



Influenza-like-illness (ILI) and Severe Acute Respiratory Infection (SARI) surveillance, Week 21 (May 18 –May 24, 2014)

Synopsis

The incidence of ILI and SARI for the week was 28/1000 outpatient visits and 6/100 hospitalized patients respectively. The highest incidence of ILI cases were reported from Phuntsholing Hospital and SARI from Tsirang Hospital. The ILI cases were commonly observed among age group 15-29 year while 0-1 age groups were observed among SARI cases. From **23** samples received and tested by Real-Time RT-PCR, positivity rate was **21.74%**. **Influenza A/Pdm09** and **Flu B** were found dominant circulating strain for the week.

1. Influenza Like-Illness (ILI) surveillance

Average ILI incidence in the sentinel sites for the week was 28 cases per 1000 outpatient visits which is little higher than the previous week (Figure 1). The highest ILI incidence for the week among sentinel sites was observed in Phuntsholing Hospital (110 cases) followed by Gelephu Hospital (74 cases) respectively (Figure 2).

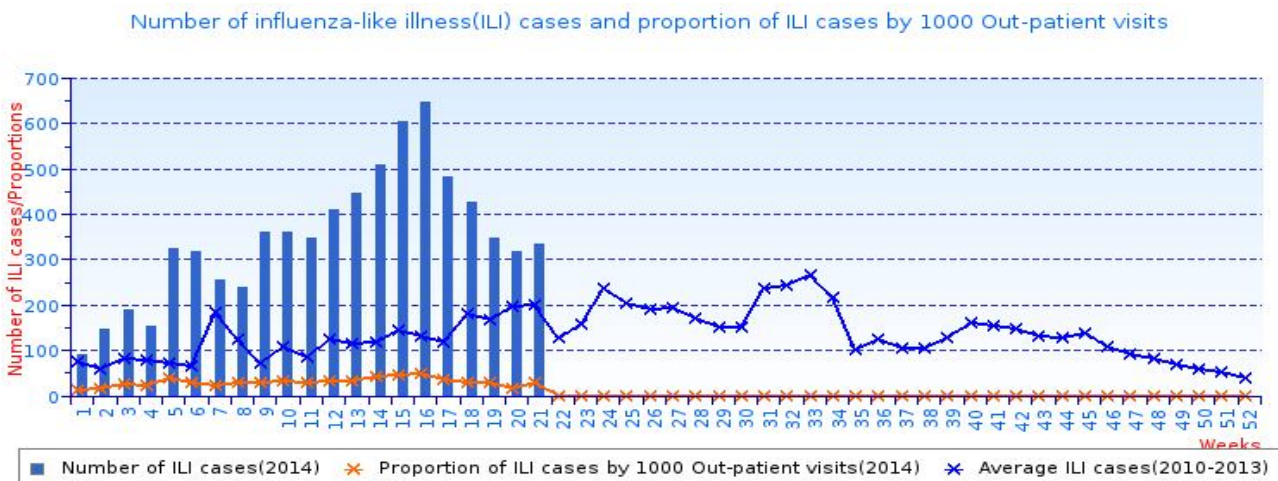


Figure 1: Average number of ILI cases reported for 21th week and previous weeks. (Data source: **Online** weekly reporting from sentinel sites).

Number of ILI cases & proportion of ILI cases by 100 Out-patient visits for Week-21(2014)

