



### TRENDS IN THE PHILIPPINES

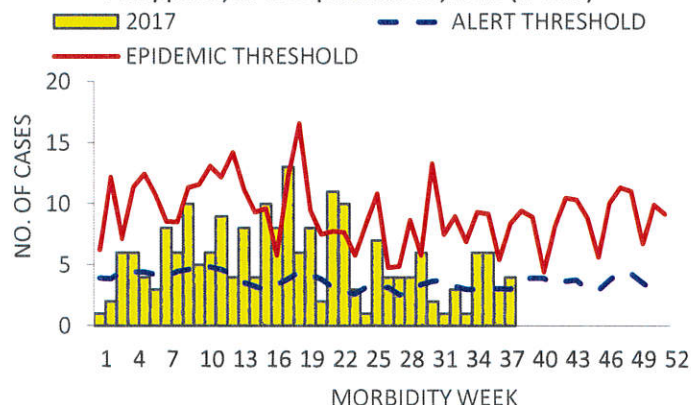
A total of **205** pertussis cases were reported nationwide from January 1 – September 30, 2017. This is **16.67% lower** than the same period last year (246 cases). Figure 1 shows the distribution of the reported pertussis cases in the country by morbidity week.

### GEOGRAPHIC DISTRIBUTION

The number of pertussis cases varies by region. Figure 2 shows the distribution of reported pertussis cases by region in comparison to the same time period last year.

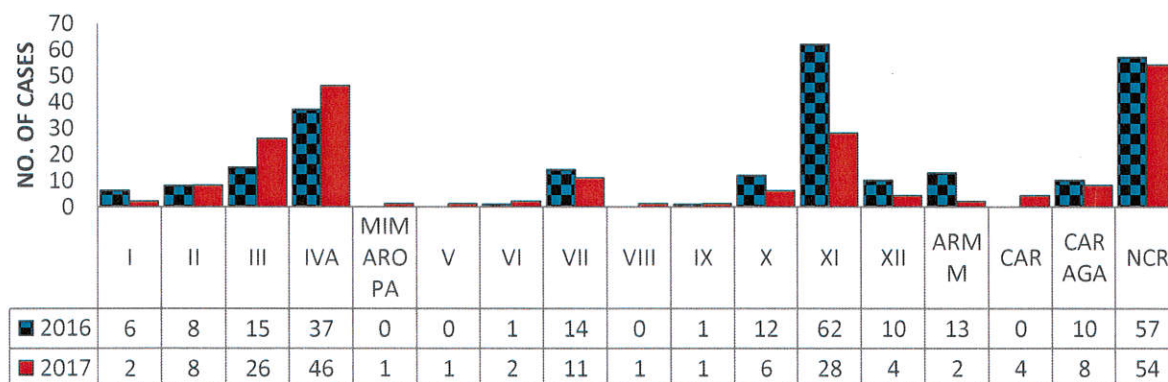
Table 1 indicates the reported pertussis cases by region in the Philippines. Forty six (22.44%) cases were confirmed out of 205 cases. Among the reported cases, 9 cases have died with a CFR of 4.39%. Majority of the reported pertussis cases came from NCR (54, 26.34%), Regions IVA (46, 22.44%) and XI (28, 13.66%). (See Annex A for case distribution by Barangay)

**Fig. 1 Alert and Epidemic Thresholds and Reported Pertussis Cases by Morbidity Week, Philippines, as of September 30, 2017 (N=205)**



Eight pertussis cluster<sup>(1)</sup> were identified as of September 30, 2017. No new cluster<sup>(1)</sup> of pertussis cases identified within the past 4 Morbidity Weeks. (See Annex B for case distribution by Cluster<sup>(1)</sup>)

**Fig. 2 Reported Pertussis Cases by Region, Philippines, as of September 30, 2017 (N=205)**



**Table 1. Reported Pertussis Cases by Region, Philippines, as of September 30, 2017 (N=205)**

REGION	Case Classification			Reported Cases	Died	CFR %
	Confirmed Cases	Probable Cases	Suspected Case			
I	0	0	2	2	0	0.00
II	2	0	6	8	0	0.00
III	6	0	20	26	2	7.69
IVA	13	1	32	46	4	8.70
MIMAROPA	0	1	0	1	0	0.00
V	0	0	1	1	0	0.00
VI	1	0	1	2	0	0.00
VII	4	0	7	11	0	0.00
VIII	0	0	1	1	0	0.00
IX	0	0	1	1	0	0.00
X	1	0	5	6	0	0.00
XI	4	0	24	28	0	0.00
XII	0	0	4	4	0	0.00
ARMM	0	0	2	2	0	0.00
CAR	2	0	2	4	0	0.00
CARAGA	1	0	7	8	0	0.00
NCR	12	0	42	54	3	5.56
<b>PHILIPPINES</b>	<b>46</b>	<b>2</b>	<b>157</b>	<b>205</b>	<b>9</b>	<b>4.39</b>



