

PUBLIC HEALTH LABORATORY



Influenza-like-illness (ILI) and Severe Acute Respiratory Infection (SARI) surveillance, Week 1 (4-10th January, 2016)

Synopsis

The most predominant virus type found in the sentinel sites in week 1, 2016 was *Influenza virus type B*. Overall incidence of Influenza-like-illness (ILI) was 5/1000 outpatient visits, highest incidence being reported from Punakha Hospital. Incidence of severe Acute Respiratory Infection (SARI) was recorded at 5/100 hospitalized patients, highest incidence being recorded by Paro Hospital.

1. Virological Surveillance

Out of 6 respiratory specimens (ILI and SARI) received and tested for influenza viruses by real time RT-PCR, *Influenza virus type B, Yamagata lineage* was the most commonly detected (Figure 1).

Geographically, this virus was detected across the central and western region of the country (Figure 2).

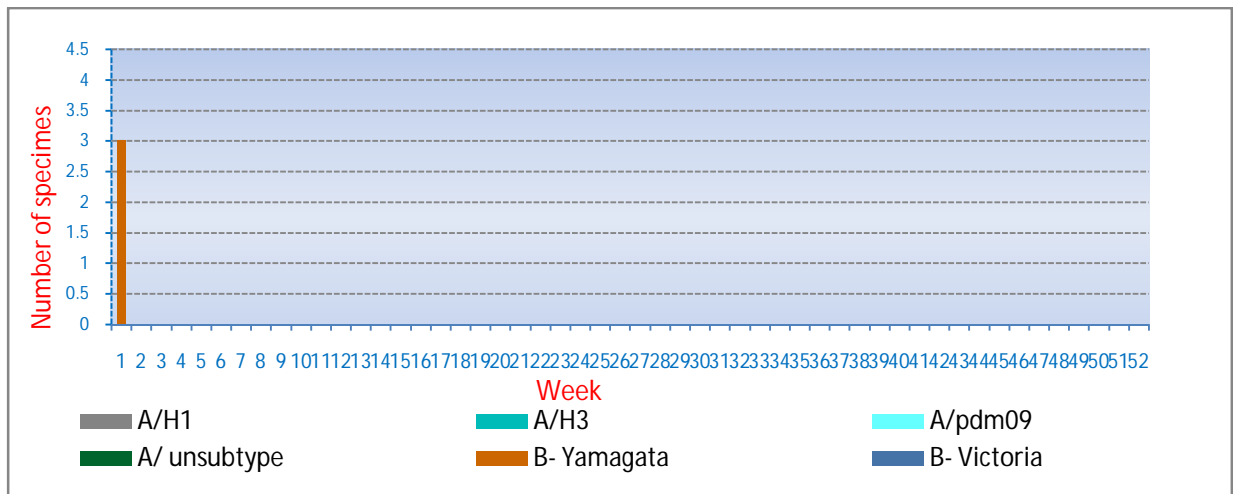


Figure 1. Trend of influenza virus subtypes by week (2016) detected from ILI and SARI cases (Data is for the 1st week of 2016 and will be updated every week)

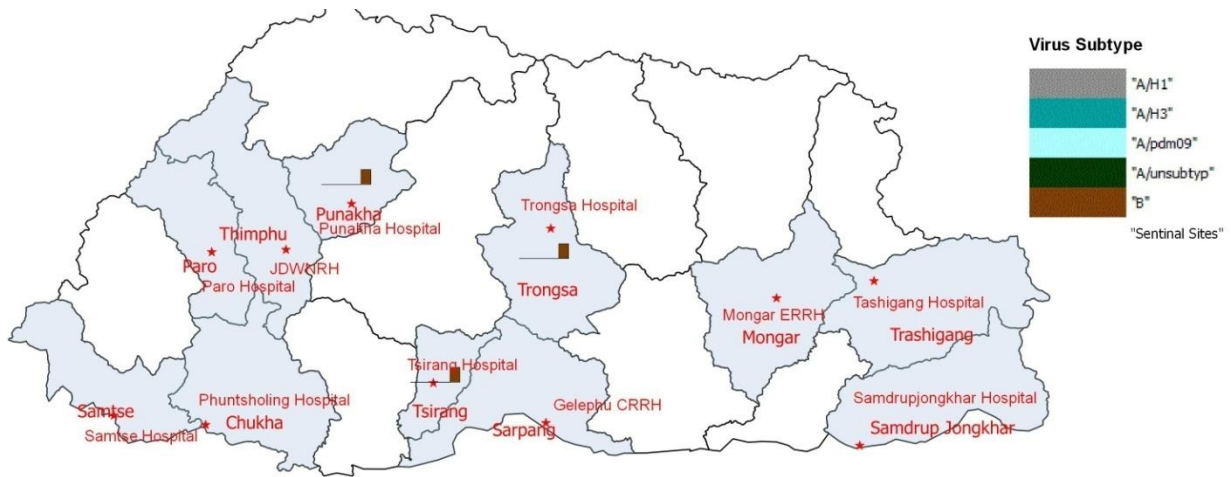


Figure 2. Geographical distribution of influenza virus subtypes detected from ILI /SARI cases for week 1, 2016.

