



January 1 – June 3, 2017

Epidemiology Bureau
Public Health Surveillance Division

Classification of Suspect Measles-Rubella Cases

A total of 1,381 suspect measles-rubella cases were reported nationwide from January 1 to June 3, 2017. Of these, 930 (67.34%) were tested. Among the suspect cases, **19 cases (1.38%)** were classified as **laboratory confirmed measles**, while **231 cases (16.73%)** were classified as **laboratory confirmed or epidemiologically-linked confirmed rubella**. Measles cases are **57.78% lower** while rubella cases are **200% higher** than the previous year of the same time period (see Table 2). Currently, there were no reported deaths among the confirmed measles-rubella cases.

FIGURE 1. CLASSIFICATION OF SUSPECT MEASLES-RUBELLA CASES, PHILIPPINES, JANUARY 1 – JUNE 3, 2017 (N=1,381)

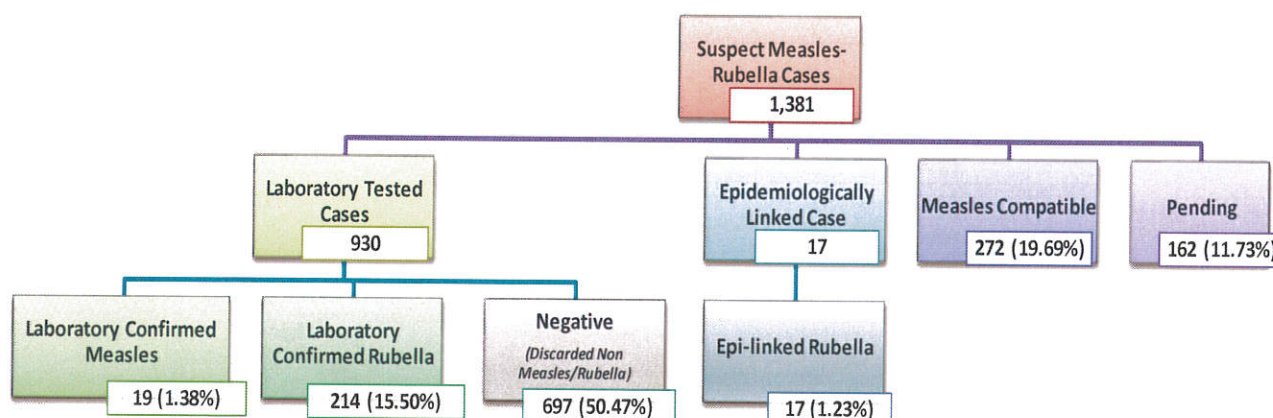


TABLE 1. MEASLES AND RUBELLA CASES BY REGION PHILIPPINES, JANUARY 1 – JUNE 3, 2017 (N=1,381)

REGION	REPORTED	LABORATORY CONFIRMED MEASLES	MEASLES COMPATIBLE	CONFIRMED RUBELLA		DISCARDED AS NON- MEASLES/RUBELLA	PENDING CLASSIFICATION
				LABORATORY CONFIRMED	EPI-LINKED CONFIRMED		
I	161	2	33	21	0	92	13
II	27	0	7	1	0	12	7
III	128	1	10	25	0	89	3
IVA	307	5	43	65	3	157	34
MIMAROPA	19	0	11	1	0	5	2
V	22	0	1	2	0	14	5
VI	59	0	1	13	4	37	4
VII	29	0	2	3	0	19	5
VIII	80	0	10	30	9	9	22
IX	46	4	25	3	0	7	7
X	67	1	23	3	0	24	16
XI	40	1	2	4	0	30	3
XII	42	0	3	1	0	34	4
ARMM	47	2	39	0	0	1	5
CAR	77	0	22	15	0	27	13
CRG	19	0	6	0	0	10	3
NCR	186	3	34	25	1	115	8
NIR	25	0	0	2	0	15	8
PHL	1,381	19	272	214	17	697	162

*NIR based on FHSIS Projected Population for 2017
see Annex A for confirmed measles cases by barangay



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FIGURE 2. GEOGRAPHICAL DISTRIBUTION OF CONFIRMED CASES*,
PHILIPPINES, JANUARY 1 – JUNE 3, 2017

