



Epidemiology Bureau Department of Health

Building No. 19, 3rd Floor, San Lazaro Compound, Rizal Avenue, Sta. Cruz, Manila
Telephone no.: (02) 651-7800 loc. 2951 (EB), 1939 (KMITS)



Fireworks-Related Injury Surveillance 2018

“OPLAN: Iwas Papatok, Fireworks Display ang Patok!”

Report Number 14

As of 6:00 AM, January 4, 2019

Injury Registry Update of Sentinel Hospitals

There were 19 additional fireworks-related injuries reported by the 60 sentinel hospitals. This brings the total to 307 from 6:00 AM of December 21, 2018 to 5:59 AM of January 4, 2019 (Figure 1). This is 201 (40%) cases lower compared to last year and 538 (64%) cases lower versus the five-year average (2013-2017).

One hundred seventy-seven (58%) were due to legal fireworks. There were 20 (7%) injuries which involved unknown fireworks. Sixty-eight (22%) injuries were due to Kwitis, 35 (11%) injuries due to Luces, and 20 (6%) injuries due to Piccolo (Table 2).

Table 2. Top Fireworks Involved (n=305)
As of 6:00 AM, January 4, 2019

Fireworks	No.	Percent
Kwitis	68	22
Luces	35	11
Piccolo*	20	6
Boga*	19	6
5-Star*	16	5
Whistle Bomb	15	5
Triangle*	14	5
Fountain	12	4

*Illegal or prohibited

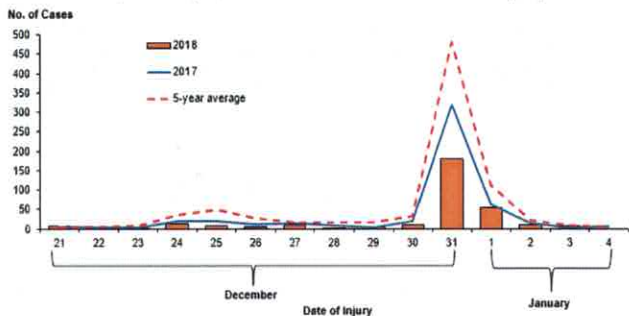
One hundred thirty-eight (45%) sustained hand injuries. Seventy-nine (26%) had eye injuries (Table 3).

Table 3. Top Anatomical Sites of Injuries due to Fireworks (n=305)*
As of 6:00 AM, January 4, 2019

Anatomical Site	No.	Percent
Hand	138	45
Eye	79	26
Head	34	11
Legs	30	10
Forearm/Arm	27	9

*Multiple responses

Figure 1. Fireworks-Related Injuries by Date of Injury (N=307)
As of 6:00 AM, January 4, 2019 vs 2017 vs 5-Year Average (2013-2017)*



*Reports include data from 6:00 AM of Dec. 21 to 5:59 AM of date of reporting
Source: Online National Electronic Injury Surveillance System Data

Three hundred five (99%) were injuries due to fireworks and two (1%) were fireworks ingestion cases. No stray bullet injury reported. No death reported.

Of the 307 cumulative cases, 248 (81%) were males. Age ranged from two to 76 years (Median: 16). One hundred seventy-eight (58%) were due to legal fireworks. One hundred sixty-one (52%) injuries occurred in the streets.

Table 1. Distribution of Injuries per Region (N=307)
As of 6:00 AM January 4, 2019

Region	Fireworks Injuries	Fireworks Ingestion	Stray Bullet	Total	
				No.	%
I	38	0	0	38	12
II	8	0	0	8	3
III	20	0	0	20	7
IV-A	21	0	0	21	7
IV-B	2	0	0	2	1
V	8	0	0	8	3
VI	47	0	0	47	15
VII	24	0	0	24	8
VIII	2	0	0	2	1
IX	3	0	0	3	1
X	2	0	0	2	1
XI	3	0	0	3	1
XII	7	0	0	7	2
ARMM	6	0	0	6	2
CAR	0	0	0	0	0
CARAGA	0	0	0	0	0
NCR	114	2	0	116	38
Total	305	2	0	307	100

A. Injuries due to Fireworks

Two hundred forty-seven (81%) cases were males. Age ranged from two to 76 years (Median:15). Two hundred thirty-six (77%) were blast/burn injuries not involving amputation, 10 (3%) were injuries resulting to amputation, and 79 (26%) were eye injuries. One hundred ninety-seven (65%) were active users. One hundred sixty (52%) occurred in the streets.

B. Fireworks Ingestion

There was no additional case of fireworks ingestion.

C. Stray Bullet Injury

There was no reported stray bullet injury.

