**Arboviral and Zika virus specific data element discussion**

1. **Zika outbreak - EHR data elements of interest for implementing CDC Interim guidelines for pregnant women and infants.**
2. **Lab Vocabulary – needed for ELR as well as CDC’s interim guideline implementation by EHR.**
3. **Arboviral Public Health Case Notification – Messaging Guide**

Zika outbreak – EHR data elements of interst

CDC EHR Meaningful use program and ONC are jointly collaborating to provide guidance to healthcare providers and EHR vendors regarding the implementation of CDC’s interim guidelines mentioned below. All these guidelines as well as Q&A for health care providers can be found at <http://www.cdc.gov/zika/hc-providers/index.html> . We are going to work initially on the pregnant women guidelines followed by others (newborn and Sexual transmission).

* [Update: Interim Guidelines for Health Care Providers Caring for Pregnant Women and Women of Reproductive Age with Possible Zika Virus Exposure – United States, 2016](http://www.cdc.gov/mmwr/volumes/65/wr/mm6505e2er.htm?s_cid=mm6505e2er.htm_w) (Feb. 5, 2016)
* [Interim Guidelines for the Evaluation and Testing of Infants with Possible Congenital Zika Virus Infection – United States, 2016](http://www.cdc.gov/mmwr/volumes/65/wr/mm6503e3er.htm?s_cid=mm6503e3er.htm_w)
* [Interim Guidelines for Prevention of Sexual Transmission of Zika Virus – United States, 2016](http://www.cdc.gov/mmwr/volumes/65/wr/mm6505e1er.htm?s_cid=mm6505e1er_w.htm)

CDC EHR Health IT Zika outbreak team would like to get help from Clinical LOINC committee in creating at least 2 LOINC panels (Pregnant Women, Infants) that would include all the data elements that has been referenced in CDC’s interim guidelines. We are hoping the Clinical LOINC panels would help implement the CDC’s interim guidelines using Clinical Decision Support, Infobutton as well as any screening form.

CDC EHR HIT Zika outbreak workgroup has done preliminary mapping of interim guidelines data elements to EHR data elements using existing LOINC codes. I will send the draft version of 2 LOINC panels on Monday (2/22/2016) for our detailed discussion with LOINC Committee. We may be creating only handful of new Clinical LOINC codes (n=10) that would be used for impression/interpretation of certain observations (e.g. Ultrasound study, Lab Test Interpretation).

CDC EHR HIT Zika outbreak team had an initial conversation with “[OpenInfoButton](http://www.openinfobutton.org/)” (Guilherme) which would also help EHR community to implement the CDC’s interim guidelines using EHR info button functionality. NLM MedlinePlus Connect is also helping us with the infobutton implementation to disseminate the topics related to Zika virus for healthcare providers and patient education materials.

**Value sets for implementing the CDC’s interim guidelines:**

CDC vocabulary team has already created several value sets in PHIN VADS that would help Clinical Decision Support (CDS).

Example: “Don’t give Aspirin or NSAID until Dengue has been ruled out”. PHIN VADS has created a value set “Disease Drug Interaction (Dengue)” with the help of NLM using RxNorm codes.

PHIN VADS would provide a value set link for each of the coded data elements present in LOINC panel. It would be nice, if RELMA could publish these value set links along with the LOINC panel. PHIN VADS home page hot topics section has a PDF document ([direct VADS document](https://phinvads.cdc.gov/vads/DownloadHotTopicDetailFile.action?filename=74770823-5DD6-E511-8702-0017A477041A) link) that provides hyperlinks to existing value sets in VADS related to Zika. CDC EHR Health IT Zika outbreak team is also collaborating with National Library of Medicine to publish Zika related PHIN VADS value sets in VSAC also so that we can reach many of the EHR/ Health IT vendors.

PHIN VADS hyperlink - <https://phinvads.cdc.gov/vads/SearchVocab.action>

**Lab Vocabulary (ELR) – Lab testing algorithm to detect Dengue, Chikungunya and Zika virus :**

CDC really appreciates the quick response from LOINC and giving us the new LOINC codes for implementing the CDC’s lab testing algorithm to detect Dengue, Chikungunya and Zika virus. Lab testing is one of the important step in the interim guidelines. <http://www.cdc.gov/zika/pdfs/denvchikvzikv-testing-algorithm.pdf>

PHIN VADS team is trying to communicate to all the EHR vendors, State public health labs and surveillance system about these new Zika virus LOINC codes. I am working closely with Regenstrief (Swapna) to post the attached document in LOINC forum / list serv which would allow the lab community to use these new Zika lab test LOINC codes until the next official release of LOINC. All the LOINC and SNOMED codes for implementing the testing algorithm for detecting Chikungunya, Dengue and Zika can be downloaded from PHIN VADS homepage under hot topics or via the following direct hyperlink.

<https://phinvads.cdc.gov/vads/DownloadHotTopicDetailFile.action?filename=07533E78-C3C9-E511-9D24-0017A477041A>

**Public Health Case Notification:**

CDC is working on updating the existing HL7 2.5.1 Arboviral Implementation guide to include the new Clinical and lab data elements and planning to publish the implementation guide in CDC website during the first week of March. I need few Clinical LOINC codes for this implementation guide. Draft version of the new implementation guide has been attached in this e-mail which would be discussed during our Clinical LOINC committee meeting.

**Need help – Zika Outbreak EHR HIT Workgroup**

I would like to get help from vocabulary specialists, knowledge engineers, EHR community, Clinical Decision Support experts, Infobutton as well as EHR vendors to implement the CDC’s interim guidelines using standard vocabularies (LOINC, SNOMED, RxNorm, ICD-10 CM, ICD-10 PCS, and CPT). If any of them would like to join the “Zika outbreak EHR HIT workgroup”, they could e-mail me at dsq3@cdc.gov .