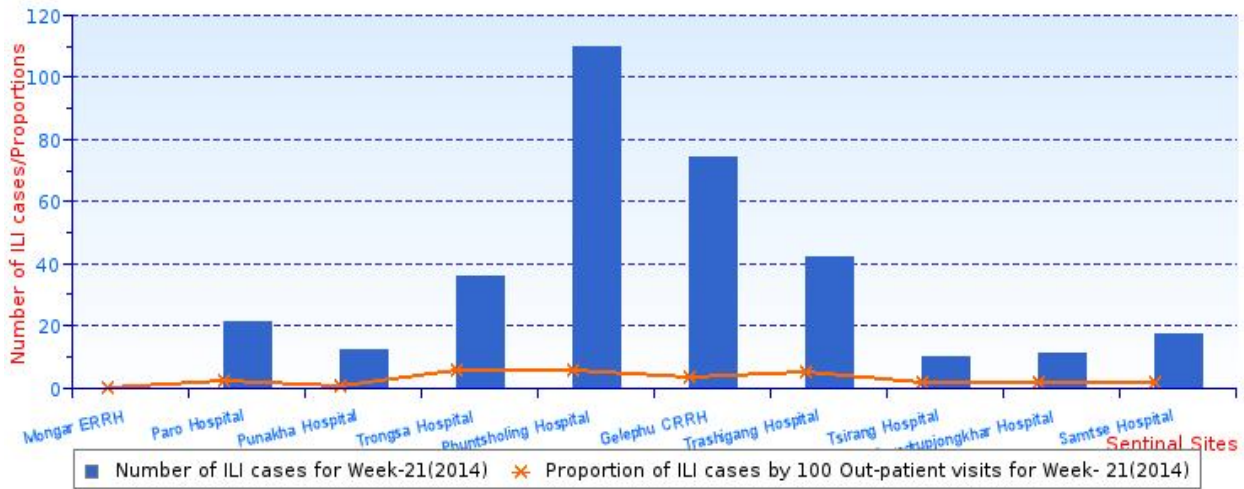


Figure 2: The number of ILI cases reported by sites (Data source: **Online** weekly reporting from sentinel sites).

2. Severe Acute Respiratory Infections (SARI) surveillance

Average SARI incidence in the sentinel sites for the week was 6 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 was observed in Tsirang (7 SARI cases) and Gelephu Hospital (6 SARI cases). Mongar Hospital has reported zero SARI case for the week (Figure 4).

Number of severe acute respiratory infection(SARI) cases

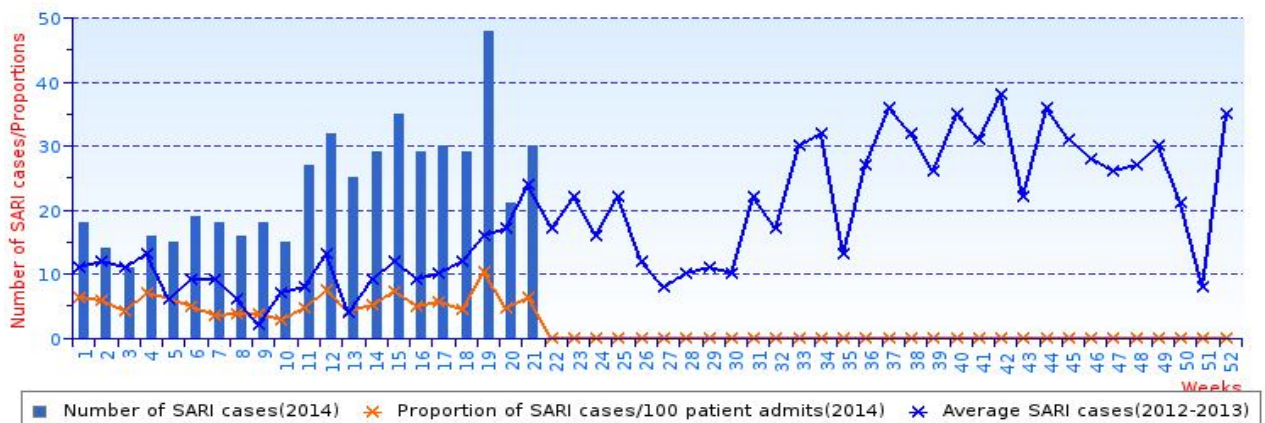


Figure 3: Average number of SARI cases reported for 21th week and previous weeks. (Data source: **Online** weekly reporting from sentinel sites).

