



### Classification of Suspect Measles-Rubella Cases

A total of 3,597 suspect measles-rubella cases were reported nationwide from January 1 to December 2, 2017. Of these, 2,184 (60.72%) were tested. Among the suspect cases, 251 (6.98%) were classified as **confirmed measles** and 448 (12.46%) cases were classified as **confirmed rubella** as shown in Table 1. Confirmed cases may be either laboratory confirmed or epidemiologically-linked cases. Measles cases are **253.52% higher** while rubella cases are **181.76% higher** than the previous year of the same reporting period. Case fatality rate of 1.99% (5 deaths) were reported among confirmed measles cases. No deaths were reported among confirmed rubella cases. (see Table 2)

**TABLE 1. MEASLES AND RUBELLA CASES BY REGION, PHILIPPINES, JANUARY 1 – DECEMBER 2, 2017 (N=3,597)**

REGION	REPORTED	CONFIRMED CASES					MEASLES COMPATIBLE	NEGATIVE FOR BOTH MEASLES & RUBELLA (DISCARDED AS NON-MEASLES/RUBELLA)	NEGATIVE FOR MEASLES ONLY (DISCARDED AS NON-MEASLES)	PENDING
		LAB CONFIRMED MEASLES	EPI-LINKED CONFIRMED MEASLES	LAB CONFIRMED RUBELLA	EPI-LINKED CONFIRMED RUBELLA	POSITIVE FOR BOTH MEASLES & RUBELLA (CO-INFECTION)				
I	401	3	0	32	0	0	101	211	27	27
II	57	0	0	6	0	0	11	35	0	5
III	390	25	0	42	0	1	44	194	11	73
IVA	586	10	0	96	2	0	105	294	6	73
MIMAROPA	57	0	0	2	0	0	33	21	0	1
V	64	0	0	3	0	0	18	38	2	3
VI	288	0	0	94	7	1	17	149	3	17
VII	57	2	0	5	0	1	6	35	1	7
VIII	81	0	0	31	9	0	15	21	0	5
IX	396	115	18	5	0	2	123	33	9	91
X	132	4	0	6	0	0	75	42	0	5
XI	86	3	0	5	0	0	2	46	1	29
XII	82	3	0	3	0	0	6	63	0	7
ARMM	371	47	7	1	0	0	281	7	1	27
CAR	187	0	0	58	0	0	52	72	1	4
CRG	44	1	0	1	0	0	19	19	0	4
NCR	318	8	0	34	1	0	65	192	0	18
<b>PHL</b>	<b>3,597</b>	<b>221</b>	<b>25</b>	<b>424</b>	<b>19</b>	<b>5</b>	<b>973</b>	<b>1,472</b>	<b>62</b>	<b>396</b>

see Annex A & B for confirmed measles and rubella cases by barangay

**FIGURE 1. GEOGRAPHICAL DISTRIBUTION OF CONFIRMED CASES\*, PHILIPPINES, JANUARY 1 – DECEMBER 2, 2017**

REGION	MEASLES	RUBELLA
I	3	32
II	0	6
III	26	43
IVA	10	98
MIMAROPA	0	2
V	0	3
VI	1	102
VII	3	6
VIII	0	40
IX	135	7
X	4	6
XI	3	5
XII	3	3
ARMM	54	1
CAR	0	58
CRG	1	1
NCR	8	35

\*lab confirmed and epi-linked confirmed cases

Legend:  
1 dot = 1 case  
● Measles  
● Rubella

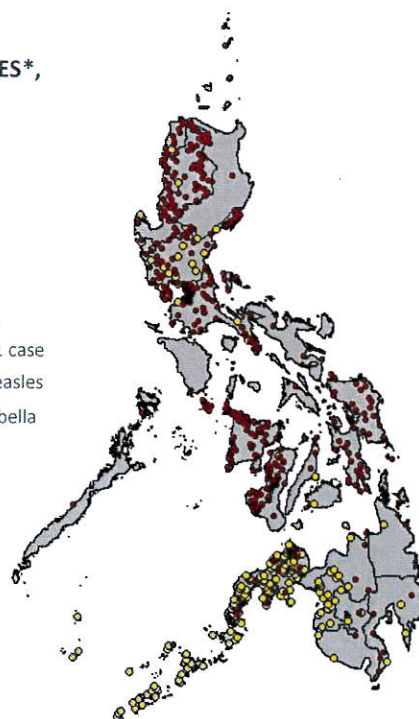






Figure 1 shows the distribution of cases among regions. Confirmed measles are highest in Mindanao specifically in Region IX with 135 (53.78%) cases and ARMM with 54 (21.51%) cases followed by Region III with 26 (10.36%) cases.

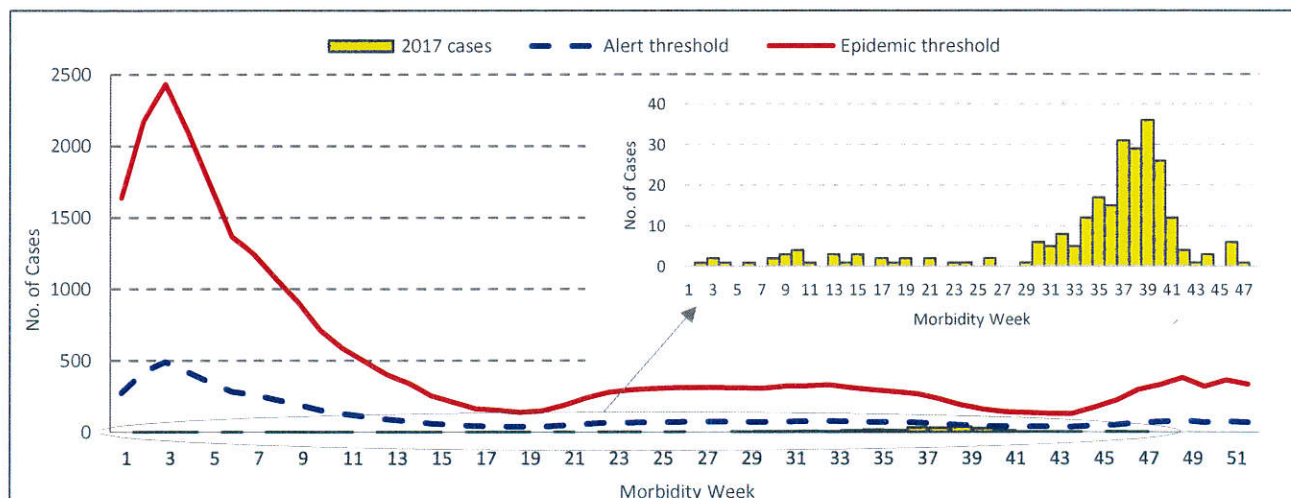
Meanwhile, confirmed rubella cases are highest in number in Region VI with 102 (22.77%) cases followed by Region IVA with 98 (21.88%) cases and CAR with 58 (12.95%) cases.

