



Epidemiology Bureau

Public Health Surveillance Division

**TRENDS IN THE PHILIPPINES**

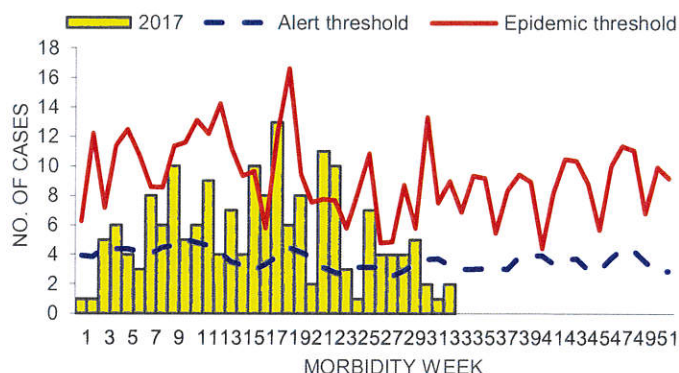
A total of **180** pertussis cases were reported nationwide from January 1 – September 2, 2017. This is **20% lower** than the same period last year (225 cases). Figure 1 shows the distribution of the reported pertussis cases in the country by morbidity week.

**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.

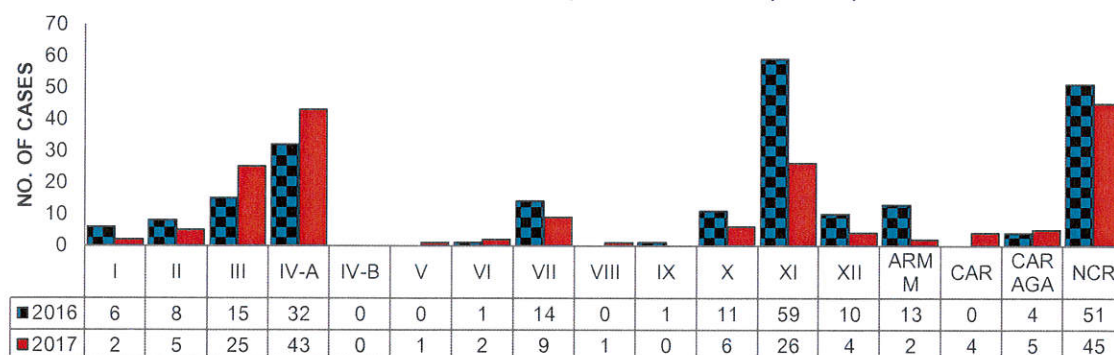
Table 1 indicates the reported pertussis cases by region in the Philippines. Forty (22.22%) cases were confirmed out of 180 cases. Among the reported cases, 9 cases have died with a CFR of 5%. Majority of the reported pertussis cases came from NCR (45, 25%), Regions 4A (43, 23.89%) and 11 (26, 14.44%). (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 2, 2017 (N=180)**



Seven pertussis cluster<sup>(1)</sup> were identified as of September 2, 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 2, 2017 (N=180)**



**Table 1. Reported Pertussis Cases by Region, Philippines, as of September 2, 2017 (N=180)**

REGION	Case Classification			Reported Cases	Died	CFR %
	Confirmed Cases	Probable Cases	Suspected Case			
I	0	0	2	2	0	0.00
II	2	0	3	5	0	0.00
III	6	0	19	25	2	8.00
IV-A	12	0	31	43	4	9.30
MIMAROPA	0	0	0	0	0	0.00
V	0	0	1	1	0	0.00
VI	1	0	1	2	0	0.00
VII	3	0	6	9	0	0.00
VIII	0	0	1	1	0	0.00
IX	0	0	0	0	0	0.00
X	1	0	5	6	0	0.00
XI	3	0	23	26	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	0	0	5	5	0	0.00
NCR	10	0	35	45	3	6.67
PHL	40	0	140	180	9	5.00





