



Influenza-like-illness (ILI) and Severe Acute Respiratory Infection (SARI) surveillance, Week 10 (2nd – 8th Mar, 2015)

Synopsis

The incidence of ILI and SARI for the week was 42/1000 outpatient visits and 4/100 hospitalized patients respectively. The highest incidence of ILI and SARI cases were reported both from Paro Hospital respectively. The ILI cases were commonly observed among age group 15-29 years while SARI cases were observed among 30-64 years age group. From **34** samples received and tested by Real-Time RT-PCR, positivity rate was **26.47%**.

Influenza Like-Illness (ILI) surveillance

Average ILI incidence in the sentinel sites for the week was 42 cases per 1000 outpatient visits which is higher to the previous week (Figure 1). The highest ILI incidence for the week among sentinel sites was observed in Paro Hospital (97 cases) followed by Trongsa Hospital (72 cases). Punakha Hospital is the only site which has not reported for the week (Figure 2).

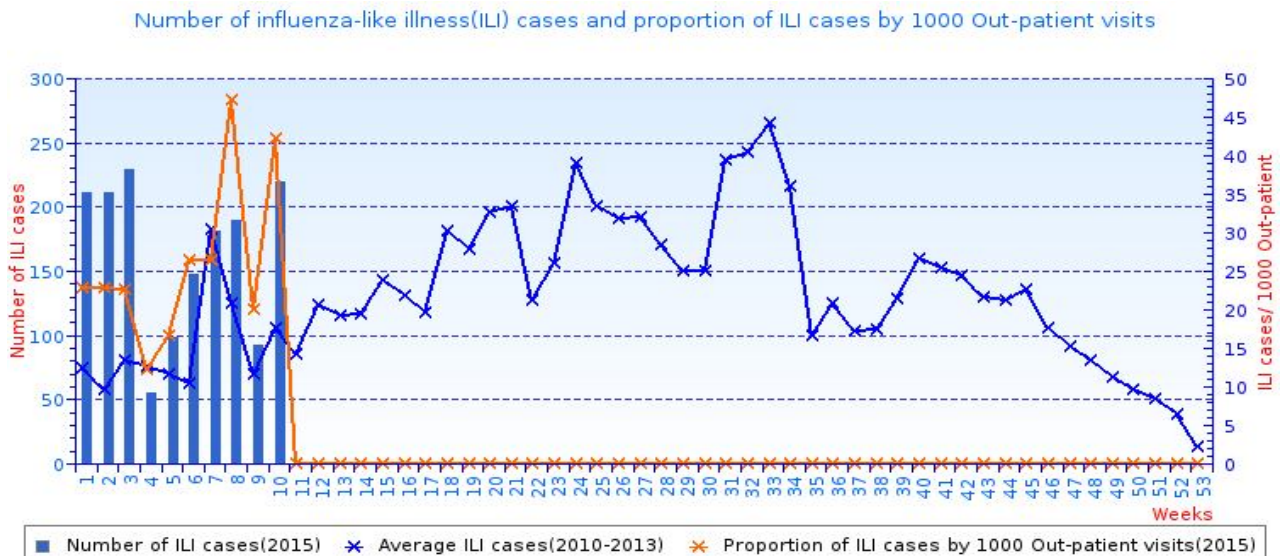


Figure 1: Average number of ILI cases reported for week-10 and previous weeks. (Data source: **Online** weekly reporting from sentinel sites.

Number of ILI cases & proportion of ILI cases by 100 Out-patient visits for Week-10(2015)

