

Monthly summary report

Hospital Based Human Influenza Surveillance in Bangladesh

January 2019

Hospital based influenza surveillance
Monthly enrollment by different wards (Medicine, Pediatrics and CCU)
January 2019

Hospital	District	Medicine ward			Pediatrics ward (≤12 years of age)			Coronary Care Unit (CCU)		
		Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %
JIMCH	Kishoregonj	27	3	11%	20	2	10%	8	1	13%
RMCH	Rajshahi	15	1	7%	11	0	0%	4	0	0%
CuMCH	Cumilla	17	1	6%	11	0	0%	11	0	0%
KMCH	Khulna	24	2	8%	10	0	0%	3	0	0%
JGH	Jashore	21	1	5%	10	0	0%	6	0	0%
JRRMCH	Sylhet	11	0	0%	12	0	0%	5	0	0%
SBMCH	Barishal	38	1	3%	10	0	0%	7	0	0%
CMCH	Chattogram	37	1	3%	10	0	0%	12	0	0%
MARMCH	Dinajpur	16	1	6%	10	0	0%	5	0	0%
		206	11	5%	104	2	2%	61	1	2%

^φ Intensive care units (ICU) surveillance discontinued in January 2019.

Hospital based influenza surveillance
Monthly hospitalwise influenza lab results
January 2019

Hospital	District	Sample	Flu	Flu %	Flu A	Flu B	Flu A+B	Flu A/H1	Flu A/H3	Flu A/H5	Flu A/H7	Flu A/ (H1N1)pdm09	Flu B Yamagata lineage	Flu B Victoria lineage
JIMCH	Kishoregonj	55	6	11%	0	6	0	0	0	0	0	0	6	0
RMCH	Rajshahi	30	1	3%	0	1	0	0	0	0	0	0	1	0
CuMCH	Cumilla	39	1	3%	0	1	0	0	0	0	0	0	1	0
KMCH	Khulna	37	2	5%	2	0	0	0	0	0	0	2	0	0
JGH	Jashore	37	1	3%	0	1	0	0	0	0	0	0	1	0
JRRMCH	Sylhet	28	0	0%	0	0	0	0	0	0	0	0	0	0
SBMCH	Barishal	55	1	2%	0	1	0	0	0	0	0	0	1	0
CMCH	Chattogram	59	1	2%	1	0	0	0	0	0	0	1	0	0
MARMCH	Dinajpur	31	1	3%	0	1	0	0	0	0	0	0	0	1
		371	14	4%	3	11	0	0	0	0	0	3	10	1

Hospital based influenza surveillance
Monthly enrollment by different surveillance groups
January 2019

Hospital	District	SARI (aged ≥ 5 years) [‡]			SARI (aged < 5 years) [‡]		
		Sample	Flu	Flu %	Sample	Flu	Flu %
JIMCH	Kishoregonj	38	6	16%	17	0	0%
RMCH	Rajshahi	20	1	5%	10	0	0%
CuMCH	Cumilla	29	1	3%	10	0	0%
KMCH	Khulna	27	2	7%	10	0	0%
JGH	Jashore	27	1	4%	10	0	0%
JRRMCH	Sylhet	18	0	0%	10	0	0%
SBMCH	Barishal	45	1	2%	10	0	0%
CMCH	Chattogram	49	1	2%	10	0	0%
MARMCH	Dinajpur	21	1	5%	10	0	0%
		274	14	5%	97	0	0%

[‡] All SARI samples (aged ≥ 5 years) collected throughout the month from medicine and pediatrics inpatients.

[‡] First ten SARI (aged < 5 years) collected from pediatrics inpatients. More than ten SARI (aged < 5 years) cases belong to the cluster.