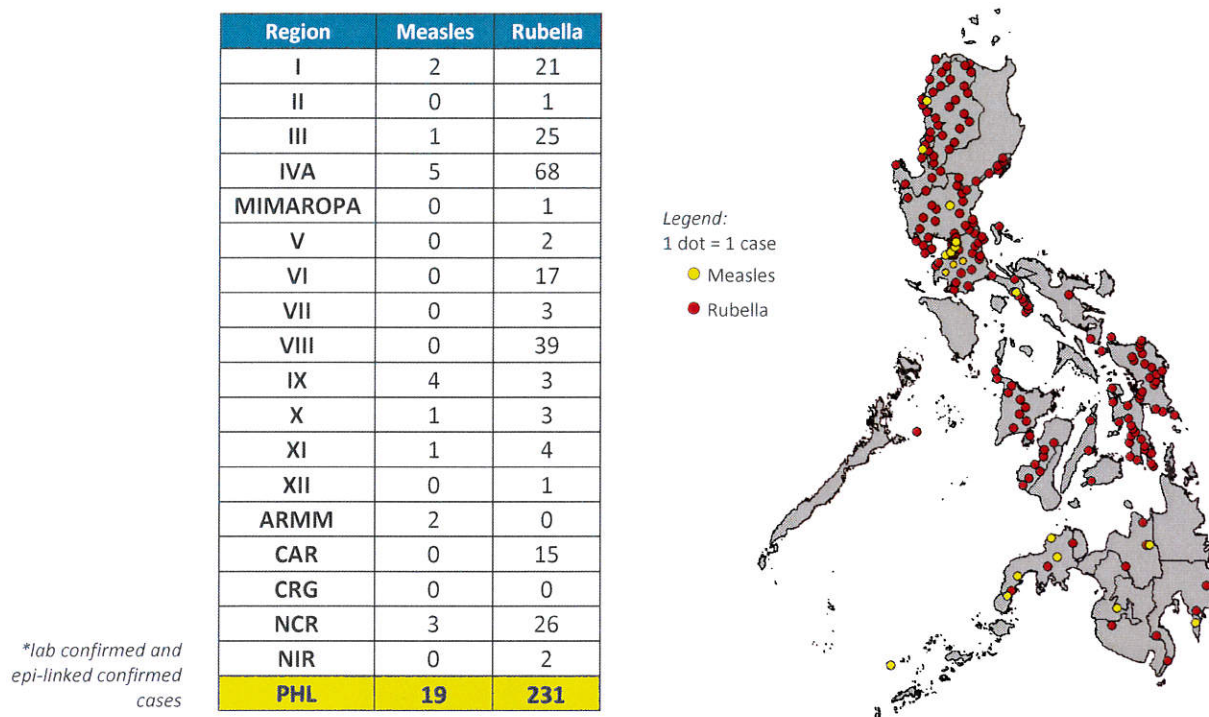


Figure 2 shows the distribution of cases among regions. For confirmed measles, Region IVA has the most number of cases with 5 (26.32%) cases.

Meanwhile, confirmed rubella cases are also highest in number in Region IVA with 68 (29.44%) cases followed by Region VIII (39, 16.88%) and NCR (26, 11.26%).

TABLE 2. CONFIRMED MEASLES AND RUBELLA CASES BY REGION
PHILIPPINES, 2016 vs. 2017

REGION	CONFIRMED MEASLES CASES			CONFIRMED RUBELLA CASES		
	2017	2016	% CHANGE	2017	2016	% CHANGE
I	2	3	↓ -33.33	21	3	↑ 600.00
II	0	1	↓ -100.00	1	0	↑ 100.00
III	1	2	↓ -50.00	25	2	↑ 1150.00
IVA	5	4	↑ 25.00	68	5	↑ 1260.00
MIMAROPA	0	0	⇒ 0.00	1	2	↓ -50.00
V	0	2	↓ -200.00	2	0	↑ 200.00
VI	0	2	↓ -200.00	17	45	↓ -62.22
VII	0	9	↓ -900.00	3	2	↑ 50.00
VIII	0	2	↓ -200.00	39	2	↑ 1850.00
IX	4	10	↓ -60.00	3	0	↑ 300.00
X	1	1	⇒ 0.00	3	2	↑ 50.00
XI	1	0	↑ 100.00	4	4	⇒ 0.00
XII	0	1	↓ -100.00	1	1	⇒ 0.00
ARMM	2	0	↑ 200.00	0	0	⇒ 0.00
CAR	0	3	↓ -300.00	15	2	↑ 650.00
CRG	0	2	↓ -200.00	0	0	⇒ 0.00
NCR	3	3	⇒ 0.00	26	7	↑ 271.43
NIR	0	-	-	2	-	-
PHL	19	45	↓ -57.78	231	77	↑ 200.00

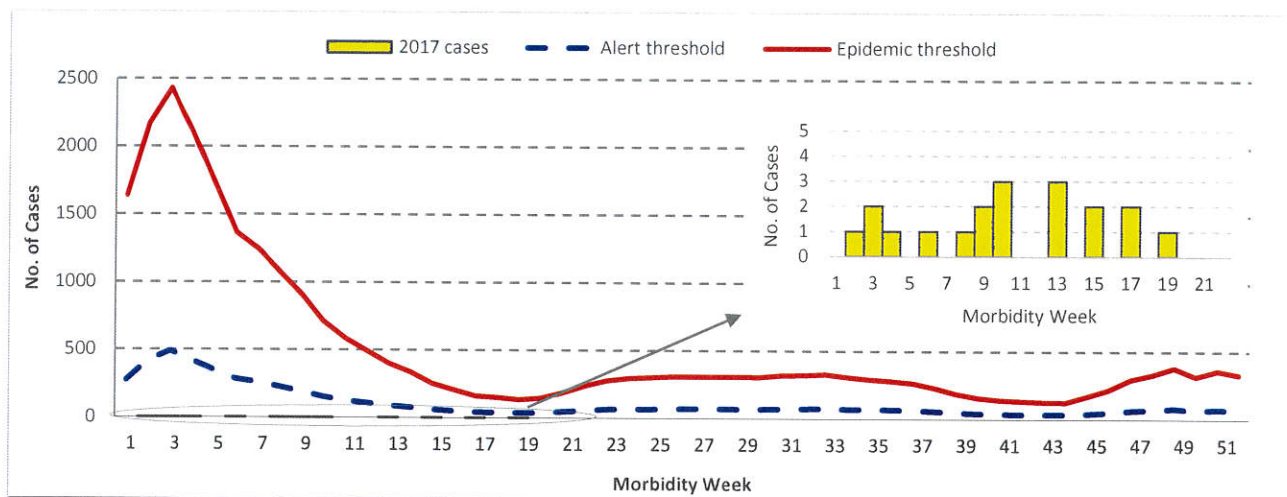
Case counts reported here do NOT represent the final number and are subject to change after inclusion of delayed reports and review of cases.



