



### Leptospirosis

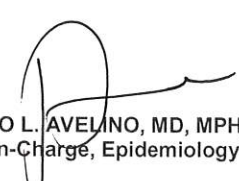



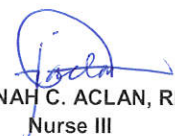
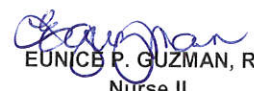
Leptospirosis is a group of zoonotic bacterial diseases with variable manifestations. Disease transmission may be through: contact of skin, especially if abraded, or of mucous membranes with moist soil, vegetation contaminated with urine with infected animals or contaminated water as swimming, wading in flood waters, accidental immersion or occupational abrasion; direct contact with urine or tissues of infected animals.

Table 1. Leptospirosis Cases in the Philippines, 2019\* vs 2018

Region	2019		2018		Percent Change in Cases
	Cases	Deaths	Cases	Deaths	
Philippines	110	10	343	34	↓ 68

### PIDSR Case Definition for Leptospirosis

<b>Suspected Case</b>	<p>A person who developed acute febrile illness with headache, myalgia and prostration associated with any of the following possibly after exposure to infected animals or an environment contaminated with animal urine</p> <ul style="list-style-type: none"><li>• Congunctival suffocation</li><li>• Meningeal irritation</li><li>• Anuria or Oliguria and/ or proteinuria</li><li>• Jaundice</li><li>• Hemorrhages (from intestines or lungs)</li><li>• Cardiac arrhythmia or failure</li><li>• Skin rash</li></ul>
<b>Probable Case</b>	<p>A suspected case in an ongoing epidemic or an environment contaminated with animal urine (e.g. wading in water floods, rice fields, drainage)</p>
<b>Confirmed Case</b>	<p>A suspected case that is laboratory confirmed.</p>

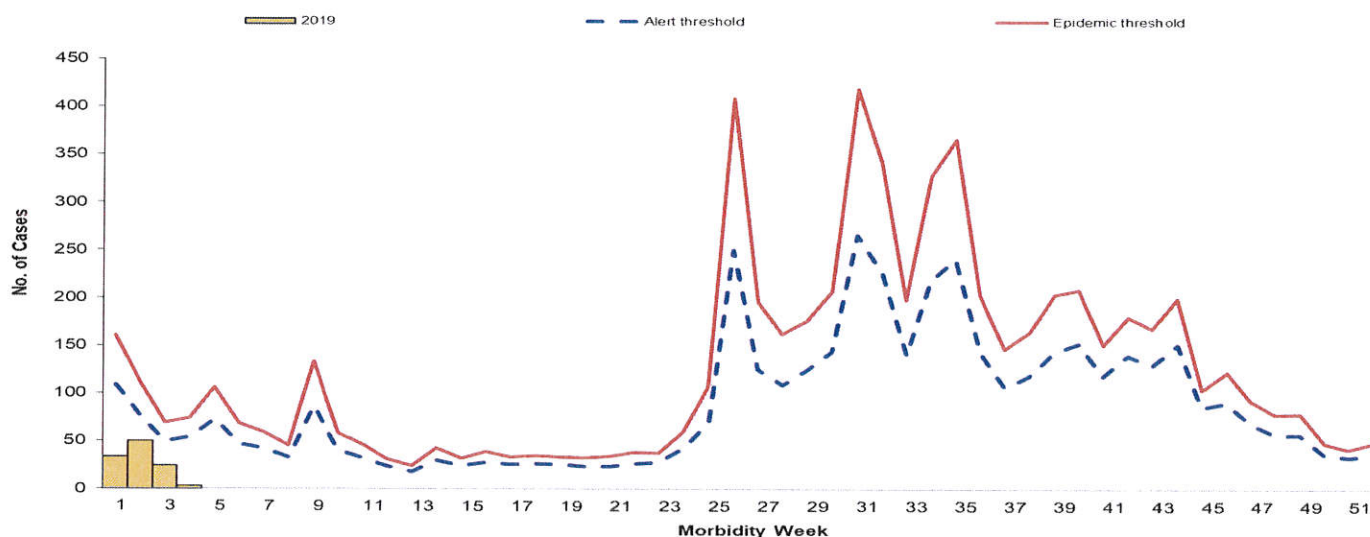
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### I. Trend in the Philippines

A total of **110** leptospirosis cases were reported nationwide from January 1 to January 26, 2019 [Figure 1]. This is **68%** lower compared to the same time period last year (**343**) [Table 2].

**Figure 1. Reported Leptospirosis Cases by Morbidity Week (N=110)**  
 Philippines, January 1 to January 26, 2019 Alert and Epidemic Threshold



### II. Geographic Distribution of Cases

Most of the cases were from the following regions: **NCR** (32, 29%), **REGION V** (23, 21%), **REGION IV-A** (15, 14%), **REGION VI** (13, 12%) and **REGION III** (9, 8%) [Table 2].

