yes, 9:00 or 9:30 on Thursday works for us. Let us know the final details when they're decided.

Of the topics mentioned below, at this point in time it would be best to focus on:

- * the current investigation,
- * CDC walk-through of the environmental sampling protocol,
- * and a discussion of any additional recommendations.

It's very likely that these topics will fill our allotted time. There's no need to discuss the clinical specimen collection and guidance that has already been provided to GCHD and sent to local providers. The syndromic surveillance data project

would be better handled at the local/state level and should not take away from the ongoing epi investigation that we're currently assisting GCHD with.

Thanks, and we look forward to hearing from you. --Jay

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From: Garrison, Laurel (CDC/OID/NCIRD) [<mailto:lee5@cdc.gov>]
Sent: Tuesday, April 28, 2015 8:00 AM
To: 'Cupal, Suzanne'; Fiedler, Jay (DCH)
Cc: Bohm, Susan (DCH); Johnson, Shannon (DCH); Henry, James; Hasan, Shurooq; Childs, Bonnie; Valacak, Mark; Yoder, Jonathan S. (CDC/OID/NCEZID)
Subject: RE: CDC-GCHD Call

Great! I think we have a better chance in getting good participation if we schedule early, say 9 or 9:30? We'd like to have the state on the call as well, so let us know if that works.

From: Cupal, Suzanne [<mailto:scupal@gchd.us>]
Sent: Tuesday, April 28, 2015 7:54 AM
To: Garrison, Laurel (CDC/OID/NCIRD); Fiedler, Jay (CDC michigan.gov)
Cc: Bohm, Susan (CDC michigan.gov); Johnson, Shannon (DCH); Henry, James; Hasan, Shurooq; Childs, Bonnie; Valacak, Mark; Yoder, Jonathan S. (CDC/OID/NCEZID)
Subject: RE: CDC-GCHD Call

Thursday morning works for us.

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From: Garrison, Laurel (CDC/OID/NCIRD) [<mailto:lee5@cdc.gov>]
Sent: Tuesday, April 28, 2015 7:29 AM
To: Cupal, Suzanne; Fiedler, Jay (CDC michigan.gov)
Cc: Bohm, Susan (CDC michigan.gov); Johnson, Shannon (DCH); Henry, James; Hasan, Shurooq; Childs, Bonnie; Valacak, Mark; Yoder, Jonathan S. (CDC/OID/NCEZID)
Subject: RE: CDC-GCHD Call

Hi Suzanne,

Yes, let's try to schedule something for this week. Would Thursday morning work for everyone?

Yes, it would be helpful to be able to review your epi curve, questionnaire results, etc. prior to the call.

Thanks,

Laurel

From: Cupal, Suzanne [<mailto:scupal@gchd.us>]

Sent: Monday, April 27, 2015 3:54 PM

To: Garrison, Laurel (CDC/OID/NCIRD); Fiedler, Jay (CDC michigan.gov)

Cc: Bohm, Susan (CDC michigan.gov); Johnson, Shannon (DCH); Henry, James; Hasan, Shurooq; Childs, Bonnie; Valacak, Mark; Yoder, Jonathan S. (CDC/OID/NCEZID)

Subject: RE: CDC-GCHD Call

We were trying to coordinate schedules for Thursday (4/30) or Friday (5/1) of this week. Please let us know if we could schedule a meeting either of those days.

We have two major events next week: Our Public Health Conference 5/5/15 and the Speak To Your Health! Community Survey Data Roll-Out 5/7/15.

Jay had asked what the agenda would look like. Our suggestion would be:

A Review of the current investigation (Statistics, Questionnaire Responses, Issues Addressed, Current Concerns)

Discussion of clinical sample protocols

Discussion of environmental sampling protocols

Submission of the samples to CDC

Syndromic Surveillance Project

Suggestions for Additional Assistance .

Thank you.

Suzanne

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From: Garrison, Laurel (CDC/OID/NCIRD) [<mailto:lee5@cdc.gov>]

Sent: Monday, April 27, 2015 3:38 PM

To: Fiedler, Jay (CDC michigan.gov); Cupal, Suzanne

Cc: Bohm, Susan (CDC michigan.gov); Johnson, Shannon (DCH); Henry, James; Hasan, Shurooq; Childs, Bonnie; Valacak, Mark; Yoder, Jonathan S. (CDC/OID/NCEZID)

Subject: RE: CDC-GCHD Call

Hi Suzanne,

I met with colleagues and leadership at CDC, and we are very concerned about this Legionnaires' disease outbreak. It's very large, one of the largest we know of in the past decade, and community-wide, and in our opinion and experience it needs a comprehensive investigation. I know you all have been working on this for quite a while, but we are unclear

about which steps have been taken and what is currently known, and we feel a sense of urgency. Is it possible to meet before May 8th? It's difficult to give advice when we don't have all the information, but we are eager to help. You may have already taken several of these steps, but we recommend a full investigation including the following steps:

- Generate an epi curve, map the cases, interview all cases with a hypothesis-generating questionnaire, analyze results from questionnaire (I believe this has been done, and, if so, it would be helpful to review these results with you.)
- Based on these results, determine whether we can either rule out any sources or start investigating any sources. (I believe you have started this...for example you mentioned that some cases were possibly healthcare-associated.)
- Full environmental investigation of any potential sources (We can provide information on how to collect samples, etc. if needed.)
- If the source(s) is found, provide remediation recommendations to stop the outbreak.