Number of SARI cases & proportion of SARI cases by 10 In-patient visits for Week-21(2014)

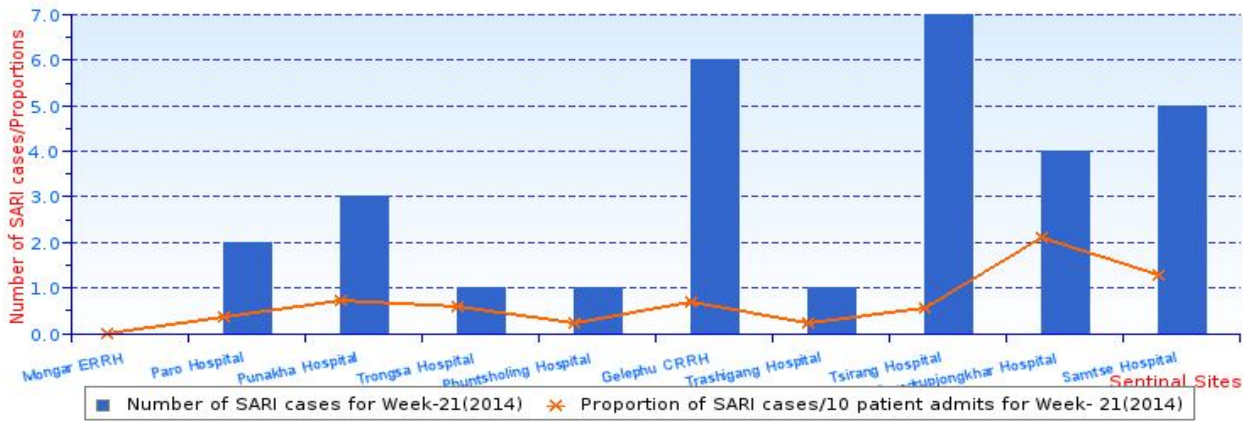


Figure 4: The number of SARI cases reported by sites (Data source: **Online** weekly report from sentinel sites).

3. Virological Surveillance

Of total 13 samples tested by RT-PCR, 5/23 (**21.74.38%**) were positive for Influenza viruses (A/Pdm09- 4, Flu B- 1) however few sites have not collected samples. No SARI sample was received (Figure 5 & Table 1).

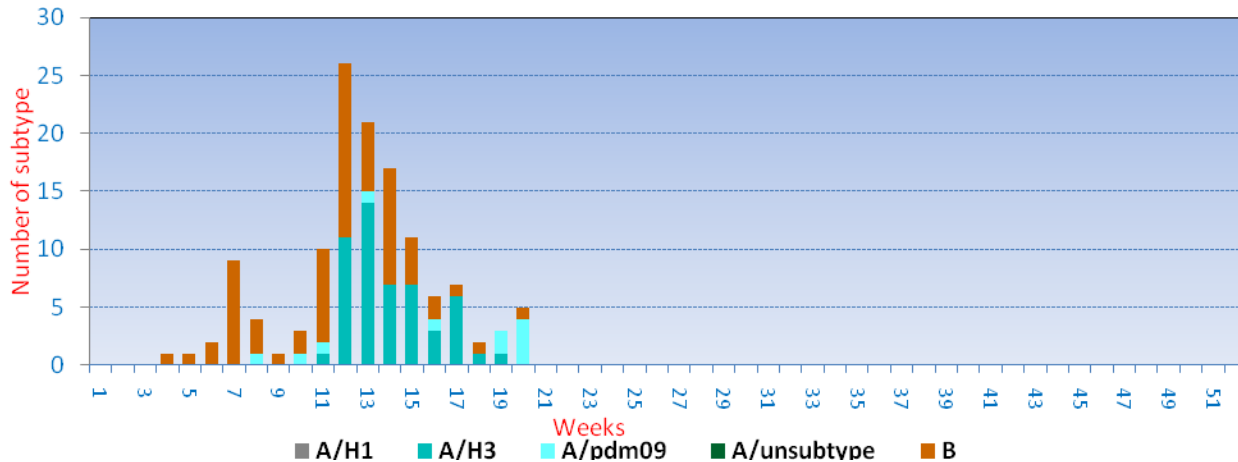


Figure 5: Trend of influenza virus subtype by week

(Note: Virological surveillance data is for week 20)