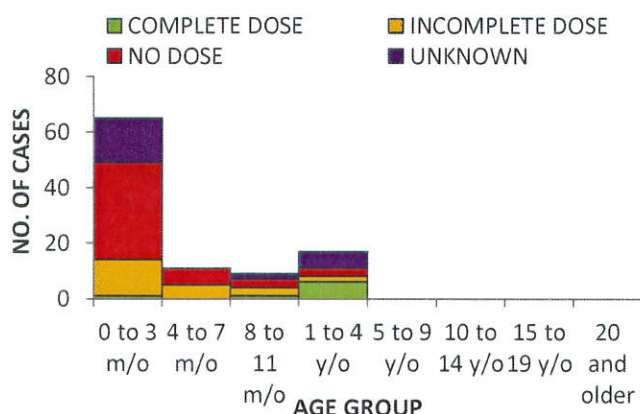


**PROFILE OF CASES**

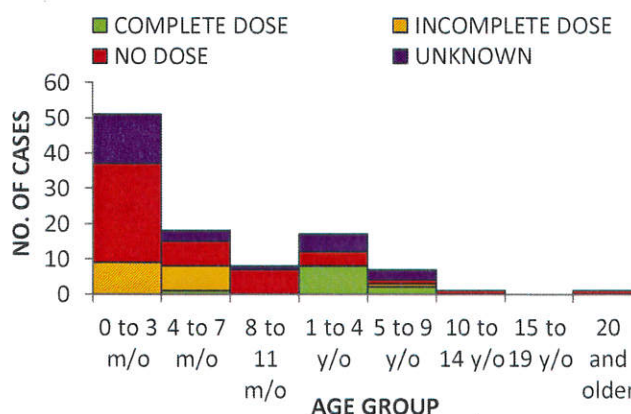
There are **103 (50.24%) females and 102 (49.76%) males**. Most (56.59%) of them belonged to the **0 to 3 months old age group**. Ninety six (46.83%) cases were not administered with any dose of DPT/pentavalent vaccine.

As shown in Figure 3.1, 65 (63.73%) out of 102 reported male pertussis cases belonged to the 0 to 3 months old age group and 47 (46.08%) did not received any dose of DPT/Pentavalent. Whereas in Figure 3.2, majority of the reported female pertussis cases, 51 (49.51%) of them belonged to the 0 to 3 months old age group and 49 (47.57%) of them did not received any dose of DPT/Pentavalent.

**Fig. 3.1 Reported Male Pertussis Cases by DPT Doses and Age Group, Philippines, as of September 30, 2017 (n=102)**



**Fig. 3.2 Reported Female Pertussis Cases by DPT Doses and Age Group, Philippines, as of September 30, 2017 (n=103)**



**Standard Case Definition of Pertussis**

• **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 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.

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ANNEX A. REPORTED PERTUSSIS CASES BY CASE CLASSIFICATION AND BARANGAY