2. Epidemiological Surveillance

a) ILI Sentinel Surveillance

ILI incidence in the sentinel sites for the week was 5 cases per 1000 outpatient visits, which is lower compared to the previous week (Figure 3). Reports were received from Punakha and Samdrup Jongkhar Hospitals only (Table 2).

Weekly ILI & SARI Case Reporting from Sentinel Sites

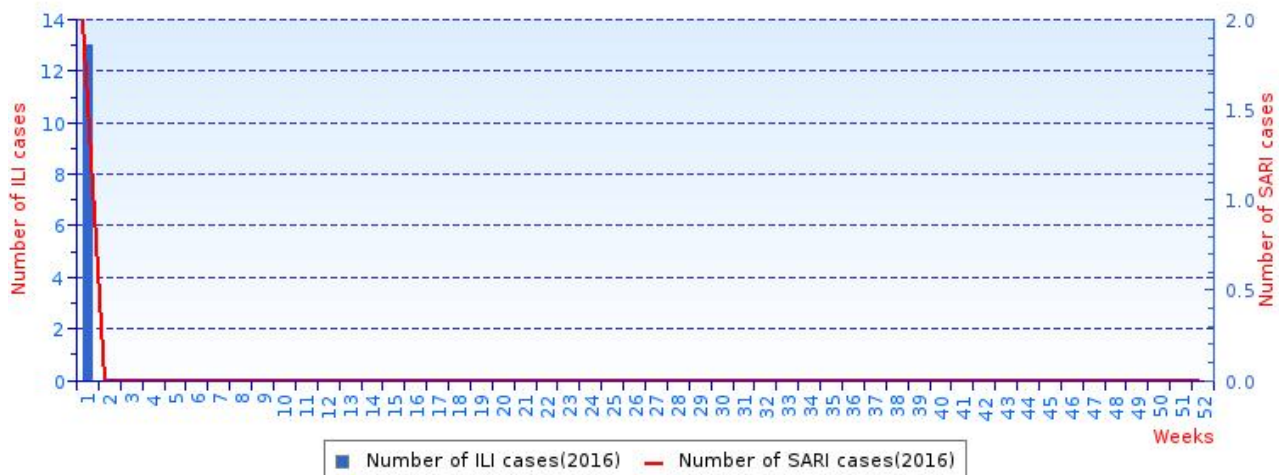


Figure 3. Number of ILI and SARI cases reported for week 1, 2016. (Data source: Online weekly reporting from sentinel sites).

b) SARI Sentinel Surveillance

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

SARI incidence in the sentinel sites for the week was 5 per 100 admitted cases, which is lower compared to the previous week (Figure 3). Paro Hospital has reported the highest SARI incidence for the week (6 cases). Reports were not been received from 5 SARI sentinel sites (Table 2).

Weekly Nationwide ARI and SARI Cases Reporting as per NEWARS Reporting

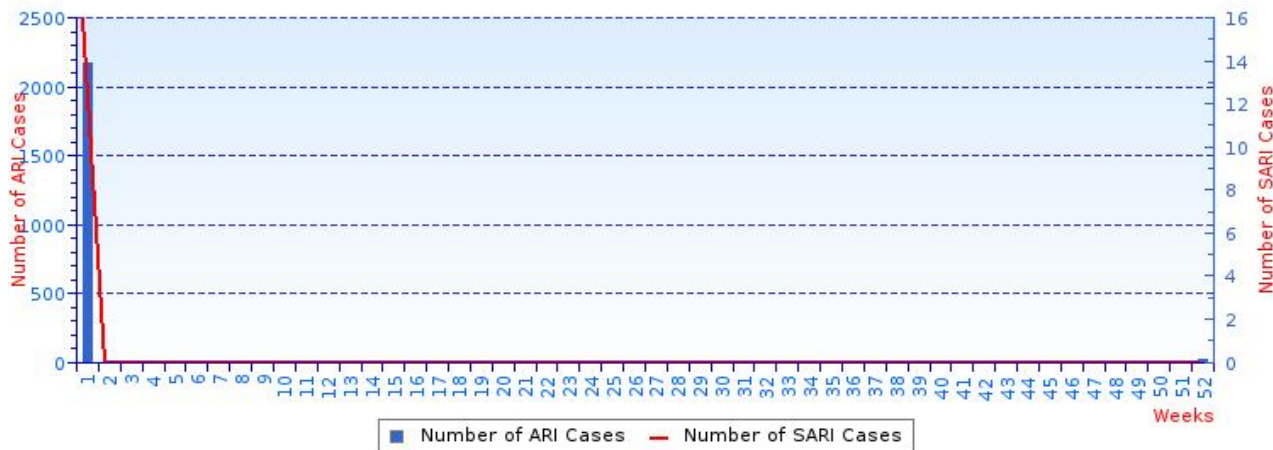


Figure 4. Number of SARI and ARI cases reported for week 1 (Data source: Weekly online NEWARS reporting from sites).

