



# Hand, Foot and Mouth Disease Cases

Morbidity Week 21 : May 22-28, 2016

Epidemiology Bureau  
 Public Health Surveillance Division

## Introduction

Hand, Foot and Mouth Disease (HFMD) is a common infectious disease caused by a group of enteroviruses, including *Coxsackievirus A16* (CA16) and *Enterovirus 71* (EV71). Infection with EV71 is of particular concern as it can cause severe disease in children, sometimes resulting in death.

Hand, foot and mouth disease is characterized by a brief febrile illness in children and typical skin rash, with or without mouth ulcers. Typically, the rash is papulovesicular and affects the palms or soles of the feet, or both. However, cases involving the central nervous system (CNS) and/or pulmonary edema have also been observed.

## Trend in the Philippines

This report summarizes PIDS R HFMD surveillance activities nationwide. A total of 395 suspect hand, foot and mouth disease cases were reported nationwide from January 1 to May 28, 2016. This is **28.44%** lower compared to the same time period last year (552).

Suspect Hand, Foot and Mouth Disease Cases MW21

Region	Cases
I	13
II	8
III	8
IVA	19
IVB	4
V	0
VI	156
VII	42
VIII	8
IX	1
X	21
XI	4
XII	28
ARMM	1
CAR	58
CARAGA	1
NCR	23
<b>PHILIPPINES</b>	<b>395</b>

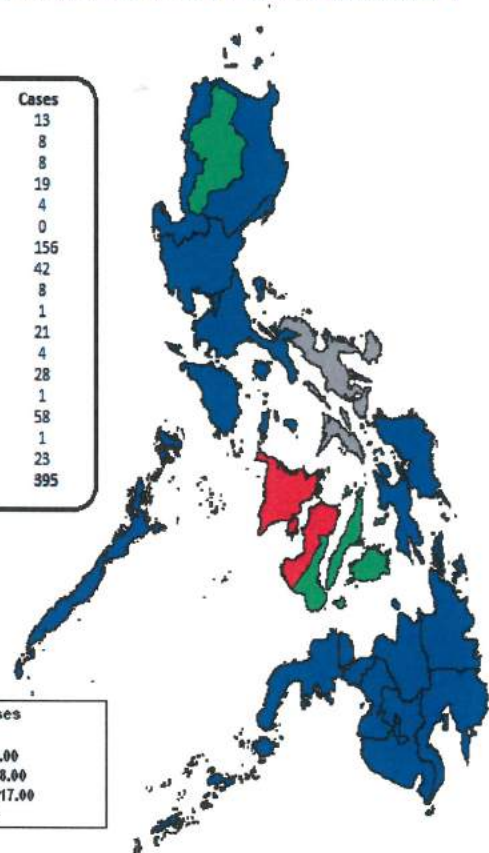
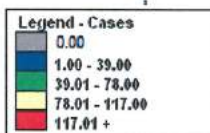
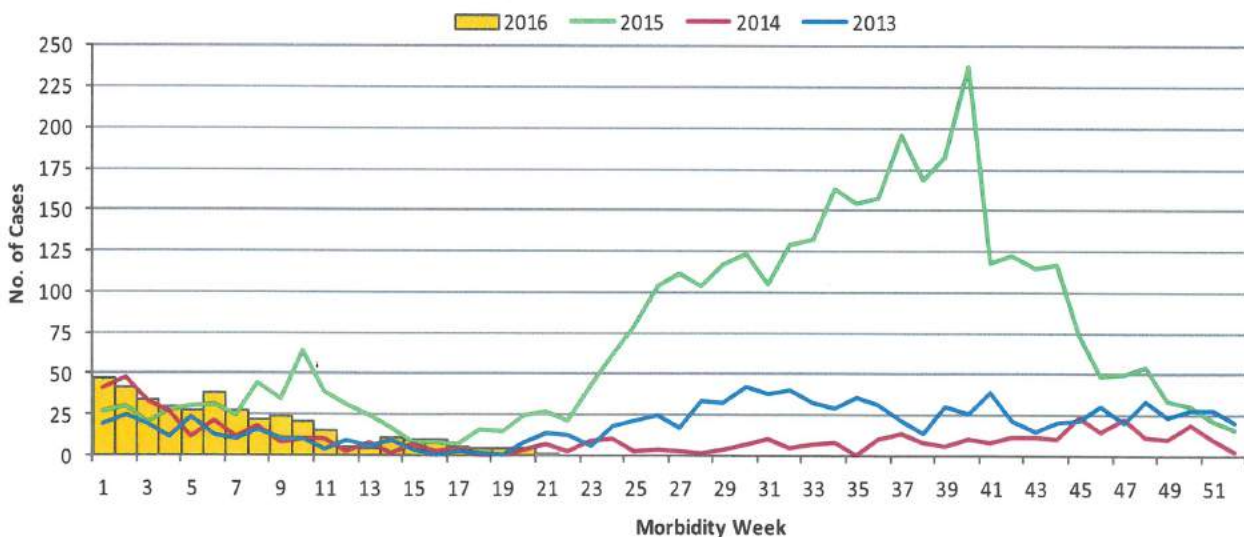