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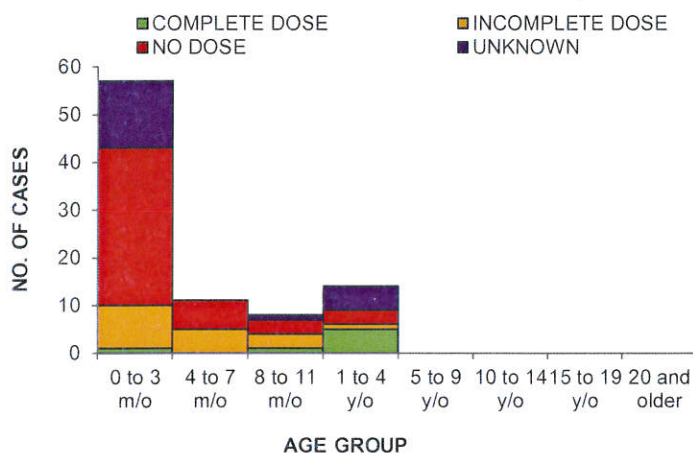
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**PROFILE OF CASES**

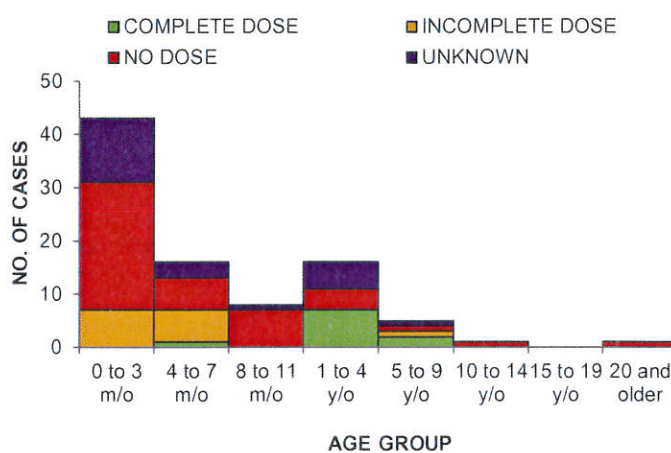
There are **90 males and females each**. Most (55.56%) of them belonged to the **0 to 3 months old age group**. Eighty nine (49.44%) cases were not administered with any dose of DPT/pentavalent vaccine.

As shown in Figure 3.1, 57 (63.33%) out of 90 reported male pertussis cases belonged to the 0 to 3 months old age group and 45 (50%) did not received any dose of DPT/Pentavalent. Whereas in Figure 3.2, majority of the reported female diphtheria cases, 43 (47.78%) of them belonged to the 0 to 3 months old age group and 44 (48.89%) 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 2, 2017 (n=90)**



**Fig. 3.2 Reported Female Pertussis Cases by DPT Doses and Age Group, Philippines, as of September 2, 2017 (n=90)**



**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 2, 2017 (N=180)						
REGION	PROVINCE	MUNCITY	BARANGAY	CONFIRMED CASES	SUSPECTED CASES	NO. OF CASES
01	PANGASINAN	DAGUPAN CITY	PUGARO SUIT	0	1	1
		SAN JACINTO	SAN VICENTE	0	1	1
02	CAGAYAN	BAGGAO	AGAMAN NORTE	1	2	3
		TUGUEGARAO CITY	PENGUE (PENGUE-RUYU)	0	1	1
			UNSPECIFIED	1	0	1
03	BATAAN	BALANGA CITY	SAN JOSE	1	0	1
		HERMOSA	ALMACEN	0	1	1
	BULACAN	SAN JOSE DEL MONTE CITY	SAPANG PALAY	0	1	1
	NUEVA ECIJA	SAN JOSE CITY	SIBUT	0	1	1
	PAMPANGA	ANGELES CITY	MALABANIAS	0	1	1
			PULUNGBULU	1	0	1
		APALIT	SAMPALOC	0	1	1
		ARAYAT	SAN AGUSTIN NORTE	1	0	1
		CANDABA	DALAYAP	0	1	1
		GUAGUA	SAN RAFAEL (DUCK ISLAND)	1	0	1
		LUBAO	CONCEPCION	0	1	1
		MABALACAT	DAPDAP	0	1	1
			MABIGA	1	1	2
			SANTA MARIA	0	1	1
		MEXICO	DIVISORIA	0	1	1
			PARIAN (POB.)	0	1	1
		MINALIN	SAN ISIDRO	0	1	1
		SAN FERNANDO CITY	DEL PILAR	0	1	1
			QUEBIAUAN	1	0	1
			SANTO NIÑO	0	1	1
	TARLAC	BAMBAN	LOURDES	0	1	1
			SAN NICOLAS (POB.)	0	2	2
	ZAMBALES	SAN ANTONIO	BURGOS (POB.)	0	1	1
04A	BATANGAS	IBAAN	TULAY	0	1	1
		LIPA CITY	PUSIL	0	1	1
	CAVITE	BACOR	MOLINO IV	1	0	1
			ZAPOTE V	0	1	1
		DASMARIÑAS	LANGKAAN I	1	0	1
		GEN. MARIANO ALVAREZ	BARANGAY 2 POBLACION	0	1	1
			GAVINO MADERAN	0	1	1
		MAGALLANES	BENDITA I	0	1	1
			URDANETA	0	1	1
		MENDEZ	ASIS I	0	1	1
			ASIS III	0	1	1
		SILANG	BILUSO	1	0	1
		TANZA	PARADAHAN I	1	0	1
		TERNATE	POBLACION III (BARANGAY III)	0	1	1
		TRECE MARTIRES CITY	CABUCO	0	1	1





