



**Influenza-like-illness (ILI) and Severe Acute Respiratory Infection (SARI) surveillance, Week 39
(25thSeptember – 1st October) 2017**

Synopsis

The predominant seasonal Influenza strain circulated in this week was Influenza A/H3. However; overall incidence of Influenza-like-illness (ILI) and Severe Acute Respiratory Infection (SARI) were 54/ 1000 outpatient visits and 8/ 100 hospitalized patients respectively.

Virological Surveillance

Out of forty four respiratory specimens (ILI=12 & SARI = 9) received and tested for influenza viruses by Real Time RT PCR, Influenza A/H3 was predominantly detected (Figure 1& 2). The predominant subtypes were found to have circulated in central and east regions (Figure 3).

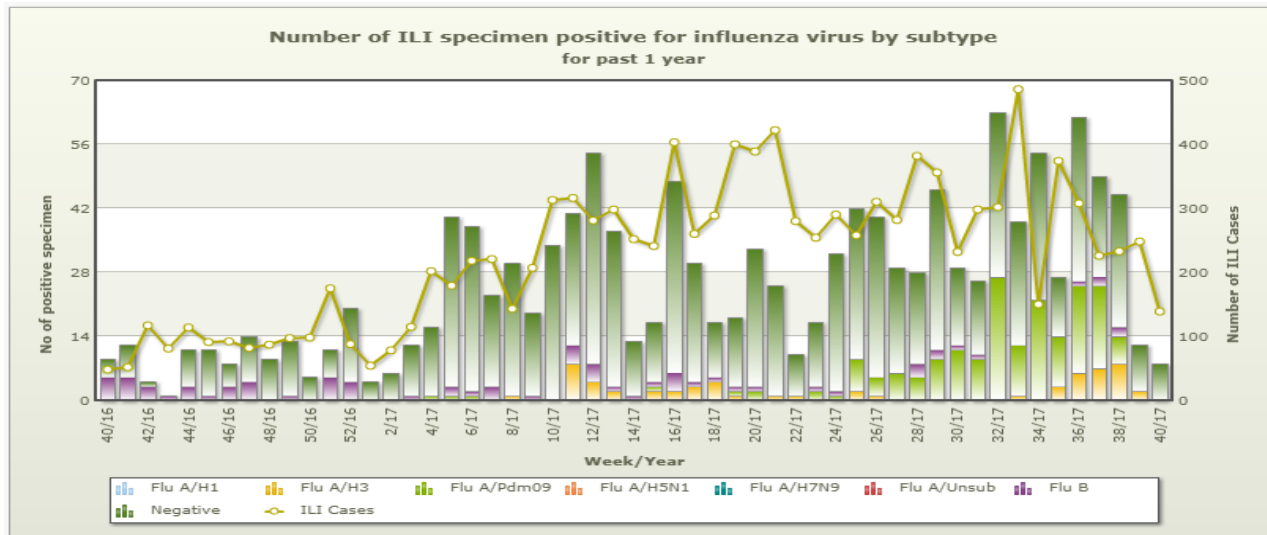


Figure 1: Trend of influenza virus subtypes by week detected from ILI cases (Note: data is till 39th week)