**Table 2. Reported Leptospirosis Cases by Region,**  
 Philippines, January 2019\* (N=110) vs. January 2018\*\*

Region	2019		2018		Percent Change in Cases
	Cases	Deaths	Cases	Deaths	
<b>Philippines</b>	<b>110</b>	<b>10</b>	<b>343</b>	<b>34</b>	<b>↓ 68</b>
<b>I</b>	<b>5</b>	<b>2</b>	<b>18</b>	<b>3</b>	<b>↓ 72</b>
<b>II</b>	<b>0</b>	<b>0</b>	<b>22</b>	<b>2</b>	<b>↓100</b>
<b>III</b>	<b>9</b>	<b>0</b>	<b>7</b>	<b>1</b>	<b>↑ 29</b>
<b>IV-A</b>	<b>15</b>	<b>2</b>	<b>11</b>	<b>1</b>	<b>↑ 36</b>
<b>MIMAROPA</b>	<b>1</b>	<b>1</b>	<b>10</b>	<b>1</b>	<b>↓ 90</b>
<b>V</b>	<b>23</b>	<b>1</b>	<b>12</b>	<b>0</b>	<b>↑ 92</b>
<b>VI</b>	<b>13</b>	<b>0</b>	<b>55</b>	<b>9</b>	<b>↓ 76</b>
<b>VII</b>	<b>2</b>	<b>1</b>	<b>11</b>	<b>0</b>	<b>↓ 82</b>
<b>VIII</b>	<b>4</b>	<b>0</b>	<b>19</b>	<b>1</b>	<b>↓ 79</b>
<b>IX</b>	<b>2</b>	<b>0</b>	<b>69</b>	<b>1</b>	<b>↓ 97</b>
<b>X</b>	<b>1</b>	<b>0</b>	<b>9</b>	<b>0</b>	<b>↓ 89</b>
<b>XI</b>	<b>2</b>	<b>1</b>	<b>61</b>	<b>6</b>	<b>↓ 97</b>
<b>XII</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>1</b>	<b>↓100</b>
<b>ARMM</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>1</b>	<b>↓100</b>
<b>CAR</b>	<b>1</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>↓ 83</b>
<b>CARAGA</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>↓100</b>
<b>NCR</b>	<b>32</b>	<b>2</b>	<b>19</b>	<b>7</b>	<b>↑ 68</b>

\*From period of January 1 to January 26, 2019

\*\*From period of January 1 to January 26, 2018

Case counts reported here do NOT represent the final number and are subject to change after inclusion of delayed reports and review of cases.

A PDF file of this report is available at [www.doh.gov.ph/statistics](http://www.doh.gov.ph/statistics).

Percentage Total may not equal to 100 due to rounding-off figures.

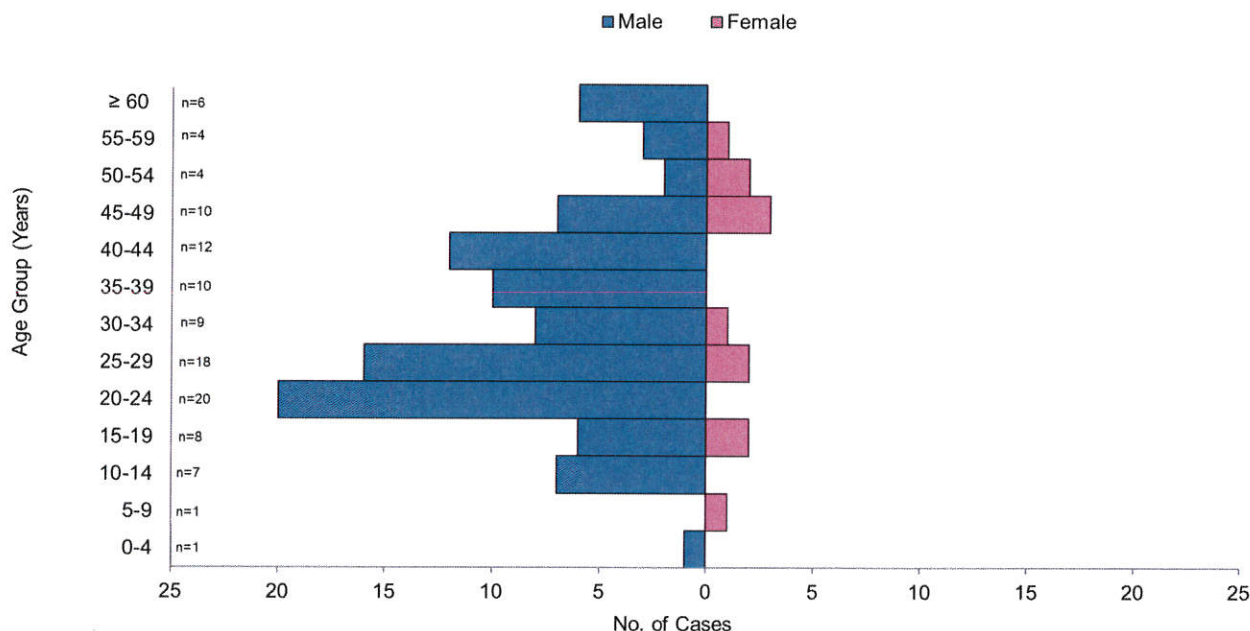




### III. Profile of Cases

Age of cases ranged from 3 years to 74 years (median = 30 years) [Figure 2]. Majority (98, 89%) of cases were male. Most (20, 18%) of the cases belonged to the age group of 20-24 years old. There were 10 deaths (CFR = 9.09%).