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REPORTED PERTUSSIS CASES PHILIPPINES, JANUARY 1 - SEPTEMBER 2, 2017 (N=180)						
REGION	PROVINCE	MUNCITY	BARANGAY	CONFIRMED CASES	SUSPECTED CASES	NO. OF CASES
04A	LAGUNA	CABUYAO	MAMATID	0	1	1
		PANGIL	SULIB	0	1	1
		SAN PABLO CITY	CONCEPCION	0	1	1
		SAN PEDRO	MAGSAYSAY	1	0	1
		SANTA ROSA	APLAYA	0	1	1
	QUEZON	LUCBAN	UNSPECIFIED	1	0	1
		LUCENA CITY	BARANGAY 8 (POB.)	1	0	1
			IBABANG DUPAY	0	1	1
			IBABANG IYAM	2	0	2
			ILAYANG IYAM	0	1	1
			MAYAO KANLURAN	1	0	1
		MULANAY	BARANGAY 4 (POB.)	0	1	1
		PAGBILAO	BARANGAY 1 CASTILLO (POB.)	1	0	1
			IKIRIN	1	0	1
		QUEZON	BARANGAY III (POB.)	0	1	1
		SAN NARCISO	WHITE CLIFF	0	1	1
		SARIAYA	MAMALA II	0	1	1
		TIAONG	LALIG	0	1	1
	RIZAL	ANTIPOLO CITY	SAN JOSE (POB.)	0	1	1
			SAN ROQUE (POB.)	0	1	1
		CAINTA	SAN ISIDRO	0	1	1
			SANTA ROSA	0	1	1
		RODRIGUEZ	SAN ISIDRO	0	2	2
		SAN MATEO	SANTA ANA	0	1	1
			SILANGAN	0	2	2
05	MASBATE	MILAGROS	MOISES R. ESPINOSA	0	1	1
06	NEGROS OCCIDENTAL	BACOLOD CITY	GRANADA	0	1	1
			VILLAMONTE	1	0	1
07	CEBU	CEBU CITY	MAMBALING	1	0	1
			PARDO (POB.)	0	1	1
		DUMANJUG	PAWA	0	1	1
		MANDAUE CITY	CANDUMAN	1	0	1
			MAGUIKAY	1	0	1
		NAGA	INAYAGAN	0	1	1
		SAN FRANCISCO	CONSUELO	0	1	1
		TABUELAN	TABUNOK	0	1	1
08	LEYTE	TACLOBAN CITY	BARANGAY 74	0	1	1
10	BUKIDNON	DON CARLOS	BOCBOC	0	1	1
		KALILANGAN	MALINAO	0	1	1
		LIBONA	SAN JOSE	0	1	1
		MALAYBALAY CITY	SILAE	1	0	1
	LANAO DEL NORTE	ILIGAN CITY	TUBOD	0	1	1
	MISAMIS ORIENTAL	CAGAYAN DE ORO CITY	PUNTOD	0	1	1