Fig. 1 Suspect Hand, Foot and Mouth Disease Cases by Morbidity Week Philippines, 2013-2016\* (N=395)

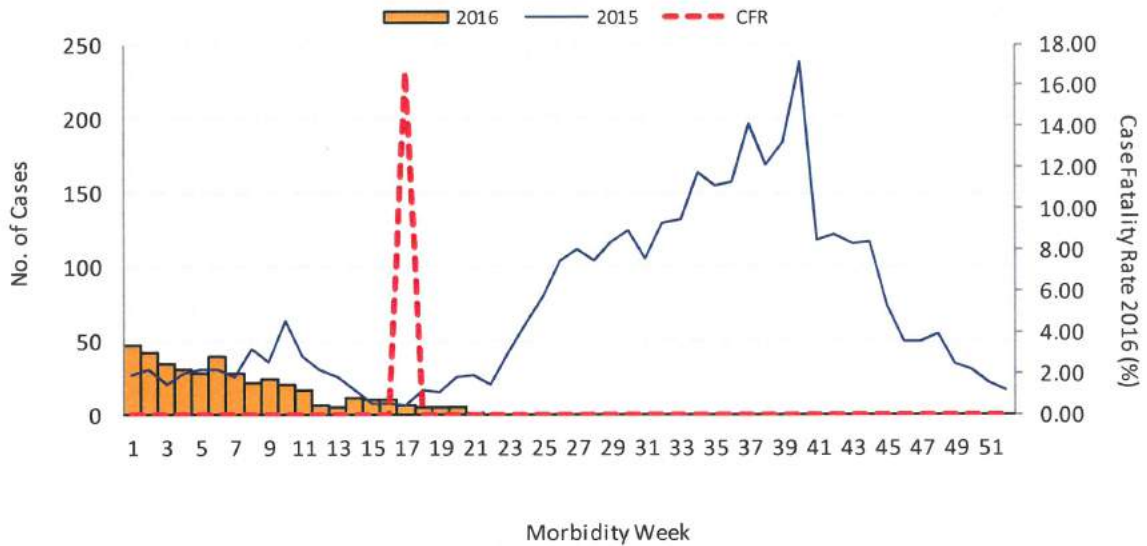




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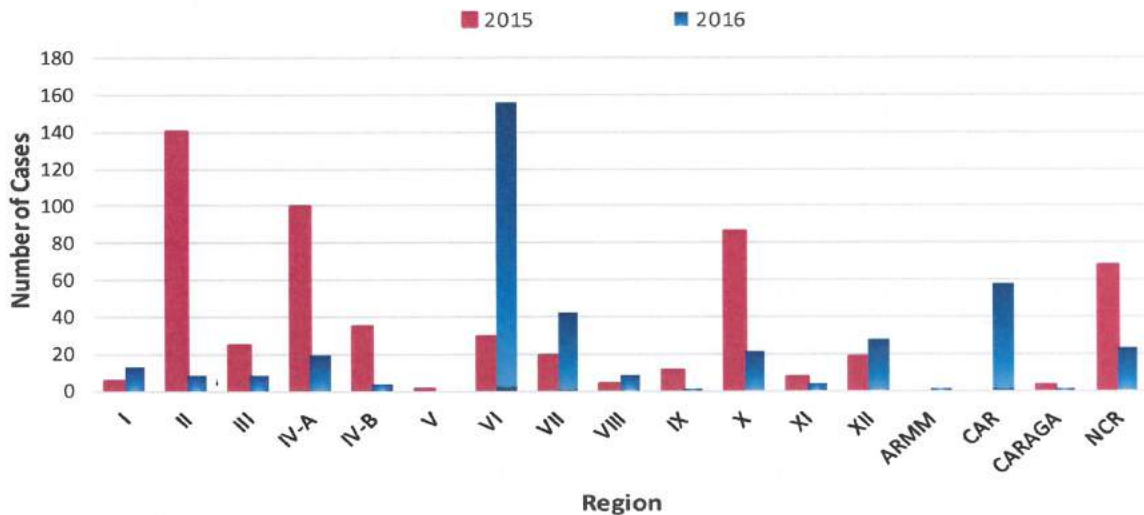
Fig. 2 Suspect Hand, Foot and Mouth Disease Cases by Morbidity Week, Philippines, as of May 28, 2016  
 2016\* vs 2015 (N=395)



