



Influenza-like-illness (ILI) and Severe Acute Respiratory Infection (SARI) surveillance, Week 19 (May 5–May 11, 2014)

Synopsis

The incidence of ILI and SARI for the week was 26.87/1000 outpatient visits and 10/100 hospitalized patients respectively. The highest incidence ILI cases were reported from Phuntsholing Hospital and SARI from Tsirang hospital. The ILI cases are commonly observed among age group 15-29 year while 0-1 age groups were observed among SARI cases. From **9** samples received and tested by Real Time PCR, positivity rate was **22.22%** and, **influenza A/H3** and **Influenza B** was found dominant circulating strain.

1. Influenza Like-Illness (ILI) surveillance

Average ILI incidence in the sentinel sites for the week was 26.87 cases per 1000 outpatient visit which is lower than the previous week (Figure 1). The highest ILI incidence for the week among sentinel sites was observed in Phuntsholing Hospital (118 cases) followed by Gelephu Hospital (80 cases) respectively (Figure 2).

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

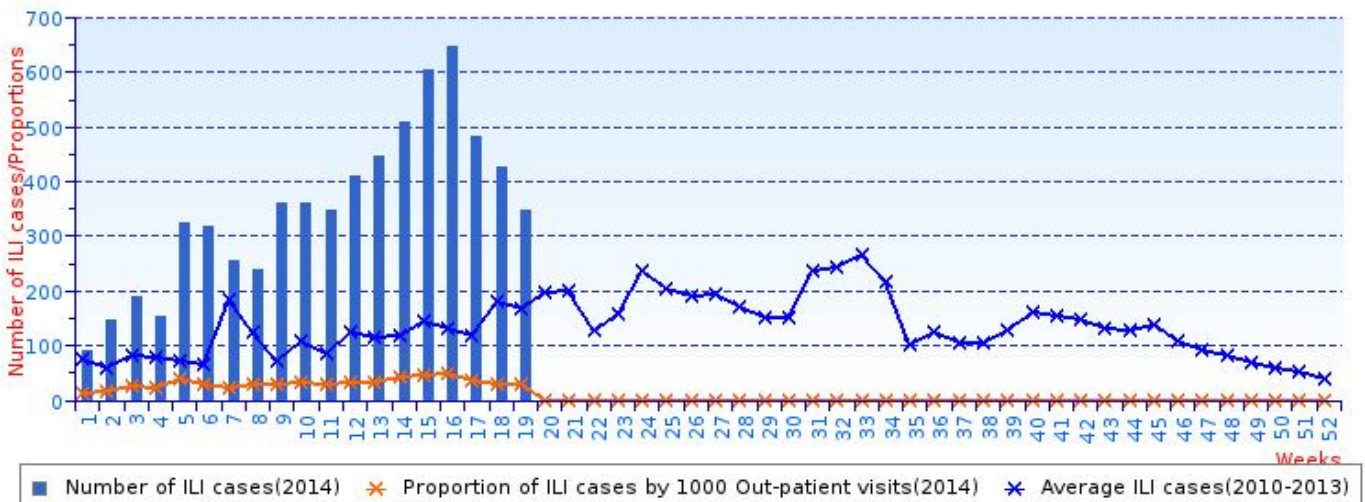


Figure 1: Average number of ILI cases reported for 19th week and previous weeks. (Data source: **Online** weekly reporting from sentinel sites).