I know you've run into issues getting information you've requested from the city water authority and the MI Dept of Environmental Quality. Again, not knowing the full extent of your investigation it's difficult to make recommendations, and it may be difficult for us to provide the kind of detailed input needed for such an extensive outbreak from afar. If you and others at the state feel you would benefit from more intensive assistance with continuing the investigation for any reason, please let us know and we can discuss providing field assistance in the form of an Epi-Aid.

Best regards,
Laurel

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From: Fiedler, Jay (CDC michigan.gov)
Sent: Monday, April 27, 2015 2:00 PM
To: Cupal, Suzanne; Garrison, Laurel (CDC/OID/NCIRD)
Cc: Kutty, Preeta (CDC/OID/NCIRD); Bohm, Susan (CDC michigan.gov); Johnson, Shannon (DCH); Henry, James; Hasan, Shurooq; Childs, Bonnie; Valacak, Mark; Bohm, Susan (CDC michigan.gov)
Subject: RE: CDC-GCHD Call

Hello Suzanne,

Looking at our schedules, we have limited availability of our core staff here at DHHS on Friday May 8th. In order to help prioritize or to determine if we should look for an alternate meeting time, can we get an idea of what the agenda will be for this call?

Thanks. -Jay

Jay Fiedler, MS
Section Manager

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From: Cupal, Suzanne [<mailto:scupal@gchd.us>]
Sent: Monday, April 27, 2015 11:50 AM
To: Garrison, Laurel (CDC/OID/NCIRD)
Cc: Kutty, Preeta (CDC/OID/NCIRD); Bohm, Susan (DCH); Johnson, Shannon (DCH); Henry, James; Hasan, Shurooq; Childs, Bonnie; Valacak, Mark
Subject: RE: CDC-GCHD Call

Our team is available on Friday, May 8th at 11am if that would work for you and our state colleagues.

Thank you for your assistance.

Suzanne

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From: Garrison, Laurel (CDC/OID/NCIRD) [<mailto:lee5@cdc.gov>]
Sent: Thursday, April 23, 2015 3:03 PM
To: Cupal, Suzanne
Cc: Kutty, Preeta (CDC/OID/NCIRD); Bohm, Susan (CDC michigan.gov); Johnson, Shannon (DCH); Henry, James; Hasan, Shurooq; Childs, Bonnie; Valacak, Mark
Subject: Re: CDC-GCHD Call

Hi Suzanne et al.,

If you are interested in discussing the Legionella action items in more detail, please let me know your availability for a conference call involving the county, state, and RDB.

Best regards,
 Laurel

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 Atlanta, GA 30333
 404.639.3424
Lee5@cdc.gov

From: Yoder, Jonathan S. (CDC/OID/NCEZID)

Sent: Thursday, April 23, 2015 1:48 PM

To: Cupal, Suzanne; Garrison, Laurel (CDC/OID/NCIRD)

Cc: Gargano, Julia Marie W. (CDC/OID/NCEZID); Fullerton, Katie (CDC/OID/NCEZID); Kuty, Preeta (CDC/OID/NCIRD); Carpenter, Joe (CDC/OID/NCEZID); Roberts, Virginia (CDC/OID/NCEZID); Bohm, Susan (CDC michigan.gov); Johnson, Shannon (DCH); Henry, James; Hasan, Shurooq; Childs, Bonnie; Valacak, Mark

Subject: Re: CDC-GCHD Call

Hi Suzanne

It was good to speak to you yesterday. I am copying Laurel on this email as the contact for the legionella program. She will coordinate with the state to make sure you have the protocols.

We are glad to assist.

Jonathan

Sent from my iPhone

On Apr 23, 2015, at 10:03 AM, "Cupal, Suzanne" <scupal@gchd.us> wrote:

Jonathan-

Thank you and your team for the opportunity to speak yesterday. We appreciate your comments about a measured response. We recognize we do not have the data we need for further action. We were grateful for the opportunity to share with you and our state colleagues our concerns based on the information we do have. We are doing everything we can to mitigate risk to our residents.

We look forward to receiving the sampling protocols and advice related to syndromic surveillance. Our concerns have now been communicated which opens the door to further communication as events unfold.

We are dealing with complex and confounding information. We appreciate your assistance in gathering the facts. We want to be prepared to protect the health and safety of our residents and provide appropriate information.

Thank you again.

Your Genesee County Colleagues

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