### Geographic Distribution

Most of the cases were from the following regions: **Region VI (39.5%), CAR (14.7%), Region VII (10.6%), Region XII (7.1%) and NCR (5.8%) (Fig.3).**

Fig. 3 Suspect Hand, Foot and Mouth Disease Cases by Region Philippines, 2016\* vs 2015



*\*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.*



### Profile of Cases

Ages of cases ranged from less than 1 month to 54 years old (median= 2 years). Majority of cases were male (61.8%). Most of the cases belonged to the 1 to 4 years age group (72.7%) (Fig. 4). There was one reported death of a suspect HFMD case from NCR (CFR=0.25%). No specimen collection was done.

Fig. 4 Suspect Hand, Foot and Mouth Disease by Agegroup and Sex Philippines, as of May 28, 2016 (N=395)

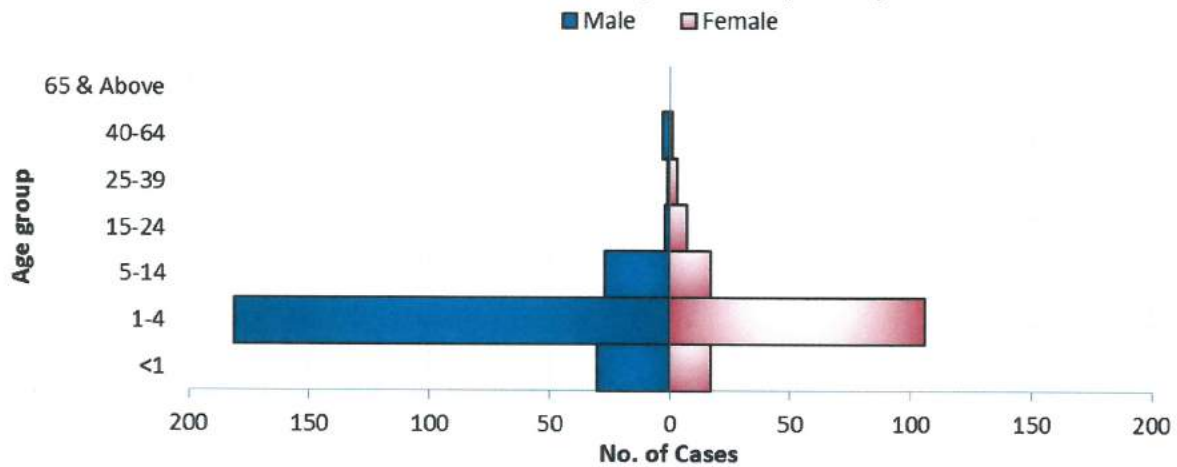
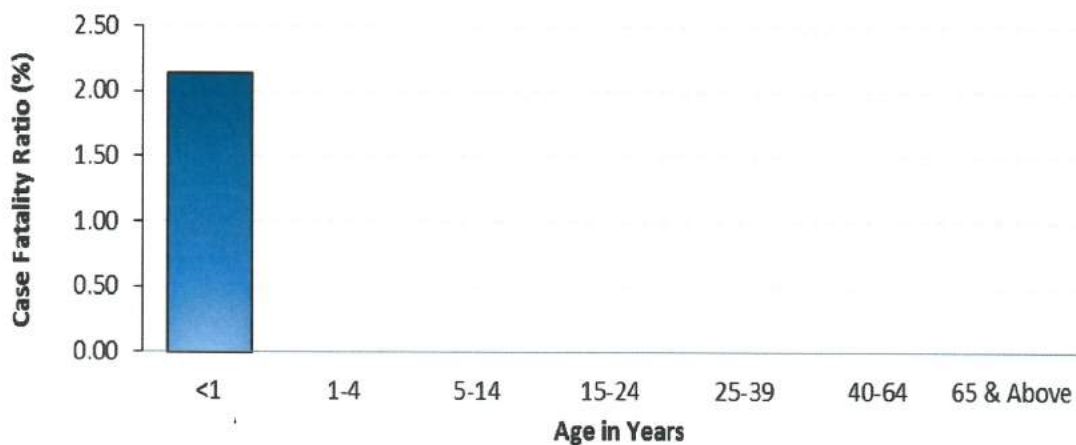