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**FIGURE 3. CONFIRMED MEASLES ALERT AND EPIDEMIC THRESHOLD
PHILIPPINES, JANUARY 1 – JUNE 3, 2017 (n=19)**

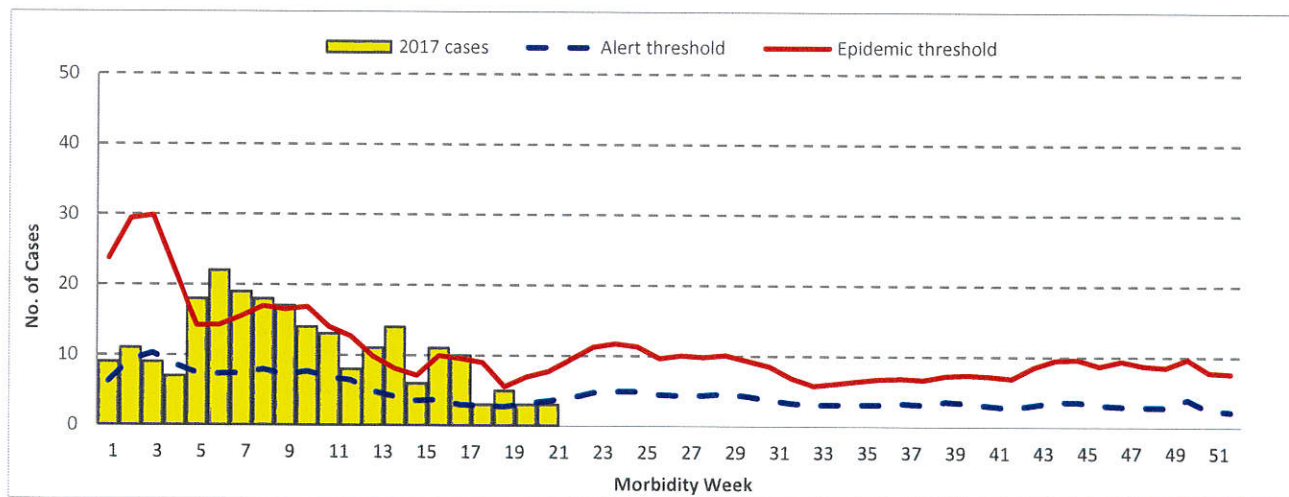


The current number of confirmed measles cases is still way below the alert threshold as shown in Figure 3. Annualized measles incidence rate is 0.36 per 1,000,000 population.

Figure 4 as shown below reflects the confirmed rubella cases in relation to the rubella alert and epidemic thresholds. It can be noted that the weekly number of rubella cases have almost consistently exceeded the alert threshold from weeks 1 to 20 except for weeks 3 and 4. It reached the epidemic threshold in morbidity weeks 5 to 9, 13, 14 and 16. As of morbidity week 22, annualized rubella incidence rate is 4.40 per 1,000,000 population. This indicates a high incidence of rubella in the country.

Note: Target incidence rate for measles and rubella elimination is <1 per 1,000,000 population

**FIGURE 4. CONFIRMED RUBELLA ALERT AND EPIDEMIC THRESHOLD
PHILIPPINES, JANUARY 1 – JUNE 3, 2017 (n=231)**



PCR Testing and Genotyping

There were 51 oropharyngeal/nasopharyngeal swabs submitted and tested by PCR for the current year. Among these, 6 cases had rubella virus RNA detected. Of the 6 cases, 3 have 2B genotype results and the other 3 did not undergo genotyping. None of the samples detected measles virus.



