



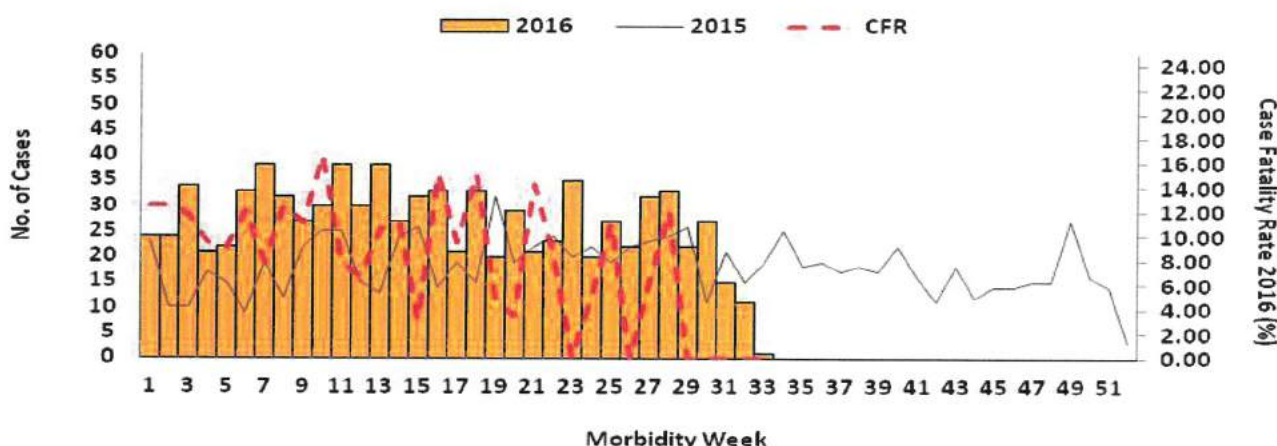
Introduction

The integrated surveillance for Acute Meningitis-Encephalitis Syndrome (AMES) Surveillance established in 2014 aimed to establish surveillance data on Acute Encephalitis Syndrome (AES) and Bacterial Meningitis (BM). Currently, there are 9 established sentinel sites nationwide.

Trend in the Philippines

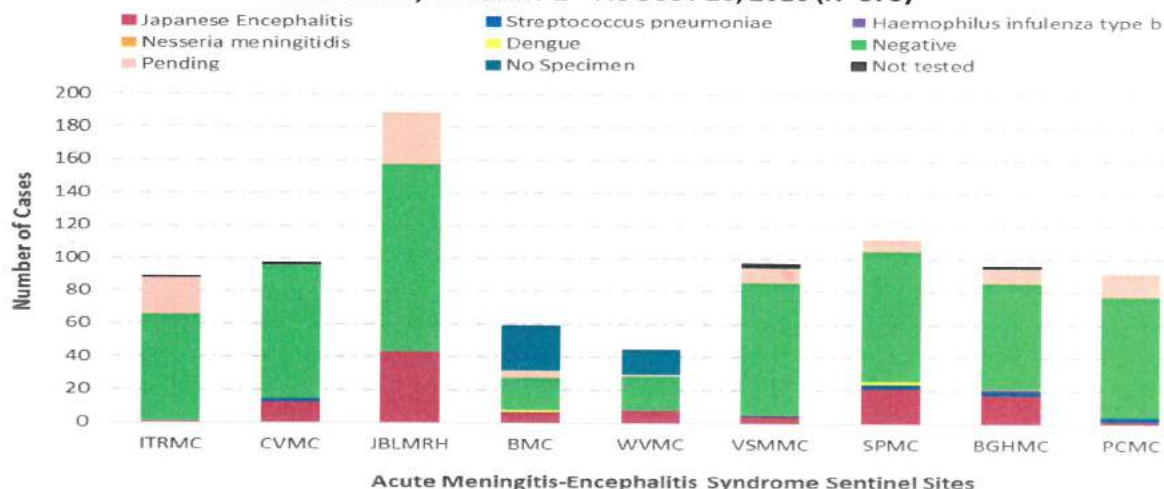
A total of 875 AMES suspected cases were reported from selected sentinel sites from January 1 to August 20, 2016 (Figure 1). This is 38% higher compared to the same period last year (632). Out of the total AMES suspected cases, 833 (95%) have specimens (either CSF, Serum 1 & 2) and 42 (5%) have none. For those cases with specimen collected, 119 (14%) were laboratory confirmed Japanese Encephalitis cases, 11 (1%) confirmed bacterial meningitis, 598 (72%) cases with negative laboratory results and 96 (12%) cases with pending results. Five (1%) specimens were not tested because the quantity is not sufficient.