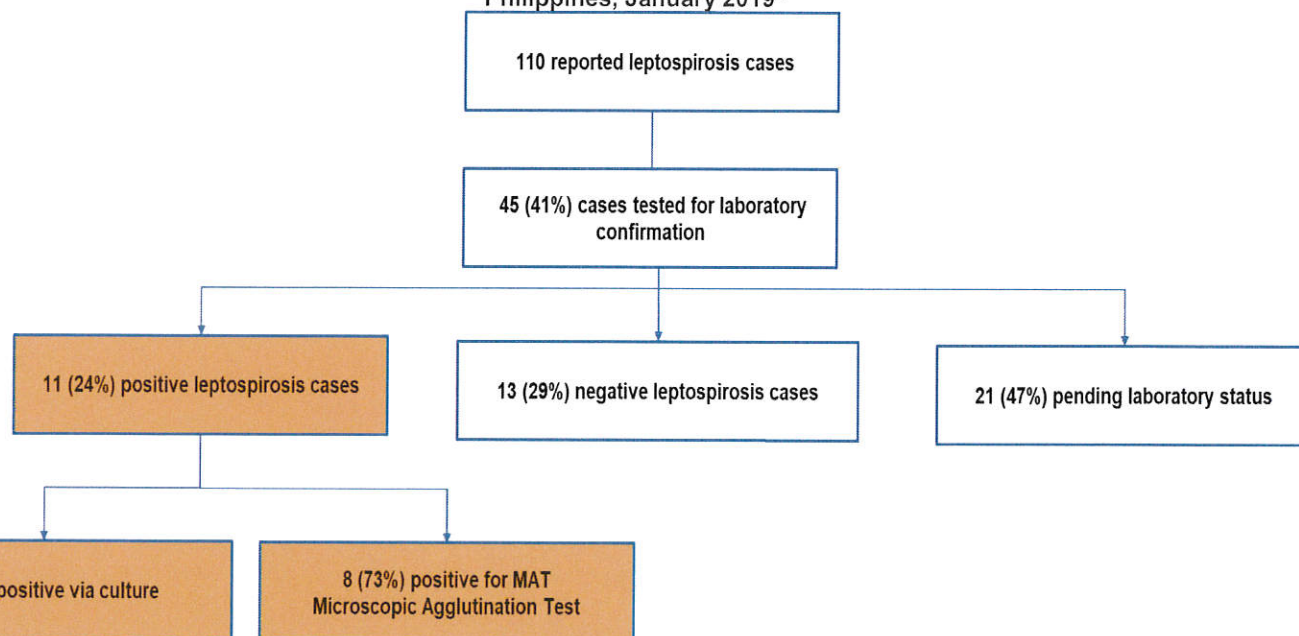
**Figure 2. Reported Leptospirosis Cases by Age Group and Sex (N=110)**  
Philippines, January 2019\*



### IV. Laboratory Status of Leptospirosis Cases

Out of the 110 reported leptospirosis cases, there were 45 cases (41%) tested for laboratory confirmation. Out of the tested, 11 cases (24%) yielded for positive results, 13 cases (29%) yielded negative results, while there were 21 cases (47%) awaiting laboratory results [Figure 3].

