



Description

Pertussis or whooping cough is a highly communicable disease of the respiratory tract caused by *Bordetella pertussis*.

The initial stage of the disease has an insidious onset with an irritating cough that gradually becomes paroxysmal, usually within 1–2 weeks, and lasts for 1–2 months or longer. Paroxysms are characterized by repeated violent cough. Each series of paroxysms has many coughs without intervening inhalation and can be followed by a characteristic crowing or high-pitched inspiratory whoop. Paroxysms frequently end with the expulsion of clear, tenacious mucus, often followed by vomiting.

It is primarily transmitted by direct contact with airborne discharges from the mucus membrane of infected person or by indirect contact through articles freshly soiled with discharges of infected persons.

The average incubation period is 9-10 days ranging from 6 to 20 days.

Standard Case Definition

• Clinical Case:

- A person with a cough lasting at least 2 weeks with at least one of the following:
 - paroxysms (i.e. fits) of coughing
 - inspiratory “whooping”
 - post-tussive vomiting (i.e. vomiting immediately after coughing)
 - without other apparent cause

Case classification

• Clinically-confirmed case:

- A case that meets the clinical case definition but is not laboratory confirmed.

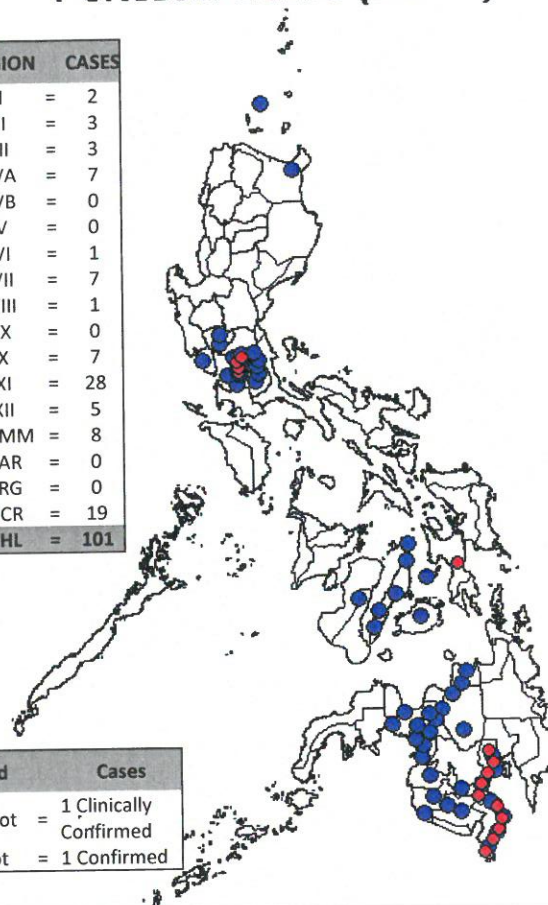
• Probable case:

- Meets the clinical case definition, is not laboratory confirmed, and is not

Pertussis Cases (MW14)

REGION	CASES
I	= 2
II	= 3
III	= 3
IVA	= 7
IVB	= 0
V	= 0
VI	= 1
VII	= 7
VIII	= 1
IX	= 0
X	= 7
XI	= 28
XII	= 5
ARMM	= 8
CAR	= 0
CRG	= 0
NCR	= 19
PHL	= 101

Legend	Cases
1 blue dot	= 1 Clinically Confirmed
1 red dot	= 1 Confirmed



epidemiologically linked to a laboratory confirmed case.

• Laboratory-confirmed case:

- A case of acute cough illness of any duration with a positive culture for *B. pertussis*; OR
- A case that meets the clinical case definition and is confirmed by PCR; OR
- A case that meets the clinical definition and is epidemiologically linked directly to a case confirmed by either culture or PCR.



