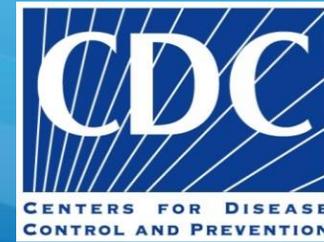


The Office of the National Coordinator for
Health Information Technology



Zika Webinar Series
**Zika Virus Disease Update for EHR Vendors, other Health
Information Technology Developers, Public Health, and
Clinical Healthcare Partners**

Public Health - EHR Vendors Collaboration Initiative

National Webinar # 4
April 27, 2016

Putting the **I** in Health **IT**
www.HealthIT.gov

CDC Web Resources on Zika Virus Disease

Zika Virus Disease

The screenshot shows the CDC website page for Zika Virus Disease. The browser address bar displays <http://www.cdc.gov/zika/>. The page header includes the CDC logo and the text "Centers for Disease Control and Prevention CDC 24/7: Saving Lives, Protecting People™". A search bar is located in the top right corner. Below the header, there is a blue navigation bar with the text "Zika Virus" and a "CDC A-Z INDEX" dropdown menu. Social media icons for Facebook, Twitter, and a plus sign are visible. A language selector is set to "English".

The main content area features a large banner titled "ZIKA & PREGNANCY" with an image of a pregnant woman and a mosquito icon. Below the banner, there are four navigation tabs: "ABOUT ZIKA VIRUS DISEASE", "AREAS WITH ZIKA", "SYMPTOMS, DIAGNOSIS, & TREATMENT", and "FOR HEALTH CARE PROVIDERS".

On the right side, there is a "Spotlight" section titled "Zika and Pregnancy: What you should know" with a "Vital Signs" graphic. Below this is a section titled "At A Glance - Zika in the U.S. (as of April 20, 2016)" which includes a list of cases reported by US States and US Territories.

Spotlight: Zika and Pregnancy

Zika and Pregnancy
What you should know

Zika virus disease (Zika) spreads to people mainly through the bite of two species of infected mosquitoes, one of which is more likely to transmit Zika. In past outbreaks, most people have not gotten sick, so people may not even know they are infected. Based on current knowledge, the greatest risk for complications from Zika is to a pregnant woman's fetus. If a pregnant woman is infected with Zika, she can pass the virus to her fetus. Zika has been linked to cases of microcephaly, a serious birth defect, and is a sign that the baby is born with a smaller brain, which can result in medical problems and impaired development. Researchers are working to understand more about how Zika affects pregnant women and fetuses.

To protect the pregnancy, couples can:

- Check CDC travel guidance; pregnant women should avoid travel to any area with Zika.

#1 Mosquitoes are the deadliest animals in the world because of the diseases they spread.

30 Days A female mosquito infected with Zika can complete its lifespan in about 30 days.

Vital Signs: Zika and Pregnancy

At A Glance - Zika in the U.S. (as of April 20, 2016)

US States

- Travel-associated Zika virus disease cases reported: 388
- Locally acquired vector-borne cases reported: 0
- Total: 388
 - Pregnant: 33
 - Sexually transmitted: 8
 - Guillain-Barré syndrome: 1

US Territories

CDC Web Resources on Zika Virus Disease

Zika Virus Tools for Healthcare Providers

URL: <http://www.cdc.gov/zika/hc-providers/index.html>

The screenshot shows a web browser window displaying the CDC website for Zika Virus Tools for Healthcare Providers. The browser's address bar shows the URL <http://www.cdc.gov/zika/hc-providers/index.html>. The page features a blue header with the text "Zika Virus" and a "CDC A-Z INDEX" dropdown menu. A left sidebar contains a navigation menu with items such as "Zika Virus Home", "What CDC is Doing", "About Zika Virus Disease", "Prevention", "Transmission", "Symptoms, Diagnosis, & Treatment", "Areas with Zika", "Information for Specific Groups", "For Health Care Providers" (expanded to show "Clinical Guidance", "Clinical Evaluation & Disease", "Diagnostic Testing", "Tools for Health Care Providers", "QA: Pregnant Women & Women of Reproductive Age", "QA: Infants and Zika Virus Infection", "HIV Infection & Zika Virus", "Resources & Publications", and "Communication Resources"), "Resources & Publications", and "Communication Resources". The main content area is titled "For Health Care Providers" and includes social media icons for Facebook, Twitter, and a plus sign. Below these are six grey boxes with blue text: "CLINICAL GUIDANCE", "US ZIKA PREGNANCY REGISTRY", "CLINICAL EVALUATION & DISEASE", "TOOLS FOR HEALTH CARE PROVIDERS", "DIAGNOSTIC TESTING", and "HIV INFECTION & ZIKA VIRUS". To the right of these boxes is a language dropdown menu set to "English" and a photograph of a doctor in a white coat talking to a pregnant woman. Below the main content area are three blue header sections: "Q&As" with two bullet points, "COCA Calls/Webinars" with four bullet points, and "Medscape Resources" with two bullet points. At the bottom left, there is a graphic with the text "ZIKA & PREGNANCY" and an image of a pregnant woman.

