Centers for Disease Control and Prevention

CDC Zika IMS Sustaining the Zika Response in 2017
Vector Issues Team
Tuesday, March 28, 2017

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Research Entomologist
Division of Vector-Borne Diseases
Opening Remarks
OVERVIEW

- Opening Remarks
- Updates to Zika Guidance
- Q&As
- Closing Remarks
CONUS Vector Control Activities
Preparation – Plan of Action

- Key partners identified?
- Lines of communication worked out?
- Public-facing material developed?
- Workforce trained?
- Plan exercised?
- Prior knowledge of species distribution, abundance, and resistance status?
- Have you identified resources?

Preparation – AMCA Training

• New Best Management Practices
• Master Trainers
• 10 Regional “Train the trainers” events
• Web-based training and certification in development
• Visit www.mosquito.org for more information

Source: www.mosquito.org
Suspected and Confirmed Cases

- Initiate vector control within 150m radius of case
- The same integrated approach is used for 1 case, a small cluster, and widespread cases
- Intensity of control and geographic scale will vary based on the situation and may change over time

Surveillance

• First wave of ELC money to support surveillance went out in early August 2016, supplemental funds in December 2016
• MosquitoNet beta tested in Nov/Dec 2016
• January 2017, started enrolling users
• Repeated survey of distribution of Stegomyia species in Dec

Source: https://wwwn.cdc.gov/Arbonet/MosquitoNET/
Surveillance

- ELC funds were distributed to develop or enhance mosquito vector surveillance and insecticide resistance testing
- Data compiled will be used to:
  - Develop more accurate knowledge of where and during what time of the year *Ae. aegypti* and *Ae. albopictus* occur in the United States and are most abundant
  - Define the extent of insecticide resistance of Zika virus mosquito vectors throughout the United States

Aedes aegypti

- 38 new county records since spring survey, primarily from Texas
- Illinois and Alabama added their first county records
- Represents a 21% increase in reported counties
- 40 counties added additional year records
Aedes albopictus

• 127 new counties since spring survey, primarily from Kansas, Texas, Mississippi, Arkansas

• Represents a 10% increase

• 183 counties have added additional year data.
Mosquito Surveillance in Texas – a ELC Funding at Work

- Based on data from 2000-2016, 141 counties in Texas have documented the presence of one or both *Stegomyia* species (*Ae. aegypti* and *Ae. albopictus*):
  - 65 counties have documented the presence of both species
  - 55 counties have documented the presence of *Ae. albopictus* only
  - 21 counties have documented the presence of *Ae. aegypti* only

- *Stegomyia* surveillance project participants added species documentation to 56 counties in 2016.
Insecticide Resistance

• Widespread but focal problem
• Not well documented across United States
• Starting with easiest, most basic test for mosquito control districts to adopt: CDC bottle bioassay

Vector Control Activities

- Trap and equipment purchases
- Chemical purchases
- Supplemental contracts
- Entomologic expertise

Photos courtesy of Ed Freytag, City of New Orleans Mosquito & Termite Control Board
Questions/Discussion
Closing Remarks
<table>
<thead>
<tr>
<th>Team</th>
<th>Date/Time/Location</th>
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<tbody>
<tr>
<td>Laboratory Task Force</td>
<td>Wed 3/15/2017 / 2pm–3pm EDT - Domestic</td>
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<td>Eddie Ades, Robert Lanciotti, Christy Ottendorfer</td>
<td>Wed 3/15/2017 / 5 pm–6 pm EDT - Islands</td>
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<td>Joint Information Center/Communications</td>
<td>Wed 3/22/2017 / 2pm–3pm / Rm 5116</td>
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<td>Cathy Young</td>
<td>Bridge Line: 1(888)972-6716/ Passcode: 6721430</td>
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<td>Epidemiology Task Force</td>
<td>Thurs 3/23/2017 / 2pm–3pm / Rm 5116</td>
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<td>Carolyn Gould, Michael Johansson</td>
<td>Bridge Line: 1(888)972-6716/ Passcode: 6721430</td>
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<tr>
<td>Vector Issues Team</td>
<td>Tues 3/28/2017 / 2pm–3pm / Rm 5116</td>
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<tr>
<td>Janet McAllister</td>
<td>Bridge Line: 1(888)972-6716/ Passcode: 6721430</td>
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<tr>
<td>Policy and Partnerships</td>
<td>Wed 3/29/2017 / 1:30pm–2:30pm / Rm 5116</td>
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<tr>
<td>Melody Stevens</td>
<td>Bridge Line: 1(888)972-6716/ Passcode: 6721430</td>
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<tr>
<td>Pregnancy and Birth Defects Task Force</td>
<td>Wed 3/29/2017 / 3pm–4pm / Rm 5116</td>
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<td>(including surveillance)</td>
<td>Bridge Line: 1(888)972-6716/ Passcode: 6721430</td>
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<tr>
<td>Dana Meaney-Delman</td>
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<td>Blood Safety Task Force</td>
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<td>Sustainment Strategy Discussions</td>
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<td>Koo Chung, Matt Kuhnert, Craig Hooper</td>
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<td>Medical Investigations Team</td>
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<td>Sustainment Strategy Discussions</td>
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<td>Maleeka Glover</td>
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Thank You!

For more information, contact CDC
1-800-CDC-INFO (232-4636)

The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.