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

REGION	CONFIRMED MEASLES CASES					CONFIRMED RUBELLA CASES		
	2017	2016	% CHANGE	DEATHS	CFR (%)	2017	2016	% CHANGE
I	3	7	↓ -57.14	0	0.00	32	6	↑ 433.33
II	0	2	↓ -200.00	0	-	6	0	↑ 600.00
III	26	2	↑ 1,200.00	2	7.69	43	7	↑ 514.29
IVA	10	12	↓ -16.67	0	0.00	98	21	↑ 366.67
MIMAROPA	0	0	→ 0.00	0	-	2	2	→ 0.00
V	0	4	↓ -400.00	0	-	3	6	↓ -50.00
VI	1	4	↓ -75.00	0	0.00	102	55	↑ 85.45
VII	3	10	↓ -70.00	0	0.00	6	5	↑ 20.00
VIII	0	2	↓ -200.00	0	-	40	5	↑ 700.00
IX	135	11	↑ 1,127.27	1	0.74	7	0	↑ 700.00
X	4	2	↑ 100.00	0	0.00	6	7	↓ -14.29
XI	3	1	↑ 200.00	0	0.00	5	5	→ 0.00
XII	3	1	↑ 200.00	0	0.00	3	2	↑ 50.00
ARMM	54	2	↑ 2,600.00	1	1.85	1	0	↑ 100.00
CAR	0	3	↓ -300.00	0	-	58	8	↑ 625.00
CRG	1	2	↓ -50.00	0	0.00	1	0	↑ 100.00
NCR	8	6	↑ 33.33	1	12.50	35	30	↑ 16.67
<b>PHL</b>	<b>251</b>	<b>71</b>	<b>↑ 253.52</b>	<b>5</b>	<b>1.99</b>	<b>448</b>	<b>159</b>	<b>↑ 181.76</b>

\*no confirmed rubella deaths

**FIGURE 2. CONFIRMED MEASLES ALERT AND EPIDEMIC THRESHOLDS, PHILIPPINES, JANUARY 1 – DECEMBER 2, 2017 (n=251)**



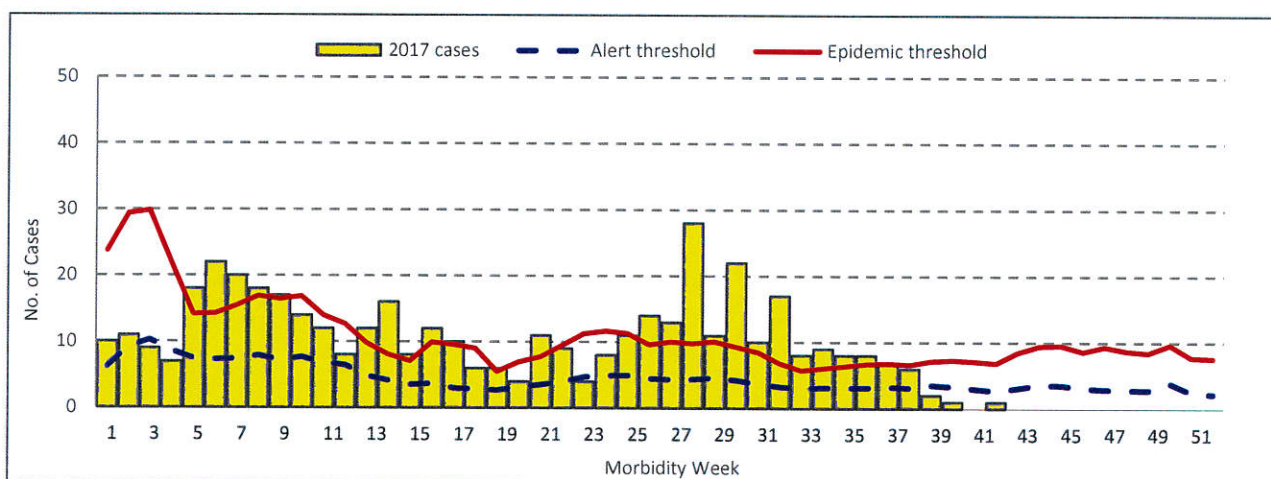




Number of confirmed measles cases began to increase in the month of August particularly in regions of Mindanao namely Region IX and ARMM. Up to this time, there is still active transmission of the virus and a number of suspect cases are continuously reported. Decrease in case confirmation for the past month is due to the lack of test kits in the Research Institute for Tropical Medicine (RITM). In relation to this, a portion (11%) of the reported cases are still pending either for testing or for transport. Annualized measles incidence rate is 2.61 per 1,000,000 population exceeding the target incidence of <1 per 1,000,000.

Figure 3 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 the start of the year until morbidity week 38. In various weeks, the epidemic threshold was reached. Annualized rubella incidence rate is 4.66 per 1,000,000 population, indicating a high incidence of rubella in the country.