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Profile of Cases: MEASLES

FIGURE 5. CONFIRMED MEASLES CASES BY SEX, PHILIPPINES, JANUARY 1 – JUNE 3, 2017 (n=19)

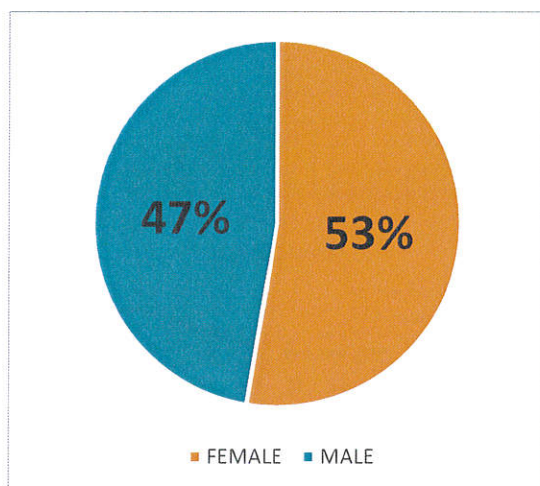
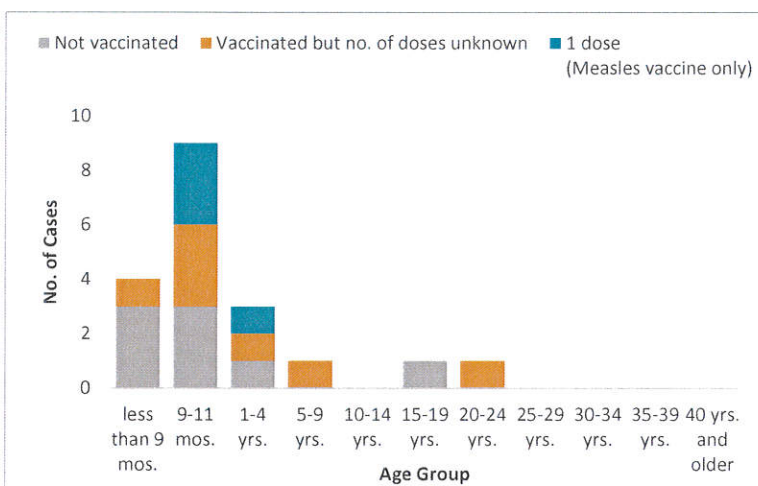


FIGURE 6. VACCINATION STATUS OF CONFIRMED MEASLES CASES BY AGE GROUP, PHILIPPINES, JANUARY 1 – JUNE 3, 2017 (n=19)



Ten (53%) of the 19 confirmed measles cases were female (Figure 5). Majority (47.37%) of the confirmed measles cases belonged to the 9-11 month old age group. Eight (42.11%) of the cases were not vaccinated, 7 (36.84%) cases were vaccinated but with unknown number of doses and 4 (21.05%) cases received 1 dose of measles vaccine as shown in Figure 6.

Profile of Cases: RUBELLA

FIGURE 7. CONFIRMED RUBELLA CASES BY SEX, PHILIPPINES, JANUARY 1 – JUNE 3, 2017 (n=231)

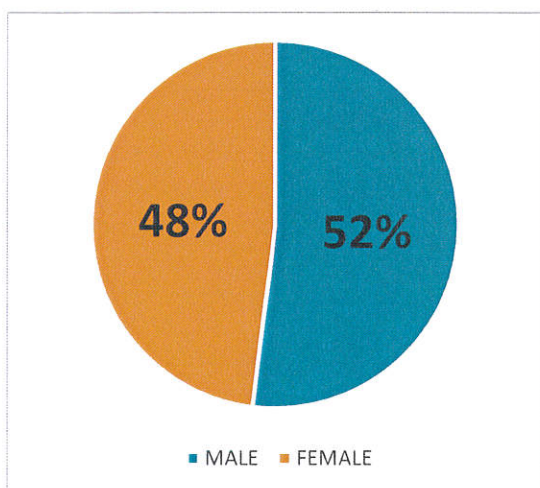
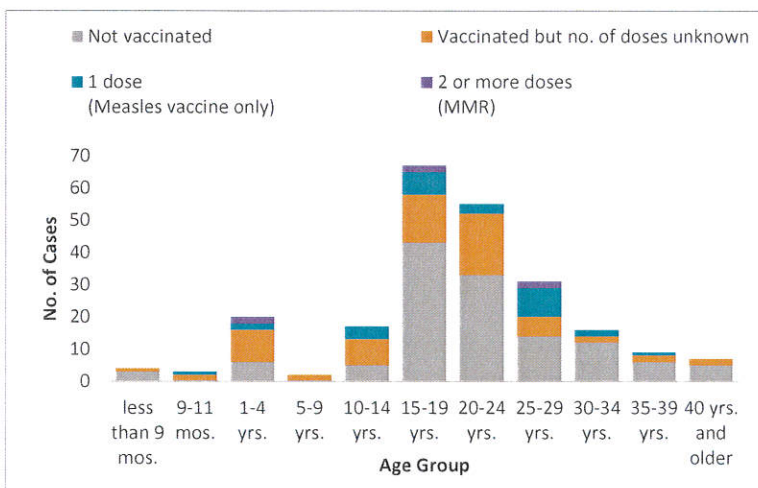


FIGURE 8. VACCINATION STATUS OF CONFIRMED RUBELLA CASES BY AGE GROUP, PHILIPPINES, JANUARY 1 – JUNE 3, 2017 (n=231)



Of the confirmed rubella cases, 120 (52%) cases were male (Figure 7). Majority (29%) of the confirmed rubella cases belonged to the 15-19 year old age group followed by the 20-24 year old age group (23.81%). Most (54.98%) of the cases were not vaccinated while only 6 (2.60%) received 2 or more doses inclusive of MMR vaccine as shown in Figure 8. Basis of vaccination status is only the number of measles-containing vaccine received.

