Vector-borne Surveillance & Control in Galveston County

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Galveston county Health District
Vector-borne Illness

**Mosquito-borne**

- Zika
- West Nile Virus (sentinel chickens, horses and humans)
- Dengue
- Chikungunya
- Malaria
- Eastern Equine Encephalitis (sentinel chickens)
- St. Louis Encephalitis (sentinel chickens)

**Flea and Tick-borne**

- Murine Typhus
- Rocky Mountain spotted fever
- Lyme Disease
Surveillance and Control Measures

• Arbovirus weekly activity reports from DSHS

• Lab reports from NEDDS, Hospitals/Clinics

• Investigative process (symptom onset, exposure, travel etc.)

• Alert Galveston County Mosquito Control or Animal Control
## Mosquito-borne Illness: Human

<table>
<thead>
<tr>
<th>DISEASE</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chikungunya</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>Dengue</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Malaria</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>West Nile Virus</td>
<td>6</td>
<td>0</td>
</tr>
<tr>
<td>Zika</td>
<td>9</td>
<td>0</td>
</tr>
</tbody>
</table>
# Mosquito-borne Illness: Animal

<table>
<thead>
<tr>
<th>Sentinel chickens</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eastern Equine Encephalitis (EEEV)</td>
<td>26</td>
<td>3</td>
</tr>
<tr>
<td>St. Louis Encephalitis (SLEV)</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>West Nile (WNV)</td>
<td>17</td>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Equine</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>West Nile (WNV)</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>
# Flea and Tick-borne Illness

<table>
<thead>
<tr>
<th>DISEASE</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lyme</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>Murine Typhus</td>
<td>2</td>
<td>8</td>
</tr>
<tr>
<td>Rocky Mountain Spotted Fever</td>
<td>2</td>
<td>1</td>
</tr>
</tbody>
</table>
Preventive Measures for Flea and Tick-borne Illness

• Use Environmental Protection (EPA)-registered insect repellent.
• Treat pets for fleas and ticks regularly.
• Apply pesticides outdoors to control fleas and ticks.
• Clean your yard so that rodents, opossums, and stray cats cannot live there.

• Remove any brush or trash, keep the grass mowed, and keep firewood off the ground.
• Do not leave pet food out at night as this attracts other animals.
• Construct fences to discourage unwelcome animals.
• Prevent rodents from living in your house.
Zika Prevention and Response Funding: $613,000

**Galveston County Health District**
GCHD allocated $487,000 towards surveillance and public awareness.
1. “Fight the Bite” campaign
2. Health Communications Specialist
3. Community Outreach Worker
4. Surveillance supplies
5. Prevention kits

**Galveston County Mosquito Control**
GCHD allocated $126,000 for vector control.
1. Handheld foggers
2. Backpack sprayers
3. Chemicals
4. Traps
5. Labor and other items
Fight the Bite

GCHD encourages people to consider the 3D’s when it comes to protection from mosquitoes:

• Defend – Use an EPA-approved insect repellant.
• Dress – Dress in long sleeves and pants when outdoors.
• Drain – Drain standing water around your home (such as flower pots, pet dishes and bird baths) so mosquitos don’t have a place to breed.

*Use of condoms to prevent sexual transmission
PREVENT ZIKA WITH THE 3-Ds

1. Defend
2. Dress
3. Drain

FIGHT THE BITE

gchd.org/zika
ZIPIT

We have assembled a Zika Infection Prevention-Intervention team that consists of representatives from:

- Epidemiology
- Public Health Emergency Preparedness
- Environmental
- Community Health Nursing
- WIC
- STD/HIV

- Compliance
- Public Information Division
- Mosquito Control*
- Nuisance Abatement*
- Emergency Management*

*Non GCHD partners
QUESTIONS?

Galveston County Health District Webpage

http://www.gchd.org
www.gchd.org/zika
www.gchd.org/speaker