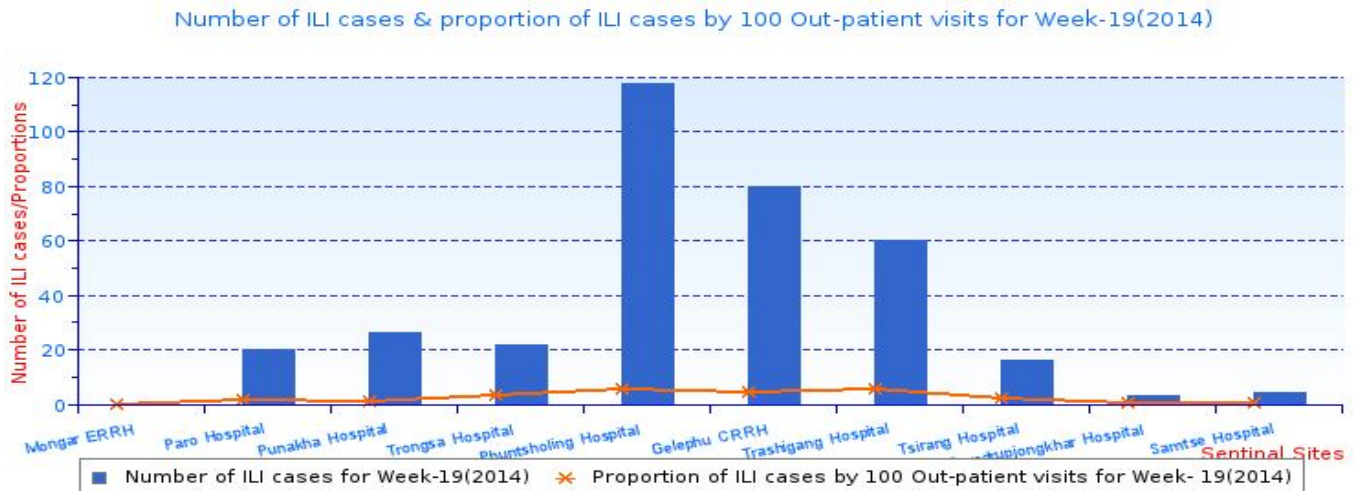


Figure 2: The number of ILI cases reported by sites (Data source: **Online** weekly reporting from sentinel sites).

2. Severe Acute Respiratory Infections (SARI) surveillance

Average SARI incidence in the sentinel sites for the week was 10 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 Hospital (10 SARI cases). Few sites have reported zero SARI case (Figure 4).

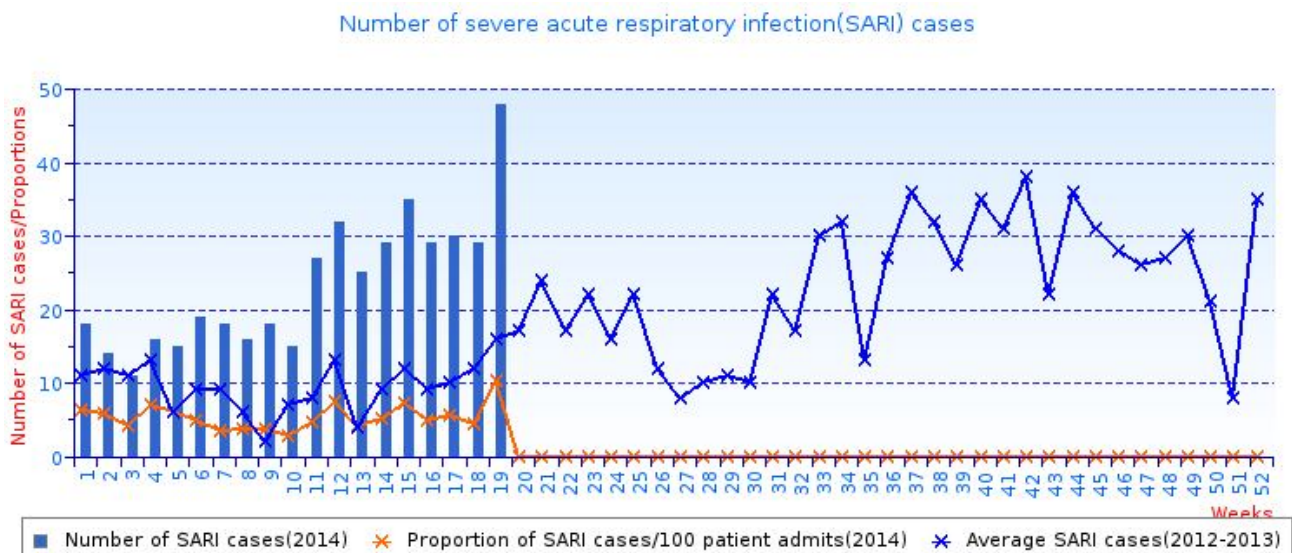


Figure 3: Average number of SARI cases reported for 19th week and previous weeks. (Data source: **Online** weekly reporting from sentinel sites).