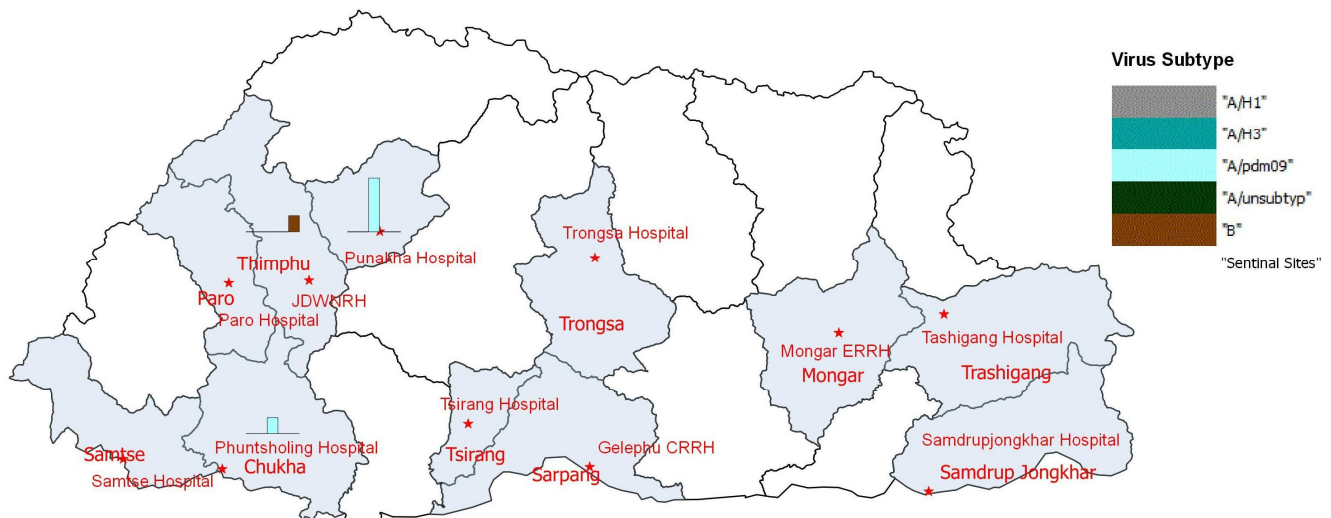


Figure 6: Influenza subtype virus by sentinel sites.

Table 1: ILI/SARI samples received from sentinel sites for the week 19th 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						
2	JDWNRH, Thimphu	3					1
3	Paro Hospital						
4	Punakha Hospital	6			3		
5	Trongsa Hospital						
6	Phuntsholing Hospital	11			1		
7	Gelephu RR Hospital	2					
8	Tashigang Hospital						
9	Tsirang Hospital						
10	S/Jongkhar Hospital						
11	Samtse hospital	1					
	Total	23			4		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 15-29 and 0-1 years of age respectively (Table 2)

Table 2: ILI and SARI age categorization

Age (Years)	ILI		SARI	
	Number	Proportion (%)	Number	Proportion (%)
0-1	59	17.72	6	20
2-4	58	17.42	6	20
5-14	73	21.92	4	13.33
15-29	76	22.82	4	13.33
30-64	58	17.42	5	16.67
65+	9	2.70	5	16.67

5. Influenza Outbreaks

No flu outbreak was reported during week 21 (May) 2014.