La Crosse Encephalitis Cases Reported in West Virginia From 1997 Through 2006

N = 346
Month of Onset of La Crosse Encephalitis Cases Reported in West Virginia From 2003 Through 2006

Number of Cases

Month of Onset

January  February  March  April  May  June  July  August  September  October  November  December

31  26  17  6  0  0  0  1  5  0  0  0

N=86
Average Yearly Age Specific Incidence**
per 100,000 Population
of La Crosse Encephalitis Cases
Reported in West Virginia
From 2003 Through 2006

N=86

**United States Census 2000 data used for incidence calculations
(http://www.census.gov/census2000/states/wv.html)
**Age Group of La Crosse Encephalitis Cases Reported in West Virginia From 2003 Through 2006**

Number of Cases

<table>
<thead>
<tr>
<th>Age Group</th>
<th>Number of Cases</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;1</td>
<td>1</td>
</tr>
<tr>
<td>1 to 4</td>
<td>18</td>
</tr>
<tr>
<td>5 to 14</td>
<td>56</td>
</tr>
<tr>
<td>15 to 24</td>
<td>6</td>
</tr>
<tr>
<td>25 to 34</td>
<td>1</td>
</tr>
<tr>
<td>35 to 44</td>
<td>2</td>
</tr>
<tr>
<td>45 to 54</td>
<td>2</td>
</tr>
<tr>
<td>55 to 64</td>
<td>0</td>
</tr>
<tr>
<td>&gt; 65</td>
<td>0</td>
</tr>
</tbody>
</table>

N=86
Gender of La Crosse Encephalitis Cases Reported in West Virginia From 2003 Through 2006

N=86

- Male: 65%
- Female: 35%
La Crosse in West Virginia
January 2003 - December 2006
(86 Total Cases)

# = Number of La Crosse cases
- 0 Cases
- 1-3 Cases
- 4-10 Cases
- 11-20 Cases
- >20 Cases

WVDHHR/BPH/OEHP/Division of Surveillance and Disease Control/Infectious Disease
Hospitals Treating La Crosse Encephalitis Cases in West Virginia From 2003 Through 2006

Number of Cases

<table>
<thead>
<tr>
<th>Hospital</th>
<th>Number of Cases</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAMC</td>
<td>47</td>
</tr>
<tr>
<td>Raleigh General</td>
<td>16</td>
</tr>
<tr>
<td>Princeton Community Hosp</td>
<td>6</td>
</tr>
<tr>
<td>Ruby Memorial</td>
<td>5</td>
</tr>
<tr>
<td>Missing</td>
<td>4</td>
</tr>
<tr>
<td>Bluefield</td>
<td>2</td>
</tr>
<tr>
<td>Summersville Memorial</td>
<td>2</td>
</tr>
<tr>
<td>Wheeling Hospital</td>
<td>1</td>
</tr>
<tr>
<td>St. Joseph’s</td>
<td>1</td>
</tr>
<tr>
<td>Greenbrier Valley Med Cntr</td>
<td>1</td>
</tr>
<tr>
<td>Cabell Huntington</td>
<td>1</td>
</tr>
</tbody>
</table>

N=86
Environmental Risk Factors
For La Crosse Encephalitis Cases
Reported in West Virginia
From 2003 Through 2006

- Home in or near wooded area (70): 81%
- Hardwood trees (59): 69%
- Evergreen trees (31): 36%
- Poorly drained gutter (14): 16%
- Plastic covers/tarps (24): 28%
- Tires (28): 33%
- Standing water (pools, puddles, ponds) (36): 42%
- Artificial container with standing water (47): 55%

N=86
Clinical Signs of La Crosse Encephalitis Cases Reported in West Virginia From 2003 Through 2006

- Confusion: 29%
- Stiff Neck: 35%
- Seizures: 23%
- Rash: 7%
- Coma: 5%
- Elevated WBC in CSF: 73%
- Elevated CSF protein: 22%

N=86
Clinical Symptoms of La Crosse Encephalitis Cases Reported in West Virginia From 2003 Through 2006

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Headache</td>
<td>83%</td>
</tr>
<tr>
<td>Fever</td>
<td>74%</td>
</tr>
<tr>
<td>Vomiting</td>
<td>74%</td>
</tr>
<tr>
<td>Photophobia</td>
<td>51%</td>
</tr>
<tr>
<td>Nausea</td>
<td>50%</td>
</tr>
<tr>
<td>Weakness</td>
<td>42%</td>
</tr>
<tr>
<td>Myalgia</td>
<td>11%</td>
</tr>
<tr>
<td>Arthalgia</td>
<td>8%</td>
</tr>
</tbody>
</table>

* Temperatures
Mean 102.96    Minimum 101
Median 103     Maximum 105
Clinical Diagnosis for La Crosse Encephalitis Cases Reported in West Virginia From 2003 Through 2006

N=86

- Meningitis: 44%
- Encephalitis: 55%
- Febrile Headache: 1%
Recommendations Made By Local Health Departments to La Crosse Encephalitis Cases Reported in West Virginia From 2003 Through 2006

Recommendations

- No Recommendations: 17%
- Fill ditches: 30%
- Use dunks: 33%
- Maintain swimming pools: 35%
- Clean gutters: 51%
- Drill holes in tires and containers: 55%
- Drain birdbaths and pots: 56%
- Remove tires and containers: 72%
- Long sleeves and long pants: 79%
- Use repellent: 81%

N=86
Completeness of Environmental Investigations of 
La Crosse Encephalitis Cases 
Reported in West Virginia 
From 2003 Through 2006

N=86

92% completeness for environmental investigations for WV
Completeness of GIS Location For La Crosse Encephalitis Cases in West Virginia From 2003 Through 2006

N=86

77% completeness for GIS location reporting in West Virginia