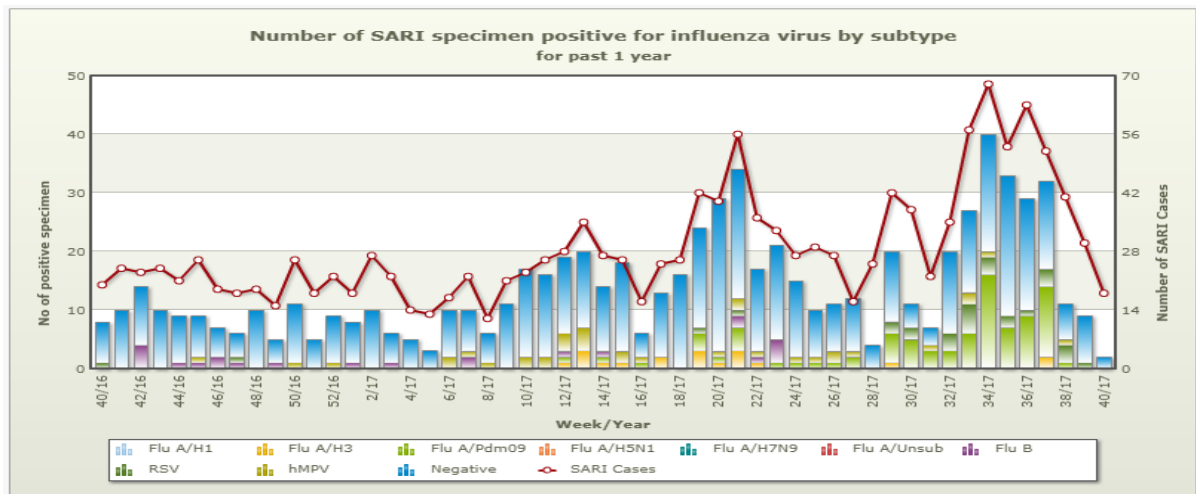


Figure 2: Trend of influenza virus subtypes by week detected from SARI cases (Note: data is till 39thweek)

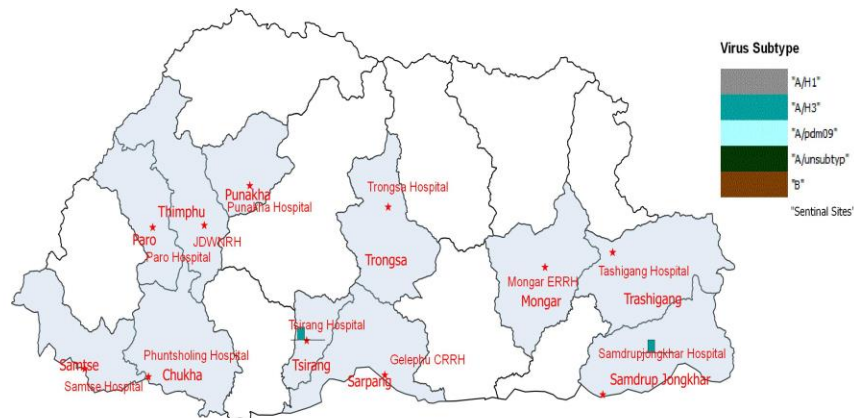


Figure 3: Distribution of Influenza subtypes for week 39

1. Epidemiological Surveillance

a) ILI and SARI sentinel Surveillance

ILI incidence in the sentinel sites for the week was 54 cases per 1000 outpatient visits, which has increased significantly similar to the previous week (Figure 4). Damphu Hospital has reported the highest ILI cases (90 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 (8) of SARI.