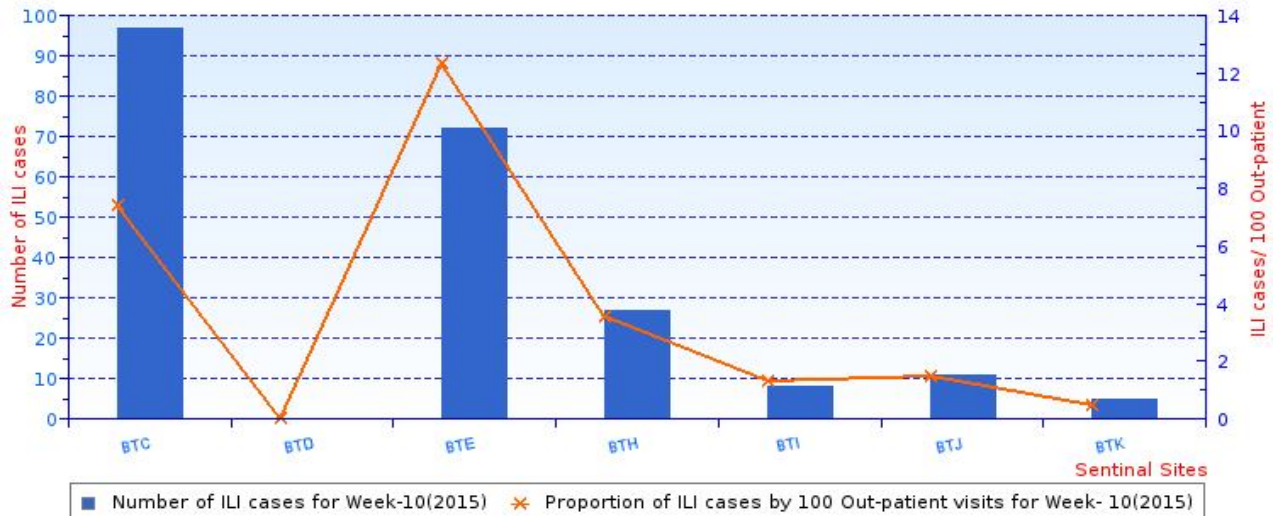


Figure 2: The number of ILI cases reported by sites (Data source: **Online** weekly reports from sentinel sites).

1. Severe Acute Respiratory Infections (SARI) surveillance

Average SARI incidence in the sentinel sites for the week was 4 SARI cases per 100 hospitalized patients which is higher than the previous week (Figure 3). The highest SARI incidence for the week among sentinel sites were observed in Paro Hospital (3 SARI cases). Trashigang and Thimphu Hospitals have not reported for the week (Figure 4).

Number of Severe Acute Respiratory Infection(SARI) cases and proportion of SARI cases by 100 In-patient visits

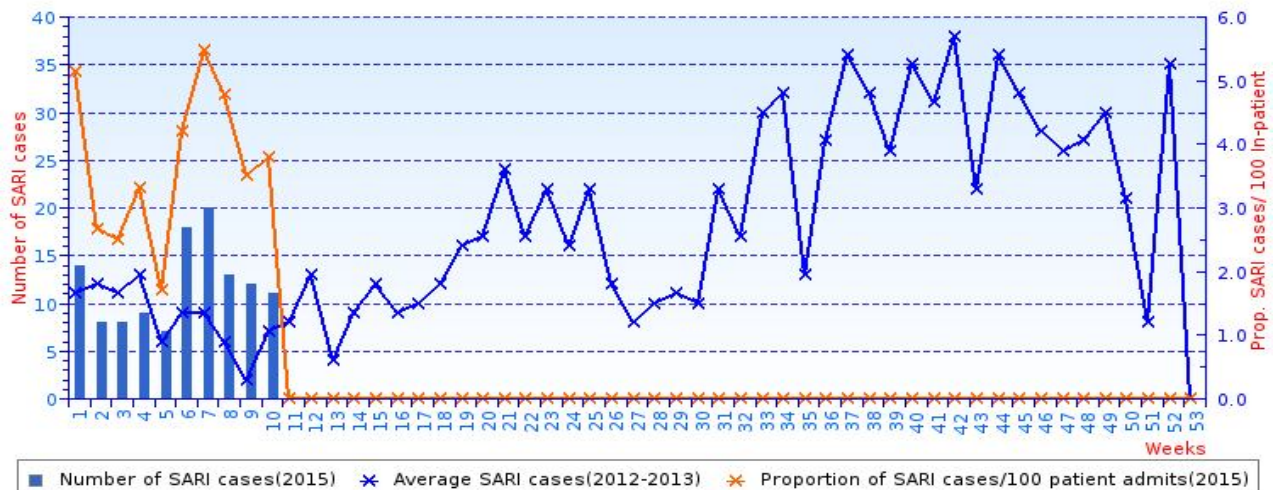


Figure 3: Average number of SARI cases reported for week-10 and previous weeks (Data source: **Online** weekly reporting from sentinel sites).