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

Surveillance sites	ILI cases	No. of samples collected	SARI cases	No. of samples collected
Mongar RRH	-	0	0	0
JDWRH	-	0	NR	0
Paro Hospital	NR	0	6	0
Punakha Hospital	8	1	1	0
Trongsa Hospital	NR	2	NR	0
Phuntsholing Hospital	-	0	NR	0
Gelephu RRH	-	0	NR	0
Trashigang Hospital	NR	0	NR	2
Tsirang Hospital	NR	1	0	0
Samdrupjongkhar Hospital	5	0	1	0
Samtse Hospital	NR	0	0	0

NR: Not reported

c) Age distribution

ILI cases for the current week were commonly observed in age group 15-29 years. SARI cases were mostly found among younger age groups of 0-4 years. Laboratory positive influenza, however, was mostly detected in 5-14 years (Table 2).

Table 2. Age categorization of influenza cases

Age (years)	Epidemiological data		Laboratory data (for positive specimens)	
	ILI cases (%)	SARI cases (%)	ILI cases (%)	SARI cases (%)
0 to 1	0	25	0	0
2 to 4	7.69	25	0	0
5 to 14	38.46	0	66.7	0
15 to 29	46.15	12.5	0	0
30 to 64	7.69	12.5	0	0
65+	0	25	33.3	0

3. Influenza outbreaks

No outbreak of ILI has been reported for the week.

4. Death due to SARI/ Pneumonia

No mortality was reported due to SARI/ pneumonia from the sentinel sites.

Note: Following Clinicians, Laboratory staff and other Hospital staffs were involved in ILI surveillance in their respective sites as listed below. RCDC (previously PHL) is currently in the process of updating the list of surveillance focal persons for 2016.

Sl. No.	Sentinel site	Name of Participants	Designation	Roles & Responsibility	Contact No.
1	Samtse	Dr Thinley Dorji	GDMO	Enroll ILI subject	16925946
2		Dil Maya	Sr Lab Technician	Sample collection	17697307
3		Ngawang Chogyal	OT Technician	Report the case	17687826
4	Phuntsholing	Nidup Tshomo	Staff Nurse	Enroll SARI subject	17507491
5		Som Kumar Namchu	Sr. Lab Technician	Sample collection	77743637
6		Dr. Thinly Pelzang	Medical superintendent	Enroll ILI subject	77459555
7	Punakha	Dr. Choni Wangmo			17939580
8		Sherub Thinley	Lab Technician	Sample collection	17654950
9		Dorji Tshering	ENT Technician	Report the case	17966702
10	Tsirang	Dr Tej Nath Nepal	Sr. Medical Officer	Enroll ILI subject	17618007
11		Yangzom	Lab Technician	Sample collection	17553939
12		Tashi Tshering	Medical Record assistant	Report the case	17648169
13	Paro	Dr Chabillal	CMO	Enroll ILI subject	17701525
14		Karma Dorji	Sr. Lab Technician	Sample collection	17676359
15		Namgay Lham	Staff Nurse-I	Report the case	17741371
16	Mongar	Tshering Wangdi	Clinical Officer	Enroll ILI subject	17751637
17		Damcho	Sr Lab Technician	Sample collection	17708074
18		Gopal Sanyasi	Lab Technician	Sample collection	17373448
19	Trashigang	Dr. Palden Dorji	CMO	Enroll ILI subject	17827843
20		Nidup Zangmo	Lab Technician	Sample collection	17648033
21		Pema Zangpo	Ortho Technician	Report the case	17784843
22	Gelephu	Jigme Dukpa	Clinical Officer	Enroll ILI subject	17660030
23		Vishal Chetri	Lab Technologist	Sample collection	17422825
24		Bal Bdr Mongar	Lab Technician	Sample collection	17871974
25	Trongsa	Tashi Norbu	Staff Nurse-III	Enroll ILI subject	17714987
26		Mon Bdr Pakhring	Lab Technician	Sample collection	17635595
27		Sangay Dorji	Staff Nurse	Report the case	17873597
28	S/Jongkhar	Dr. Ugyen Wangdi	Medical Officer	Enroll ILI subject	1773-3500
29		Karma Choden	Lab Technician	Sample collection	17376632
30		Nasema Rehima	Pharmacist Technician	Report the case	17656685

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