REPORTED PERTUSSIS CASES PHILIPPINES, JANUARY 1 - SEPTEMBER 30, 2017 (N=205)							
REGION	PROVINCE	MUNCITY	BARANGAY	CONFIRMED CASES	PROBABLE CASES	SUSPECTED CASES	NO. OF CASES
I	PANGASINAN	DAGUPAN CITY	PUGARO SUIT	0	0	1	1
		SAN JACINTO	SAN VICENTE	0	0	1	1
II	CAGAYAN	BAGGAO	AGAMAN NORTE	1	0	2	3
		TUGUEGARAO CITY	PENGUE (PENGUE-RUYU)	0	0	1	1
			UNSPECIFIED	1	0	0	1
	ISABELA	CABAGAN	CENTRO	0	0	1	1
	NUEVA VIZCAYA	SANTA FE	BALILING	0	0	2	2
III	BATAAN	BALANGA CITY	SAN JOSE	1	0	0	1
		HERMOSA	ALMACEN	0	0	1	1
	BULACAN	SAN JOSE DEL MONTE CITY	SAPANG PALAY	0	0	1	1
	NUEVA ECIJA	SAN JOSE CITY	SIBUT	0	0	1	1
	PAMPANGA	ANGELES CITY	MALABANIAS	0	0	1	1
			PULUNGBULU	1	0	0	1
		APALIT	SAMPALOC	0	0	1	1
		ARAYAT	SAN AGUSTIN NORTE	1	0	0	1
		CANDABA	DALAYAP	0	0	1	1
		GUAGUA	SAN RAFAEL (DUCK ISLAND)	1	0	0	1
		LUBAO	CONCEPCION	0	0	1	1
		MABALACAT	DAPDAP	0	0	1	1
			MABIGA	1	0	1	2
			SANTA MARIA	0	0	1	1
		MEXICO	DIVISORIA	0	0	1	1
			PARIAN (POB.)	0	0	1	1
		MINALIN	SAN ISIDRO	0	0	1	1
		SAN FERNANDO CITY	DEL PILAR	0	0	1	1
			QUEBIAUAN	1	0	0	1
			SANTO NIÑO	0	0	1	1
		SANTA RITA	SAN BASILIO	0	0	1	1
	TARLAC	BAMBAN	LOURDES	0	0	1	1
			SAN NICOLAS (POB.)	0	0	2	2
	ZAMBALES	SAN ANTONIO	BURGOS (POB.)	0	0	1	1
IVA	BATANGAS	IBAAN	TULAY	0	0	1	1
		LIPA CITY	PUSIL	0	0	1	1
	CAVITE	BACOR	MOLINO IV	1	0	0	1
			ZAPOTE V	0	0	1	1
		DASMARIÑAS	LANGKAAN I	1	0	0	1
		GEN. MARIANO ALVAREZ	BARANGAY 2 POBLACION	0	0	1	1
			GAVINO MADERAN	0	0	1	1

Case counts reported here do NOT represent the final number and are subject to change after inclusion of delayed reports and review of cases. <sup>(1)</sup>Cluster Definition: 2 or more pertussis cases from the same barangay, reported within 4 consecutive weeks.





Epidemiology Bureau  
Public Health Surveillance Division

January 1 – September 30, 2017

ANNEX A. REPORTED PERTUSSIS CASES BY CASE CLASSIFICATION AND BARANGAY, *continuation*

REPORTED PERTUSSIS CASES PHILIPPINES, JANUARY 1 - SEPTEMBER 30, 2017 (N=205)							
REGION	PROVINCE	MUNCITY	BARANGAY	CONFIRMED CASES	PROBABLE CASES	SUSPECTED CASES	NO. OF CASES
IVA	CAVITE	MAGALLANES	BENDITA I	0	0	1	1
			URDANETA	0	0	1	1
		MENDEZ	ASIS I	0	0	1	1
			ASIS III	0	0	1	1
		SILANG	BILUSO	1	0	0	1
		TANZA	PARADAHAN I	1	0	0	1
		TERNATE	POBLACION III (BARANGAY III)	0	0	1	1
		TRECE MARTIRES CITY	CABUCO	0	0	2	2
			DE OCAMPO	0	0	1	1
	LAGUNA	CABUYAO	MAMATID	0	0	1	1
		PANGIL	SULIB	0	0	1	1
		SAN PABLO CITY	CONCEPCION	0	0	1	1
		SAN PEDRO	MAGSAYSAY	1	0	0	1
		SANTA ROSA	APLAYA	0	0	1	1
	QUEZON	LUCBAN	UNSPECIFIED	1	0	0	1
		LUCENA CITY	BARANGAY 8 (POB.)	1	0	0	1
			IBABANG DUPAY	0	0	1	1
			IBABANG IYAM	2	0	0	2
			ILAYANG IYAM	0	0	1	1
			MAYAO KANLURAN	1	0	0	1
		MULANAY	BARANGAY 4 (POB.)	0	0	1	1
		PAGBILAO	BARANGAY 1 CASTILLO (POB.)	1	0	0	1
			IKIRIN	1	0	0	1
			TALIPAN	0	1	0	1
		QUEZON	BARANGAY III (POB.)	0	0	1	1
		SAN NARCISO	WHITE CLIFF	1	0	0	1
		SARIAYA	MAMALA II	0	0	1	1
		TIAONG	LALIG	0	0	1	1
	RIZAL	ANTIPOLO CITY	SAN JOSE (POB.)	0	0	1	1
			SAN ROQUE (POB.)	0	0	1	1
		CAINTA	SAN ISIDRO	0	0	1	1
			SANTA ROSA	0	0	1	1
		RODRIGUEZ	SAN ISIDRO	0	0	2	2
		SAN MATEO	SANTA ANA	0	0	1	1
			SILANGAN	0	0	2	2
MIMAROPA	MARINDUQUE	GASAN	TIGUION	0	1	0	1
V	MASBATE	MILAGROS	MOISES R. ESPINOSA	0	0	1	1