**FIGURE 3. CONFIRMED RUBELLA ALERT AND EPIDEMIC THRESHOLDS, PHILIPPINES, JANUARY 1 – DECEMBER 2, 2017 (n=448)**

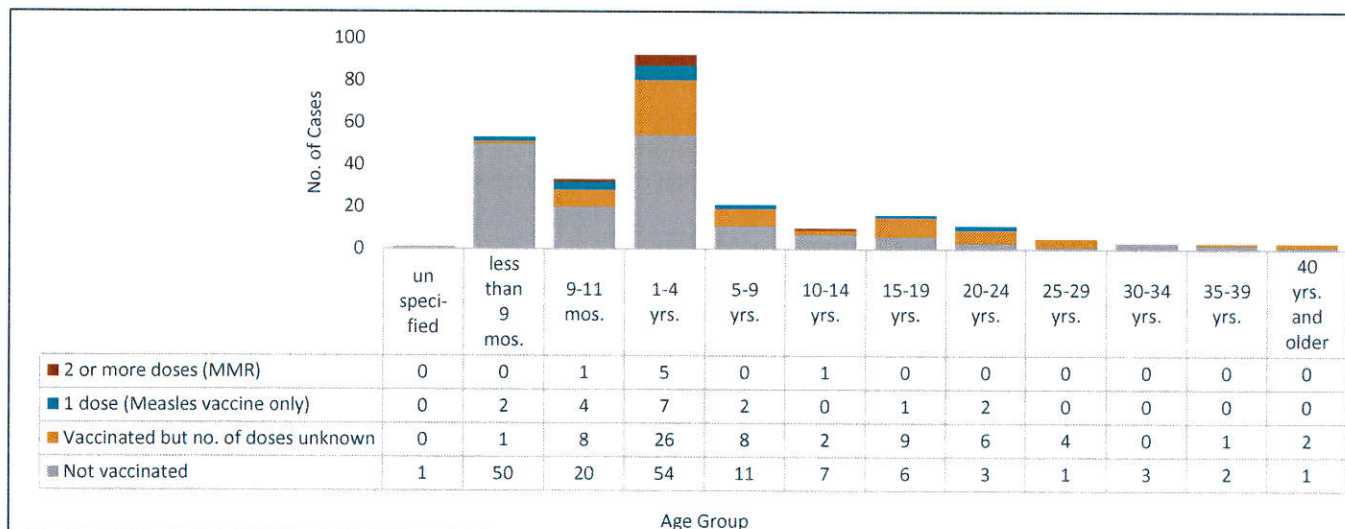


### Genotyping

For the current year, the circulating genotype found among tested measles cases (4) was B3 and for tested rubella cases (32) is 2B.

### Profile of Cases: MEASLES

**FIGURE 4. VACCINATION STATUS OF CONFIRMED MEASLES CASES BY AGE GROUP, PHILIPPINES, JANUARY 1 – DECEMBER 2, 2017 (n=251)**



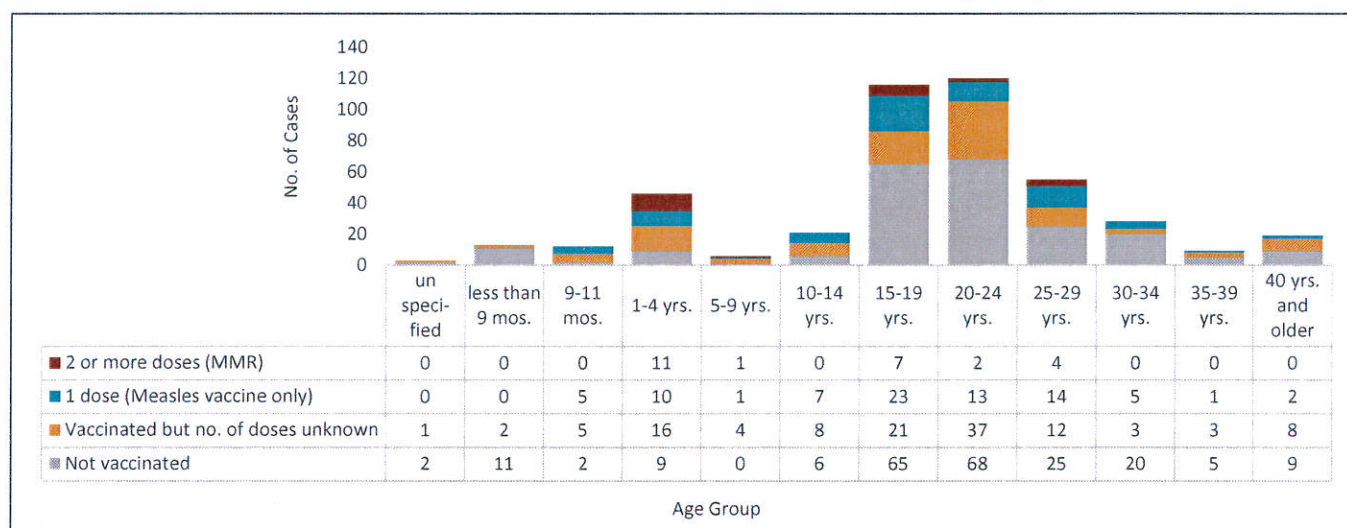




Among the confirmed measles cases, 142 (57%) cases were male. Most of the cases belong to the under five age groups. Ninety two (36.80%) of the confirmed measles cases belong to the 1-4 year old age group, 53 (21.20%) cases to the less than 9 month old age group and 33 (13.20%) cases to the 9-11 month old age group. One hundred fifty nine (63.35%) of the cases were not vaccinated, 67 (26.69%) cases were vaccinated but with unknown number of doses, 18 (7.17%) cases received 1 dose of measles vaccine and 7 (2.79%) cases received 2 doses of measles-containing vaccine as shown in Figure 4.

### Profile of Cases: RUBELLA

**FIGURE 5. VACCINATION STATUS OF CONFIRMED RUBELLA CASES BY AGE GROUP, PHILIPPINES, JANUARY 1 –DECEMBER 2, 2017 (n=448)**



Of the confirmed rubella cases, 241 (54%) cases were female. One hundred twenty (26.79%) of the confirmed rubella cases belong to the 20-24 year old age group followed by the 15-19 year old age group with 116 (25.89%) cases. It can be observed that most of the cases are among adults. Almost half (49.55%) of the cases were not vaccinated while only 25 (5.58%) received 2 or more doses inclusive of MMR vaccine as shown in Figure 5.