Among the female confirmed rubella cases, 2 (1.80%) were reported as pregnant. These cases were from Pasay City and Itogon, Benguet. The case from Pasay City was lost to follow up while the other case is currently being monitored by the respective Epidemiology and Surveillance Unit (ESU) and Maternal, Newborn and Child Health and Nutrition (MNCHN) program manager.



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Clustering of Measles-Rubella Cases

No measles clusters and 10 rubella clusters were detected to date for year 2017. These cases were related in terms of place of residences and onset of symptoms, located in the same barangay or identified place of transmission (e.g. school in Northern Samar) and occurred within 4 consecutive weeks. Table 3 lists the rubella clusters identified since January 2017.

TABLE 3. CLUSTERS OF CONFIRMED RUBELLA CASES
PHILIPPINES, JANUARY 1 – JUNE 3, 2017 (N=10)

MW	Region	Province	Muncity	Barangay	Place of Transmission	No. of Confirmed Cases	No. of Suspect Cases
3	V	Camarines Norte	Labo	Malatap	Home/ Dormitory	2	0
3-7	NCR	Metro Manila	San Juan City	West Crame	Barangay/ Community	3	7
5-11	VIII	Northern Samar	San Antonio	Dalupirit Manraya Pilar San Nicolas Vinisitahan	School	35	19
7-10	IVA	Batangas	Batangas City	Kumintang Ilaya	School/Barangay	2	0
8-16	IVA	Batangas	Batangas City	Pallocan Kanluran	2 cases: Workplace 1 case: Barangay 1 case: Unknown	4	0
9	III	Pampanga	Mabalacat	Airforce City	Unknown	3	0
9-10	NCR	Metro Manila	Quezon City	Project 4	Unknown	2	0
10-11	IVA	Cavite	Dasmariñas City	Salawag	Unknown	2	0
16-19	VI	Aklan	Buruanga	Tag-osip	Barangay/ Community	13	1
16-19	IVA	Batangas	San Jose	Banaybanay II	Unknown	2	1

Actions Taken for Measles-Rubella Clusters and Cases:

1. Validation and provision of recommendations to the regions concerned
2. Dissemination of weekly disease surveillance reports to the Disease Prevention and Control Bureau (DPCB) specifically Family Health Office (FHO) and Infectious Disease Office (IDO) and Health Promotion and Communication Services (HPCS) providing updates on current status of measles-rubella cases for appropriate action

Measles Surveillance Performance Indicators:

Table 4 presents the surveillance performance of regions based on the indicators for measles surveillance. Countrywide incidence rate of 0.18 per 1,000,000 population has been achieved, reaching the target of <1 per 1,000,000 population. Regions IX and ARMM did not meet the target which implies increased occurrence of measles in these regions.

Surveillance performance on adequate blood collection, adequate case investigation, suspect measles reporting, non-measles/non-rubella reporting and reducing measles compatible cases are all still below the target. These surveillance indicators gauge the capacity of the country in achieving the measles elimination goal. Development of strategies and towards a highly functional surveillance system is vital towards attainment of measles control and eventually, towards elimination. Strategies may include intensification of active surveillance across the country through enhanced case reporting, specimen collection and case investigation.

see Annex B for measles surveillance performance indicators dictionary



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TABLE 4. MEASLES SURVEILLANCE PERFORMANCE INDICATORS BY REGION
PHILIPPINES, 2016 vs. 2017

REGION	POPULATION 2017	ANNUALIZED MEASLES INCIDENCE RATE		ADEQUATE BLOOD COLLECTION RATE		ADEQUATE CASE INVESTIGATION RATE		ANNUALIZED SUSPECT MEASLES REPORTING RATE		ANNUALIZED NON- MEASLES/ NON- RUBELLA REPORTING		PERCENTAGE OF MEASLES COMPATIBLE	
		Target: <1/1,000,000 Pop.		Target: ≥80%		Target: ≥80%		Target: ≥2/100,000 Pop.		Target: ≥2/100,000 Pop.		Target: <10%	
		2016	2017	2016	2017	2016	2017	2016	2017	2016	2017	2016	2017
I	5,263,258	1.56	0.76	44	79	40	74	3.97	6.12	1.51	3.50	55	20
II	3,595,623	0.57	0.00	80	74	75	74	1.68	1.50	1.28	0.67	20	26
III	11,427,139	0.17	0.18	81	92	77	85	1.25	2.24	0.93	1.56	19	8
IVA	14,659,353	0.86	0.68	74	84	61	73	2.08	4.19	1.32	2.14	23	14
MIMAROPA	3,216,466	0.00	0.00	47	37	42	37	1.86	1.18	0.88	0.31	49	58
V	6,266,652	0.68	0.00	76	82	75	77	1.00	0.70	0.59	0.45	24	5
VI	4,665,482	0.52	0.00	95	95	90	69	3.91	2.53	2.93	1.59	5	2
VII	6,245,285	1.32	0.00	96	93	93	86	1.28	0.93	1.03	0.61	4	7
VIII	4,704,894	0.45	0.00	35	35	33	56	1.76	3.40	0.45	0.38	65	13
IX	3,896,152	3.15	2.05	53	41	47	37	1.91	2.36	0.84	0.36	40	54
X	4,857,342	0.41	0.41	43	66	38	61	6.00	2.76	2.47	0.99	56	34
XI	5,153,130	0.40	0.39	88	95	86	90	1.97	1.55	1.59	1.16	12	5
XII	4,780,211	0.21	0.00	84	95	81	88	1.53	1.76	1.22	1.42	16	7
ARMM	3,896,848	0.56	1.03	26	17	26	9	0.53	2.41	0.08	0.05	74	83
CAR	1,847,347	1.67	0.00	84	68	84	65	4.46	8.34	3.18	2.92	13	29
CRG	2,828,583	1.13	0.00	67	63	67	58	2.30	1.34	1.39	0.71	34	32
NCR	12,918,977	0.45	0.46	76	82	70	75	1.76	2.88	1.11	1.78	19	18
NIR	4,698,855	-	0.00	-	100	-	88	-	1.06	-	0.64	-	0
PHL	104,921,597	0.73	0.36	70	76	65	70	-	2.63	-	1.33	29	20
LEGEND:		<1	≥1	≥80%	<80%	≥80%	<80%	≥2/100,000 Pop.	<2/100,000 Pop.	≥2/100,000 Pop.	<2/100,000 Pop.	<10%	≤50%
													>50%

