

From: Zervos, Marcus <MZERVOS1@hfhs.org>
Sent: Monday, August 22, 2016 11:01 PM
To: Paul Evan Kilgore; Matthew Wayne Seeger; Shawn Patrick McElmurry
Subject: FW: Analysis of Shigellosis cases

Importance: High

We should talk about legionnaires with her also

From: Shawn Patrick McElmurry [mailto:s.mcelmurry@wayne.edu]
Sent: Monday, August 22, 2016 11:37 AM
To: Karen Weaver <kweaver@cityofflint.com>
Cc: Laura Sullivan (dr.laura2@gmail.com) <dr.laura2@gmail.com>; Paul Evan Kilgore <paul.kilgore@wayne.edu>; Zervos, Marcus <MZERVOS1@hfhs.org>; Matthew Wayne Seeger <matthew.seeger@wayne.edu>
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Mayor Weaver, I wanted to make sure you were aware of a significant increase in the number of cases and rate of Shigellosis that has been observed in Genesee County recently. At the August 9th GCHD board meeting, Paul Kilgore and I were encouraged by Suzanne Cupal's report at this meeting that cases were declining. Following the meeting we created an epidemic curve based on data from Genesee County (through June 23) and found this not to be the case.

I hope to discuss details of this briefly at the meeting that Laura is currently trying arrange.

Thanks,
Shawn

From: Shawn Patrick McElmurry
Sent: Monday, August 22, 2016 11:28 AM
To: Valacak, Mark <MVALACAK@gchd.us>; Cupal, Suzanne (scupal@gchd.us) <scupal@gchd.us>
Cc: Matthew Wayne Seeger <matthew.seeger@wayne.edu>; Paul Evan Kilgore <paul.kilgore@wayne.edu>; Marcus Zervos <MZERVOS1@hfhs.org>
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Suzanne and Mark:

As you know, last month we had one of our team members become extremely ill due to shigellosis. Once we learned of this, we immediately pulled data from the MDCH Weekly Surveillance Reports. There is a significantly elevated rate of shigellosis in Genesee County; total cases and rates well above rates found in other counties this year. These data also appear to exceed previous baseline rates in Michigan. The outbreak appears to have accelerated in late June, into July.

We believe that the current outbreak is statistically outside the normal variation in cases observed each year. We're prepared to conduct preliminary analysis to allow for a better understanding of this threat to public health. To do this, we will need access to the following information for each of the shigellosis cases in Genesee County over the past five years:

1. Location. To protect identity, please round the address to the block level. If you are not comfortable with this level of deidentification, please scale it up to the block group or census tract. The greater the spatial resolution the better, obviously.
2. Age. To protect identity, please classify case age into 5 yr groups.
3. Relation to other cases (e.g. if the case is a family member of another case). To protect identity, please use code identifiers for each case.

We realize you are extremely busy and short staffed so we greatly appreciate your assistance. While these data will allow us to perform preliminary analyses, we would like to do this in the spirit of collaboration and will include you as co-authors if this analysis leads to publication.

Please let us know as soon as possible if you are willing to provide these data to us. Thank you.

Sincerely,
Shawn McElmurry

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AUG 22, 2016

Laura Sullivan updated her status.