Among the female confirmed rubella cases, 7 (1.56%) were reported as pregnant. All pregnant cases are referred to the Maternal, Newborn and Child Health and Nutrition (MNCHN) program for monitoring of pregnancy and outcome of delivery. Exposure to rubella during pregnancy increases the risk of Congenital Rubella Syndrome (CRS) affecting the newborn.

### Increasing Measles Cases

There is a significant increase of suspect measles cases nationwide. However, due to stock-out of IgM serology testing kits in RITM, laboratory confirmation declined. Collection of OPS/NPS is highly encouraged since PCR testing may be performed. Confirmed measles cases are 253.52% higher than the previous year of the same reporting period. This prompted intensification of surveillance activities and outbreak investigations, immunization activities guided by the issued memorandum to all regions emphasizing all local government units (provinces/cities/municipalities) to conduct a selective house-to-house immunization and intensification of information campaign on prevention and early consultation.

### Measles Surveillance Performance Indicators

Table 3 presents the surveillance performance of regions based on the indicators for measles surveillance as part of the measles elimination strategies. Countrywide incidence rate of 2.61 per 1,000,000 population was reached, not achieving the target of <1 per 1,000,000 population. Regions III, IX and ARMM did not meet the regional targets which implies increased occurrence of measles in these regions, therefore raising the countrywide incidence rate beyond the target.

Surveillance performance on timeliness and adequacy of blood collection, timeliness and adequacy of case investigation, non-measles/non-rubella reporting and reducing measles compatible cases are all still below the target. Suspect measles reporting target of 2 per 100,000 population was achieved due to the increasing number of cases reported. 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 C for measles surveillance performance indicators dictionary

**TABLE 3. MEASLES SURVEILLANCE PERFORMANCE INDICATORS BY REGION, PHILIPPINES, 2016 vs. 2017**


REGION	POPULATION 2017	ANNUALIZED MEASLES INCIDENCE RATE		TIMELINESS & ADEQUACY OF BLOOD		TIMELINESS & ADEQUACY OF CASE INVESTIGATION		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	0.62	44	73	40	68	3.97	8.31	1.51	4.93	55	25
II	3,595,623	0.57	0.00	80	75	75	72	1.68	1.73	1.28	1.06	20	19
III	11,427,139	0.17	2.48	81	87	77	81	1.25	3.72	0.93	1.96	19	11
IVA	14,659,353	0.86	0.74	74	79	61	70	2.08	4.36	1.32	2.23	23	18
MIMAROPA	3,216,466	0.00	0.00	47	35	42	33	1.86	1.93	0.88	0.71	49	58
V	6,266,652	0.68	0.00	76	67	75	59	1.00	1.11	0.59	0.70	24	28
VI	7,919,887	0.52	0.14	95	91	90	73	3.91	3.97	2.93	2.09	5	6
VII	7,689,735	1.32	0.43	96	88	93	82	1.28	0.81	1.03	0.51	4	11
VIII	4,704,894	0.45	0.00	35	50	33	69	1.76	1.88	0.45	0.49	65	19
IX	3,896,152	3.15	37.80	53	63	47	45	1.91	11.09	0.84	1.18	40	31
X	4,857,342	0.41	0.90	43	42	38	37	6.00	2.96	2.47	0.94	56	57
XI	5,153,130	0.40	0.64	88	97	86	91	1.97	1.82	1.59	0.99	12	2
XII	4,780,211	0.21	0.68	84	91	81	87	1.53	1.87	1.22	1.44	16	7
ARMM	3,896,848	0.56	15.12	26	21	26	18	0.53	10.39	0.08	0.22	74	76
CAR	1,847,347	1.67	0.00	84	69	84	55	4.46	11.04	3.18	4.31	13	28
CRG	2,828,583	1.13	0.39	67	55	67	43	2.30	1.70	1.39	0.73	34	43
NCR	12,918,977	0.45	0.68	76	78	70	70	1.76	2.69	1.11	1.62	19	20
PHL	104,921,597	0.73	2.61	70	69	65	61	2.16	3.74	1.30	1.59	29	27
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 CASES BY BARANGAY**

CONFIRMED MEASLES CASES PHILIPPINES, JANUARY 1 - DECEMBER 2, 2017 (n=251)				
REGION	PROVINCE	MUNCITY	BARANGAY	NO. OF CONFIRMED CASES
01	LA UNION	AGOO	SANTA ANA	1
	PANGASINAN	DAGUPAN CITY	MAYOMBO	1
		INFANTA	PITA	1
03	BULACAN	GUIGUINTO	DAUNGAN	1
			POBLACION	1
		MARILAO	PRENZA I	1
	NUEVA ECIJA	CABANATUAN CITY	P. CRISOSTOMO	1
	PAMPANGA	CITY OF SAN FERNANDO	XEVORA	1
		LUBAO	SANTA CRUZ	1
		MABALACAT CITY	TABUN	1
			VEVERA	1
			O'DONNELL	1
	TARLAC	CAPAS	SAN ROQUE	2
		LA PAZ	ABOGADO	1
		PANIQUEI	BURGOS	1
		SAN JOSE	CUT-CUT II	3
			MATATALAIB	2
			SAN ISIDRO	2
			SAN JUAN DE MATA	2
			SAN LUIS	1
			SAN PASCUAL	1
			SAN RAFAEL	1
	ZAMBALES	OLONGAPO CITY	UNSPECIFIED	1
04A	BATANGAS	BATANGAS CITY	SAN JOSE SICO	1
			SIRANG LUPA	1
		LIPA CITY	MARAUOY	1
	CAVITE	DASMARIÑAS CITY	SANTA ANA	1
			EMMANUEL BERGADO I	1
		SANTA MARIA (BARANGAY 20)		1
	QUEZON	TANZA	SANJA MAYOR	1
		TAYABAS	BAGUIO	1
06	AKLAN	ANTIPOLO CITY	SAN JOSE	1
	CEBU		SAN LUIS	1
07	NEGROS ORIENTAL	TANGALAN	BAYBAY	1
		CONSOLACION	LAMAC	1
		MABINAY	BAGTIC	1
09	BASILAN	ISABELA CITY	VALENCIA	1
			BALABAG WEST	1
			UNSPECIFIED	1
			BALUNO	1
			BEGANG	4
			CABUNBATA	2
			DIKI	3
			KAPATAGAN	1
			KAPATAGAN GRANDE	1
			KAUMPURNAH I	1
			KAUMPURNAH III	2
			LA PIEDAD (POB.)	1
			LANOTE	1
			LATUAN BALUNO	1
			LUKKETON	1
			MAGCAWA	1
			MALAMAWI	1
			MARKETSITE (POB.)	1
			RIVERSIDE	1
			SAN RAFAEL	2
			SANTA CRUZ (POB.)	1
			SMALL KAPATAGAN	1
			SUMAGDANG	5
			SUNRISE VILLAGE (POB.)	1
			TABIAWAN	1
			TABUK	3