FIGURE 1. SUSPECTED AMES CASES BY MORBIDITY WEEK, PHILIPPINES, August 20, 2016 2016* vs 2015 (N=875)



The distribution of suspected AMES cases varied considerably among the sentinel sites (Figure 2). Most of the reported cases were from Jose B. Lingad Memorial Hospital (22%), Southern Philippines Medical Center (13%), Cagayan Valley Medical Center (11%), Vicente Sotto Memorial Medical Center (11%) and Baguio General Hospital and Medical Center (Figure 2).

FIGURE 2. REPORTED AMES CASES AND LABORATORY RESULTS BY SENTINEL, PHILIPPINES, JANUARY 1 – AUGUST 20, 2016 (N=875)



(see list of AMES sentinel sites in the last page)

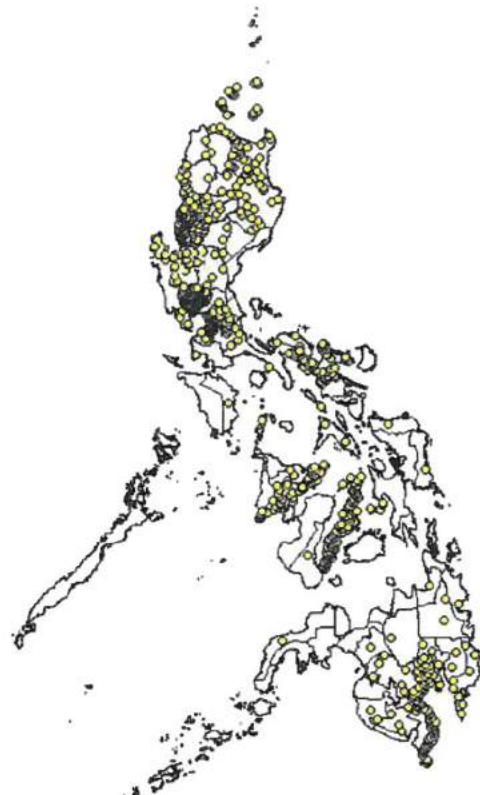


Geographic distribution

Most of the cases were from the following regions: Region III (23.31%), Region I (14.29%), Region II (10.97%), Region VII (10.97%) and Region XI (10.51%).

FIGURE 3. SUSPECTED ACUTE MENINGITIS ENCEPHALITIS SYNDROME CASES, MW33 (N=875)

REGION	CASES
Region 1	= 125
Region 2	= 96
Region 3	= 204
Region 4A	= 21
Region 4B	= 2
Region 5	= 60
Region 6	= 45
Region 7	= 96
Region 8	= 2
Region 9	= 1
Region 10	= 1
Region 11	= 92
Region 12	= 14
ARMM	= 1
CAR	= 59
CARAGA	= 4
NCR	= 52
TOTAL	= 875



LEGEND
 1 Dot = 1 Case

Profile of cases

Age of cases ranged from 2 days old to 88 years old, most of which were from the 0-11 mos (32%) and 1-10 years old (48%) age group. Fifty-eight percent of the suspected AMES cases were male (Figure 4). Among the suspected AMES cases, 43% received vaccination of measles vaccine, MMR, PCV 10, PCV 13, Haemophilus Influenza type b and Meningococcal vaccine (Figure 5). Seventy-five among the suspected AMES died (CFR=8.57).