Status of Reporting Sentinel Hospitals

There were 12 (20%) hospitals with new reported cases and 47 (78%) sentinel hospitals who submitted "no case" reports or had zero case upon monitoring by KMITS and RESU staff. One (2%) did not submit "no case" report to ONEISS and cannot be reached for further verification (Table 5).



Ruptured globe, left eye due to "Missile" firecracker

Source: Cagayan Valley Medical Center

Prepared by:

Eugenia Mercedes R. Cañal, MD Benisse Lou B. Manalili, RN
Francis T. Guimatan, RN

Noted by:

Alethea R. De Guzman, MD, MCHM, PHSAE
Field Epidemiology Training Program Training Officer

Ma. Nemias Sucaldito, MD, PHSAE
Chief, Applied Epidemiology and Health Management Division

Ferchito L. Avelino, MD, PHSAE
OIC - Director IV, Epidemiology Bureau

Disclaimer: Figures from the previous report may differ due to late reports submitted and further verification. Some of the percentages may not add up to 100 due to rounding off of numbers.

Table 4. Distribution of Injuries by Sentinel Hospital (N=307)
Fireworks-Related Injury Surveillance, as of 6:00 AM January 4, 2019

Hospital	FW Injury		FW Ingestion		Stray Bullet		TOTAL	
	No.	%	No.	%	No.	%	No.	%
Amang Rodriguez Medical Center	14	5	0	0	0	0	14	5
Baguio General Hospital and Medical Center	0	0	0	0	0	0	0	0
Batangas Regional Hospital	6	2	0	0	0	0	6	2
Bicol Medical Center	4	1	0	0	0	0	4	1
Bicol Regional Training and Teaching Hospital	4	1	0	0	0	0	4	1
Cagayan Valley Medical Center	2	1	0	0	0	0	2	1
Capitol Medical Center	0	0	0	0	0	0	0	0
Cardinal Santos Medical Center	0	0	0	0	0	0	0	0
Chinese General Hospital and Medical Center	1	0.3	0	0	0	0	1	0.3
Corazon Locsin Montelibano Memorial Regional Hospital	27	9	0	0	0	0	27	9
Cotabato Regional and Medical Center	1	0.3	0	0	0	0	1	0.3
Davao Regional Hospital	2	0.3	0	0	0	0	2	0.3
Dr. Paulino J. Garcia Memorial Research and Medical	3	1	0	0	0	0	3	1
Dr. Victor Potenciano Medical Center	0	0	0	0	0	0	0	0
East Avenue Medical Center	16	5	0	0	0	0	16	5
Eastern Visayas Regional Medical Center	2	1	0	0	0	0	2	1
Far North Luzon General Hospital and Training Center	1	0.3	0	0	0	0	1	0.3
Gov. Celestino Gallares Memorial Hospital	4	1	0	0	0	0	4	1
Ilocos Training and Regional Medical Center	4	1	0	0	0	0	4	1
Iloilo Mission Hospital	0	0	0	0	0	0	0	0
Jose B. Lingad Memorial General Hospital	14	5	0	0	0	0	14	5
Jose R. Reyes Memorial Medical Center	32	10	0	0	0	0	32	10
Las Piñas General Hospital & Satellite Trauma Center	4	1	0	0	0	0	4	1
Lingayen District Hospital (Formerly Don Mariano C. Verzosa Memorial Hospital)	12	4	0	0	0	0	12	4
Makati Medical Center	2	1	0	0	0	0	2	1
Mandaluyong City Medical Center	1	0.3	0	0	0	0	1	0.3
Manila Doctors Hospital	0	0	0	0	0	0	0	0
Manila East Medical Center	3	1	0	0	0	0	3	1
Mariano Marcos Memorial Medical Hospital	2	1	0	0	0	0	2	1
MCU-FDT Medical Foundation Hospital	4	1	0	0	0	0	4	1
Medical Center Parañaque, Incorporated	0	0	0	0	0	0	0	0
National Children's Hospital	1	0.3	0	0	0	0	1	0.3
Northern Mindanao Medical Center	2	1	0	0	0	0	2	1
Ospital ng Maynila Medical Center	5	2	0	0	0	0	5	2
Ospital ng Palawan	2	1	0	0	0	0	2	1
Ospital ng Tondo	8	3	0	0	0	0	8	3
Philippine Children's Medical Center	0	0	0	0	0	0	0	0
Philippine Orthopedic Center	4	1	0	0	0	0	4	1
Quezon City General Hospital	3	1	0	0	0	0	3	1
Quirino Memorial Medical Center	3	1	0	0	0	0	3	1
Region 1 Medical Center	20	7	0	0	0	0	20	7
Rizal Medical Center	8	3	0	0	0	0	8	3
San Juan De Dios Educational Foundation, Inc.	1	0.3	0	0	0	0	1	0.3
South Cotabato Provincial Hospital	7	2	0	0	0	0	7	2
Southern Isabela General Hospital	3	1	0	0	0	0	3	1
Southern Philippines Medical Center	1	0.3	0	0	0	0	1	0.3
St Luke's Medical Center	0	0	0	0	0	0	0	0
St. Elizabeth Hospital, Inc.	0	0	0	0	0	0	0	0
Sulu Provincial Hospital	5	2	0	0	0	0	5	2
The Medical City	3	1	0	0	0	0	3	1
Tondo Medical Center	2	1	0	0	0	0	2	1
University of Perpetual Help Delta Medical Center	1	0.3	0	0	0	0	1	0.3
University of Santo Tomas Hospital	4	1	0	0	0	0	4	1
UP-Philippine General Hospital	8	3	2	100	0	0	10	3
Valenzuela Medical Center	4	1	0	0	0	0	4	1
Veterans Regional Hospital	2	1	0	0	0	0	2	1
Vicente Sotto Memorial Medical Center	20	7	0	0	0	0	20	7
Western Visayas Medical Center	15	5	0	0	0	0	15	5
Western Visayas Sanitarium	5	2	0	0	0	0	5	2
Zamboanga City Medical Center	3	1	0	0	0	0	3	1
Total	305	100	2	100	0	0	307	100