CONFIRMED MEASLES CASES PHILIPPINES, JANUARY 1 - DECEMBER 2, 2017 (n=251)						
REGION	PROVINCE	MUNCITY	BARANGAY	NO. OF CONFIRMED CASES		
09	BASILAN	ISABELA CITY	TABUK (POB.)	1		
			TAMPALAN	5		
			TIMPUL	1		
			UNGKAYA PUKAN	1		
	ZAMBOANGA DEL NORTE	DIPOLOG CITY	UPPER MALIGUE	1		
			ESTACA (POB.)	1		
	ZAMBOANGA DEL SUR	ZAMBOANGA CITY	SIOCON	TABAYO	1	
			UNSPECIFIED	5		
			AYALA	2		
			BALIWASAN	4		
			BALUWASAN	1		
			CALARIAN	1		
			CALIANAN	1		
			CANELAR MORET	1		
			CAWIT	1		
			GUIWAN	1		
			GUIWAN PORCENTRO	1		
			KALAMBUAN	1		
			KASANYANGAN	1		
			LANTAWAN	1		
			LUNZURAN	1		
			MAASIN	1		
			MERCEDES	5		
			PASOBOLONG	2		
			PATALON	1		
			PORCENTRO	1		
			PUTIK	2		
			QUINIPUT	1		
			RECODO	3		
			SAN JOSE	1		
			SAN JOSE GUSU	3		
			SAN ROQUE	4		
			SANGALI	2		
			SANTA CATALINA	2		
			SANTA MARIA	2		
			SANTO NIÑO	1		
			SINUNOC	3		
			STA. BARBARA	1		
			TALON-TALON	9		
			TALUKSANGAY	2		
			TETUAN	1		
			TUGBUNGAN	2		
			TUMAGA	9		
			UPPER CABATANGAN	1		
			ZAMBOANGA SIBUGAY	KABASALAN	UNSPECIFIED	1
					BUAYAN	1
				MALANGAS	GACBUSAN	2
					REBOCON	1
			10	LANAO DEL NORTE	ILIGAN CITY	PINDAGANGAN
MISAMIS OCCIDENTAL	OZAMIS CITY	BAGACAY		1		
	TANGUB CITY	BALATACAN		1		
11	MISAMIS ORIENTAL	MANTICAO	POBLACION	1		
	DAVAO DEL NORTE	ISLAND GARDEN CITY OF SAMAL	SAN ISIDRO (BABAK)	1		
	DAVAO DEL SUR	DAVAO CITY	UNSPECIFIED	1		
BARANGAY 23-C (POB.)			1			
12	COTABATO CITY	COTABATO CITY	UNSPECIFIED	2		
	SOUTH COTABATO	SURALLAH	TALAHIK	1		





Epidemiology Bureau  
 Public Health Surveillance Division

January 1 – December 2, 2017

CONFIRMED MEASLES CASES PHILIPPINES, JANUARY 1 - DECEMBER 2, 2017 (n=251)				
REGION	PROVINCE	MUNCITY	BARANGAY	NO. OF CONFIRMED CASES
ARMM	BASILAN	AL-BARKA	BOHE-PIANG	2
			KAILIH	1
			MANGALUT	1
		LAMITAN CITY	BATO	2
			COLONIA	1
			LIMO-OK	2
			MATATAG	1
			ULAME	1
			ATONG-ATONG	1
		LANTAWAN	CANIBUNGAN	1
			PANIONGAN	1
			SANGBAY BIG	3
			SAMAL VILLAGE	1
		MALUSO	TOWN SITE	1
			ETTUB-ETTUB	1
		SUMISIP	MEBAK	1
			TONGSENGAL	1
			BOHE-PAHUH	1
		TIPO-TIPO	BOHE-SUYAK	1
			SILANGKUM	1
			UNGKAYA PUKAN	ULITAN
	LANAO DEL SUR	MALABANG	CURAHAB	1
		MARAWI CITY	UNSPECIFIED	1
		PICONG	MALADEG	1
			TUAL	1
	MAGUINDANAO	DATU PIANG	UNSPECIFIED	1
	SULU	HADJI PANGLIMA TAHIL	BANGAS (POB.)	1
			KABUUKAN	2
		INDANAN	BUANZA	1
			LANGPAS	1
			UNSPECIFIED	1
		JOLO	ASTURIAS	5
			BUS-BUS	1
GODINEZ			1	
SAN RAYMUNDO			3	
KANAWAY			1	
MALIGAY			1	
PATIKUL		PANGLAYAHAN	1	
TALIPAO		LOWER LAUS	1	
TAWI-TAWI		BONGAO	LAMION	1
		SITANGKAI	UNSPECIFIED	1
CARAGA	SURIGAO DEL SUR	MADRID	PATONG-PATONG	1
NCR	METRO MANILA	CALOOCAN CITY	BAGONG BARRIO	1
		MAKATI CITY	KASILAWAN	1
		MANILA CITY	BARANGAY 649	1
			TONDO	2
		MUNTINLUPA CITY	ALABANG	1
		PARAÑAQUE CITY	BACLARAN	1
QUEZON CITY	OLD BILIBID	1		
PHILIPPINES				251