FIGURE 4. AMES CASES BY AGE GROUP AND SEX, PHILIPPINES JANUARY 1 - AUGUST 20, 2016 (N=875)

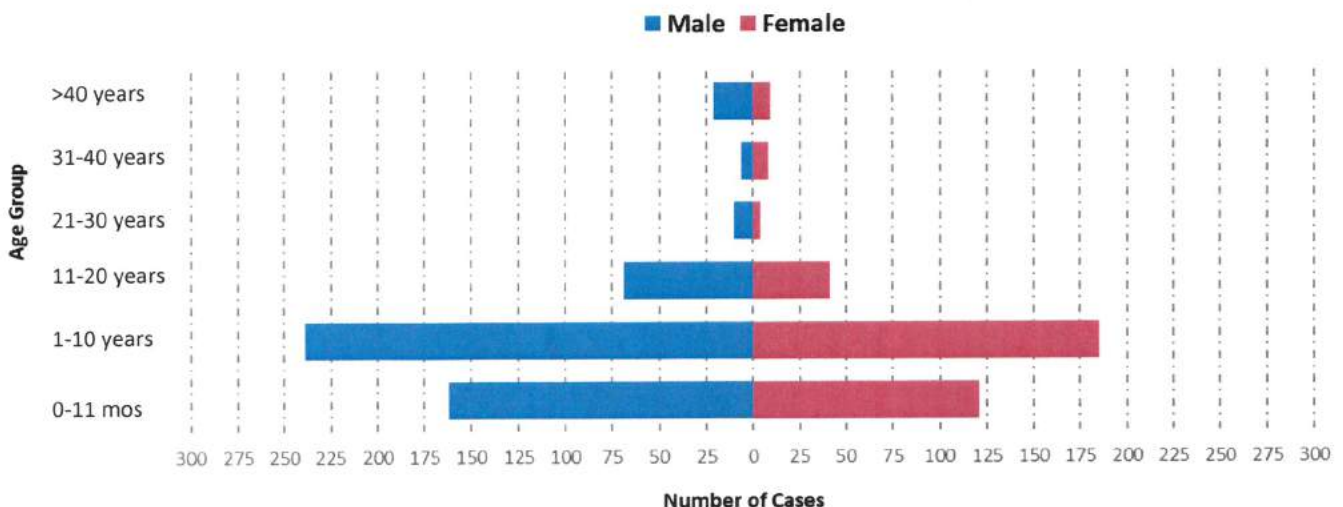
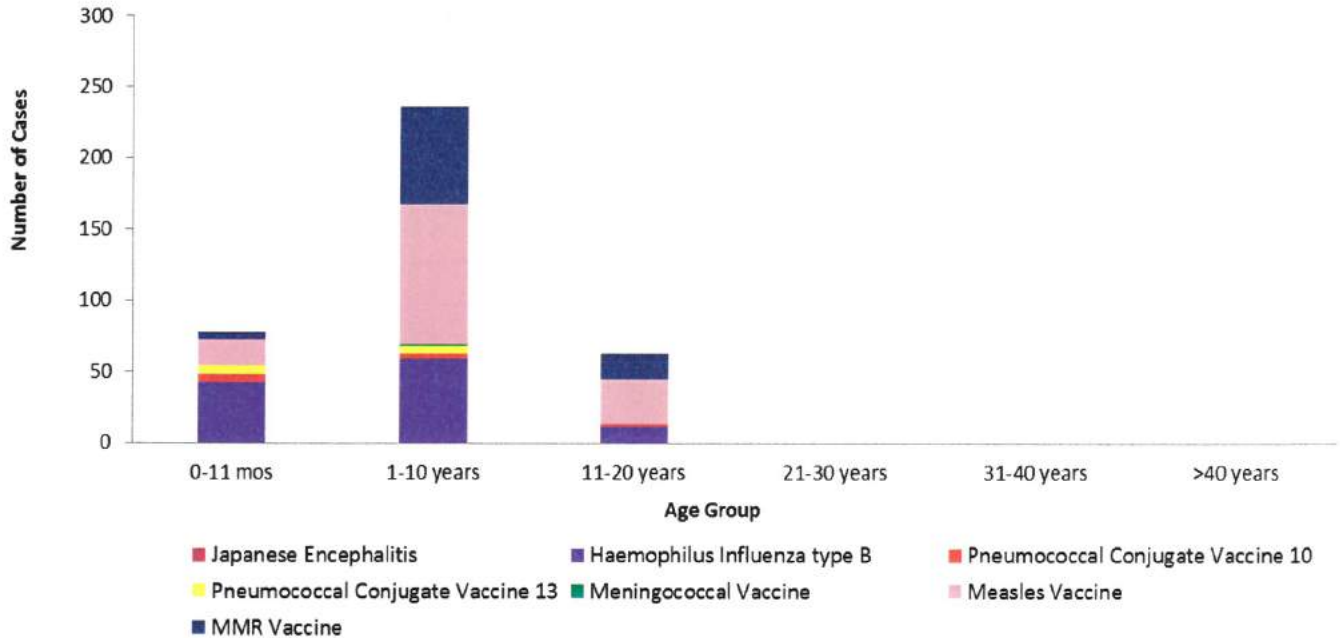