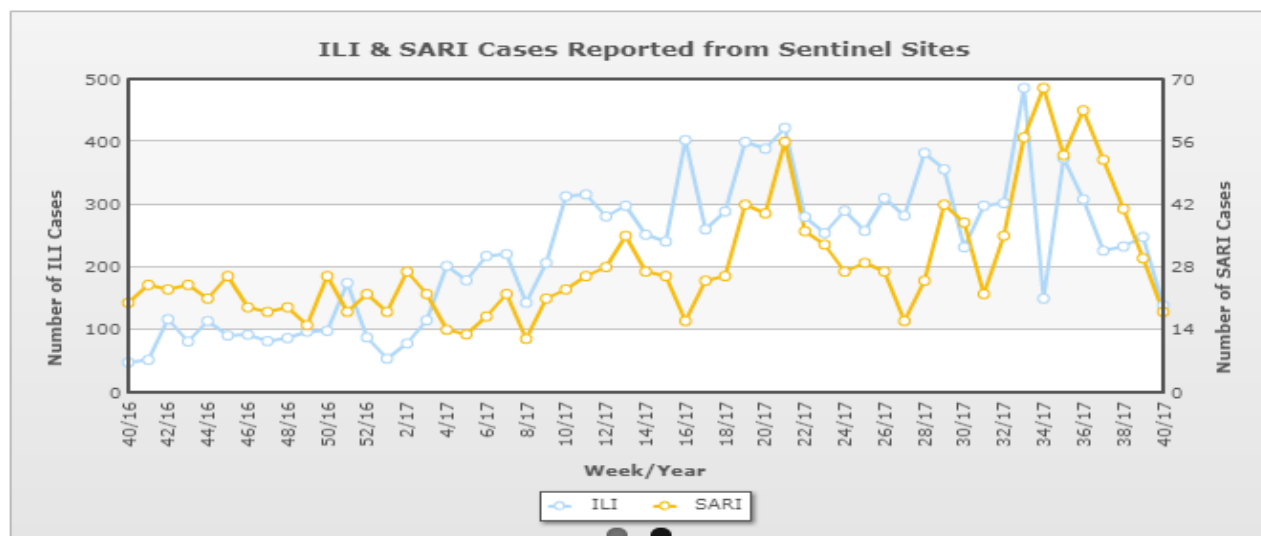


Figure 3: Average number of ILI and SARI cases reported until week 39 (Data source: Online weekly reporting from sentinel sites).

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

Number of ILI/SARI cases reported and sample collected by sites for Week:39,2017				
Surveillance sites	ILI Cases	No. of Samples Collected	SARI Cases	No. of Samples Collected
Eastern Regional Referral Hospital, Monggar	NA	12	4	3
Jigme Dorji Wangchuk National Referral Hospital	NA	0	8	7
Paro Hospital	58	1	3	0
Punakha Hospital	NR	0	5	0
Trongsa Hospital	2	2	4	0
Phuentsholing Hospital	NA	0	2	0
Central Regional Referral Hospital, Gelephu	NA	2	0	0
Trashigang Hospital	NR	0	2	0
Damphu Hospital	90	3	2	2
Samdrup Jongkhar Hospital	68	8	NR	0
Samtse Hospital	16	0	0	0

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 39,2017				
Age(Years)	Reported Cases		Laboratory Confirmed Cases	
	ILI Cases (%)	SARI Cases (%)	ILI Cases(N=2)	SARI Cases(N=1)
0-1Y	7.66	16.67	0	1
2-4Y	9.68	40	0	0
5-14Y	28.23	30	1	0
15-29Y	38.31	6.67	1	0
30-65Y	13.31	6.67	0	0
65+Y	2.82	0	0	0

2. Influenza outbreak & investigated

Flu outbreak was reported from Tshokhorlingschool, Tsirang and Influenza A was attributed to the outbreak.

3. Death due to SARI/ Pneumonia

No death reported

4. Non-Influenza respiratory viruses

Respiratory Syncytial Virus (RSV) was detected from three pediatric cases from JDWNRH.

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
23	Paro	Dr.UgyenWangdi	CMO	Enroll ILI subject	17733500
24		SonamYangzom	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. KinzangWangdi	GDMO	Enroll the subject	77255445

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

29		Damcho	Sr. Lab Technician	Sample collection	17708074
30		GopalSanyasi	Lab Technician	Sample collection	17373448
31	Trashigang	Dr. SonamPelmo	GDMO	Enroll ILI subject	
32		Dr. SonamYeshi	GDMO	Enroll the subject	17327178
33		NidupZangmo	Lab Technician	Sample collection	17648033
34		Shankar Raj	Staff Nurse	Report the case	17984354
35		TsheringDorji	Lab Officer	Sample collection	17923909
36		PemaZangpo	Ortho Technician	Report the case	17784843
37		Gelephu	JigmeDukpa	Clinical Officer	Enroll ILI subject
38	Dr. SherubWangdi		GDMO	Enroll ILI subject	17327175
39	PemaDendup		Lab Technician	Sample collection	17968047
40	Vishal Chetri		Lab Technologist	Sample collection	17422825
41	BalBdrMongar		Lab Technician	Sample collection	17871974
42	Thimphu	Dr. Suresh Mothey	GDMO	Enroll ILI subject	17946181
43		TashiTsheten	Lab Technician	Sample collection	17977790
44	Trongsa				
45		TashiNorbu	Staff Nurse-III	Enroll ILI subject	17714987
46		Mon BdrPakhring	Lab Technician	Sample collection	17635595
47		Suk BirRai	Staff Nurse	Report the case	17655099
48		ChimiWangmo	Lab Technician	Sample Collection	17412689
49		SangayDorji	Staff Nurse	Report the case	17873597
50		S/Jongkhar	Dr. KezangWangdi	Medical Officer	Enroll ILI subject
51	Karma Choden		Lab Technician	Sample collection	17376632
52	TashiSonam		Lab Technician	Sample collection	17803084
53	NasemaRehima		Pharmacist Technician	Report the case	17656685