Trend in the Philippines

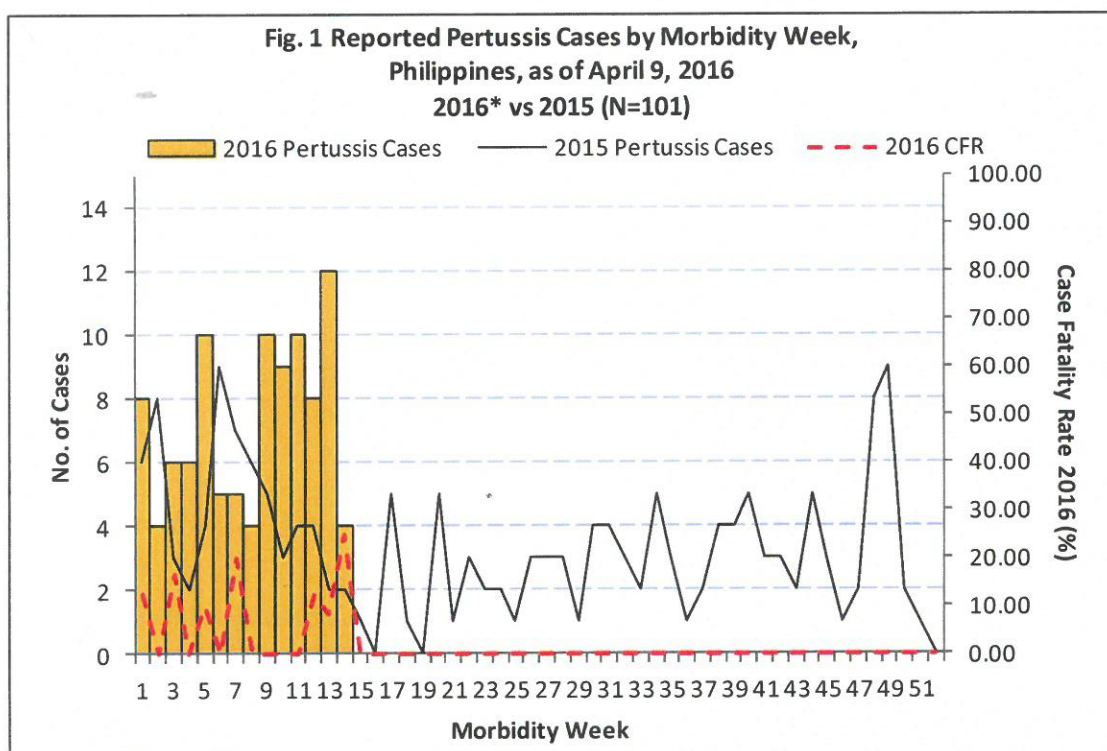
A total of **101** pertussis cases were reported nationwide from January 1 to April 9, 2016. Of these cases, **86** are clinically confirmed and **15** are laboratory-confirmed thru polymerase chain reaction (PCR) testing. These confirmed pertussis cases are **650%** higher compared to the same time period last year (**2**).

Geographic Distribution

The clinically confirmed pertussis cases were from the following regions: **Region I, Region II, Region III, Region IVA, Region VI, Region VII, Region X, Region XI, Region XII, ARMM and NCR**, while the confirmed pertussis cases came from **Region VII, Region XI and NCR** (Fig. 2).