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ANNEX A. CONFIRMED MEASLES AND RUBELLA CASES BY BARANGAY

CONFIRMED MEASLES CASES PHILIPPINES, JANUARY 1 - JUNE 3, 2017 (n=19)					
REGION	PROVINCE	MUNCITY	BARANGAY	NO. OF CASES as of MW1-21	NO. OF NEW CASES (MW22)
01	LA UNION	AGOO	SANTA ANA	1	0
	PANGASINAN	DAGUPAN CITY	MAYOMBO	1	0
03	PAMPANGA	LUBAO	SANTA CRUZ	1	0
04A	BATANGAS	LIPA CITY	MARAUOY	1	0
		SAN JOSE	SANTA ANA	1	0
	CAVITE	TANZA	SANJA MAYOR	1	0
	QUEZON	TAYABAS	BAGUIO	1	0
	RIZAL	ANTIPOLO CITY	SAN JOSE	1	0
09	ZAMBOANGA DEL SUR	ZAMBOANGA CITY	AYALA	1	0
			TUMAGA	1	0
	ZAMBOANGA SIBUGAY	KABASALAN	BUAYAN	1	0
			unspecified	1	0
10	MISAMIS ORIENTAL	MANTICAO	POBLACION	1	0
11	DAVAO DEL NORTE	ISLAND GARDEN CITY OF SAMAL	SAN ISIDRO (BABAK)	1	0
ARMM	BASILAN	LAMITAN CITY	COLONIA	1	0
			MATATAG	1	0
NCR	METRO MANILA	CALOOCAN CITY	BAGONG BARRIO	1	0
		MANILA CITY	BARANGAY 649	1	0
			TONDO	1	0
PHILIPPINES				19	0



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CONFIRMED RUBELLA CASES PHILIPPINES, JANUARY 1 - JUNE 3, 2017 (n=231)					
REGION	PROVINCE	MUNCITY	BARANGAY	NO. OF CASES as of MW1-21	NO. OF NEW CASES (MW22)
01	ILOCOS SUR	SAN VICENTE	SAN SEBASTIAN	1	0
		SANTA	BANAOANG	1	0
		VIGAN CITY	BARANGAY VII	1	0
	LA UNION	ARINGAY	NAGSANGALAN	1	0
			SANTA RITA EAST	1	0
		BANGAR	CADAPLI	1	0
			BACCUIT SUR	1	0
		BAUANG	PAYOCPOC NORTE ESTE	1	0
			PAYOCPOC SUR	1	0
		SAN FERNANDO CITY	BARANGAY I (POB.)	1	0
			LINGSAT	1	0
	PANGASINAN	BINMALEY	GAYAMAN	1	0
		DAGUPAN CITY	BONUAN BOQUIG	1	0
			BONUAN GUESET	1	0
			LUCAO	1	0
			MANGIN	1	0
			NAGUILAYAN	1	0
		MANAOAG	BABASIT	1	0
		MANGATAREM	MACARANG	1	0
SANTA BARBARA		TULIAO	1	0	
URDANETA CITY	NANCAMALIRAN WEST	1	0		
02	ISABELA	SANTIAGO CITY	SAGANA	1	0
03	BATAAN	MARIVELES	ALASASIN	1	0
			BALON-ANITO	1	0
			CAMAYA	2	0
		ORION	ARELLANO (POB.)	1	0
			GENERAL LIM (KAPUT)	1	0
	BULACAN	BALIUAG	SABANG	1	0
		CALUMPIT	PALIMBANG	1	0
		MALOLOS CITY	SAN VICENTE	1	0
			SANTO ROSARIO	1	0
		MARILAO	CAMANSI PRENZA III	1	0
			LAMBAKIN	1	0
		SANTA MARIA	SAN GABRIEL	1	0
		NUEVA ECIJA	SAN ANTONIO	PAPAYA	1
	PAMPANGA	MABALACAT CITY	AIRFORCE CITY	3	0
		SANTA ANA	SANTA MARIA	1	0
		SASMUAN	SAN PEDRO	1	0
	TARLAC	LA PAZ	DUMARAIS	1	0
	ZAMBALES	BOTOLAN	PORAC	1	0
		CANDELARIA	MALABON	1	0
		IBA	PALANGINAN	1	0
		SANTA CRUZ	NAULO	1	0
		SUBIC	ILWAS (POB.)	1	0
04A	BATANGAS	BATANGAS CITY	BARANGAY 15 (POB.)	1	0
			BARANGAY 18 (POB.)	1	0
			BARANGAY 19	1	0
			BARANGAY 20 (POB.)	1	0
			CONCEPCION	1	0
			KUMINTANG ILAYA	2	0
			PALLOCAN KANLURAN	4	0
			PALLOCAN WEST	1	0
			PINAMUCAN IBABA	1	0
			SAN ISIDRO	1	0
			SAN MIGUEL	1	0
			SANTO DOMINGO	1	0
			SIMLONG	1	0
			TABANGAO DAO	1	0
TINGA LABAK	1	0			



