



Introduction

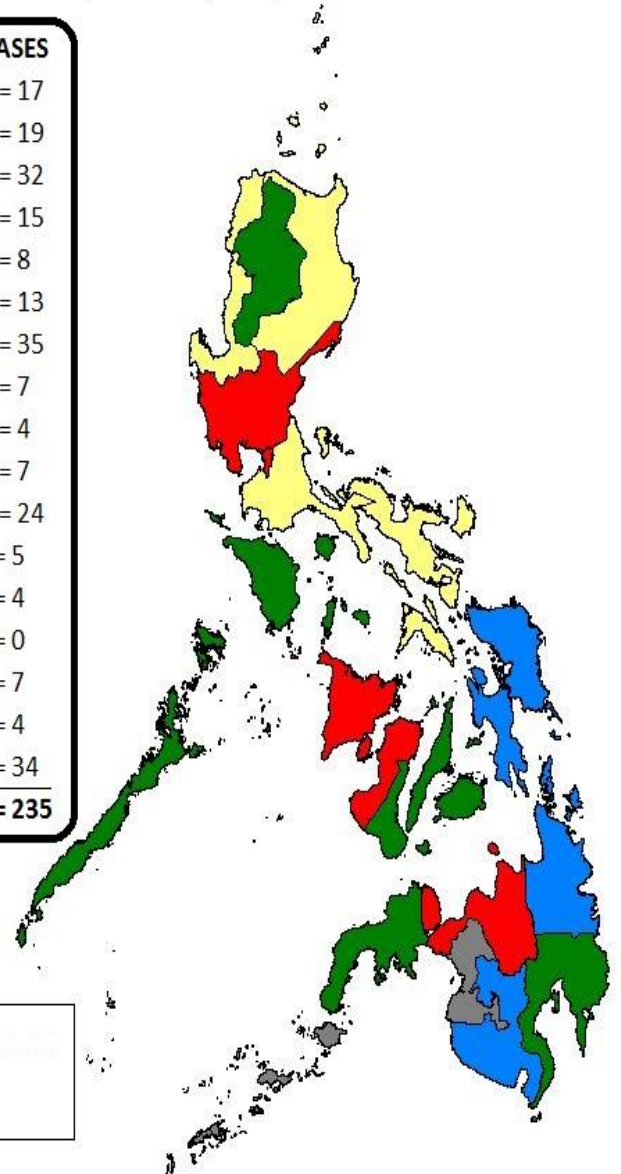
Leptospirosis is a bacterial disease affecting both humans and animals. The early stages of the disease may include high fever, muscle pain, chills, redness in the eyes, abdominal pain, hemorrhages in skin and mucous membranes (including pulmonary bleeding), vomiting, diarrhea and rashes. Some cases may have yellowish body discoloration, dark-colored urine and light stools, low urine output and severe headache.

Caused by pathogenic *Leptospira* species bacteria, human infection occurs through direct contact with urine of infected animals or by contact with a urine-contaminated environment. Leptospire can gain entry through cuts and abrasions in the skin and through mucous membranes of the eyes, nose and mouth.

Leptospirosis has low case fatality rate. However, it increases with advancing age and may reach 20% or more in patients with jaundice and kidney damage (Weil's disease) who have not been treated with renal dialysis. Incubation period of the disease is 7-10 days.

Suspect Leptospirosis Cases MW22

REGION	CASES
Region 1	= 17
Region 2	= 19
Region 3	= 32
Region 4A	= 15
Region 4B	= 8
Region 5	= 13
Region 6	= 35
Region 7	= 7
Region 8	= 4
Region 9	= 7
Region 10	= 24
Region 11	= 5
Region 12	= 4
ARMM	= 0
CAR	= 7
CARAGA	= 4
NCR	= 34
TOTAL	= 235





Morbidity Week 22 : January 1-June 4, 2016

Epidemiology Bureau
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Trend in the Philippines

A total of 235 suspect leptospirosis cases were reported nationwide from January 1 to June 4, 2016. This is **22.4%** lower compared to the same time period last year (**303**).

Fig. 1 Suspected Leptospirosis Cases by Morbidity Week Philippines, as of June 4, 2016