Fig. 5 Suspect Hand, Foot and Mouth Disease Case Fatality Rate (CFR) by Age Group, Philippines, as of May 28, 2016



*\*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.*



### HFMD Enterovirus Genus Distribution in the Philippines

Hand, foot, and mouth disease enterovirus genus data are based on the samples collected from the suspected HFMD cases in all regions of the Philippines from January 1-May 28, 2016. Out of 395 reported cases of HFMD, 22 (5.6%) cases were tested and 373 (94.4%) cases were not. Of the tested cases, 10 (45.5%) cases were laboratory confirmed, and 12 (54.5%) cases were negative for enterovirus (Fig.6). Out of the confirmed HFMD cases, *Coxsackievirus A6*(CA6) (30%), *Coxsackievirus A16*(CA16) (50%), and *Enterovirus* (EV) (20%) were detected.

Fig.6 Number of Specimens Collected for HFMD Philippines, as of May 28, 2016 (N=22)

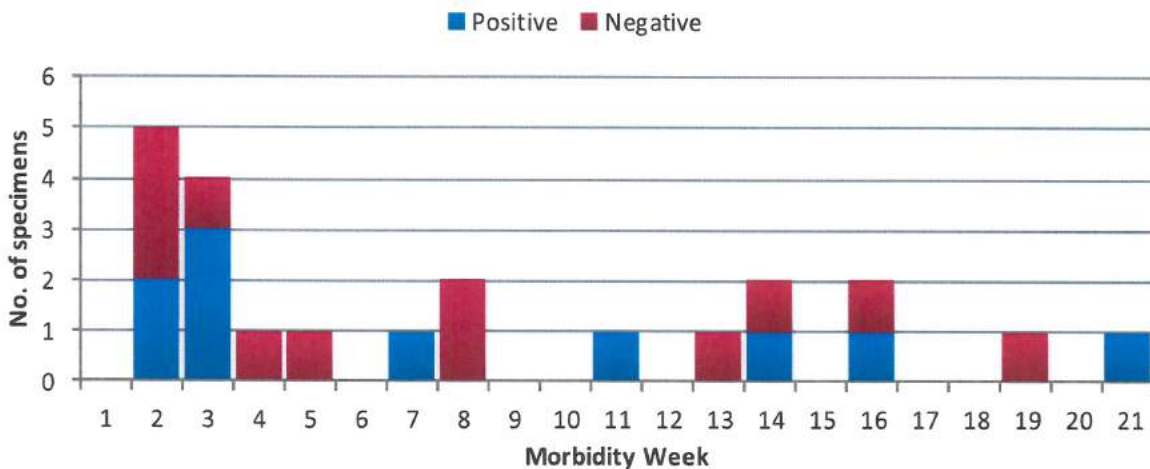
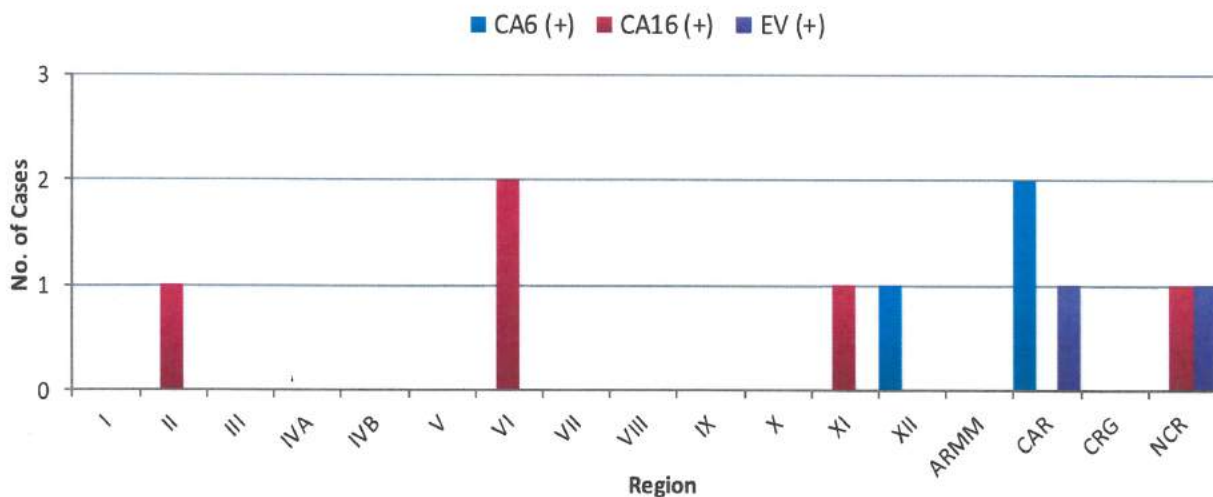