**ANNEX B. CONFIRMED RUBELLA CASES BY BARANGAY**

CONFIRMED RUBELLA CASES				
PHILIPPINES, JANUARY 1 - DECEMBER 2, 2017 (n=448)				
REGION	PROVINCE	MUNCITY	BARANGAY	NO. OF CONFIRMED CASES
01	ILOCOS SUR	SAN ESTEBAN	POBLACION	1
		SAN VICENTE	SAN SEBASTIAN	1
		SANTA	BANAOANG	1
		VIGAN CITY	BARANGAY VII	1
			NAGSANGALAN	1
	LA UNION	ARINGAY	SAN BENITO SUR	1
			SANTA RITA EAST	1
		BACNOTAN	BURAYOC	1
		BANGAR	CADAPLI	1
			BACCUIT SUR	1
		BAUANG	PAYOCPOC NORTE ESTE	1
			PAYOCPOC SUR	1
		CABA	SAN JOSE	1
			BAGBAG	1
		SAN FERNANDO CITY	BARANGAY I (POB.)	1
			CARLATAN	1
			LINGSAT	1
		SUDIPEN	SAN FRANCISCO SUR	1
	PANGASINAN	BINMALEY	GAYAMAN	1
			BONUAN BOQUIG	1
			BONUAN GUESET	1
			COLDIT	1
			LUCAO	1
			MACARANG	1
			MANGIN	1
			NAGUILAYAN	1
			POBLACION	1
		MANAOAG	BABASIT	1
		SANTA BARBARA	MANINGDING	1
			TULIAO	1
02	ISABELA	URDANETA CITY	NANCAMALIRAN WEST	1
		VILLASIS	UNZAD	1
		CAUAYAN CITY	SAN LUIS	1
		ILAGAN	ALIBAGU	1
		ROXAS	BANTUG (POB.)	1
03	AURORA	SAN AGUSTIN	LAOAG	1
		SANTIAGO CITY	CENTRO WEST	1
			SAGANA	1
		MARIA AURORA	DECOLIAT	1
			ALAS ASIN	1
	BATAAN	BALANGA CITY	UPPER TUYO	1
			ALASASIN	1
		MARIVELES	BALON-ANITO	2
			CAMAYA	2
			ARELLANO (POB.)	1
		ORION	DAANG BAGO (POB.)	1
			GENERAL LIM (KAPUT)	1
	BULACAN	BALIUAG	CATACTE	1
			SABANG	1
		CALUMPIT	PALIMBANG	1
			PULONG GUBAT	1
		GUIGUINTO	SANTA CRUZ	1
			STA. CRUZ	1
		MALOLOS CITY	SAN VICENTE	1
			SANTO ROSARIO	1
		MARILAO	CAMANSI PRENZA III	1
			LAMBAKIN	1
		SAN ILDEFONSO	MALIPAMPANG	1
			SAN GABRIEL	1
		SANTA MARIA	SAN ROQUE	1





Epidemiology Bureau  
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CONFIRMED RUBELLA CASES PHILIPPINES, JANUARY 1 - DECEMBER 2, 2017 (n=448)				
REGION	PROVINCE	MUNCITY	BARANGAY	NO. OF CONFIRMED CASES
03	NUEVA ECIJA	CABANATUAN CITY	M. S. GARCIA	1
		SAN ANTONIO	PAPAYA	1
		SCIENCE CITY OF MUÑOZ	POBLACION NORTH	1
	PAMPANGA	CITY OF SAN FERNANDO	BULAON	1
		MABALACAT CITY	AIRFORCE CITY	3
		SANTA ANA	SANTA MARIA	1
		SASMUAN	SAN PEDRO	1
		LA PAZ	DUMARAIS	1
	TARLAC	MONCADA	POBLACION 4	1
		TARLAC CITY	CUT-CUT II	1
			SAN ISIDRO	1
	ZAMBALES	BOTOLAN	PORAC	1
		CANDELARIA	MALABON	1
		IBA	PALANGINAN	1
		OLONGAPO CITY	NEW CABALAN	1
		SANTA CRUZ	NAULO	1
		SUBIC	ILWAS (POB.)	1
04A	BATANGAS	BATANGAS CITY	BANABA SOUTH	1
			BARANGAY 15 (POB.)	1
			BARANGAY 18 (POB.)	1
			BARANGAY 19	1
			BARANGAY 20 (POB.)	1
			CONCEPCION	2
			DUMANTAY	1
			KUMINTANG ILAYA	2
			MAHACOT KANLURAN	1
			PALLOCAN KANLURAN	5
			PALLOCAN SILANGAN	1
			PINAMUCAN IBABA	1
			SAN ISIDRO	1
			SAN MIGUEL	1
			SANTO DOMINGO	1
			SIMLONG	1
			TABANGAO DAO	1
			TALAHIB PANDAYAN	1
			TINGA LABAK	1
			TULO	1
			WAWA	1
		LIPA CITY	BALINTAWAK	1
			BULACNIN	2
			MATAAS NA LUPA	1
			MUNTING PULO	2
			PANGAO	1
			POBLACION BARANGAY 2	1
			QUEZON	2
			SAMPAGUITA	1
			SAN SEBASTIAN (BALAGBAG)	1
		ROSARIO	ITLUGAN	1
		SAN JOSE	BANAYBANAY II	2
			CALANSAYAN	1
			MAHABANG PARANG	1
			PINAGTUNG-ULAN	1
			TULAY IBAAN	1
		SAN JUAN	BUHAY NA SAPA	1
		SAN LUIS	SAN ANTONIO	1
		SAN PASCUAL	SANTO NIÑO	1
		TANAUAN CITY	PANTAY BATA	1
		TAYSAN	MABAYABAS	1
	CAVITE	BACOR CITY	LIGAS III	1
		DASMARIÑAS CITY	MOLINO III	2
			BUROL I	1
			H2	2
			MANGAS I	1
			MAYPAJO	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.