Zika Virus

Zika Virus Home

What CDC is Doing

About Zika Virus Disease +

Prevention +

Transmission +

Symptoms, Diagnosis, & Treatment

Areas with Zika +

Information for Specific Groups +

For Health Care Providers -

Clinical Guidance

Clinical Evaluation & Disease

Diagnostic Testing +

Tools for Health Care Providers

QA: Pregnant Women & Women of Reproductive Age

QA: Infants and Zika Virus Infection

HIV Infection & Zika Virus

Resources & Publications

Communication Resources +

CDC > Zika Virus Home

For Health Care Providers

f t +

CLINICAL GUIDANCE

US ZIKA PREGNANCY REGISTRY

CLINICAL EVALUATION & DISEASE

TOOLS FOR HEALTH CARE PROVIDERS

DIAGNOSTIC TESTING

HIV INFECTION & ZIKA VIRUS

Language: English

Q&As

- QA: Healthcare Providers Caring for Pregnant Women and Women of Reproductive Age with Possible Zika Virus Exposure
- QA: Healthcare Providers Caring for Infants and Children with Possible Zika Virus Infection

COCA Calls/Webinars

- CDC's Clinician Outreach and Communication Activity (COCA) Calls/Webinars
- COCA Call: Updated Interim Zika Clinical Guidance for Reproductive Age Women and Men, Sexual Transmission of Zika, and the U.S. Zika Pregnancy Registry (April 12, 2016)
- COCA Call: Update on Interim Zika Virus Clinical Guidance and Recommendations (Feb. 25, 2016)
- COCA Call: Zika Virus – What Clinicians Need to Know (Jan. 26, 2016)

Medscape Resources

- Medscape Expert Commentary: Advising Pregnant Women About Zika
- Medscape Expert Commentary: Zika for Pediatrician

ZIKA & PREGNANCY

CDC Web Resources on Zika Virus Disease

Pregnant women residing in an area with Zika

Testing Algorithms

URL: <http://www.cdc.gov/zika/hc-providers/tools.html>

<http://www.cdc.gov/zika/pdfs/pregnant-women-residing-area.pdf>
How to Protect Yourself | Zika ...
Tools for Health Care Provider...
cdc.gov

CDC's Response to Zika

Updated Interim Guidance:

Testing Algorithm for a Pregnant Woman Residing in an Area with Active Zika Virus Transmission¹, with or without Clinical Illness² Consistent with Zika Virus Disease³



```

    graph TD
      Start[Pregnant woman residing in an area with local Zika virus transmission] --> Branch1[Pregnant woman reports clinical illness consistent with Zika virus disease]
      Start --> Branch2[Pregnant woman does not report clinical illness consistent with Zika virus disease]
      
      Branch1 --> Test1[Test for Zika virus infection]
      Test1 --> Pos1[Positive or Inconclusive for Zika virus infection]
      Test1 --> Neg1[Negative for Zika virus infection]
      Pos1 --> Ultrasounds1[Consider serial fetal ultrasounds]
      Neg1 --> Ultrasound1[Fetal ultrasound]
      Ultrasound1 --> Abn1[Fetal abnormalities consistent with Zika virus disease* present]
      Ultrasound1 --> Abn2[Fetal abnormalities consistent with Zika virus disease* not present]
      Abn1 --> Retest1[Retest pregnant woman for Zika virus infection]
      Abn2 --> Care1[Routine prenatal care  
Test for Zika virus infection mid-2nd trimester  
Consider an additional fetal ultrasound]
      
      Branch2 --> Test2[Test for Zika virus infection upon initiation of prenatal care]
      Test2 --> Pos2[Positive or Inconclusive for Zika virus infection]
      Test2 --> Neg2[Negative for Zika virus infection]
      Pos2 --> Ultrasounds2[Consider serial fetal ultrasounds]
      Neg2 --> Care2["Fetal ultrasound at 18-20 weeks of gestation  
Test for Zika virus infection mid-2nd trimester"]
      Care2 --> Abn3["Fetal abnormalities consistent with Zika virus disease*, or  
Positive or Inconclusive test result for Zika virus infection"]
      Care2 --> NoAbn["No fetal abnormalities consistent with Zika virus disease* and  
Negative test result for Zika virus infection"]
      Abn3 --> Ultrasounds3[Consider serial fetal ultrasounds]
      NoAbn --> Care3[Routine prenatal care  
Consider an additional fetal ultrasound]
      Care3 --> Abn4[Fetal abnormalities consistent with Zika virus disease*, consider retest for Zika virus infection]
  
