



Influenza-like-illness (ILI) and Severe Acute Respiratory Infection (SARI) surveillance, Week 22 (May 25 –May 31, 2014)

Synopsis

The incidence of ILI and SARI for the week was 19/1000 outpatient visits and 4/100 hospitalized patients respectively. The highest incidence of ILI cases were reported from Gelephu Hospital and SARI from SamdrupJongkhar Hospital. The ILI cases were commonly observed in age group 5-14 year while SARI cases were observed in 15-29 age groups. From **14** samples received and tested by Real-Time RT-PCR, sample positive percent was **14.29%**. Among positive samples, **Influenza A/pdm09** and **Flu B** were found circulating strain for the week.

1. Influenza Like-Illness (ILI) surveillance

Average ILI incidence in the sentinel sites for the week was 19 cases per 1000 outpatient visits which are lower than the previous week (Figure 1). The highest ILI incidence for the week was observed in Gelephu Hospital (58 cases) followed by Trashigang Hospital (55 cases) respectively (Figure 2). Three sites have not reported ILI cases for the week.

Number of influenza-like illness(ILI) cases and proportion of ILI cases by 1000 Out-patient visits

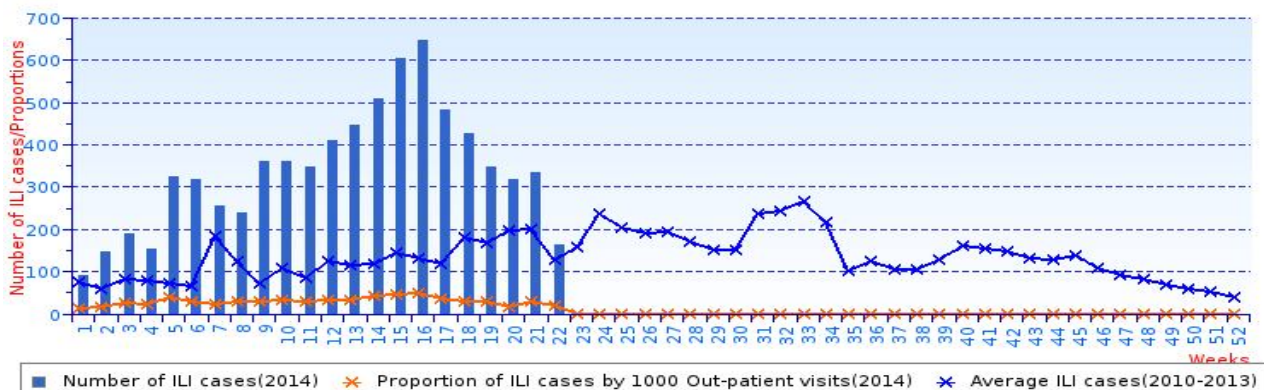


Figure 1: Average number of ILI cases reported for 22nd week and previous weeks. (Data source: **Online** weekly reporting from sentinel sites).