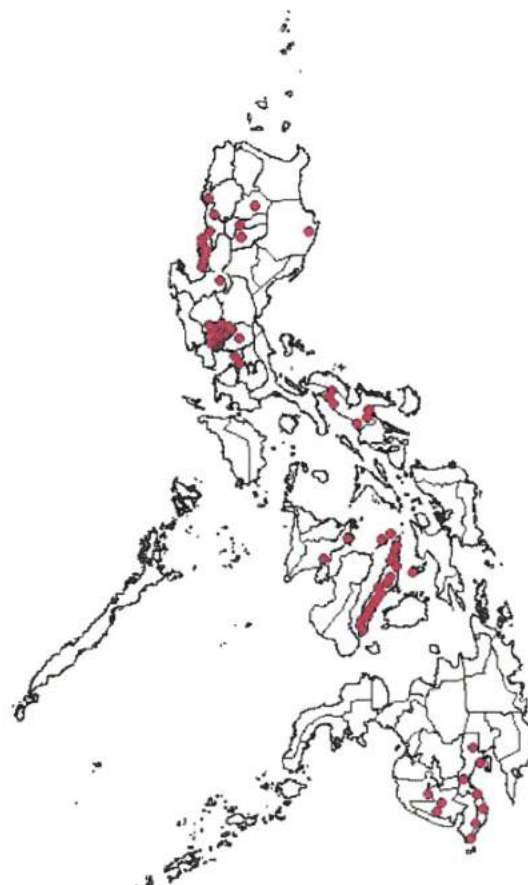
FIGURE 5. NUMBER OF IMMUNIZED AMONG SUSPECTED AMES CASES BY AGE GROUP PHILIPPINES, 2016* (n=377)



*Legend-Multiple Responses

FIGURE 6. SUSPECTED ACUTE MENINGITIS ENCEPHALITIS SYNDROME DEATHS, JANUARY 1- AUGUST 20, 2016

REGION	CASES
Region 1	= 10
Region 2	= 1
Region 3	= 21
Region 4A	= 0
Region 4B	= 0
Region 5	= 6
Region 6	= 2
Region 7	= 20
Region 8	= 0
Region 9	= 0
Region 10	= 0
Region 11	= 7
Region 12	= 3
ARMM	= 0
CAR	= 3
CARAGA	= 0
NCR	= 2
TOTAL	= 75



LEGEND
 1 Dot = 1 Case



Morbidity Week 33– January 1-August 20, 2016

Epidemiology Bureau
 Public Health Surveillance Division

**TABLE 1. TOTAL NUMBER OF CEREBROSPINAL FLUID (CSF), SERUM 1 & 2 COLLECTED FROM SUSPECTED AMES CASES
 JANUARY 1 – AUGUST 20, 2016**

