



Influenza-like-illness (ILI) and Severe Acute Respiratory Infection (SARI) surveillance, Week 41 (9th – 15th October) 2017

Synopsis

The predominant seasonal Influenza strain circulated in this week was Influenza A/pdm 09. However; overall incidence of Influenza-like-illness (ILI) and Severe Acute Respiratory Infection (SARI) were 33/ 1000 outpatient visits and 8/ 100 hospitalized patients respectively.

1. Virological Surveillance

Out of twenty eight respiratory specimens (ILI=16 & SARI = 12) received and tested for influenza viruses by Real Time RT PCR, Influenza A/pdm 09 was predominantly detected (Figure 1 & 2). The predominant subtypes were found to have circulated in central and West regions (Figure 3).

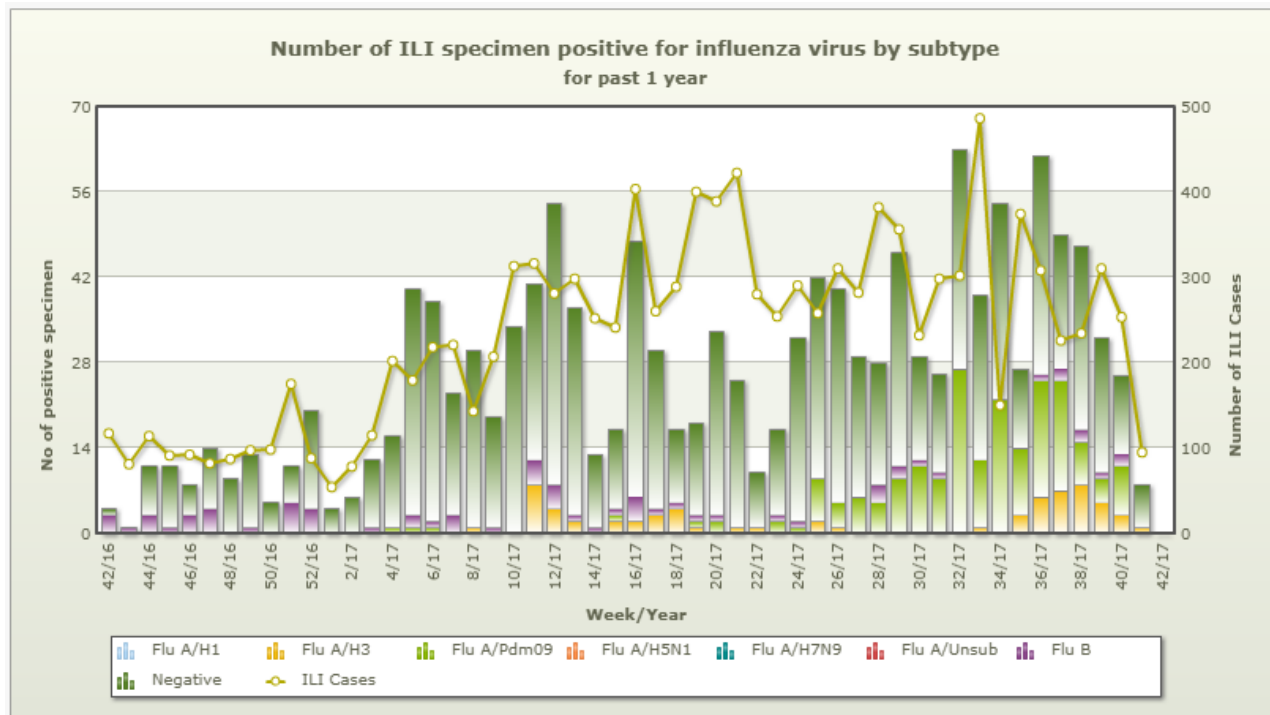


Figure 1: Trend of influenza virus subtypes by week detected from ILI cases (Note: data is till 41st week)