CONFIRMED RUBELLA CASES PHILIPPINES, JANUARY 1 - DECEMBER 2, 2017 (n=448)				
REGION	PROVINCE	MUNCITY	BARANGAY	NO. OF CONFIRMED CASES
04A	CAVITE	DASMARIÑAS CITY	SALAWAG	2
			SAN ANTONIO DE PADUA I	1
			SAN DIONISIO (BARANGAY 1)	1
			SAN FRANCISCO I	1
			SAN ISIDRO LABRADOR I	1
			SAN JUAN (SAN JUAN I)	1
			SAN LORENZO RUIZ II	1
			SAN LUIS II	1
			SAN NICOLAS I	1
			SAN NICOLAS IV	1
			SANTA CRUZ I	1
			SANTA FE	1
			SANTA LUCIA (SAN JUAN II)	1
			SANTA MARIA (BARANGAY 20)	1
			VICTORIA REYES	2
		GENERAL TRIAS	SANTIAGO	1
		IMUS CITY	MALAGASANG II-G	1
			TANZANG LUMA II	1
		SILANG	BIGA I	1
			SAN VICENTE II	1
		TANZA	AMAYA III	1
			BIWAS	1
			CALIBUYO	1
		TERNATE	SAPANG I	1
	LAGUNA	NAGCARLAN	MARAVILLA	1
		SAN PABLO CITY	SAN GABRIEL	1
		SAN PEDRO	SAN VICENTE	1
	QUEZON	LOPEZ	UNSPECIFIED	1
		LUCENA CITY	IBABA IYAM	1
	RIZAL	ANTIPOLO CITY	DELA PAZ (POB.)	1
			MAMBUGAN	1
			MAYAMOT	1
			SAN ISIDRO (POB.)	1
			SAN ROQUE (POB.)	1
		BINANGONAN	MACAMOT	1
		TAYTAY	SAN JUAN	1
		TERESA	PRINZA	1
MIMAROPA	PALAWAN	PUERTO PRINCESA CITY	SAN MIGUEL	1
	ROMBLON	SANTA FE	PANDAN	1
05	CAMARINES NORTE	LABO	MALATAP	2
	SORSOGON	SORSOGON CITY	SAN JUAN	1
06	AKLAN	ALTAVAS	DALIPDIP	1
		BALETE	CALIZO	1
			FELICIANO	1
		BANGA	POLOCATE	1
			TABA-AO	1
			TABAYON	1
			UGSOD	1
		BATAN	CAMALIGAN	1
			MAMBUQUIAO	1
		BURUANGA	HABANA	1
			MAYAPAY	1
			TAG-OSIP	16
		IBAJAY	MALOCO	1





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CONFIRMED RUBELLA CASES PHILIPPINES, JANUARY 1 - DECEMBER 2, 2017 (n=448)				
REGION	PROVINCE	MUNCITY	BARANGAY	NO. OF CONFIRMED CASES
06	AKLAN	KALIBO (CAPITAL)	UNSPECIFIED	1
			AGBANAWAN	1
			BACHAW SUR	1
			CABAYUGAN	1
			DUMAGUIT	1
			JOYAO JOYAO	1
			LUPO	1
			OLD BUSWANG	1
			POBLACION	3
			POOK	1
		LEZO	WALOOK	1
			BIGA-A	1
			IBAO	1
		MADALAG	POBLACION	1
			MEDINA	1
		MAKATO	CABATANGA	1
			EAST LIBANA	1
			LIBANG	1
		MALAY	TINA	1
			BALABAG	1
			MANOC-MANOC	3
		MALINAO	DANGCALAN	1
			KINALANGAY VIEJO	1
		NEW WASHINGTON	DUMAGUIT	1
			POBLACION	3
			PUIS	1
		NUMANCIA	JOYAO-JOYAO	1
			AFGA	1
			BAYBAY	4
			DAPDAP	1
			DUMATAD	1
			JAWILI	1
			PUDIOT	1
			PUMOT	1
			TAGAS	1
			TAMALAGON	7
	ANTIQUE	PANDAN	TANDOG	1
			TONDOG	3
	CAPIZ	SAN JOSE	DUMROG	1
			FUNDA	1
		CUARTERO	ANGUB	1
			BITO-ON ILAWOD	1
			BUN-OD	1
			CARATANYA	1
			NAGBA	1
			POBLACION TAKAS	1
		JAMINDAN	FE	1
		MA-AYON	CABUNGAHAN	1
		TAPAZ	BAG-ONG BARRIO	1
			POBLACION	1
	GUIMARAS	BUENAVISTA	SAWANG	1
	ILOILO	ILOILO CITY	NORTH FUNDIDOR	1
			PAVIA	1
		PASSI CITY	MAN-IT	1
		SAN ENRIQUE	CAMIRI	1
	NEGROS OCCIDENTAL	ENRIQUE B. MAGALONA	POBLACION II (BARANGAY 2)	1
		VALLADOLID	DOLDOL	1
07	CEBU	CEBU CITY	INAYAWAN	1
			PUNTA PRINCESA	1
		COMPOSTELA	LUPA	1
		CONSOLACION	LAMAC	1
		MANDAUE CITY	TABOK	1
	NEGROS ORIENTAL	DUMAGUETE CITY	POBLACION NO. 8 (BARANGAY 8)	1