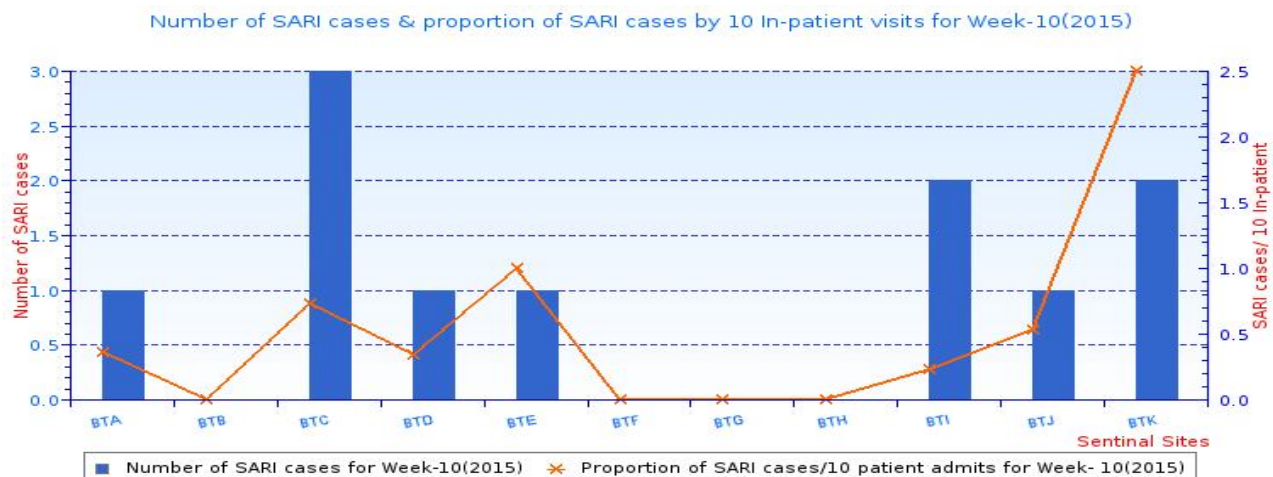


Figure 4: The number of SARI cases reported by sites (Data source: **Online** weekly reports from sentinel sites).

3. Virological Surveillance

Of total **34** samples tested by RT-PCR, 9/34 (**26.47%**) were positive for Influenza viruses (Flu A/H3- 3, Flu A/pdmH1- 6 and Flu B- 0) however, most of the sites have not collected samples (Figure 5, 6 & Table 1).