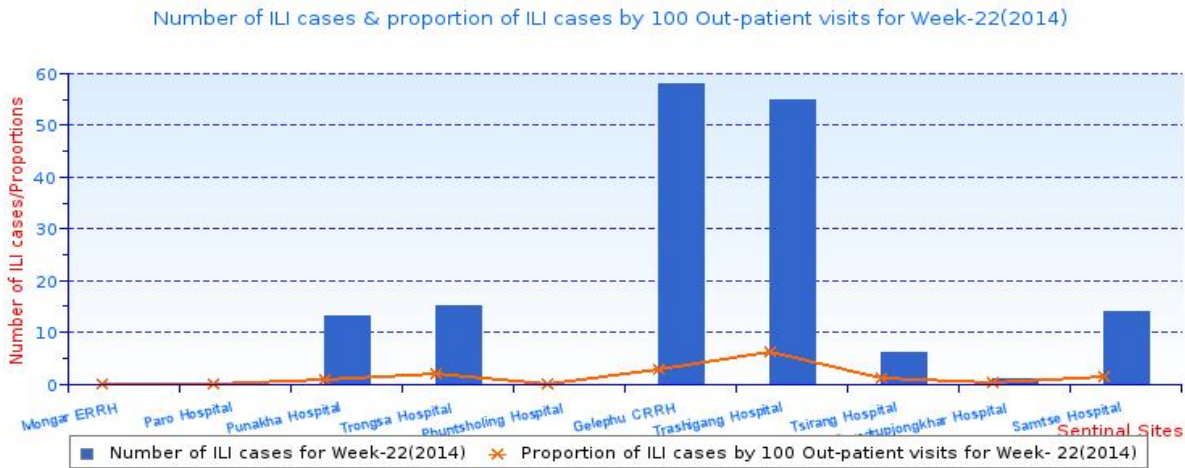


Figure 2: The number of ILI cases reported by sites (Data source: **Online** weekly reporting from sentinel sites).

2. 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 lower than the previous week (Figure 3). The highest SARI incidence for the week was observed in Samdrup Jongkhar (5 SARI cases). Three sites have not reported SARI cases for the week (Figure 4).

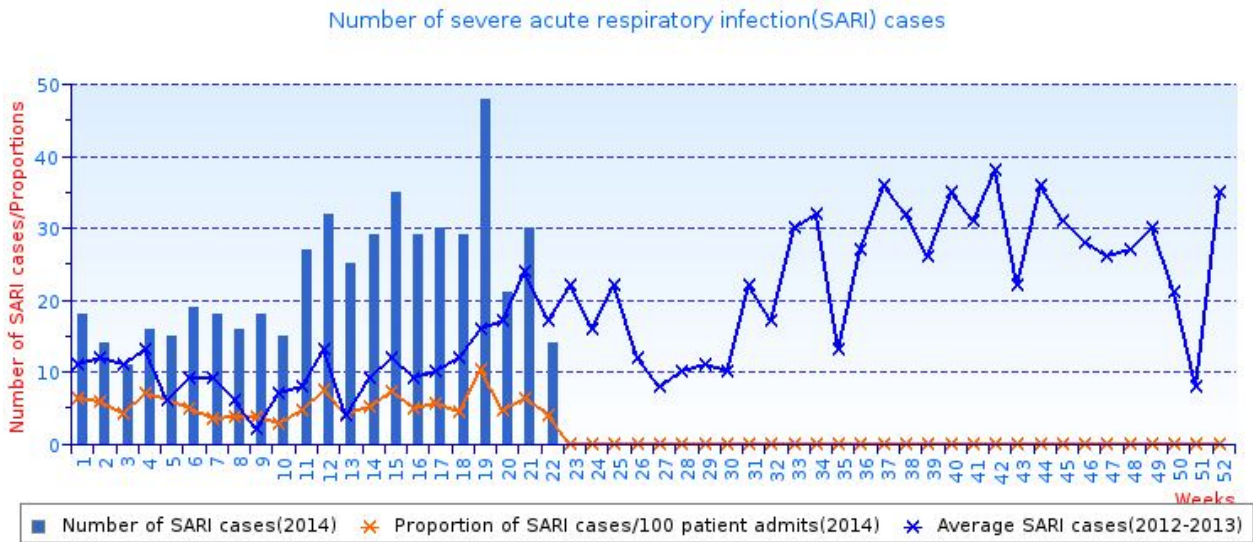


Figure 3: Average number of SARI cases reported for 22nd week and previous weeks. (Data source: **Online** weekly reporting from sentinel sites).

Number of SARI cases & proportion of SARI cases by 10 In-patient visits for Week-22(2014)