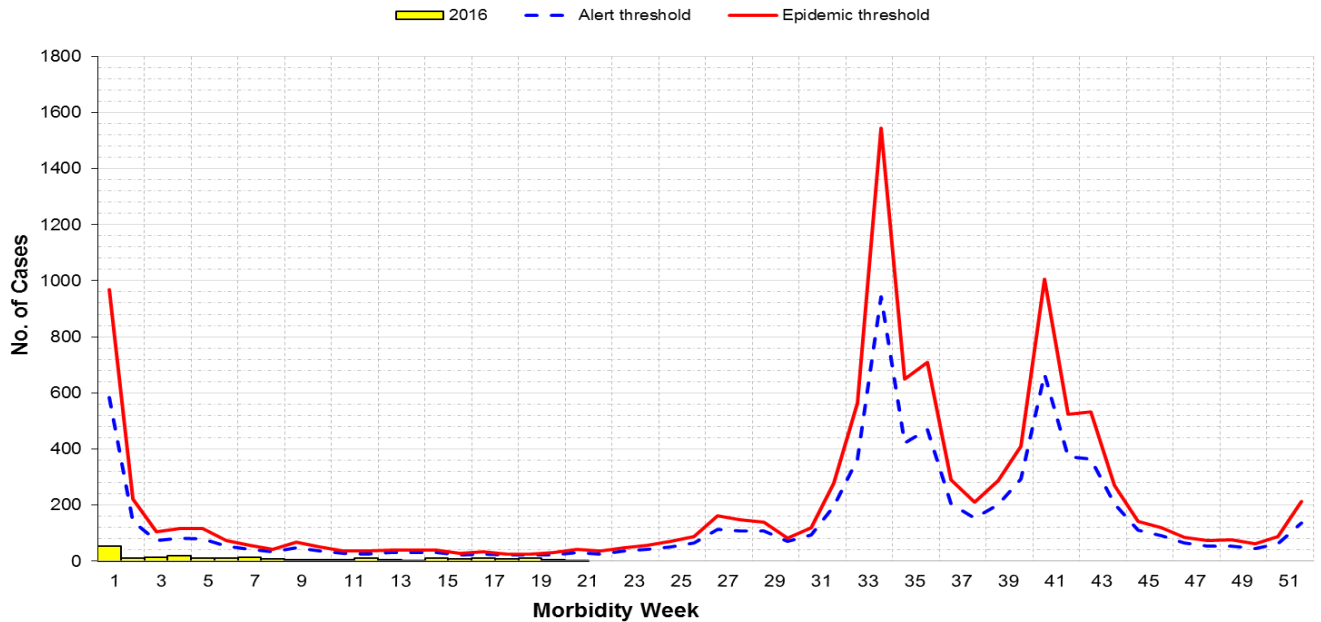
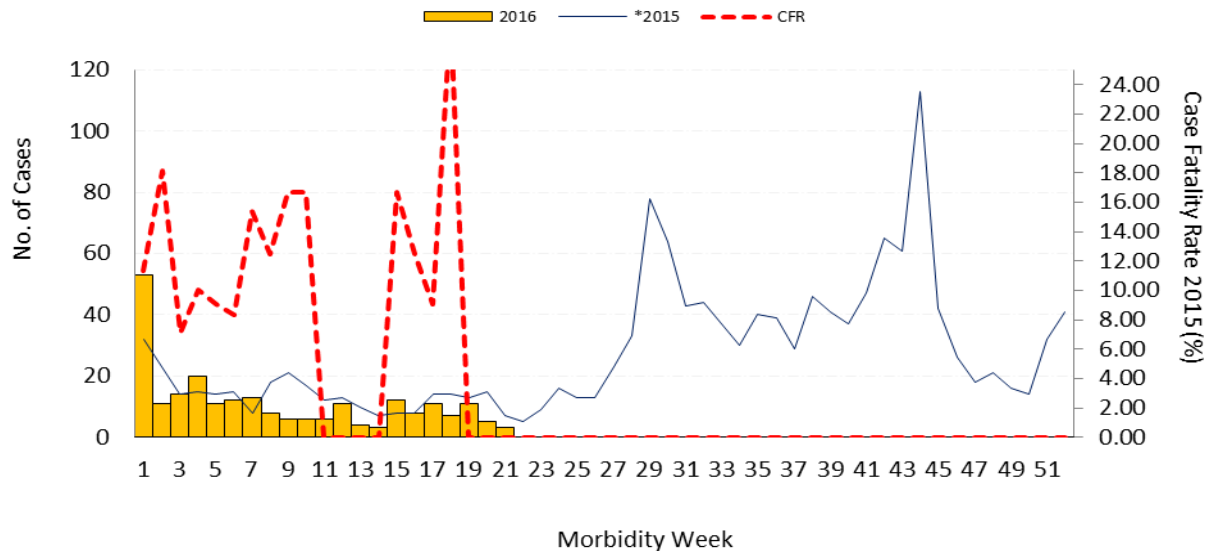


Fig. 2 Suspect Leptospirosis Cases by Morbidity Week, Philippines, as of June 4, 2016 *2016 vs 2015 (N=235)