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REGION	PROVINCE	MUNCITY	BARANGAY	NO. OF CASES as of MW1-21	NO. OF NEW CASES (MW22)
04A	BATANGAS	LIPA CITY	BANAYBANAY	1	0
			MUNTING PULO	2	0
			POBLACION BARANGAY 2	1	0
			SAMPAGUITA	1	0
		ROSARIO	ITLUGAN	0	1
		SAN JOSE	BANAYBANAY II	2	0
			CALANSAYAN	1	0
			MAHABANG PARANG	1	0
		SAN LUIS	SAN ANTONIO	0	1
		SAN PASCUAL	SANTO NIÑO	1	0
	CAVITE	TAYSAN	MABAYABAS	1	0
		BACOR CITY	MOLINO III	1	0
		DASMARIÑAS CITY	BUROL I	1	0
			H-2	1	0
			MALAGASANG II-G	1	0
			MANGAS I	1	0
			MAYPAJO	1	0
			SALAWAG	2	0
			SAN ANTONIO DE PADUA I	1	0
			SAN DIONISIO (BARANGAY 1)	1	0
			SAN FRANCISCO I	1	0
			SAN ISIDRO LABRADOR I	1	0
			SAN JUAN (SAN JUAN I)	1	0
			SAN LORENZO RUIZ II	1	0
			SAN LUIS II	1	0
			SAN NICOLAS I	1	0
			SAN NICOLAS IV	1	0
			SANTA CRUZ I	1	0
			SANTA LUCIA (SAN JUAN II)	1	0
			SANTA MARIA (BARANGAY 20)	1	0
			VICTORIA REYES	2	0
		IMUS CITY	TANZANG LUMA II	1	0
		SILANG	BIGA I	1	0
			SAN VICENTE II	1	0
		TANZA	AMAYA III	1	0
			BIWAS	1	0
			CALIBUYO	1	0
		TERNATE	SAPANG I	1	0
	LAGUNA	SAN PABLO CITY	SAN GABRIEL	0	1
	QUEZON	SAN PEDRO	SAN VICENTE	1	0
		LOPEZ	unspecified	1	0
	RIZAL	ANTIPOLO CITY	DELA PAZ (POB.)	1	0
			SAN ISIDRO (POB.)	1	0
		TAYTAY	SAN JUAN	1	0
		TERESA	PRINZA	1	0
04B	PALAWAN	PUERTO PRINCESA CITY	SAN MIGUEL	1	0
05	CAMARINES NORTE	LABO	MALATAP	2	0
06	AKLAN	BURUANGA	HABANA	1	0
	CAPIZ	TAPAZ	TAG-OSIP	13	0
			POBLACION	1	0
07	ILOILO	PASSI CITY	MAN-IT	1	0
		SAN ENRIQUE	CAMIRI	1	0
		CEBU CITY	PUNTA PRINCESA	1	0
		COMPOSTELA	LUPA	1	0
		MANDAUE CITY	TABOK	1	0
08	NORTHERN SAMAR	SAN ANTONIO	DALUPIRIT	18	0
			MANRAYA	9	0
			PILAR	5	0
			SAN NICOLAS	4	0
			VINISITAHAN	2	0
	SAMAR	CATBALOGAN	MAULONG	1	0