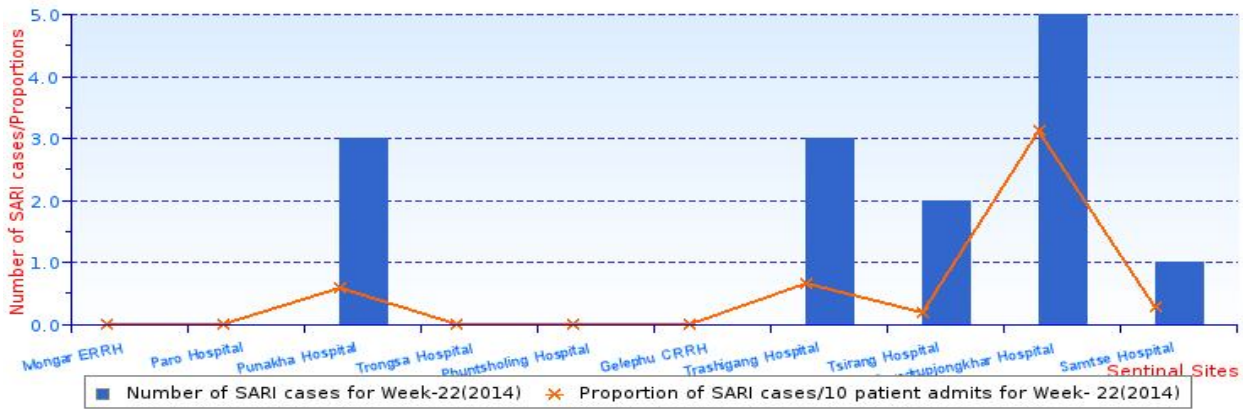


Figure 4: The number of SARI cases reported by sites (Data source: **Online** weekly report from sentinel sites).

3. Virological Surveillance

Of total 14 samples tested by RT-PCR, **14.29% (2/14)** were positive for Influenza viruses (A/Pdm09 - 1, Flu B - 1) however few sites have not collected samples. No SARI sample was received (Figure 5 & Table 1).

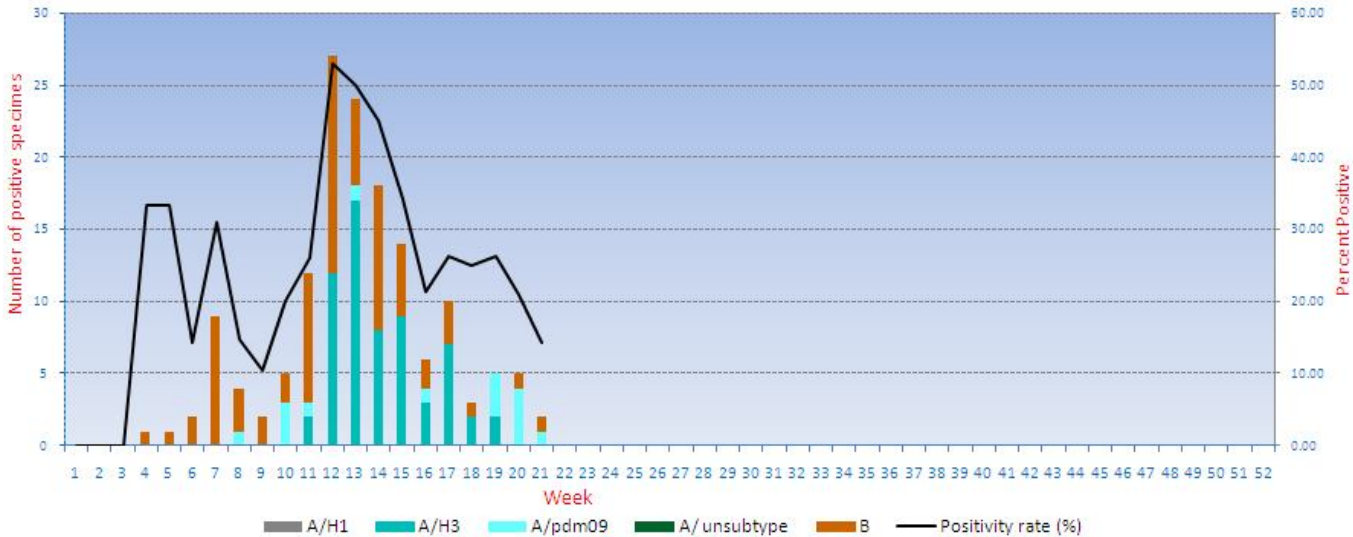


Figure 5: Trend of influenza virus subtype by week (**Note:** Virological surveillance data is for week 21)