**Figure 3. Laboratory Status of Reported Leptospirosis Cases**  
Philippines, January 2019\*



\*From period of January 1 to January 26, 2019

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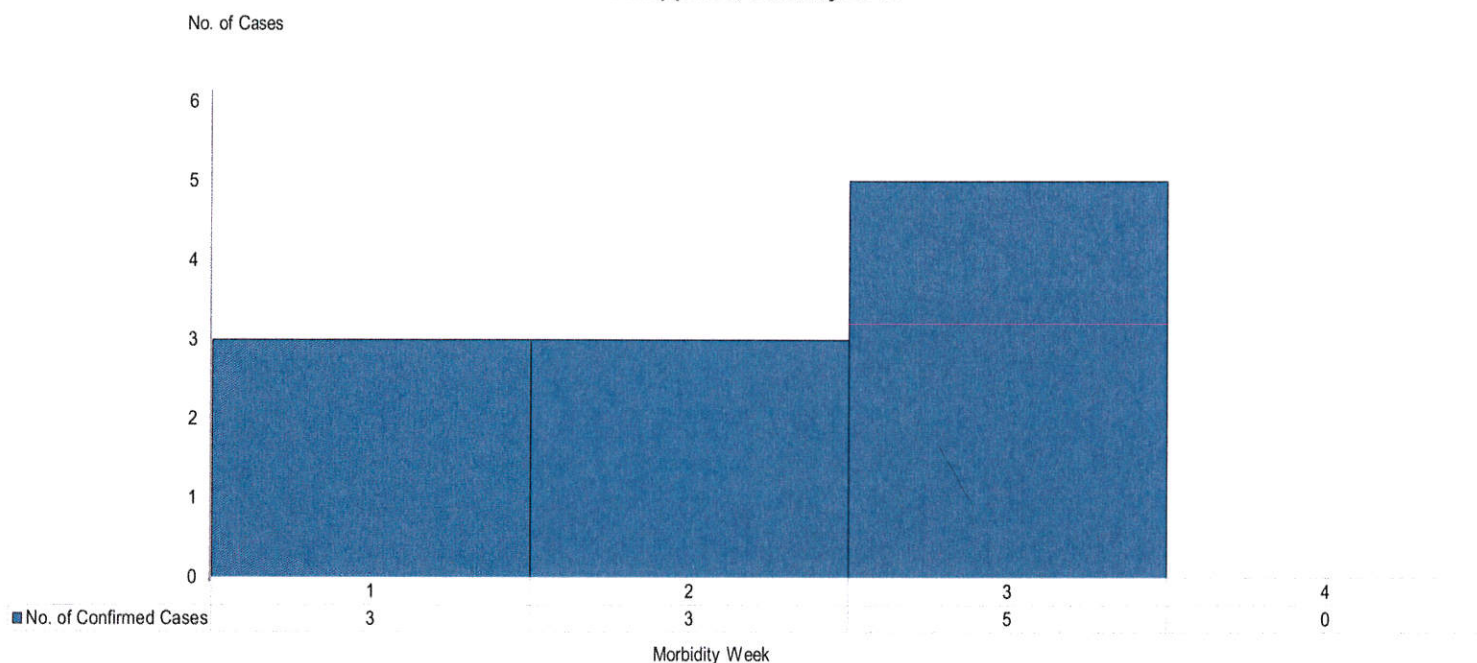
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**V. Profile of Confirmed Leptospirosis Cases**

Out of the 110 reported leptospirosis cases, a total of **11** confirmed leptospirosis cases were reported nationwide from January 1 to January 26, 2019 [Figure 4].

**Figure 4. Confirmed Leptospirosis by Morbidity Week (n=11)**  
 Philippines, January 2019



**VI. Geographic Distribution of Confirmed Leptospirosis Cases**

Most of the confirmed leptospirosis cases were from the following regions: **NCR** (5, 45%) and **REGION IV-A** (3, 27%). No reported deaths among the confirmed leptospirosis cases.

**Table 3. Confirmed Leptospirosis Cases by Region (n=11)**  
 Philippines, January 2019\*

Region	Cases	Deaths	CFR%
<b>PHILIPPINES</b>	<b>11</b>	<b>0</b>	<b>0.00</b>
<b>I</b>	<b>1</b>	<b>0</b>	<b>0.00</b>
<b>IV-A</b>	<b>3</b>	<b>0</b>	<b>0.00</b>
<b>VI</b>	<b>1</b>	<b>0</b>	<b>0.00</b>
<b>VIII</b>	<b>1</b>	<b>0</b>	<b>0.00</b>
<b>NCR</b>	<b>5</b>	<b>0</b>	<b>0.00</b>

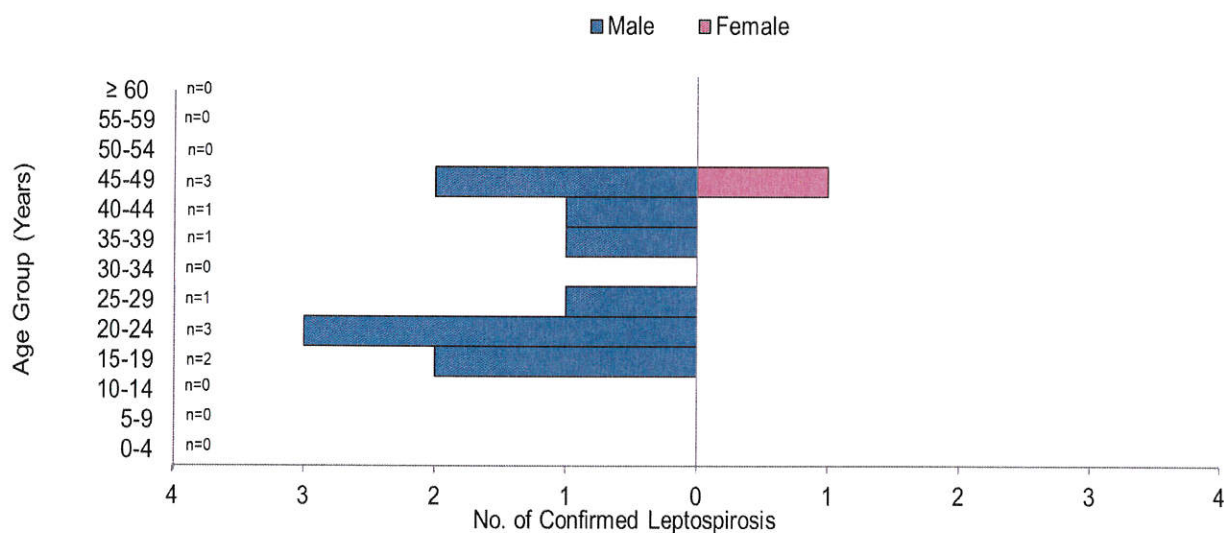
\*From period of January 1 to January 26, 2019