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ANNEX A. REPORTED PERTUSSIS CASES BY CASE CLASSIFICATION AND BARANGAY, *continuation*

REPORTED PERTUSSIS CASES PHILIPPINES, JANUARY 1 - SEPTEMBER 30, 2017 (N=205)							
REGION	PROVINCE	MUNCITY	BARANGAY	CONFIRMED CASES	PROBABLE CASES	SUSPECTED CASES	NO. OF CASES
VI	NEGROS OCCIDENTAL	BACOLOD CITY	GRANADA	0	0	1	1
			VILLAMONTE	1	0	0	1
VII	CEBU	CEBU CITY	MAMBALING	1	0	0	1
			PARDO (POB.)	0	0	1	1
			TISA	0	0	1	1
			PAWA	0	0	1	1
		DUMANJUG	CANDUMAN	1	0	0	1
			MAGUIKAY	1	0	0	1
			OPAO	1	0	0	1
		NAGA	INAYAGAN	0	0	1	1
		SAN FRANCISCO	CONSUELO	0	0	1	1
		TABUELAN	TABUNOK	0	0	1	1
		TALISAY CITY	SAN ROQUE	0	0	1	1
VIII	LEYTE	TACLOBAN CITY	BARANGAY 74	0	0	1	1
IX	ZAMBOANGA DEL SUR	PAGADIAN CITY	UPPER SIBATANG	0	0	1	1
X	BUKIDNON	DON CARLOS	BOCBOC	0	0	1	1
		KALILANGAN	MALINAO	0	0	1	1
		LIBONA	SAN JOSE	0	0	1	1
		MALAYBALAY CITY	SILAE	1	0	0	1
	LANAO DEL NORTE	ILIGAN CITY	TUBOD	0	0	1	1
	MISAMIS ORIENTAL	CAGAYAN DE ORO CITY	PUNTOD	0	0	1	1
XI	DAVAO DEL NORTE	CARMEN	SANTO NIÑO	1	0	0	1
		TALAINGOD	DAGOHOY	0	0	1	1
	DAVAO DEL SUR	DAVAO CITY	BARANGAY 2-A (POB.)	0	0	1	1
			BARANGAY 20-B (POB.)	0	0	2	2
			BARANGAY 23-C (POB.)	0	0	1	1
			BUCANA	1	0	1	2
			BUHANGIN (POB.)	0	0	1	1
			CABANTIAN	0	0	1	1
			COMMUNAL	0	0	1	1
			DACUDAO	0	0	1	1
			MA-A	1	0	0	1
			MATINA APLAYA	0	0	1	1
			MATINA CROSSING	0	0	1	1
			PAMPANGA	0	0	1	1
			SASA	1	0	4	5
			TORIL (POB.)	0	0	1	1