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

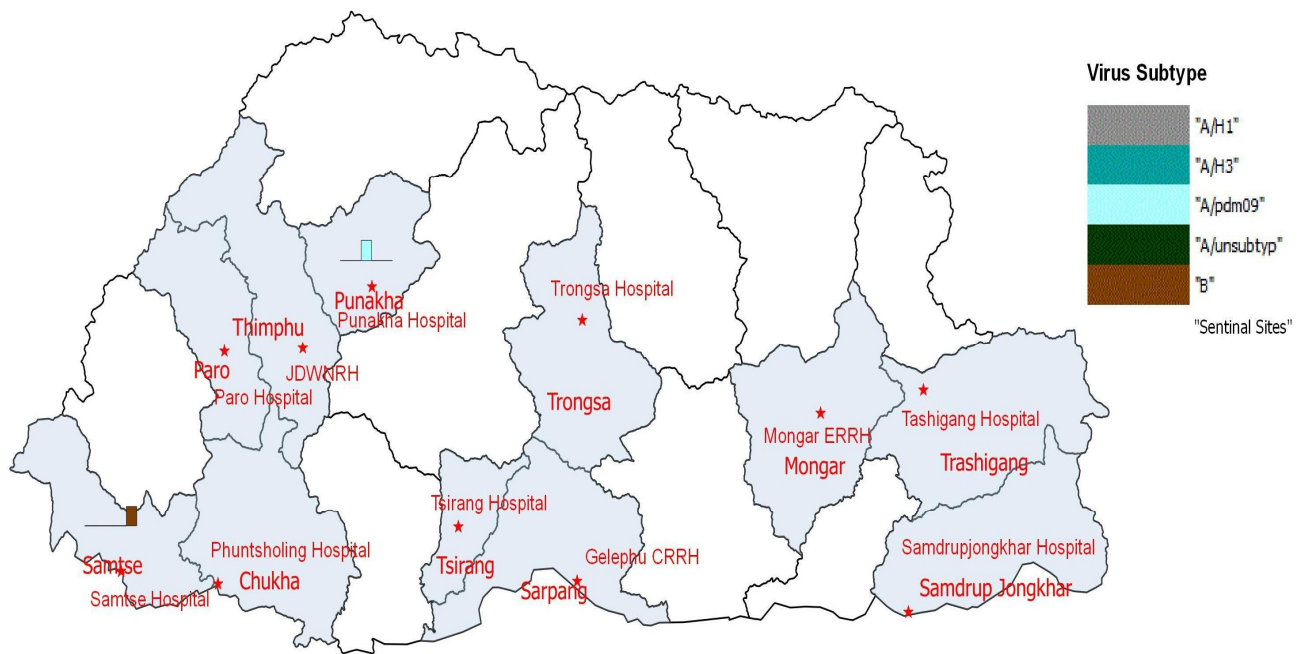


Figure 6: Influenza subtype virus by sentinel sites.

Table 1: ILI/SARI samples received from sentinel sites for the week 21 of 2014.

Sl. No	Surveillance sites	No. of samples received	Influenza virus type and subtype				
			A/H1	A/H3	A/pdm09	A/unsubtyped	B
1	Mongar RR Hospital	0					
2	JDWNRH, Thimphu	0					
3	Paro Hospital	0					
4	Punakha Hospital	1			1		
5	Trongsa Hospital	0					
6	Phuntsholing Hospital	5					
7	Gelephu RR Hospital	0					
8	Trashigang Hospital	3					
9	Tsirang Hospital	0					
10	S/Jongkhar Hospital	0					
11	Samtse hospital	5					1
	Total	14			1		1
<p>Note: Weekly sample target for the surveillance is minimum 50 samples (i.e. 4-5 samples per site weekly)</p>							

4. Age Distribution among ILI and SARI cases

ILI and SARI cases was commonly observed in age group 5-14 and 15-29 years of age respectively (Table 2)

Table 2: ILI and SARI age categorization

Age (Years)	ILI		SARI	
	Number	Proportion (%)	Number	Proportion (%)
0-1	25	15.43	1	7.14
2-4	32	19.75	3	21.43
5-14	43	26.54	1	7.14
15-29	30	18.52	4	28.57
30-64	25	15.43	2	14.29
65+	7	4.32	3	21.43

5. Influenza Outbreak

No flu outbreak was reported during the week.

6. Death due to Influenza/Pneumonia

No death case was reported during the week.