```

¹Local health officials determine when to implement testing of asymptomatic pregnant women based on information about levels of Zika virus transmission and laboratory capacity.

²Clinical illness is consistent with Zika virus disease if one or more signs/ symptoms (acute onset of fever, rash, arthralgia, or conjunctivitis) are present: <http://www.cdc.gov/zika/symptoms/index.html>

³Petersen EE, Polen K, Meaney-Delman D, et al. Update: Interim Guidance for Health Care Providers Caring for Women of Reproductive Age with Possible Zika Virus Exposure—United States, 2016. *MMWR*. 25 March 2016.

⁴Fetal abnormalities consistent with Zika virus disease include microcephaly, intracranial calcifications, and brain and eye abnormalities. Fetal ultrasounds might not detect abnormalities until late second or early third trimester of pregnancy.

Updated Interim Guidelines and other resources for healthcare providers available at <http://www.cdc.gov/zika/hc-providers/index.html>

www.cdc.gov/zika



U.S. Department of Health and Human Services
Centers for Disease Control and Prevention

CS263584-B April 5, 2016

CDC Web Resources on Zika Virus Disease

Clinician Outreach and Communication Activity (COCA)

URL: <http://emergency.cdc.gov/coca/calls/2016/index.asp>

The screenshot shows a web browser window displaying the CDC website. The address bar shows the URL: <http://emergency.cdc.gov/coca/calls/2016/index.asp>. The page header includes the CDC logo and the text "Centers for Disease Control and Prevention" with the tagline "CDC 24/7: Saving Lives. Protecting People™". A search bar is located in the top right corner. Below the header, there is a green navigation bar with the text "Emergency Preparedness and Response". On the left side, there is a sidebar menu with various categories, including "Clinician Resources", "About COCA", "COCA Partners", "COCA Calls/Webinars", "Calls/Webinars - 2016", "May 12", "April 12", "Synthetic Cannabinoids", "Flu Activity 2015-2016", "Heart Attacks and Strokes", "Zika Virus", "Zika Virus Update", "Calls/Webinars - 2015", "Calls/Webinars - 2014", "Continuing Education for COCA Calls/Webinars", "Updates & Reminders", "Join the COCA Mailing List", "Conference and Training Opportunities", and "Training Resources". The main content area displays the title "2016 COCA Calls/Webinars Information, Summaries, & Slide Sets" and lists several resources with their titles, dates, and speakers. The resources are: 1. "Drivers of Infectious Diseases: Connections Matter" on Thursday, May 12, 2016, by William B. Karesh, DVM, Executive Vice President, Health & Policy, EcoHealth Alliance. 2. "Updated Interim Zika Clinical Guidance for Reproductive Age Women and Men, Sexual Transmission of Zika, and the U.S. Zika Pregnancy Registry" on Tuesday, April 12, 2016, by Christine K. Olson, MD, MPH, Medical Officer, Division of Reproductive Health, National Center for Chronic Disease Prevention and Health Promotion, Centers for Disease Control and Prevention. 3. "Synthetic Cannabinoids: Information and Guidance for Clinicians" by Jefferson M. Jones MD MPH, EIS Officer, Division Of Scientific Education And Professional Development, Center For Surveillance, Epidemiology And Laboratory Services, Centers for Disease Control and Prevention. 4. "Synthetic Cannabinoids: Information and Guidance for Clinicians" by John T. Brooks, MD, Senior Medical Advisor, Division of HIV/AIDS Prevention, National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention, Centers for Disease Control and Prevention. There are also social media icons for Facebook, Twitter, and a plus sign for more options. A "Connect with COCA" button is located at the bottom left of the main content area.