AMES Sentinel Site	Number of Suspected AMES Cases	No. of CSF collected	Percentage (%)	No. of Serum 1 collected	Percentage (%)	No. of Serum 2 collected	Percentage (%)
Ilocos Training Regional Medical Center	89	88	99	46	52	4	4
Cagayan Valley Medical Center	97	97	100	0	0	0	0
Jose B. Lingad Memorial Regional Hospital	189	96	51	189	100	114	60
Bicol Medical Center	59	17	29	27	46	1	2
Western Visayas Medical Center	45	28	62	25	56	3	7
Vicente Sotto Memorial Medical Center	97	97	100	0	0	0	0
Southern Philippines Medical Center	112	112	100	112	100	79	71
Philippine Children's Medical Center	91	86	95	45	49	3	3
Baguio General Hospital and Medical Center	96	96	100	83	86	30	31
Grand Total	875	717	82	527	60	234	27

Cerebrospinal Fluid (CSF) and a paired serum (serum 1 - acute phase and serum 2 - convalescent phase) are recommended for collection and testing in RITM to confirm the diagnosis. Majority (82%) of the cases were collected with CSF, however percentage of collection for serum 1 and serum 2 were not that high.

FIGURE 7. CONFIRMED JAPANESE ENCEPHALITIS AND BACTERIAL MENINGITIS CASES, REGION AND PROVINCE, PHILIPPINES 2016, JANUARY 1- AUGUST 20, 2016*

Region/Province	Confirmed JE
01	12
ILOCOS NORTE	1
LA UNION	2
PANGASINAN	9
02	13
CAGAYAN	9
ISABELA	3
NUEVA VIZCAYA	1
03	46
NUEVA ECIIJA	3
PAMPANGA	42
TARLAC	1
05	7
CAMARINES NORTE	1
CAMARINES SUR	6
06	8
CAPIZ	1
ILOILO	7
07	3
CEBU	3
9	1
ZAMBOANGA DEL NORTE	1

11	13
COMPOSTELA VALLEY	1
DAVAO DEL SUR	8
DAVAO ORIENTAL	4
12	8
NORTH COTABATO	6
SOUTH COTABATO	2
CAR	6
BENGUET	4
KALINGA	1
MOUNTAIN PROVINCE	1
CARAGA	1
AGUSAN DEL NORTE	1
NCR	1
METRO MANILA	1
QUEZON CITY	1
Grand Total	119

Region/Province	Confirmed BM
02	3
CAGAYAN	2
NUEVA VIZCAYA	1
04A	2
CAVITE	1
QUEZON	1
07	2
CEBU	2
10	1
BUKIDNON	1
11	1
DAVAO DEL SUR	1
CAR	2
BENGUET	2
Grand Total	11

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



Morbidity Week 33– January 1-August 20, 2016

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CASE DEFINITION of Acute Meningitis-Encephalitis Surveillance

A combined case definition for BM and AES surveillance shall be used. Suspected cases will be captured through the standard case definition of **Acute Meningitis-Encephalitis Surveillance System** (which includes meningitis, encephalitis, and overlapping cases)

A case of suspected Acute Meningitis-Encephalitis is a person of any age, WITH a sudden onset of fever, plus one of the following:

- change in mental status (including altered consciousness, confusion, or inability to talk)
- new onset of seizures
- neck stiffness
- other meningeal sign


Selected Sentinel Sites of Acute Meningitis-Encephalitis Surveillance


- Region I-** Ilocos Training Regional Medical Center
- Region II-** Cagayan Valley Medical Center
- Region III-** Jose B. Lingad Memorial Regional Hospital
- Region V-** Bicol Medical Center
- Region VI-** Western Visayas Medical Center
- Region VII-** Vicente Sotto Memorial Medical Center
- Region XI-** Southern Philippines Medical Center
- Region NCR-** Philippine Children's Medical Center
- Region CAR-** Baguio General Hospital and Medical Center

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