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



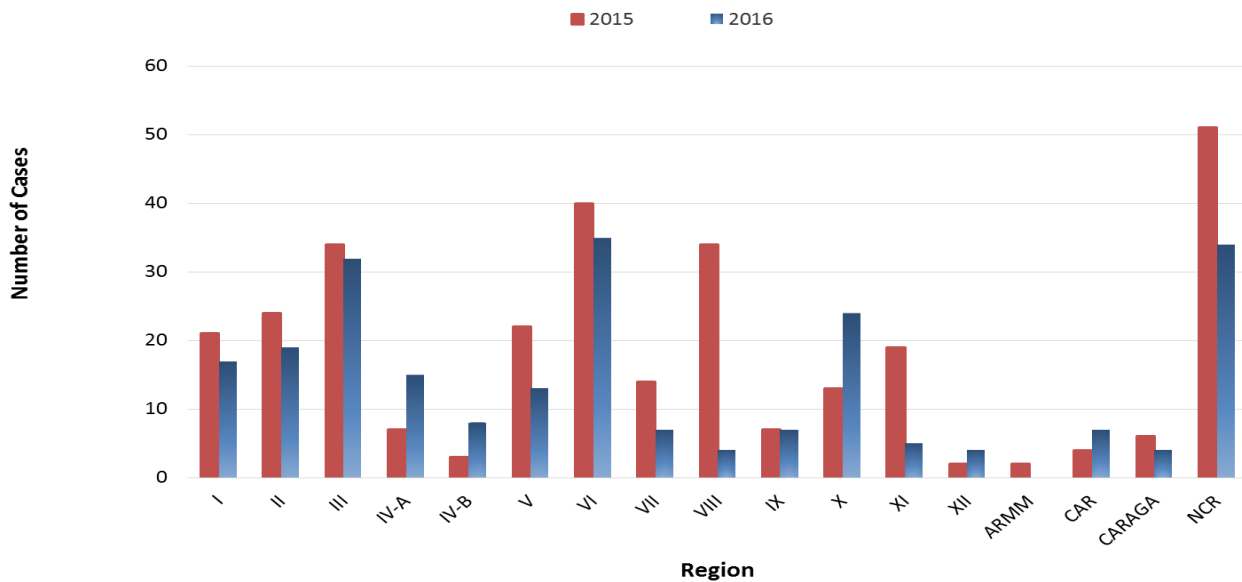
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Geographic Distribution

Most of the cases were from the following regions: **REGION VI** (14.9%), **NCR** (14.5%), **REGION III** (13.6%), **REGION X** (10.2%) and **REGION II** (8.1%).

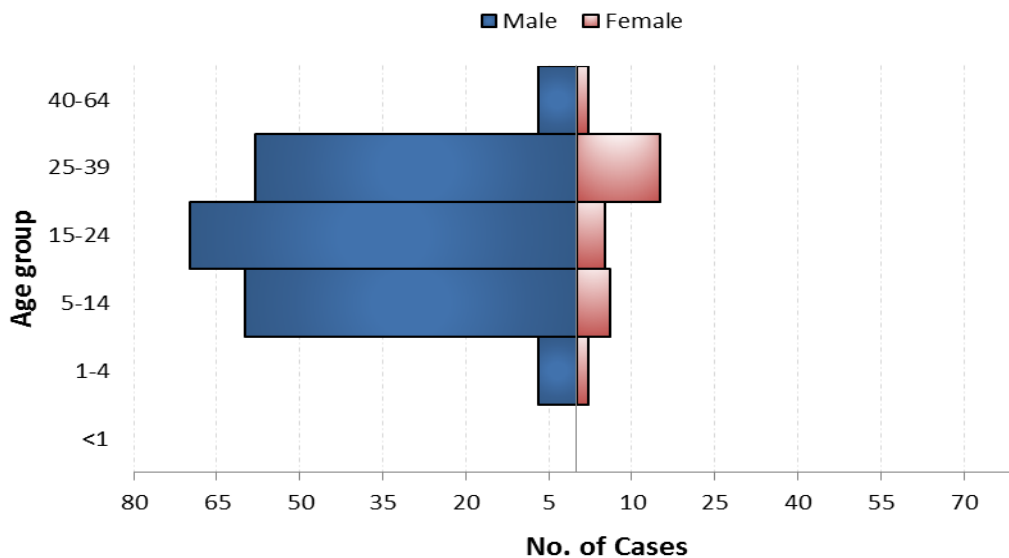
Fig. 3 Suspect Leptospirosis Cases by Region Philippines, 2016 vs 2015 (N=235)



Profile of Cases

Ages of cases ranged from 7 to 75 years old (median = 33.0 years). Majority (86.8%) of cases were male. Most (32.3%) of the cases belonged to the age group of 25 to 39 years old (Fig. 4).

Fig.4 Suspect Leptospirosis Cases by Agegroup and Sex Philippines, as of May 28, 2016 (N=232)



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There were 24 deaths (CFR = 10.21%). The 65 years old and above age group has the highest CFR.