Centers for Disease Control and Prevention
CDC 24/7: Saving Lives. Protecting People™

SEARCH

CDC A-Z INDEX

Emergency Preparedness and Response

[Resources for Emergency Health Professionals](#) > [Clinician Resources](#) > [COCA Calls/Webinars](#) > [Calls/Webinars - 2016](#)

2016 COCA Calls/Webinars Information, Summaries, & Slide Sets

[f](#) [t](#) [+](#)

Title: [Drivers of Infectious Diseases: Connections Matter](#)

Date: Thursday, May 12, 2016

Speaker(s): William B. Karesh, DVM
Executive Vice President, Health & Policy
EcoHealth Alliance

Title: [Updated Interim Zika Clinical Guidance for Reproductive Age Women and Men, Sexual Transmission of Zika, and the U.S. Zika Pregnancy Registry](#)

Date: Tuesday, April 12, 2016

Speaker(s): Christine K. Olson, MD, MPH
Medical Officer
Division of Reproductive Health
National Center for Chronic Disease Prevention and Health Promotion
Centers for Disease Control and Prevention

Speaker(s): Jefferson M. Jones MD MPH
EIS Officer
Division Of Scientific Education And Professional Development
Center For Surveillance, Epidemiology And Laboratory Services
Centers for Disease Control and Prevention

Speaker(s): John T. Brooks, MD
Senior Medical Advisor
Division of HIV/AIDS Prevention
National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention
Centers for Disease Control and Prevention

Title: [Synthetic Cannabinoids: Information and Guidance for Clinicians](#)

Connect with COCA

Agenda

- **Introduction-Jim Daniel**
- **Panel Discussion-Jim Daniel**
- **Audience Questions and Discussion – Jim Daniel**

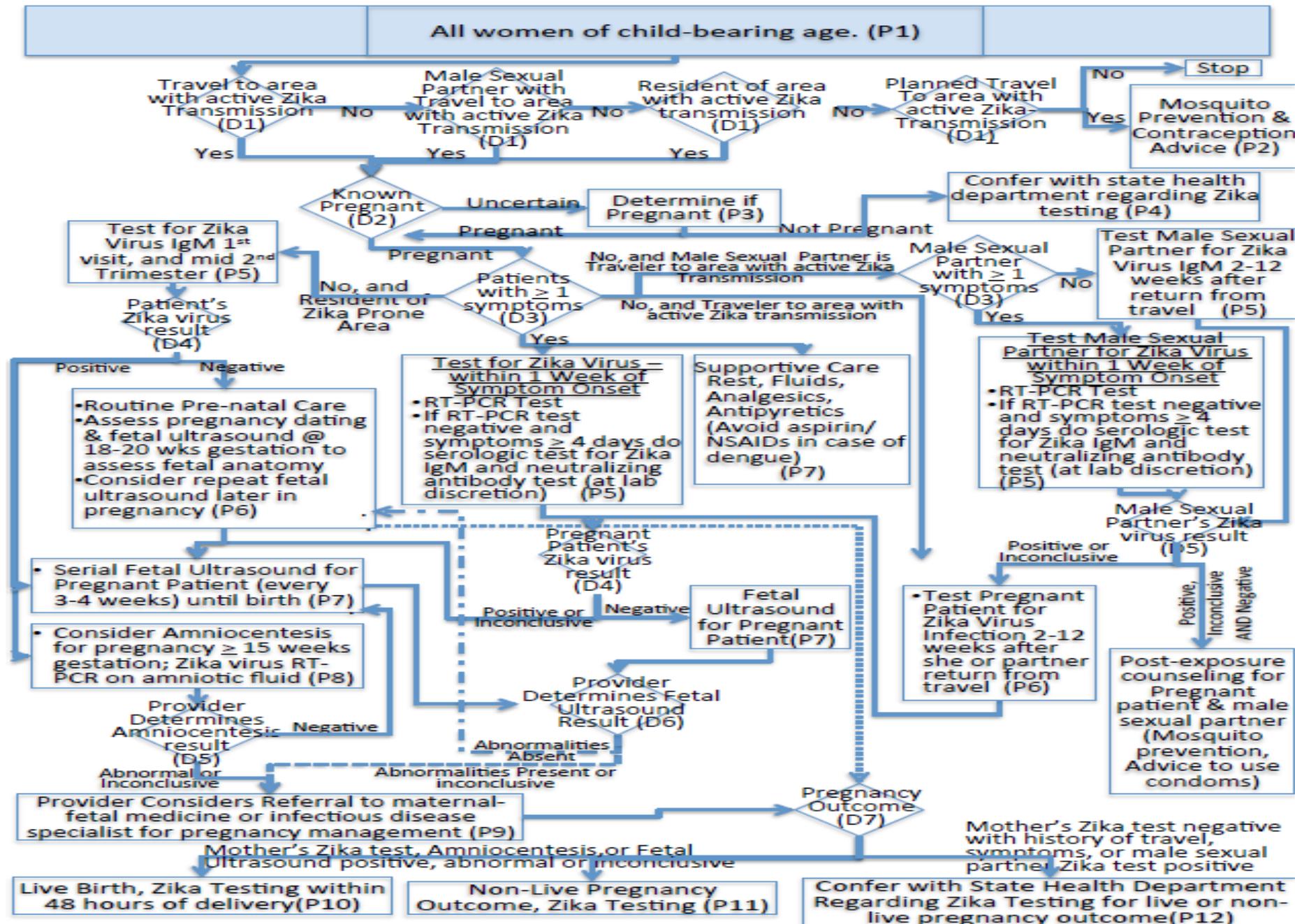
- Jim Daniel, MPH, Public Health Coordinator at the Office of the National Coordinator for Health IT