**VII. Sex and Age Group of Confirmed Leptospirosis Cases**

Age of confirmed leptospirosis cases ranged from 16 years to 48 years (median = 25 years). Majority (10, 91%) of confirmed cases were male. Most (6, 54%) of the confirmed leptospirosis cases belonged to the age group of 20-24 years old and 45-49 years old [Figure 5].

**Figure 5. Confirmed Leptospirosis Cases by Age Group and Sex (n=11)**  
Philippines, January 2019\*



\*From period of January 1 to January 26, 2019

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Figures 6-22. Leptospirosis Alert and Epidemic Thresholds per Region as of January, 2019

Fig. 6 Reported Leptospirosis Cases by Morbidity Week  
Region I, as of January 1-January 26, 2019 (n=5)

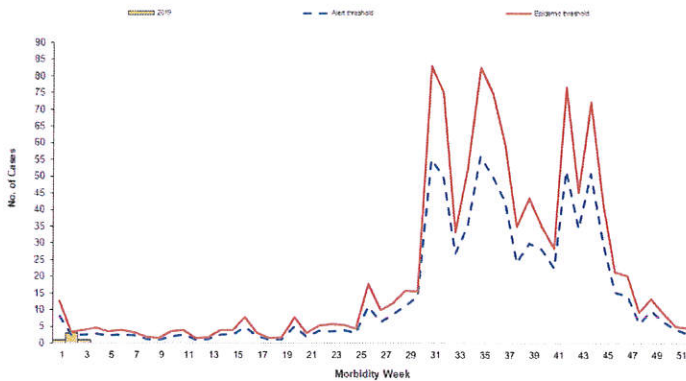


Fig. 7 Reported Leptospirosis Cases by Morbidity Week  
Region II, as of January 1-January 26, 2019 (n=0)

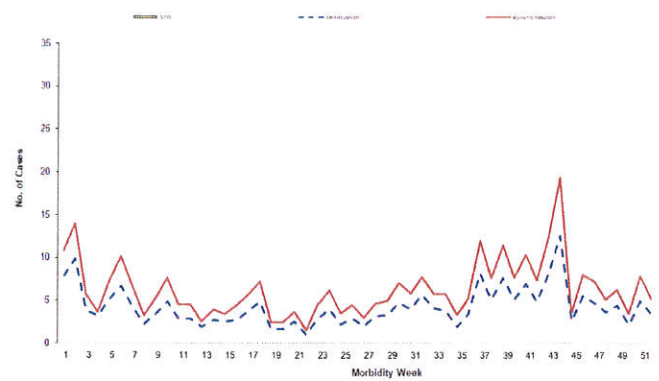


Fig. 8 Reported Leptospirosis Cases by Morbidity Week  
Region III, as of January 1-January 26, 2019 (n=9)

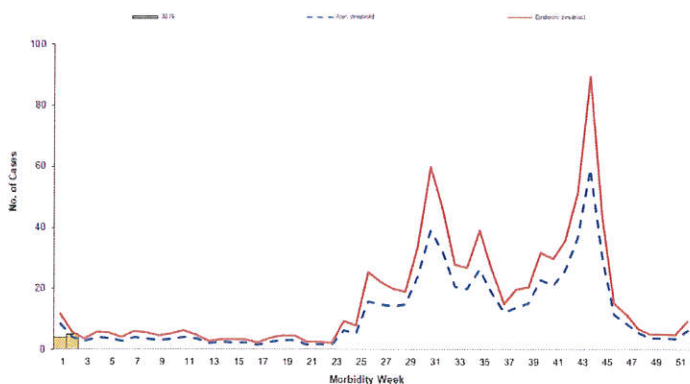


Fig. 9 Reported Leptospirosis Cases by Morbidity Week  
Region IV-A, as of January 1-January 26, 2019 (n=15)