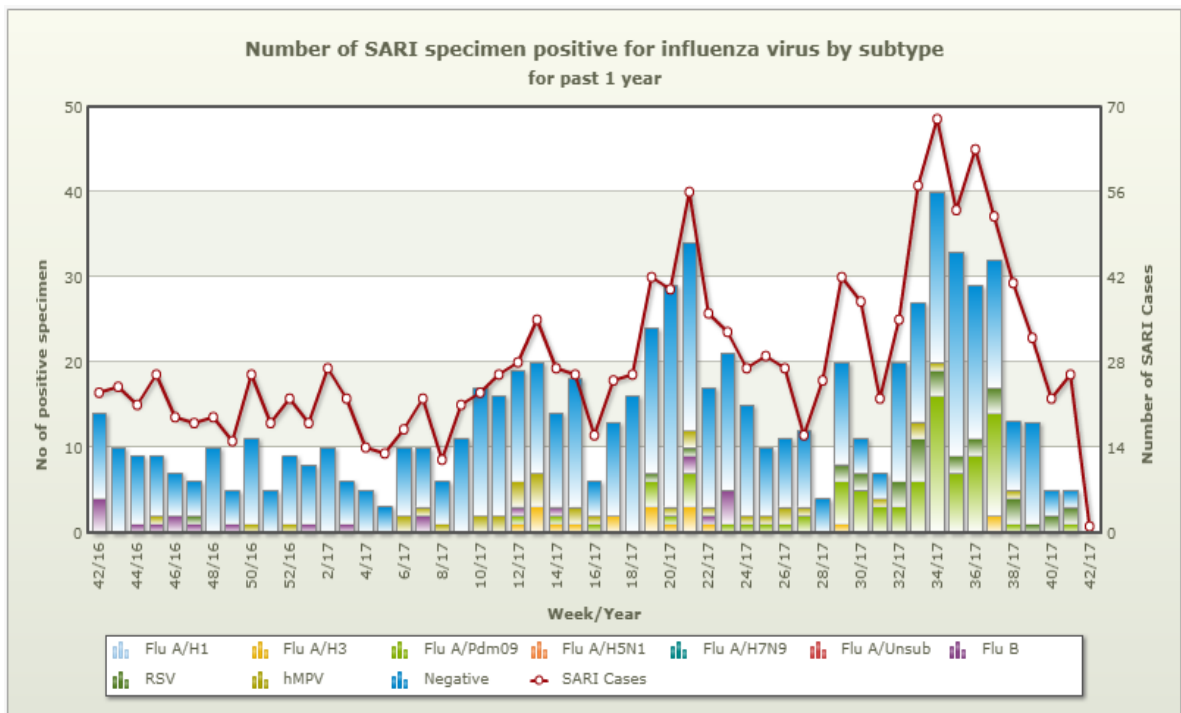


Figure 2: Trend of influenza virus subtypes by week detected from SARI cases (Note: data is till 41st week)

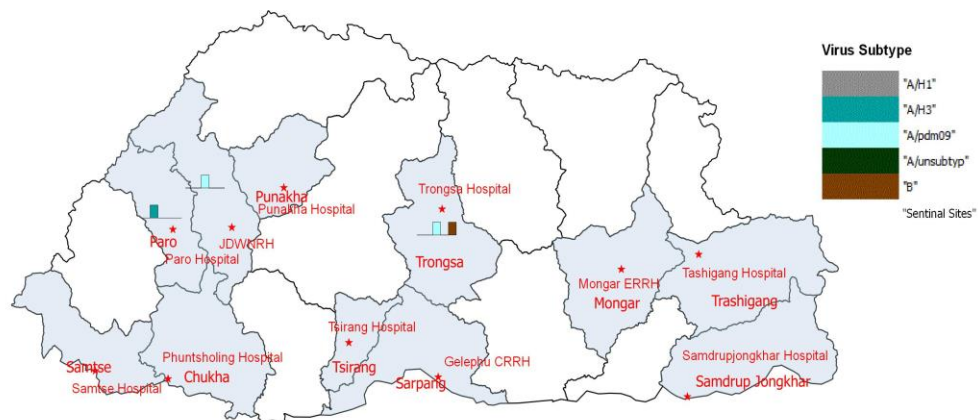


Figure 3: Distribution of Influenza subtypes for week 41

2. Epidemiological Surveillance

a) ILI and SARI sentinel Surveillance

ILI incidence in the sentinel sites for the week was 33 cases per 1000 outpatient visits, which has decreased significantly compared to the previous week (Figure 4). Damphu Hospital has reported the highest ILI cases (78 cases) for the week.