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REGION	PROVINCE	MUNCITY	BARANGAY	CONFIRMED CASES	SUSPECTED CASES	NO. OF CASES
11	DAVAO DEL NORTE	CARMEN	SANTO NIÑO	1	0	1
		TALAINGOD	DAGOHOY	0	1	1
	DAVAO DEL SUR	DAVAO CITY	BARANGAY 2-A (POB.)	0	1	1
			BARANGAY 20-B (POB.)	0	1	1
			BARANGAY 23-C (POB.)	0	1	1
			BUCANA	1	1	2
			BUHANGIN (POB.)	0	1	1
			CABANTIAN	0	1	1
			COMMUNAL	0	1	1
			DACUDAO	0	1	1
			MA-A	0	1	1
			MATINA APLAYA	0	1	1
			PAMPANGA	0	1	1
			SASA	1	4	5
			TORIL (POB.)	0	1	1
		PADADA	ALMENDRAS (POB.)	0	1	1
		SANTA CRUZ	ZONE III (POB.)	0	1	1
	DAVAO ORIENTAL	GOVERNOR GENEROSO	DON AURELIO CHICOTE	0	1	1
			PUNDAGUITAN	0	1	1
			TIBANBAN	0	1	1
		LUPON	DON MARIANO MARCOS	0	1	1
12	NORTH COTABATO	M'LANG	BAGONTAPAY	0	1	1
	SOUTH COTABATO	NORALA	POBLACION	0	1	1
		TANTANGAN	POBLACION	0	1	1
	SULTAN KUDARAT	COLUMBIO	POBLACION	0	1	1
ARMM	LANAO DEL SUR	BAYANG	CADINGILAN OCCIDENTAL	0	1	1
	SULU	JOLO	BUS-BUS	0	1	1
CAR	BENGUET	LA TRINIDAD	LUBAS	0	1	1
			POBLACION	0	1	1
			TAWANG	2	0	2
CARAGA	SURIGAO DEL NORTE	SURIGAO CITY	SAN ROQUE	0	1	1
	SURIGAO DEL SUR	BISLIG CITY	POBLACION	0	1	1
		CARMEN	HINAPOYAN	0	3	3
NCR	METRO MANILA	CALOOCAN CITY	BAGONG BARRIO	0	1	1
			BARANGAY 65	0	1	1
			BARANGAY 96	0	1	1
			BARANGAY 161	0	1	1
			BARANGAY 164	0	1	1
			BARANGAY 178	0	1	1
		LAS PIÑAS CITY	PULANG LUPA DOS	0	1	1
			PULANG LUPA UNO	0	1	1
		MAKATI CITY	COMEMBO	1	0	1
			PEMBO	1	0	1
			RIZAL	1	0	1





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REGION	PROVINCE	MUNCITY	BARANGAY	CONFIRMED CASES	SUSPECTED CASES	NO. OF CASES
NCR	METRO MANILA	MANDALUYONG CITY	ADDITION HILLS	0	1	1
		MANILA	BARANGAY 579	0	1	1
			BARANGAY 669	0	1	1
			BARANGAY 773	0	1	1
			BARANGAY 826	0	1	1
			BARANGAY 91	0	1	1
		NAVOTAS	NORTH BAY BLVD., SOUTH	1	0	1
			SAN ROQUE	1	0	1
		PARAÑAQUE CITY	SAN DIONISIO	0	1	1
		PASIG CITY	BAGONG ILOG	1	0	1
			PINAGBUHATAN	1	0	1
			SANTO TOMAS	0	1	1
		QUEZON CITY	ALICIA	0	1	1
			BAESA	1	0	1
			BAGONG PAG-ASA	0	1	1
			BAHAY TORO	0	1	1
			BATASAN HILLS	0	2	2
			COMMONWEALTH	0	1	1
			HOLY SPIRIT	1	0	1
			MARILAG	0	1	1
			NORTH FAIRVIEW	0	1	1
			OBRERO	0	1	1
			OLD BALARA	0	1	1
			PASONG TAMO	0	1	1
			PAYATAS	1	1	2
			PAYATAS B	0	1	1
			PINYAHAN	0	1	1
			ROXAS	0	1	1
			SAN ROQUE	0	1	1
			SAUYO	0	1	1
			TANDANG SORA	0	1	1
			TATALON	0	1	1
PHILIPPINES				40	140	180

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

MORBIDITY WEEK	REGION	PROVINCE	MUNCITY	BARANGAY	NO. OF CASES
8-11	11	DAVAO DEL SUR	DAVAO CITY	SASA	4
14	CARAGA	SURIGAO DEL SUR	CARMEN	HINAPOYAN	3
16-18	03	TARLAC	BAMBAN	SAN NICOLAS (POB.)	2
17	02	CAGAYAN	BAGGAO	AGAMAN NORTE	2
18	CAR	BENGUET	LA TRINIDAD	TAWANG	2
20-21	NCR	METRO MANILA	QUEZON CITY	PAYATAS	2
22	04A	QUEZON	LUCENA CITY	IBABANG IYAM	2

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.