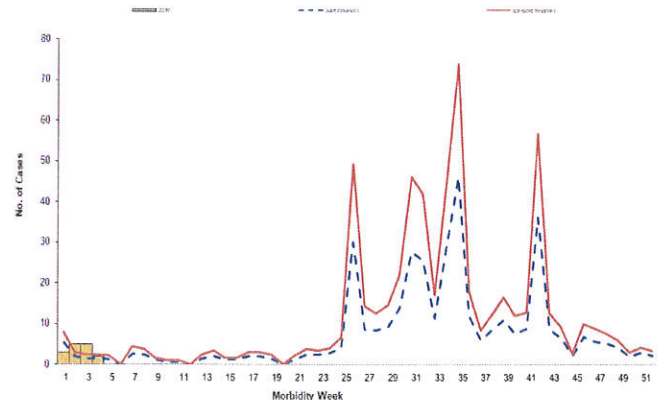


Fig. 10 Reported Leptospirosis Cases by Morbidity Week  
Region MIMAROPA, as of January 1-January 26, 2019 (n=1)

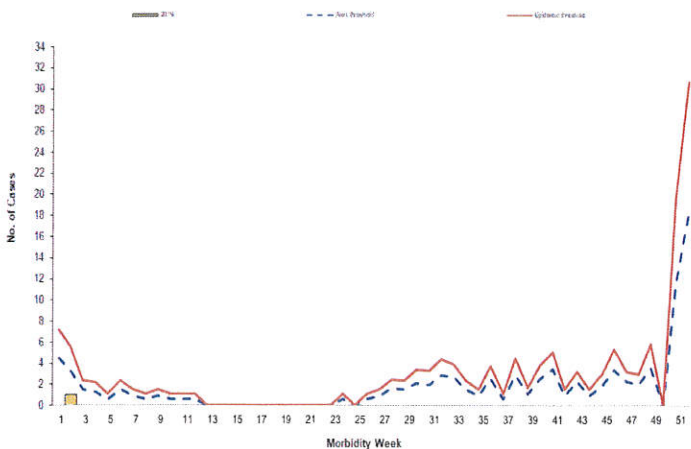
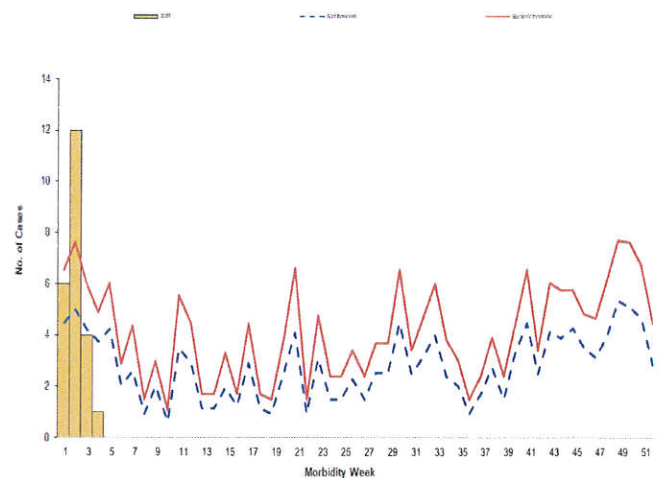


Fig. 11 Reported Leptospirosis Cases by Morbidity Week  
Region V, as of January 1-January 26, 2019 (n=23)



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Figures 6-22. Leptospirosis Alert and Epidemic Thresholds per Region as of January, 2019

Fig. 12 Reported Leptospirosis Cases by Morbidity Week  
Region VI, as of January 1-January 26, 2019 (n=13)

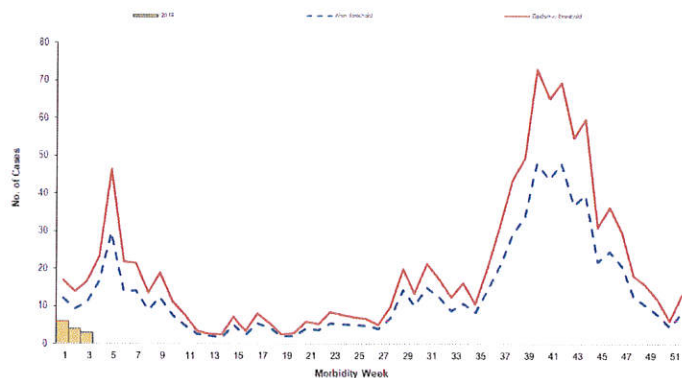


Fig. 13 Reported Leptospirosis Cases by Morbidity Week  
Region VII, as of January 1-January 26, 2019 (n=2)

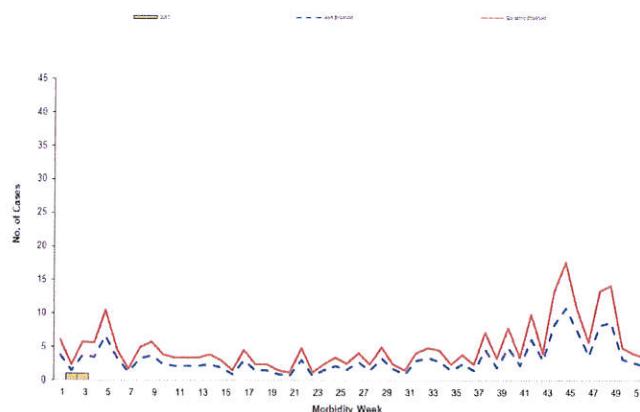


Fig. 14 Reported Leptospirosis Cases by Morbidity Week  
Region VIII, as of January 1-January 26, 2019 (n=4)