Table 5. Status of Reporting and Monitoring by Region (N=60)
As of 6:00 AM January 4, 2019

Region	Name of Hospital	Submitted report?
I	Ilocos Training and Regional Medical Center	Yes
	Lingayen District Hospital (Formerly Don Mariano C. Verzosa Memorial Hospital)	Yes
	Mariano Marcos Memorial Medical Hospital	Yes
	Region 1 Medical Center	Yes
II	Cagayan Valley Medical Center*	Yes
	Southern Isabela General Hospital	Yes
	Veterans Regional Hospital	Yes
III	Dr. Paulino J. Garcia Memorial Research and Medical Center	Yes
	Jose B. Lingad Memorial General Hospital	Yes
IV-A	Batangas Regional Hospital	Yes
	Manila East Medical Center	No
IV-B	Ospital ng Palawan*	Yes
V	Bicol Medical Center	Yes
	Bicol Regional Training and Teaching Hospital	Yes
VI	Corazon Locsin Montelibano Memorial Regional Hospital	Yes
	Iloilo Mission Hospital*	Yes
	Western Visayas Medical Center	Yes
	Western Visayas Sanitarium	Yes
VII	Gov. Celestino Gallares Memorial Hospital	Yes
	Vicente Sotto Memorial Medical Center*	Yes
VIII	Eastern Visayas Regional Medical Center	Yes
IX	Zamboanga City Medical Center*	Yes
X	Northern Mindanao Medical Center*	Yes
XI	Davao Regional Hospital	Yes
	Southern Philippines Medical Center*	Yes
XII	Cotabato Regional and Medical Center	Yes
	South Cotabato Provincial Hospital	Yes
	St. Elizabeth Hospital, Inc.*	Yes
ARMM	Sulu Provincial Hospital	Yes
CAR	Baguio General Hospital and Medical Center	Yes
	Far North Luzon General Hospital and Training Center*	Yes
CARAGA	<i>No sentinel hospital</i>	-
NCR	Amang Rodriguez Medical Center	Yes
	Capitol Medical Center*	Yes
	Cardinal Santos Medical Center*	Yes
	Chinese General Hospital and Medical Center	Yes
	Dr. Victor Potenciano Medical Center*	Yes
	East Avenue Medical Center*	Yes
	Jose R. Reyes Memorial Medical Center	Yes
	Las Piñas General Hospital & Satellite Trauma Center*	Yes
	Makati Medical Center	Yes
	Mandaluyong City Medical Center*	Yes
	Manila Doctors Hospital*	Yes
	MCU-FDT Medical Foundation Hospital	Yes
	Medical Center Parañaque, Incorporated	Yes
	National Children's Hospital*	Yes
	Ospital ng Maynila Medical Center	Yes
	Ospital ng Tondo*	Yes
	Philippine Children's Medical Center*	Yes
	Philippine Orthopedic Center	Yes
	Quezon City General Hospital*	Yes
	Quirino Memorial Medical Center	Yes
	Rizal Medical Center	Yes
	San Juan De Dios Educational Foundation, Inc.	Yes
	St. Luke's Medical Center*	Yes
	The Medical City*	Yes
	Tondo Medical Center*	Yes
	University of Perpetual Help Dalta Medical Center*	Yes
	University of Santo Tomas Hospital	Yes
UP-Philippine General Hospital	Yes	
Valenzuela Medical Center	Yes	

*Did not submit "no case" report to ONEISS but had zero case upon monitoring by KMITS and RESU staff