Orange County, Florida
Mosquito Control
Kelly Deutsch
Manager, Mosquito Control
Health Services Department
Presentation Overview

- Mosquito Control Overview
- Zika Update & Response Plans
- Challenges
- Summary
Mosquito Control Overview

- 29 Full Time Personnel
  - Seasonal employees added as needed

- 26 vehicles on the road performing various functions
  - Scheduled and unscheduled site visits
  - Setting and collecting traps
  - Removing artificial habitats
  - Applying control materials
2016 Local Transmission

- Miami-Dade County
- First travel warning from within continental USA
- Total of 272 cases
- Significant impact on local economy
- Aggressive Mosquito Control operation
- Outbreak controlled quickly
### Zika Update & Response

<table>
<thead>
<tr>
<th>Florida (Statewide)</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Travel-Related Infections of Zika</strong></td>
<td>1,122</td>
<td>155</td>
</tr>
<tr>
<td><strong>Locally Acquired Infections of Zika</strong></td>
<td>296</td>
<td>1</td>
</tr>
<tr>
<td><strong>Undetermined</strong></td>
<td>49</td>
<td>32</td>
</tr>
<tr>
<td><strong>Pregnant with Lab-Evidence of Zika</strong></td>
<td>299</td>
<td>103</td>
</tr>
<tr>
<td><strong>Babies Born with Congenital Zika Syndrome</strong></td>
<td>4</td>
<td>3</td>
</tr>
</tbody>
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### OC Mosquito Control Zika Activity

<table>
<thead>
<tr>
<th></th>
<th>2016</th>
<th>2017</th>
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</thead>
<tbody>
<tr>
<td><strong>Suspect cases of Zika</strong></td>
<td>797</td>
<td>623*</td>
</tr>
<tr>
<td><strong>Number of Properties Visited</strong></td>
<td>79,700</td>
<td>34,000</td>
</tr>
<tr>
<td><strong>Confirmed Zika Cases (Travel related)</strong></td>
<td>167</td>
<td>14</td>
</tr>
<tr>
<td><strong>Confirmed Locally Transmitted Zika</strong></td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Mosquito Tests Positive for Zika</strong></td>
<td>0</td>
<td>0</td>
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</tbody>
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What happens when Zika is SUSPECTED

- Patient suspected to have Zika is seen by a community physician
- Physician orders Zika blood or urine test
- FL-DOH mandatory reporting even before results are back
- FL-DOH notifies OC Mosquito Control of a suspected case
- Location of case provided (no specific address)
What We Do For every SUSPECTED case of Zika

- Crews perform surveillance within 225 feet of location provided by DOH
- Removal of breeding habitats & set traps
- Apply control materials in the area
- Leave door hangers
- Return in 24 hours
- If traps have Aedes mosquitoes, repeat the above and test mosquitoes for Zika
Access to private property is a challenge during surveillance and abatement efforts.
What We’re Doing Now...

- Operations
  - Assessing staffing needs for upcoming season
  - Evaluating new control modalities

- Proactive Communications
  - Mosquito Control has been featured in dozens of media reports
  - OC website has links to education and PSAs regarding Zika
  - Consistent social media outreach
Zika Update & Response

What We’re Doing Now...

- Engagement with Community
  - Education to CFHLA, Private Pest Control, EMS, GOAA, OCPS
- Coordinating with State and Local Public health
- Engagement with Staff
  - Collaboration with HR, Directors and Managers
If Locally Transmitted Case Occurs...

- Orange County Mosquito Control
  - Increase Surveillance & Abatement
  - Utilize Citizen Emergency Response Teams, HOA volunteers, and Medical Reserve Corps for manpower
  - May require additional temporary staffing

- Department of Health
  - Test for Zika among contacts of positive cases
  - Facilitate access to private property
  - Maintain high degree of coordination with County
If Locally Transmitted Case Occurs...

- **Orange County Communications**
  - Organize press releases, PSAs, and media events to inform and engage the community
  - Coordinate messaging with partners in tourism, schools, etc.

- **Orange County Emergency Management**
  - Coordinate with MC to assess resource gaps
  - Liaison with State EOC, FL DOH and CDC
  - Assist in organizing community outreach
Positive cases outside the norm
  – Two positive travel associated cases tested
    PCR positive for WEEKS

Property access issues

Incoming residents from Puerto Rico
  – Significant local transmission in PR
  – Temporary and new permanent residents
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