Fig. 5 Suspect Leptospirosis Case Fatality Rate (CFR) by Age Group, Philippines, as of June 4, 2016 (N=235)

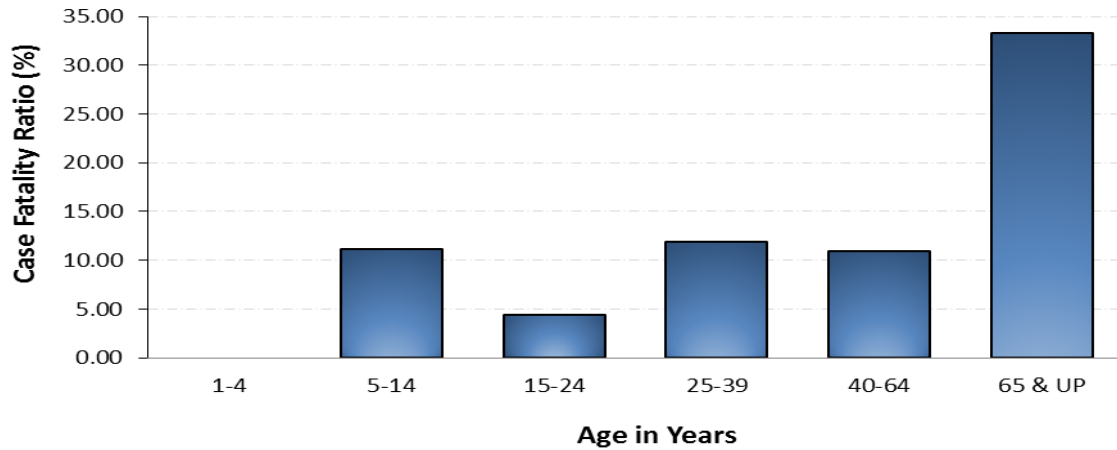


Table 1. Leptospirosis Cases & Deaths by Region
 Philippines, *2016 vs 2015

Region	Cases			Deaths			
	*2016	2015	% Change	*2016	CFR (%)	2015	CFR (%)
I	17	21	-19.0	5	29.41	1	4.76
II	19	24	-20.8	0	0.00	2	8.33
III	32	34	-5.9	2	6.25	2	5.88
IV-A	15	7	114.3	1	6.67	2	28.57
IV-B	8	3	166.7	0	0.00	0	0.00
V	13	22	-40.9	1	7.69	3	13.64
VI	35	40	-12.5	5	14.29	4	10.00
VII	7	14	-50.0	3	42.86	0	0.00
VIII	4	34	-88.2	0	0.00	3	8.82
IX	7	7	0.0	1	14.29	1	14.29
X	24	13	84.6	1	4.17	4	30.77
XI	5	19	-73.7	0	0.00	2	10.53
XII	4	2	100.0	1	25.00	0	0.00
ARMM	0	2	-100.0	0	0.00	0	0.00
CAR	7	4	75.00	0	0.00	1	25.00
CARAGA	4	6	-33.3	0	0.00	1	16.67
NCR	34	51	-33.3	4	11.76	5	9.80
Total	235	303	-22.4	24	10.21	31	10.23

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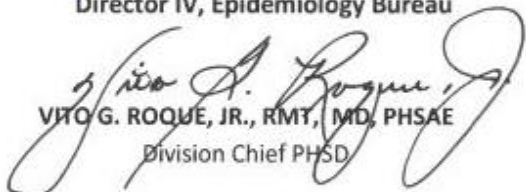
Table 2. Weekly Leptospirosis Summary Report by Region
 Philippines, as of June 4, 2016

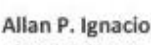
Region	Morbidity Week				22nd Morbidity Week		Cumulative Total	
	18	19	20	21	2016	2015	1st wk to 22nd wk 2016	2015
I	1	1	2	0	0	2	17	21
II	0	2	0	0	0	0	19	24
III	0	1	0	0	0	1	32	34
IV-A	2	1	0	2	0	0	15	7
IV-B	0	0	0	0	0	0	8	3
V	0	0	0	0	0	0	13	22
VI	2	0	0	1	0	0	35	40
VII	0	1	0	0	0	0	7	14
VIII	0	0	0	0	0	0	4	34
IX	0	0	1	0	0	0	7	7
X	1	0	0	0	0	1	24	13
XI	0	1	1	0	0	1	5	19
XII	0	1	0	0	0	0	4	2
ARMM	0	0	0	0	0	0	0	2
CAR	0	3	0	0	0	0	7	4
CARAGA	0	0	0	0	0	0	4	6
NCR	1	0	1	0	0	0	34	51
Total	7	11	5	3	0	5	235	303


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