Number of SARI cases & proportion of SARI cases by 10 In-patient visits for Week-19(2014)

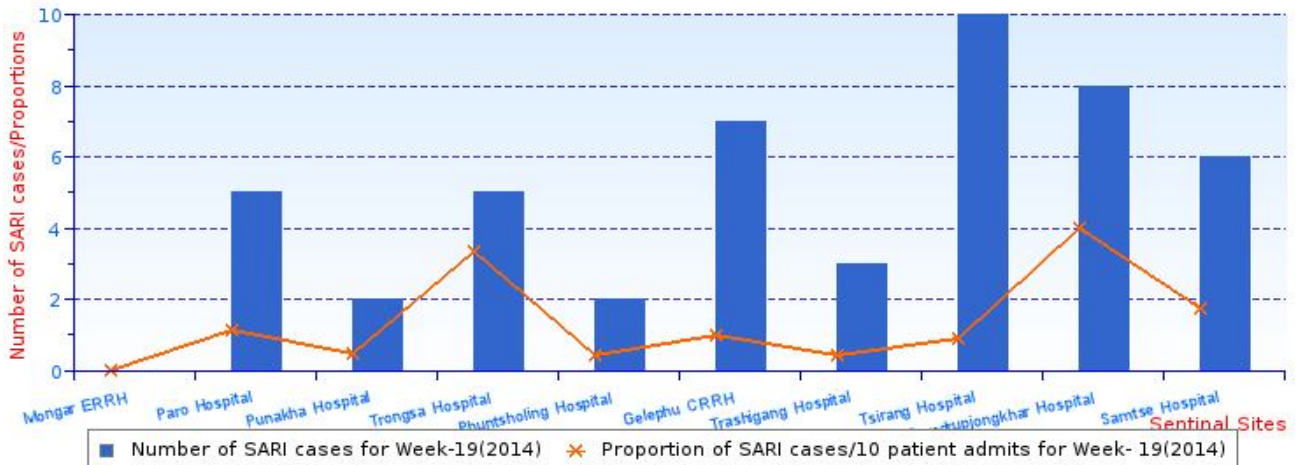


Figure 4: The number of SARI cases reported by sites (Data source: **Online** weekly report from sentinel sites).

3. Virological Surveillance

Of total 9 samples tested by RT-PCR, 2/9 (**22.22%**) were positive for Influenza viruses (A/H3- 1, Flu B- 1) however few sites have not collected samples. No SARI sample was received (Figure 5 & Table 1).

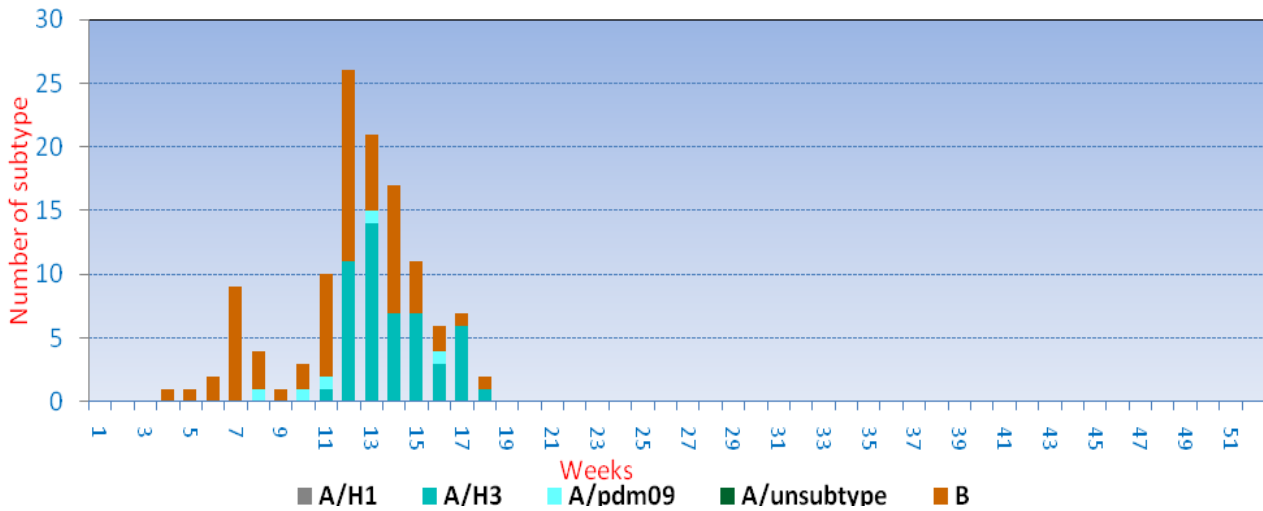


Figure 5: Trend of influenza virus subtype by week

(Note: Virological surveillance data is for week 18)