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REGION	PROVINCE	MUNCITY	BARANGAY	NO. OF CASES as of MW1-21	NO. OF NEW CASES (MW22)
09	ZAMBOANGA DEL NORTE	DIPOLOG CITY	MIPUTAK (POB.)	1	0
	ZAMBOANGA DEL SUR	ZAMBOANGA CITY	BALIWASAN	1	0
10	MISAMIS OCCIDENTAL	OZAMIS CITY	TALON-TALON	1	0
		TANGUB CITY	MALAOUBANG	1	0
	MISAMIS ORIENTAL		BARANGAY VII - UPPER POLAO (POB.)	1	0
		COMPOSTELA VALLEY	CAGAYAN DE ORO CITY	PATAG	1
11	DAVAO DEL NORTE	MARAGUSAN	unspecified	1	0
		MARAGUSAN (POB.)	1	0	
	KAPALONG	GUPITAN	1	0	
		TAGUM CITY	TIBAL-OG (POB.)	1	0
12	SOUTH COTABATO	SURALLAH	RIZAL POBLACION	1	0
CAR	BENGUET	ATOK	ABIANG	1	0
		BAGUIO CITY	AURORA HILL	2	0
			CABINET HILL-TEACHER'S CAMP	1	0
			CAMP 7	1	0
			CAMP ALLEN	1	0
			ENGINEER'S HILL	1	0
			POLIWES	1	0
			SAN CARLOS HEIGHTS	1	0
			SANITARY CAMP, NORTH	1	0
			SANTO TOMAS PROPER	1	0
			UPPER WEST QUIRINO HILL	0	1
		ITOCON	LOACAN	1	0
		LA TRINIDAD	AMBIONG	1	0
			PICO	1	0
NCR	METRO MANILA	CALOOCAN CITY	BARANGAY 170	1	0
			BARANGAY 179	1	0
		MAKATI CITY	PITOGO	1	0
		MALABON CITY	TONSUYA	1	0
		MANDALUYONG CITY	PAG-ASA	1	0
			BARANGAY 399	1	0
			BINONDO	1	0
			BRGY. 33	1	0
			OLD SITE BASECO	1	0
			PACO	1	0
			PORT AREA	0	1
			SAMPALOC	1	0
			SANTA CRUZ	1	0
			BARRIO BANANA	1	0
		PARAÑAQUE CITY	DON GALO	1	0
			SAN DIONISIO	1	0
		PASAY CITY	BRGY. 145	1	0
		QUEZON CITY	MARIANA	1	0
			PAYATAS	0	1
			PROJECT 4	2	0
		SAN JUAN CITY	ONSE	2	0
			WEST CRAME	3	0
NIR	NEGROS OCCIDENTAL	ENRIQUE B. MAGALONA	POBLACION II (BARANGAY 2)	1	0
		VALLADOLID	DOLDOL	1	0
PHILIPPINES				225	6



January 1 – June 3, 2017

Epidemiology Bureau
Public Health Surveillance Division

ANNEX B. MEASLES SURVEILLANCE PERFORMANCE INDICATORS

- **Measles incidence rate:** target: $<1/1,000,000$ of the total population. It measures the progress of a country towards measles elimination. High incidence rate indicates persistence of measles transmission in some areas.
- **Adequate blood collection rate:** target: $\geq 80\%$ adequate specimen collected within 28 days from rash onset. This will facilitate the specificity (ability to determine measles virus as the cause of illness) of reported measles cases. With adequate specimen collection, there will be an access to identify the circulating measles virus in the community.
- **Timeliness and adequacy of investigation:** target: $\geq 80\%$ adequate investigation within 48 hours of notification, with collection of all 10 core variables. This provides venue to prevent further transmission of measles cases in the community, furthermore, provides immediate response to prevent potential outbreaks.
- **Suspect Measles Reporting Rate:** target: ≥ 2 per 100,000 of the total population. It measures the ability to detect suspect measles cases. Reporting an adequate number of suspected cases provides confidence that the system is sensitive to detect measles cases.
- **Non-Measles Reporting Rate:** target: ≥ 2 per 100,000 of the total population. If non-measles reporting rate is equal or proportion to the number of suspect measles cases in all regions, it gives us higher chance in attaining our goal of measles elimination. However, symptoms similar to that of measles may be attributed to another organism causing the illness.

ANNEX C. DEFINITION OF TERMS

Laboratory confirmed measles case	A suspect measles case with a positive laboratory test result for measles-specific IgM antibodies or other approved laboratory test method
Laboratory confirmed rubella case	A suspect measles case with a positive laboratory test result for rubella-specific IgM antibodies or other approved laboratory test method
Measles compatible case	A case that meets the suspect case definition for measles but for which no adequate blood specimen was taken and which has not been linked epidemiologically to another case positive for measles IgM or another laboratory-confirmed communicable disease
Confirmed Measles cases	Laboratory confirmed + Epidemiologically-linked measles cases
Epidemiologically-linked measles (or rubella) case	A suspect measles case that has not been confirmed by laboratory but that is geographically AND temporally related (with dates of rash onset occurring between 7 and 21 days apart) to a laboratory-confirmed case or (in the event of an outbreak) to another epidemiologically confirmed measles case.
Discarded non-measles/rubella	A case that meets the clinical case definition for measles and tested negative for both measles and rubella testing.
Pending Classification	Cases with blood specimen collected and pending laboratory results.
Alert threshold	Refers to the level of occurrence of disease that serves as an early warning for epidemics. An increase in the number of cases above the threshold level should trigger an investigation, epidemic preparedness and implement appropriate prevention and control measures.
Epidemic threshold	Refers to the level of occurrence of disease above which an urgent response is required. The threshold is specific to each disease and depends on the infectiousness, other determinants of transmission and local endemicity levels.
Cluster of cases	2 or more cases with temporal (occurring in a span of 4 weeks) and geographical association (within the same barangay)