Fig. 7 Confirmed HFMD cases by Region and Enterovirus Genus Philippines, as of of May 28, 2016 (n=10)



\*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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**Table 1. Suspect Hand, Foot and Mouth Disease Cases & Deaths by Region  
 Philippines, 2016\* vs 2015**


Region	Cases			Deaths			
	2016	2015	% Change	2016	CFR (%)	2015	CFR (%)
I	13	6	116.67	0	0.00	0	0.00
II	8	140	-94.29	0	0.00	0	0.00
III	8	25	-68.00	0	0.00	0	0.00
IV-A	19	100	-81.00	0	0.00	0	0.00
IV-B	4	35	-88.57	0	0.00	0	0.00
V	0	1	-100.00	0	0.00	0	0.00
VI	156	29	437.93	0	0.00	0	0.00
VII	42	19	121.05	0	0.00	0	0.00
VIII	8	4	100.00	0	0.00	0	0.00
IX	1	11	-90.91	0	0.00	0	0.00
X	21	86	-75.58	0	0.00	0	0.00
XI	4	7	-42.86	0	0.00	0	0.00
XII	28	18	55.56	0	0.00	0	0.00
ARMM	1	0	0.00	0	0.00	0	0.00
CAR	58	0	0.00	0	0.00	0	0.00
CARAGA	1	3	-66.67	0	0.00	0	0.00
NCR	23	68	-66.18	1	4.35	0	0.00
<b>Total</b>	<b>395</b>	<b>552</b>	<b>-28.44</b>	<b>1</b>	<b>0.25</b>	<b>0</b>	<b>0.00</b>

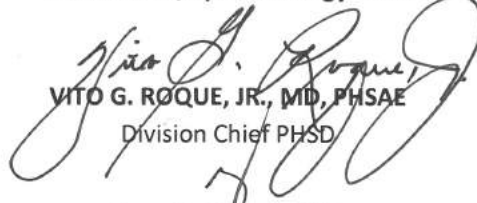
**Table 2. Weekly Suspect Hand, Foot and Mouth Disease Summary Report by Region  
 Philippines, as of May 28, 2016**


Region	Morbidity Week				21st Morbidity Week		Cumulative Total 1st wk to 21st wk	
	17	18	19	20	2016	2015	2016	2015
I	0	0	0	1	0	0	13	6
II	0	0	0	0	0	0	8	140
III	0	0	0	0	0	0	8	25
IV-A	0	0	1	0	0	3	19	100
IV-B	0	1	0	0	0	9	4	35
V	0	0	0	0	0	0	0	1
VI	1	0	1	1	0	7	156	29
VII	1	1	1	0	0	2	42	19
VIII	0	0	0	0	0	0	8	4
IX	0	0	0	0	0	0	1	11
X	2	2	1	2	0	1	21	86
XI	0	0	0	0	0	0	4	7
XII	0	0	0	0	0	1	28	18
ARMM	0	0	0	0	0	0	1	0
CAR	1	0	0	0	0	0	58	0
CARAGA	0	0	0	0	0	1	1	3
NCR	1	1	1	1	1	3	23	68
<b>Total</b>	<b>6</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>1</b>	<b>27</b>	<b>395</b>	<b>552</b>



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