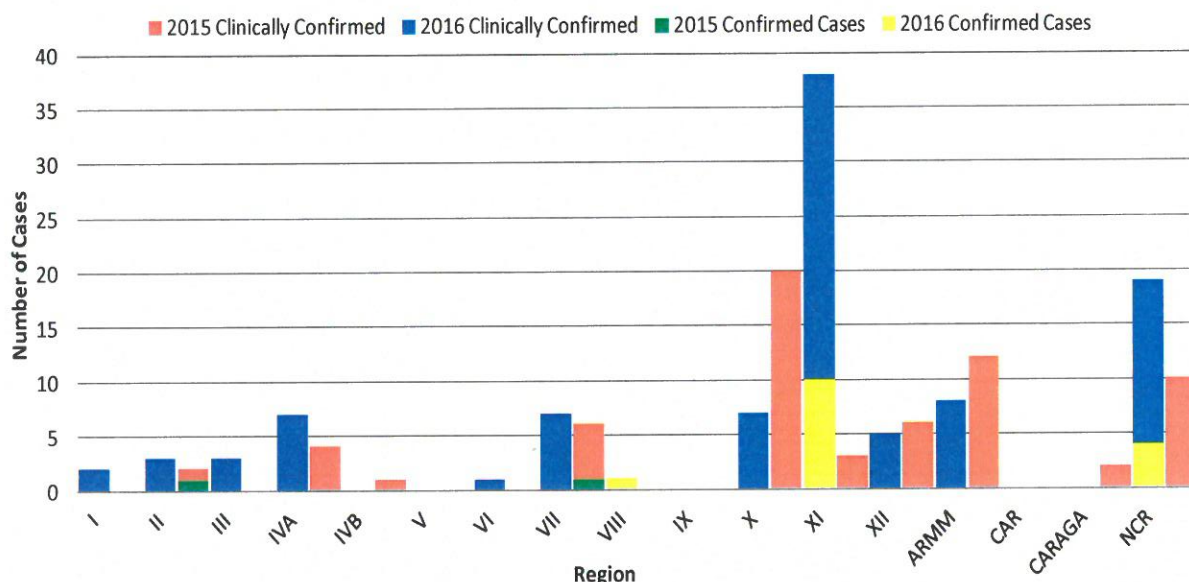
Profile of Cases

Majority of the clinically confirmed pertussis cases were **male** (90.4%). Whereas, majority of the confirmed pertussis cases were **female** (66.7%). Most of the affected cases belong to the **<1 year old age group**, including the 15 confirmed pertussis cases (Fig. 3)