SARI incidence in the sentinel sites for the week was 8 cases per 100 admitted cases, which is similar compared to the previous week (Figure 4). JDWNR hospital, Thimphu has reported highest cases (9) of SARI.

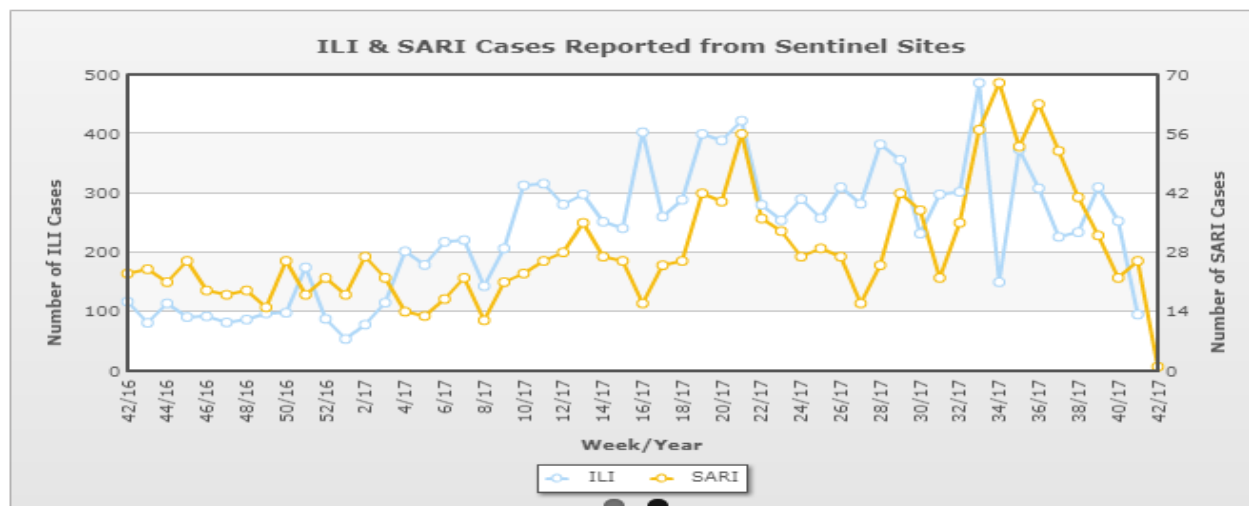


Figure 3: Average number of ILI and SARI cases reported until week 41 (Data source: Online weekly reporting from sentinel sites).

Table 1: Number of ILI/ SARI cases reported by sites

Number of ILI/SARI cases reported and sample collected by sites for Week:41,2017				
Surveillance sites	ILI Cases	No. of Samples Collected	SARI Cases	No. of Samples Collected
Eastern Regional Referral Hospital, Monggar	NA	0	3	0
Jigme Dorji Wangchuk National Referral Hospital	NA	0	9	9
Paro Hospital	8	8	NR	0
Punakha Hospital	NR	0	6	0
Trongsa Hospital	7	7	6	3
Phuentsholing Hospital	NA	0	0	0
Central Regional Referral Hospital, Gelephu	NA	0	1	0
Trashigang Hospital	NR	0	0	0
Damphu Hospital	78	0	0	0
Samdrup Jongkhar Hospital	2	2	NR	0
Samtse Hospital	0	0	1	1

Note: NR, Not Reported and NA, Not Applicable

b) Age distribution

ILI cases were commonly observed in age group 5-14 years, while SARI cases were commonly seen in 0-1 year. There have been both laboratory SARI and ILI confirmed cases (Table 2).

Table 2: Age categorization of influenza cases

Age categorization of influenza cases reported and laboratory confirmed for Week 41,2017				
Age(Years)	Reported Cases		Laboratory Confirmed Cases	
	ILI Cases (%)	SARI Cases (%)	ILI Cases(N=1)	SARI Cases(N=3)
0-1Y	10.53	46.15	0	3
2-4Y	10.53	23.08	1	0
5-14Y	40	11.54	0	0
15-29Y	18.95	7.69	0	0
30-65Y	20	7.69	0	0
65+Y	0	3.85	0	0

1. Influenza outbreak & investigated

No outbreak reported

2. Death due to SARI/ Pneumonia

No death reported

3. Non-Influenza respiratory viruses

Two SARI cases were positive for RSV

Note: Following Clinicians, Laboratory staff and other Hospital staffs are currently involved in ILI surveillance in their respective sites as listed below:

Sl. No.	Sentinel site	Name of Participants	Designation	Roles & Responsibility	Contact No.
1	Samtse	DrRigden	GDMO	Enroll ILI subject	17976143
2		Dr. TandinWangyalDorji	GDMO	Enroll ILI subject	17584117
3		Dil Maya	Sr. Lab Technician	Sample collection	17697307
4		PemTshering	Sr. Lab Technician	Sample collection	17781895
5		RosneySubba	Receptionist	Report the case	17307164
6		NgawangChogyal	OT Technician	Report the case	17687826
7	Phuntsholing	PemaLhadon	ENT Technician	Enroll ILI subject	17751060
8		Som Kumar Namchu	Sr. Lab Technician	Sample collection	77743637
9		Dr. TashiTobgay	GDMO	Enroll ILI subject	17852879
10		Dr. ThinleyPelzang	Medical superintendent	Enroll ILI subject	77459555
11	Punakha	Dr. ChoniWangmo	CMO	Enroll ILI subject	17939580
12		Dr. Tashi	GDMO	Enroll ILI subject	
13		SherubThinley	Lab Technician	Sample collection	17654950
14		NamgayDorji	Clinical Officer	Enroll ILI subject	17566377
15		TsheringPhuntsho	ENT Technician	Report the case	77357521
16		TandinGyeltshen	Lab Technician	Sample collection	17777431
17		NamgayLham	Staff Nurse-I	Report the case	17741371
18					
19	Tsirang				
20		L.B Mothey	HA	Enroll ILI subject	17744889
21		SamdrupDorji	Staff Nurse	Report the case	16938313
22		YeshiLhendup	Sr. Lab Technician	Sample collection	17643320

Note: (Data is preliminary and may change as more reports are received)Page4 of 5

23	Paro	Dr. Ugyen Wangdi	CMO	Enroll ILI subject	17733500
24		Sonam Yangzom	Clinical Officer	Enroll ILI subject	17610524
25		Karma Dorji	Sr. Lab Technician	Sample collection	17676359
26		Karma Thinley	Sr. Lab Technician	Sample collection	17606600
27	Mongar	Dr. Sangay	GDMO	Enroll ILI subject	17751637
28		Dr. Kinzang Wangdi	GDMO	Enroll the subject	77255445
29		Damcho	Sr. Lab Technician	Sample collection	17708074
30		Gopal Sanyasi	Lab Technician	Sample collection	17373448
31	Trashigang	Dr. Sonam Pelmo	GDMO	Enroll ILI subject	
32		Dr. Sonam Yeshe	GDMO	Enroll the subject	17327178
33		Nidup Zangmo	Lab Technician	Sample collection	17648033
34		Shankar Raj	Staff Nurse	Report the case	17984354
35		Tshering Dorji	Lab Officer	Sample collection	17923909
36		Pema Zangpo	Ortho Technician	Report the case	17784843
37	Gelephu	Jigme Dukpa	Clinical Officer	Enroll ILI subject	17660030
38		Dr. Sherub Wangdi	GDMO	Enroll ILI subject	17327175
39		Pema Dendup	Lab Technician	Sample collection	17968047
40		Vishal Chetri	Lab Technologist	Sample collection	17422825
41		Bal Bdr Mongar	Lab Technician	Sample collection	17871974
42	Thimphu	Dr. Suresh Mothey	GDMO	Enroll ILI subject	17946181
43		Tashi Tsheten	Lab Technician	Sample collection	17977790
44	Trongsa				
45		Tashi Norbu	Staff Nurse-III	Enroll ILI subject	17714987
46		Mon Bdr Pakhring	Lab Technician	Sample collection	17635595
47		Suk Bir Rai	Staff Nurse	Report the case	17655099
48		Chimi Wangmo	Lab Technician	Sample Collection	17412689
49		Sangay Dorji	Staff Nurse	Report the case	17873597
50	S/Jongkhar	Dr. Kezang Wangdi	Medical Officer	Enroll ILI subject	17951848
51		Karma Choden	Lab Technician	Sample collection	17376632
52		Tashi Sonam	Lab Technician	Sample collection	17803084
53		Nasema Rehima	Pharmacist Technician	Report the case	17656685