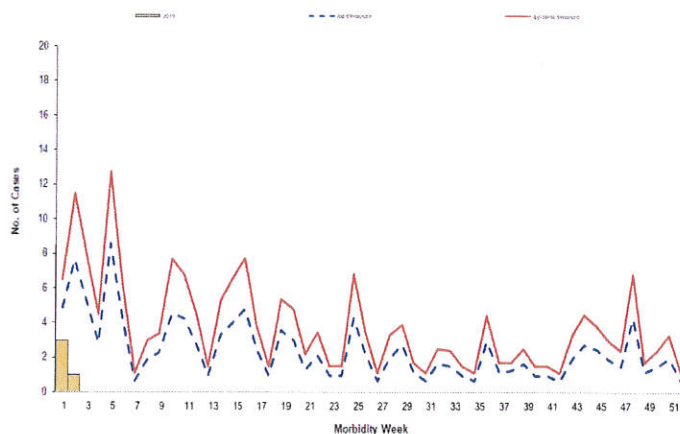


Fig. 15 Reported Leptospirosis Cases by Morbidity Week  
Region IX, as of January 1-January 26, 2019 (n=2)

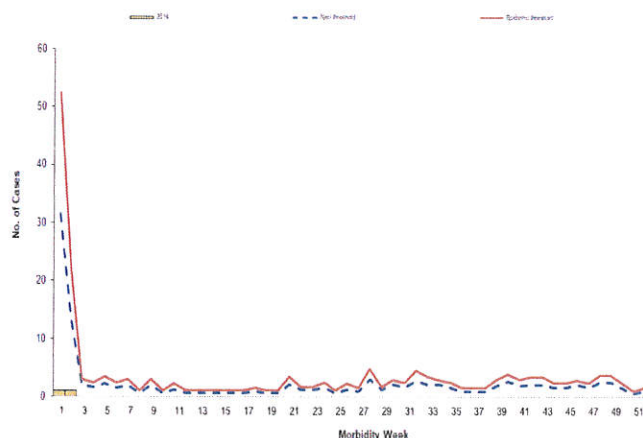


Fig. 16 Reported Leptospirosis Cases by Morbidity Week  
Region X, as of January 1-January 26, 2019 (n=1)

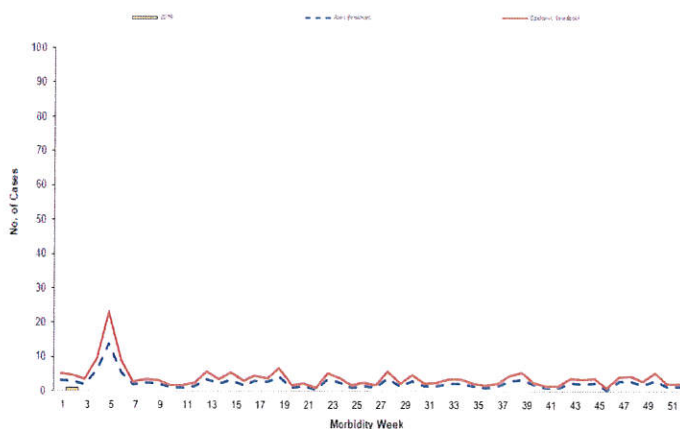
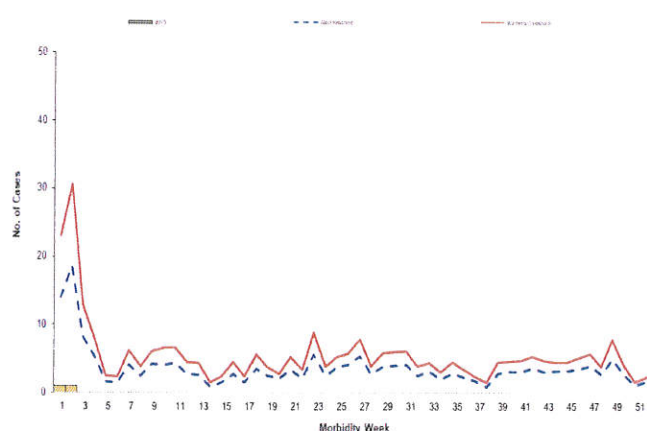


Fig. 17 Reported Leptospirosis Cases by Morbidity Week  
Region XI, as of January 1-January 26, 2019 (n=2)



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Figures 6-22. Leptospirosis Alert and Epidemic Thresholds per Region as of January, 2019

Fig. 18 Reported Leptospirosis Cases by Morbidity Week  
Region XII, as of January 1-January 26, 2019 (n=0)