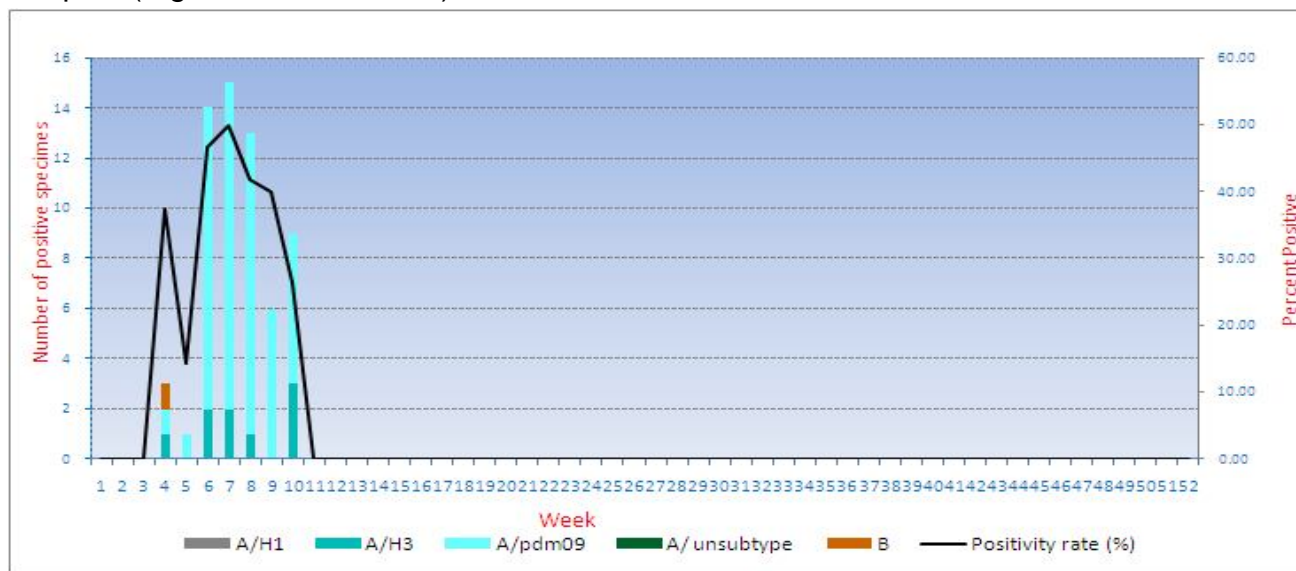


Figure 5: Trend of influenza virus subtype by week (**Note:** *Virological surveillance data is for till week 10*)

Out of **5 SARI** samples received and tested by RT-PCR, 1 sample was found positive for **pdmH1**, & A/H3- 0 and negative for RSV and hMPV.



Figure 6: Influenza subtype virus by sentinel sites for week 10 (2015).

Table 1: ILI/SARI samples received from sentinel sites for the week 10 (2014).

Sl. No	Surveillance sites	No. of ILI samples received	No. of SARI samples Received	Influenza virus type and subtype				
				A/H1	A/H3	A/pdmH1	A/un-subtyped	B
1	Mongar RR Hospital	0	0					
2	JDWNRH, Thimphu	11	0		2	1		
3	Paro Hospital	2	1					
4	Punakha Hospital	5	1		1	2		
5	Trongsa Hospital	0	1					
6	Phuntsholing Hospital	4	0					
7	Gelephu RR Hospital	2	0					
8	Trashigang Hospital	0	0					
9	Tsirang Hospital	9	1			2		
10	S/Jongkhar Hospital	0	0					
11	Samtse hospital	1	1			1		
	Total				3	6		
Note: Weekly sample target for the surveillance is minimum 60 samples (i.e. 5-6 samples per site weekly)								

4. Age Distribution among ILI and SARI cases

ILI cases were commonly observed in age group 15-29 and SARI cases were commonly observed in 30-64 years of age group (Table 2).

Table 2: ILI and SARI age categorization

Age (Years)	ILI		SARI	
	Number	Proportion (%)	Number	Proportion (%)
0-1	17	7.73	1	9.09
2-4	26	11.82	2	18.18
5-14	49	22.27	0	0
15-29	77	35.00	2	18.18
30-64	42	19.09	4	36.36
65+	9	4.09	2	18.18

5. Influenza Outbreak

Two outbreaks were reported during the week, one from **Ramjar Middle secondary School**, Trashhi Yangtse dated 02-Mar-2015 and one from **Yurung** locality, Pema Gatshel dated 04-Mar-2015. The outbreak was immediately investigated by the District Health Officials from Trashhi Yangtse and Pema Gatshel Dzongkhag respectively. Rapid test was done onsite and throat swab was collected from symptomatic cases.

A total of 20 throat swabs were received from **Trashhi Yangtse District** for Influenza rRT-PCR testing and the test was confirmed that **18** samples were positive for **Influenza A/H3** subtype viruses. Similarly 9 throat swabs were received from **Pema Gatshel** for Influenza rRT-PCR testing and the test was confirmed that **4** samples were positive for **Influenza A/pdmH1** subtype viruses.

6. Death due to SARI/Pneumonia

No death cases were reported during the week.

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	Dr Thinley Dorji	GDMO	Enroll ILI subject	16925946
2		Kencho Chopel	Medical Technologist	Sample collection	17853286
3		Ngawang Chogyal	OT Technician	Report the case	17687826
4	Phuntsholing	Dr Manish Raj Gurung	Sr Medical Officer	Enroll ILI subject	17671522
5		Som Kumar Namchu	Sr Lab Technician	Sample collection	77743637
6		Pema Lhadon	ENT Technician	Report the case	17751060
7	Punakha	Dr. Choeda Gyaltsen	Sr Medical Officer	Enroll ILI subject	17111387
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	
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	Report the case	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	Report the case	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	Report the case	17656685

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