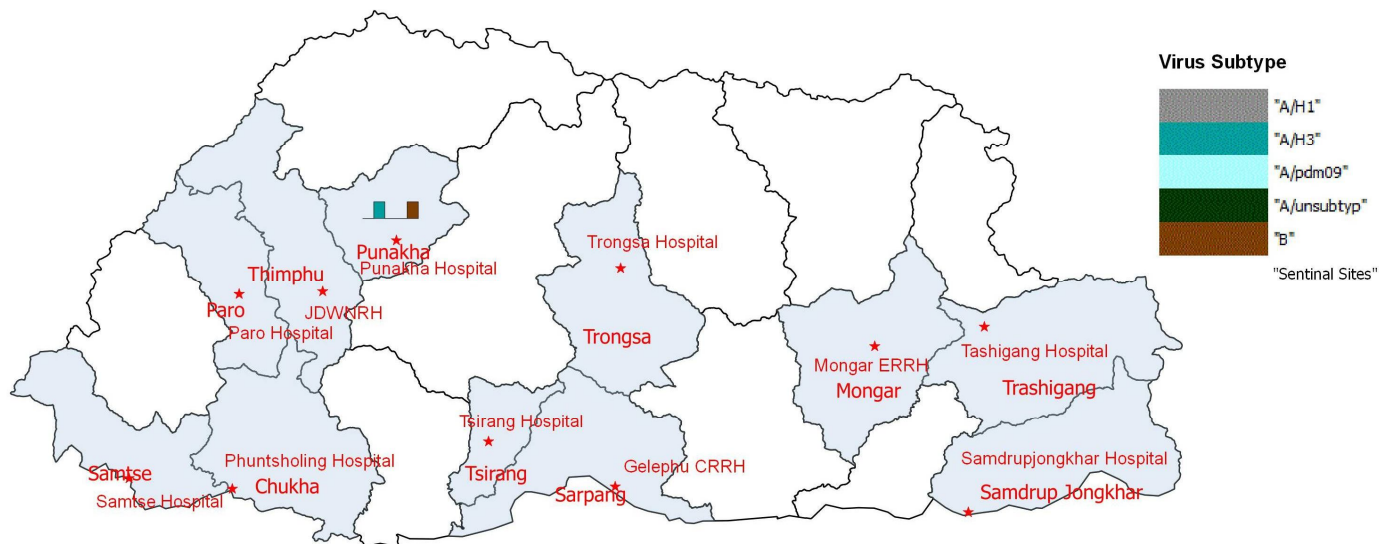


Figure 6: Influenza subtype virus by sentinel sites.

Table 1: ILI/SARI samples received from sentinel sites for the week 18th 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	2					
3	Paro Hospital						
4	Punakha Hospital	3		1			1
5	Trongsa Hospital						
6	Phuntsholing Hospital	4					
7	Gelephu RR Hospital						
8	Tashigang Hospital						
9	Tsirang Hospital						
10	S/Jongkhar Hospital						
11	Samtse hospital						
	Total	9		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 15-29 and 0-1 years of age respectively (Table 2)

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

Table 2: ILI and SARI age categorization

Age (Years)	ILI		SARI	
	Number	Proportion (%)	Number	Proportion (%)
0-1	63	18.05	16	33.33
2-4	51	14.61	10	20.83
5-14	72	20.63	7	14.58
15-29	93	26.65	4	8.33
30-64	55	15.76	6	12.5
65+	15	4.30	5	10.42

5. Influenza Outbreaks

During the week, two ILI outbreaks were reported from two sentinel sites.

1. Punakha hospital has reported ILI outbreak on 6th May 2014 in Trashiding Middle Secondary School. Total ILI cases report was during the outbreak 132 and out of **11** samples received and tested at the Public Health Laboratory, all samples were positive for **Influenza A/Pdm09** (2009 pandemic strain).
2. The other ILI outbreak was reported by Gelephu regional referral hospital in Rety village (Jigmecholing gewog, Sarpang Dzongkhag) on 7th May 2014. Total case reported was 71 and out of **18** samples were received and tested in Public Health Laboratory, **10** samples were positive for **Influenza B**.