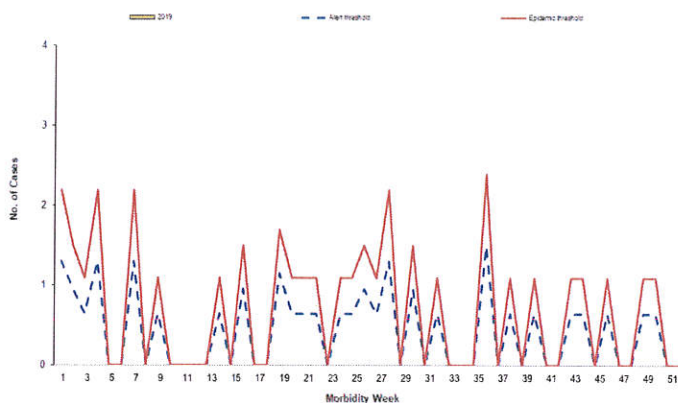


Fig. 19 Reported Leptospirosis Cases by Morbidity Week  
Region ARMM, as of January 1-January 26, 2019 (n=0)

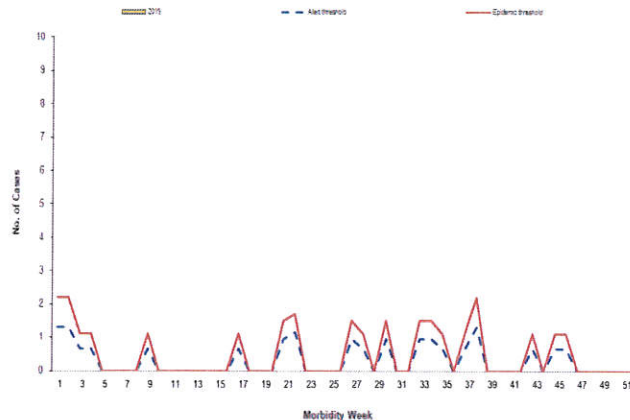


Fig. 20 Reported Leptospirosis Cases by Morbidity Week  
Region CAR, as of January 1-January 26, 2019 (n=1)

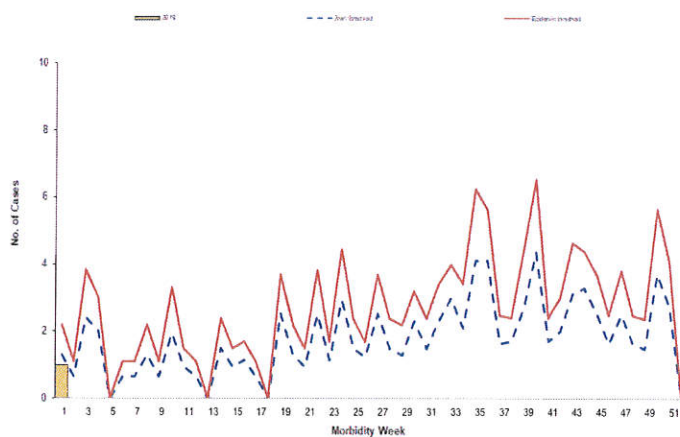


Fig. 21 Reported Leptospirosis Cases by Morbidity Week  
Region CARAGA, as of January 1-January 26, 2019 (n=0)

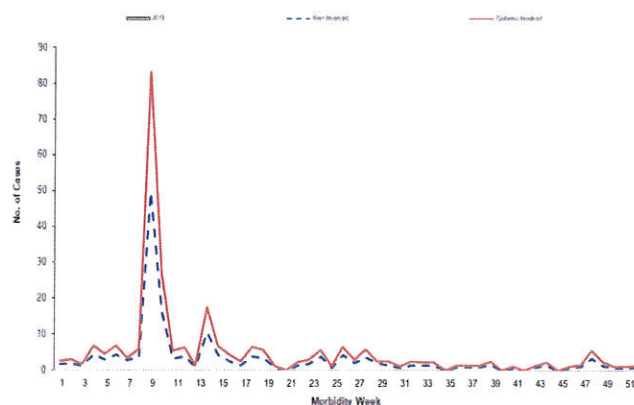
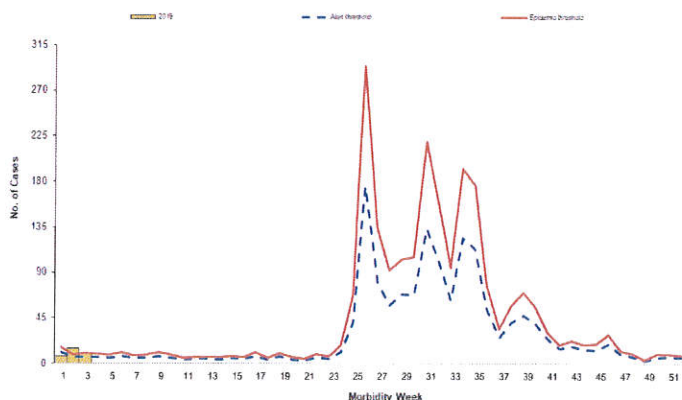


Fig. 22 Reported Leptospirosis Cases by Morbidity Week  
Region NCR, as of January 1-January 26, 2019 (n=32)



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