Customized Links for Zika Virus Disease

Topic area	Description of information needed
1. Areas with active Zika transmission	Areas of known Zika virus transmission. http://www.cdc.gov/zika/geo/index.html
2. Travel and Mosquito Prevention Advice	a. Advice for patients about how to avoid Mosquito bites. http://www.cdc.gov/zika/prevention/index.html b. Advice for patients about which mosquito repellants are effective and safe to use in pregnancy. [Currently: Find the EPA registered insect repellent. CDC vocabulary team is collaborating with EPA to identify pregnancy safe insect repellent search in EPA site. (DEET, IR3535 and <u>Picaridin</u> are safe during pregnancy as referenced in the CDC interim guideline)] https://www.epa.gov/insect-repellents/find-insect-repellent-right-you
3. Prevention of Sexual Transmission of Zika Virus	The most current interim guidelines for prevention of sexual transmission of Zika virus. http://www.cdc.gov/zika/transmission/index.html http://www.cdc.gov/mmwr/volumes/65/wr/mm6512e3.htm
4. Signs and Symptoms of Zika virus disease.	Signs and Symptoms of Zika virus disease and information about how a clinician might differentiate Zika virus infection from other similar infections. http://www.cdc.gov/zika/symptoms/index.html
5. Possible association between Zika virus infection and microcephaly	Known information about association between Zika virus infection and microcephaly and other known complications. http://www.cdc.gov/ncbddd/birthdefects/microcephaly.html
6. Zika Virus Diagnostic Testing	Explanation of diagnostic tests for Zika virus and which to use based on the patient's clinical and exposure history. http://www.cdc.gov/zika/hc-providers/diagnostic.html
7. Zika virus diagnostic guidance for State Public Health Labs	Guidance for Zika virus testing for the State Public Health Laboratory (Less relevant for clinicians directly). http://www.cdc.gov/zika/public-health-partners/risk-based-prep.html