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REGION	PROVINCE	MUNCITY	BARANGAY	CONFIRMED CASES	PROBABLE CASES	SUSPECTED CASES	NO. OF CASES
XI	DAVAO DEL SUR	PADADA	ALMENDRAS (POB.)	0	0	1	1
		SANTA CRUZ	ZONE III (POB.)	0	0	1	1
	DAVAO ORIENTAL	GOVERNOR GENEROSO	DON AURELIO CHICOTE	0	0	1	1
			PUNDAGUITAN	0	0	1	1
			TIBANBAN	0	0	1	1
		LUPON	DON MARIANO MARCOS	0	0	1	1
XII	NORTH COTABATO	M'LANG	BAGONTAPAY	0	0	1	1
	SOUTH COTABATO	NORALA	POBLACION	0	0	1	1
		TANTANGAN	POBLACION	0	0	1	1
	SULTAN KUDARAT	COLUMBIO	POBLACION	0	0	1	1
ARMM	LANAO DEL SUR	BAYANG	CADINGILAN OCCIDENTAL	0	0	1	1
	SULU	JOLO	BUS-BUS	0	0	1	1
CAR	BENGUET	LA TRINIDAD	LUBAS	0	0	1	1
			POBLACION	0	0	1	1
			TAWANG	2	0	0	2
CARAGA	AGUSAN DEL SUR	VERUELA	SANTA CRUZ	0	0	1	1
	SURIGAO DEL NORTE	SURIGAO CITY	SAN ROQUE	0	0	1	1
	SURIGAO DEL SUR	BISLIG CITY	POBLACION	1	0	0	1
		CARMEN	HINAPOYAN	0	0	4	4
		TANDAG	DAGOCDOC (POB.)	0	0	1	1
NCR	METRO MANILA	CALOOCAN CITY	BAGONG BARRIO	0	0	1	1
			BARANGAY 65	0	0	1	1
			BARANGAY 96	0	0	1	1
			BARANGAY 161	0	0	1	1
			BARANGAY 164	0	0	1	1
			BARANGAY 173	0	0	1	1
			BARANGAY 178	0	0	1	1
		LAS PIÑAS CITY	PULANG LUPA DOS	0	0	1	1
			PULANG LUPA UNO	0	0	1	1
		MAKATI CITY	COMEMBO	1	0	0	1
			EAST REMBO	0	0	1	1
			OLYMPIA	0	0	1	1
			PEMBO	1	0	0	1
			RIZAL	1	0	0	1
		MANDALUYONG	ADDITION HILLS	0	0	1	1





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REPORTED PERTUSSIS CASES PHILIPPINES, JANUARY 1 - SEPTEMBER 30, 2017 (N=205)							
REGION	PROVINCE	MUNCITY	BARANGAY	CONFIRMED CASES	PROBABLE CASES	SUSPECTED CASES	NO. OF CASES
NCR	METRO MANILA	MANILA	BARANGAY 579	0	0	1	1
			BARANGAY 669	0	0	1	1
			BARANGAY 773	0	0	1	1
			BARANGAY 826	0	0	1	1
			BARANGAY 91	0	0	1	1
		NAVOTAS	NORTH BAY BLVD., NORTH	0	0	1	1
			NORTH BAY BLVD., SOUTH	1	0	0	1
			SAN ROQUE	1	0	0	1
		PARAÑAQUE CITY	SAN DIONISIO	0	0	1	1
		PASIG CITY	BAGONG ILOG	1	0	0	1
			PINAGBUHATAN	1	0	0	1
			SANTO TOMAS	0	0	1	1
		QUEZON CITY	ALICIA	0	0	1	1
			BAESA	1	0	0	1
			BAGONG PAG-ASA	0	0	1	1
			BAHAY TORO	0	0	1	1
			BATASAN HILLS	1	0	1	2
			COMMONWEALTH	0	0	2	2
			HOLY SPIRIT	1	0	0	1
			MARILAG	0	0	1	1
			NORTH FAIRVIEW	0	0	1	1
			OBRERO	0	0	1	1
			OLD BALARA	0	0	1	1
			OLD CAPITOL SITE	0	0	1	1
			PASONG TAMO	1	0	2	3
			PAYATAS	1	0	1	2
			PAYATAS B	0	0	1	1
			PINYAHAN	0	0	1	1
			ROXAS	0	0	1	1
			SAN ROQUE	0	0	1	1
			SAUYO	0	0	1	1
			TANDANG SORA	0	0	1	1
			TATALON	0	0	1	1
		TAGUIG CITY	WESTERN BICUTAN	0	0	1	1
PHILIPPINES				46	2	157	205



ANNEX B. CLUSTER<sup>(1)</sup> OF PERTUSSIS CASES

MORBIDITY WEEK	REGION	PROVINCE	MUNCITY	BARANGAY	SUSPECT CASES	CONFIRMED CASES
8-11	XI	DAVAO DEL SUR	DAVAO CITY	SASA	3	1
14	CARAGA	SURIGAO DEL SUR	CARMEN	HINAPOYAN	4	0
16-18	III	TARLAC	BAMBAN	SAN NICOLAS (POB.)	2	0
17	II	CAGAYAN	BAGGAO	AGAMAN NORTE	2	0
18	CAR	BENGUET	LA TRINIDAD	TAWANG	0	2
20-21	NCR	METRO MANILA	QUEZON CITY	PAYATAS	1	1
22	IVA	QUEZON	LUCENA CITY	IBABANG IYAM	0	2
33-34	II	NUEVA VIZCAYA	SANTA FE	BALILING	2	0