CONFIRMED RUBELLA CASES PHILIPPINES, JANUARY 1 - DECEMBER 2, 2017 (n=448)				
REGION	PROVINCE	MUNCITY	BARANGAY	NO. OF CONFIRMED CASES
08	BILIRAN	KAWAYAN	POBLACION	1
	NORTHERN SAMAR	SAN ANTONIO	DALUPIRIT	18
			MANRAYA	9
			PILAR	5
			SAN NICOLAS	4
			VINISITAHAN	2
SAMAR	CATBALOGAN	MAULONG	1	
09	BASILAN	ISABELA CITY	LANOTE	1
	ZAMBOANGA DEL NORTE	DAPITAN CITY	SAN PEDRO	1
		DIPOLOG CITY	MIPUTAK (POB.)	1
	ZAMBOANGA DEL SUR	ZAMBOANGA CITY	BALIWASAN	1
			TALON-TALON	1
	ZAMBOANGA SIBUGAY	IPIL	TUGBUNGAN	1
10	LANAO DEL NORTE	ILIGAN CITY	TAWAY	1
	MISAMIS OCCIDENTAL	OZAMIS CITY	DATU SABER	1
		TANGUB CITY	MALAUABANG	1
	MISAMIS ORIENTAL	CAGAYAN DE ORO CITY	BARANGAY VII - UPPER POLAO (POB.)	1
			CARMEN	1
	MANTICAO	PATAG	1	
11	COMPOSTELA VALLEY	MARAGUSAN	CABALANTIAN	1
	DAVAO DEL NORTE	KAPALONG	MARAGUSAN (POB.)	1
		TAGUM CITY	GUPITAN	1
	DAVAO DEL SUR	DAVAO CITY	TIBAL-OG (POB.)	1
		MALALAG	BAJADA	1
12	SOUTH COTABATO	GENERAL SANTOS CITY	POBLACION	1
		SURALLAH	FATIMA	1
	SULTAN KUDARAT	BAGUMBAYAN	RIZAL POBLACION	1
ARMM	LANAO DEL SUR	MARAWI CITY	SIRAPINANG	1
CAR	ABRA	BANGUED	MARINAUT	1
	APAYAO	PUDTOL	PATUCANNAY	1
	BENGUET	BAGUIO CITY	SWAN	1
			ATOK	1
			ABIANG	1
			A. BONIFACIO-CAGUIOA-RIMANDO (ABCR)	2
			AMBIONG	3
			AURORA HILL	4
			BAKAKENG CENTRAL	1
			BROOKESIDE	1
			CABINET HILL-TEACHER'S CAMP	1
			CAMP 7	1
			CAMP ALLEN	2
			CENTRAL FAIRVIEW	1
			CITY CAMP CENTRAL	1
			ENGINEER'S HILL	1
			HAPPY HOLLOW	1
			HOLY GHOST EXTENSION	1
			HOLY GHOST PROPER	1
			HONEYMOON (HONEYMOON-HOLY GHOST)	4
			IRISAN	1
			NAVY BASE ST. JOSEPH	1
			NEW LUCBAN	2
			PACDAL	1
			PADRE BURGOS	1
			POLIWES	2
			QUEZON HILL PROPER	1
			RIMANDO ROAD	1
			SALUD MITRA	1
			SAN CARLOS HEIGHTS	1
			SAN LUIS VILLAGE	1
			SANITARY CAMP, NORTH	1
			SANTA ESCOLASTICA	1
			SANTO ROSARIO	1
			SANTO TOMAS PROPER	2
			UPPER QM	1
			UPPER WEST QUIRINO HILL	1





CONFIRMED RUBELLA CASES PHILIPPINES, JANUARY 1 - DECEMBER 2, 2017 (n=448)				
REGION	PROVINCE	MUNCITY	BARANGAY	NO. OF CONFIRMED CASES
CAR	BENGUET	BOKOD	BILA	1
		ITOGON	AMPUCAO	1
			LOACAN	1
		LA TRINIDAD	AMBIONG	2
			BETAG	1
			LONGLONG PUGUIS	1
			LUBAS	1
			PICO	1
TUBA	POBLACION	1		
CARAGA	AGUSAN DEL SUR	ESPERANZA	DAPITAN	1
NCR	METRO MANILA	UNSPECIFIED	UNSPECIFIED	1
		CALOOCAN CITY	BAGBAGUIN	1
			BARANGAY 170	1
			BARANGAY 179	1
		LAS PIÑAS CITY	TALON SINGKO	1
		MAKATI CITY	PITOGO	1
		MALABON CITY	TONSUYA	1
		MANILA CITY	BARANGAY 399	1
			BARRIO BANANA	1
			BINONDO	1
			BRGY. 33	1
			HABITAT BASECO	1
			OLD SITE BASECO	1
			PACO	1
			SAMPALOC	1
			SANTA CRUZ	2
			DON GALO	1
		PARAÑAQUE CITY	SAN DIONISIO	1
			TAMBO	1
		PASAY CITY	BRGY. 145	1
		QUEZON CITY	CENTRAL	1
			COMMONWEALTH	1
			CUBAO	1
			MARIANA	1
			PAYATAS	1
			PROJECT 4	2
		SAN JUAN CITY	ONSE	2
			WEST CRAME	4
		VALENZUELA CITY	LAWANG BATO	1
		PHILIPPINES		

#### ANNEX C. 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.
- **Timeliness and adequacy of blood collection:** target: ≥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: ≥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 D. DEFINITION OF TERMS**

Laboratory confirmed case	A suspect case with a positive laboratory test result for measles-specific/rubella-specific IgM antibodies or other approved laboratory test method
Epidemiologically-linked case	A suspect case that has not been confirmed by laboratory but that is geographically AND temporally related to a laboratory-confirmed case or (in the event of an outbreak) to another epidemiologically confirmed measles case
Co-infection	A suspect case with a positive laboratory test result for both measles-specific and rubella-specific IgM antibodies or other approved laboratory test method
Confirmed cases	Laboratory confirmed + Epidemiologically-linked cases
Measles compatible case	A case that meets the suspect case definition 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
Discarded non-measles/rubella	A case that meets the clinical case definition and tested negative for measles/rubella testing
Pending classification	Cases with blood specimen collected but with pending transport or laboratory results
Alert threshold	Refers to the level of occurrence of disease that serves as an early warning for epidemics
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)