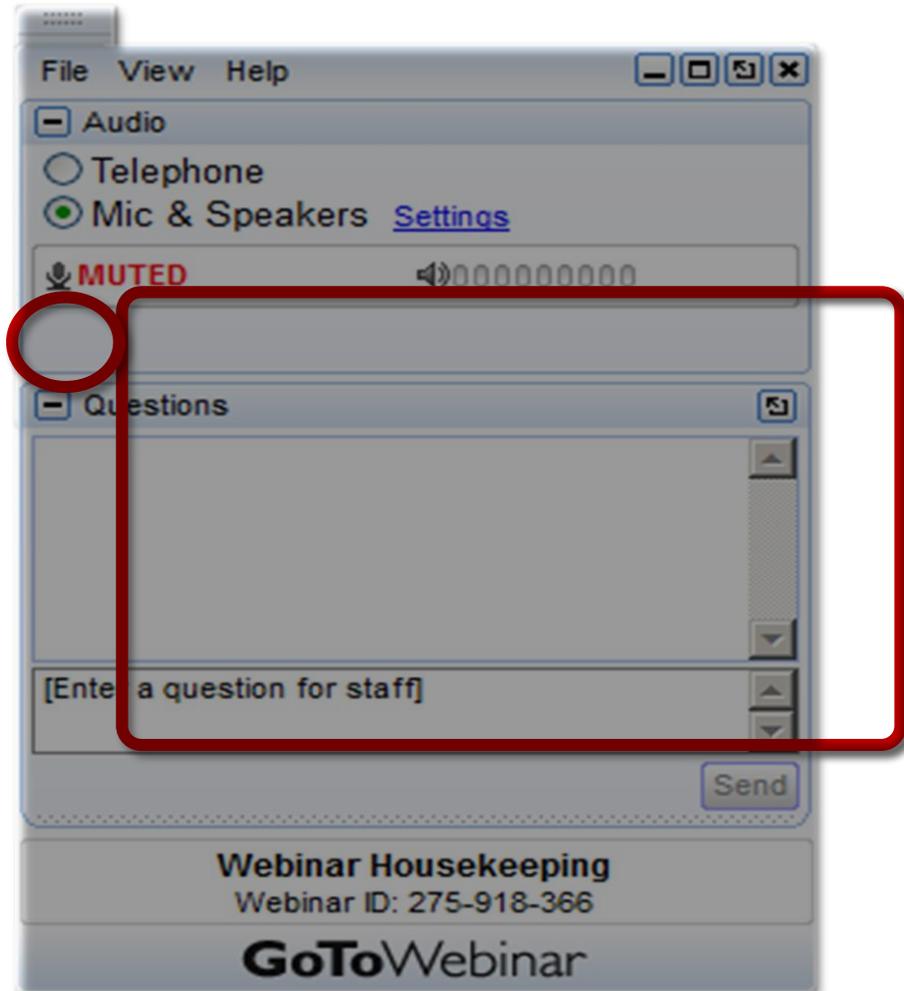
March 23, 2016

Update Zika Virus Algorithm: Draft.



Question and Answer Session

How to submit or ask questions for the panel members?



Submit or Ask Questions

- Submit your text question and comments using the Question Panel
- Please raise your hand to be unmuted for verbal questions.

CDC EHR Meaningful Use webpage-Public Health – EHR Vendors Collaboration Initiative

URL: <http://www.cdc.gov/ehrmeaningfuluse/public-health-ehr-vendors-collaboration-initiative.html>

The screenshot shows a web browser window displaying the CDC website. The address bar shows the URL: <http://www.cdc.gov/ehrmeaningfuluse/public-health-ehr-vendors-collab>. The page header includes the CDC logo, the text "Centers for Disease Control and Prevention CDC 24/7: Saving Lives, Protecting People™", a search bar, and a "CDC A-Z INDEX" dropdown menu.

The main content area is titled "Meaningful Use" and features a navigation sidebar on the left. The sidebar includes links for "Meaningful Use", "Introduction", "Calendar", "Joint PH Forum & CDC Nationwide", "Connect with Others", "CDC Meaningful Use ListServ", "Meaningful Use Community", "Public Health – EHR Vendors Collaboration Initiative", "Joint Public Health Forum & CDC Nationwide", "Meaningful Use (MU) Public Health (PH) Reporting Requirements Task Force", "ELR Task Force", and "Jurisdiction Meaningful Use Websites".

The main content area features a large banner image with the text "Meaningful Use" overlaid. The banner image shows a hand holding a smartphone, a word cloud with terms like "EHR", "incentive", "payment", "eligible", "Medicaid", and "hospital", and a group of healthcare professionals. Below the banner, the breadcrumb trail reads: "CDC > Meaningful Use > Connect with Others > Meaningful Use Community".

The main heading is "Public Health – EHR Vendors Collaboration Initiative", followed by social media icons for Facebook, Twitter, and a plus sign. Below this is the "Community Profile" section, which states: "The Centers for Disease Control & Prevention in collaboration with the Office of the National Coordinator for Health IT (ONC) lead the Public Health (PH) - Electronic Health Records (EHR) Vendors Collaboration Initiative. The initial focus of this initiative is on meeting Stage 1 and 2 Meaningful Use public health objectives. Public Health Practitioners and EHR Vendors from across the nation are participating in this initiative." It also provides contact information: "If you are interested in joining this initiative, please follow the instructions provided below to register for these monthly webinars. If you want to submit an issue/question, please send an email to meaningfuluse@cdc.gov and include 'Public Health - EHR Vendor Collaboration Initiative' in the subject line".

The "Meeting Materials and Schedule" section is partially visible, with the sub-heading "Meeting Schedule".