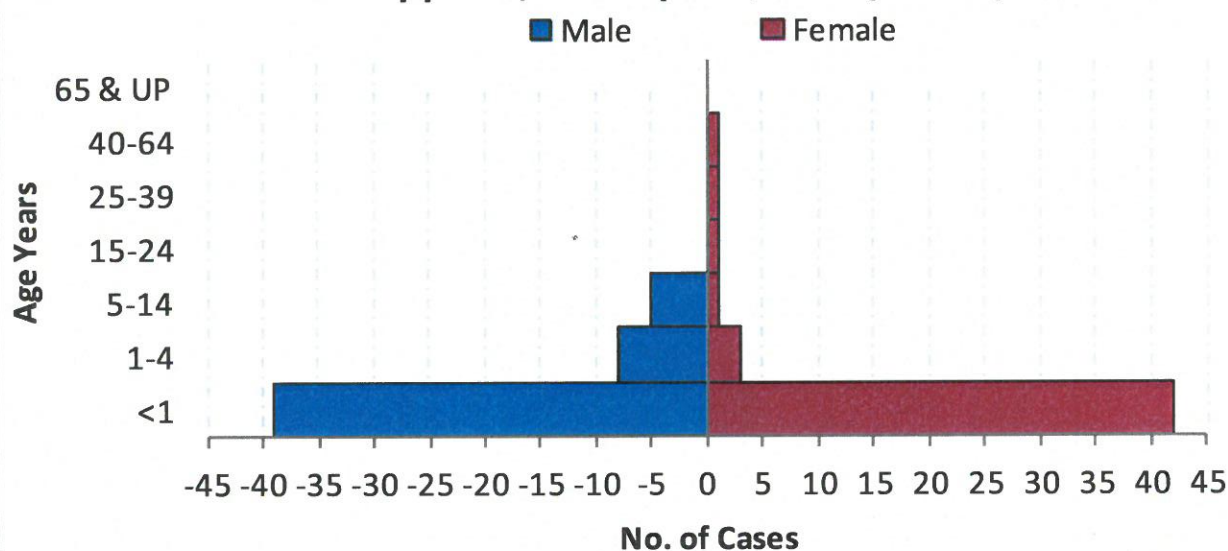




**Fig. 2 Reported Pertussis Cases by Region
 Philippines, 2016 vs 2015**



**Fig. 3 Reported Pertussis Cases by Age Group and Sex
 Philippines, as of April 9, 2016 (N=101)**





**Table 1 Reported Pertussis Cases and Deaths by Region
Philippines, April 9, 2016**

Region	Clinically Confirmed							Confirmed						
	Cases			Deaths				Cases			Deaths			
	2016	2015	%Change	2016	CFR	2015	CFR	2016	2015	%Change	2016	CFR	2015	CFR
I	2	0	0.00	2	100.00	0	0.00	0	0	0.00	0	0.00	0	0.00
II	3	1	200.00	0	0.00	0	0.00	0	1	-100.00	0	0.00	0	0.00
III	3	0	0.00	1	33.33	0	0.00	0	0	0.00	0	0.00	0	0.00
IVA	7	4	75.00	0	0.00	0	0.00	0	0	0.00	0	0.00	0	0.00
IVB	0	1	-100.00	0	0.00	0	0.00	0	0	0.00	0	0.00	0	0.00
V	0	0	0.00	0	0.00	0	0.00	0	0	0.00	0	0.00	0	0.00
VI	1	0	0.00	0	0.00	0	0.00	0	0	0.00	0	0.00	0	0.00
VII	7	5	40.00	0	0.00	1	20.00	0	0	0.00	0	0.00	0	0.00
VIII	0	0	0.00	0	0.00	0	0.00	1	1	0.00	0	0.00	0	0.00
IX	0	0	0.00	0	0.00	0	0.00	0	0	0.00	0	0.00	0	0.00
X	7	20	-65.00	0	0.00	0	0.00	0	0	0.00	0	0.00	0	0.00
XI	28	3	833.33	0	0.00	0	0.00	10	0	0.00	2	20.00	0	0.00
XII	5	6	-16.67	1	20.00	0	0.00	0	0	0.00	0	0.00	0	0.00
ARMM	8	12	-33.33	0	0.00	0	0.00	0	0	0.00	0	0.00	0	0.00
CAR	0	0	0.00	0	0.00	0	0.00	0	0	0.00	0	0.00	0	0.00
CRG	0	2	-100.00	0	0.00	0	0.00	0	0	0.00	0	0.00	0	0.00
NCR	15	10	50.00	0	0.00	0	0.00	4	0	0.00	1	25.00	0	0.00
PHL	86	64	34.38	4	4.65	1	1.56	15	2	650.00	3	20.00	0	0.00

**Table 2 Surveillance Update on Confirmed Pertussis Cases
Morbidity Week 14 (January 1 – April 9), Philippines 2016**

Region	Confirmed Pertussis Cases	Dpt Dose					Outcome	
		None	Dpt 1	Dpt 2	Dpt 3	No Data	Alive	Died
I	0	0	0	0	0	0	0	0
II	0	0	0	0	0	0	0	0
III	0	0	0	0	0	0	0	0
IVA	0	0	0	0	0	0	0	0
IVB	0	0	0	0	0	0	0	0
V	0	0	0	0	0	0	0	0
VI	0	0	0	0	0	0	0	0
VII	0	0	0	0	0	0	0	0
VIII	1	0	0	0	1 (100%)	0	1 (100%)	0
IX	0	0	0	0	0	0	0	0
X	0	0	0	0	0	0	0	0
XI	10	9 (90%)	0	1 (10%)	0	0	8 (80%)	2 (20%)
XII	0	0	0	0	0	0	0	0
ARMM	0	0	0	0	0	0	0	0
CAR	0	0	0	0	0	0	0	0
CRG	0	0	0	0	0	0	0	0
NCR	4	2 (50%)	0	0	0	2 (50%)	2 (50%)	1 (25%)
PHL	15	10	50	1	1	2	11	3

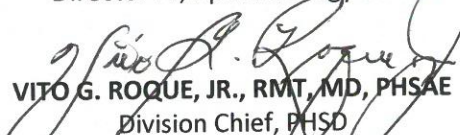


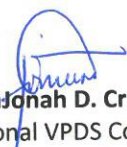
Morbidity Week 14 : January 1 – April 9, 2016


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