Hospital based influenza surveillance
Influenza results by different age groups
January 2019

Age groups	January 2019						Initiation - January 2019								
	SARI (aged ≥ 5 years) [‡]			SARI (aged < 5 years) [‡]			SARI (aged ≥ 5 years) [‡]			ILI [‡]			SARI (aged < 5 years) [‡]		
	Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %
<1 Year	-	-	-	65	0	0%	-	-	-	2665	189	7%	5,566	244	4%
1-4 Years	-	-	-	32	0	0%	-	-	-	4217	601	14%	1,877	206	11%
5-14 Years	29	5	17%	-	-	-	2808	576	21%	2317	547	24%	-	-	-
15-24 Years	18	0	0%	-	-	-	3434	734	21%	2167	413	19%	-	-	-
25-39 Years	44	3	7%	-	-	-	3349	649	19%	1916	299	16%	-	-	-
40-59 Years	78	3	4%	-	-	-	3905	701	18%	1245	201	16%	-	-	-
≥ 60 Years	105	3	3%	-	-	-	4058	708	17%	400	46	12%	-	-	-
	274	14	5%	97	0	0%	17,554	3,368	19%	14,927	2,296	15%	7,443	450	6%

[‡] All SARI samples (aged ≥ 5 years) collected throughout the month from medicine and pediatrics inpatients.

[‡] First ten SARI (aged <5 years) collected from pediatrics inpatients.

[‡] Outpatient ILI surveillance discontinued in October 2017.

Hospital based influenza surveillance
Hospitalwise influenza lab results
Surveillance initiation - January 2019

Hospital	District	Initiation	Sample	Flu	Flu %	Flu A ^ψ	Flu B ^λ	Flu A+B [‡]	Flu A/H1	Flu A/H3	Flu A/H5	Flu A/H7	Flu A/ (H1N1)pdm09	Flu B Yamagata lineage	Flu B Victoria lineage
DNMCH ^γ	Dhaka	Jun 2007	2061	312	15%	201	111	0	15	84	0	0	102	13	7
CBMCH ^γ	Mymensingh	Oct 2007	2053	302	15%	206	96	0	7	107	1	0	91	16	10
JIMCH	Kishoregonj	Sep 2007	4687	924	20%	641	283	0	9	316	0	0	315	59	54
RMCH	Rajshahi	May 2007	2910	331	11%	224	107	0	14	108	0	0	102	27	19
SZRMCH ^γ	Bogura	Sep 2007	3865	653	17%	439	213	1	12	256	0	0	170	29	39
LAMB [†]	Dinajpur	Oct 2007	1171	112	10%	72	40	0	7	41	0	0	24	1	0
BBMH [†]	Chattogram	Aug 2007	1440	157	11%	118	39	0	13	42	0	0	63	3	0
CuMCH	Cumilla	Oct 2007	4540	567	12%	375	190	2	9	187	0	0	179	27	13
KMCH	Khulna	Jul 2007	2513	345	14%	248	97	0	16	126	0	0	106	17	19
JGH ^{γ†}	Jashore	Sep 2007	3380	611	18%	404	206	1	10	202	0	0	192	19	49
JRRMCH	Sylhet	Jul 2007	3363	566	17%	360	205	1	16	152	0	0	192	33	29
SBMCH	Barishal	Aug 2007	4937	692	14%	444	245	3	9	207	0	0	228	52	44
CMCH	Chattogram	Apr 2014	1804	311	17%	213	96	2	0	85	0	0	128	41	35
MARMCH [‡]	Dinajpur	Apr 2014	1200	231	19%	168	63	0	0	83	0	0	83	25	17
			39,924	6,114	15%	4,113	1,991	10	137	1,996	1	0	1,975	362	335

^λInfluenza B typing initiated in January 2016.

^ψrRT-PCR result of four samples were equivocal positive for Influenza A.

^ψOne sample collected in June 2013 and another sample collected in June 2017 were co-infected with both A(H3) and A(H1N1)pdm09.

^λThree samples were co-infected with both Influenza B (Yamagata lineage) and Influenza B (Victoria lineage), another ten samples were unsubtypeable.

[‡]One sample collected in June 2017 was co-infected with both Influenza A(H1N1)pdm09 and Influenza B (Victoria lineage).

[†]Surveillance activities ended at LAMB (Dinajpur) and BBMH (Chittagong) in May 2016.

^γSurveillance activities ended at DNMCH (Dhaka), CBMCH (Mymensingh), SZRMCH (Bogra) and JGH (Jessore) in October 2017.

[†]Surveillance activities reinitiated at Jashore 250 bed General Hospital (JGH), Jashore in December 2018.

[‡]Dinajpur Medical College Hospital (DjMCH) has been renamed as M Abdur Rahim Medical College Hospital (MARMCH).

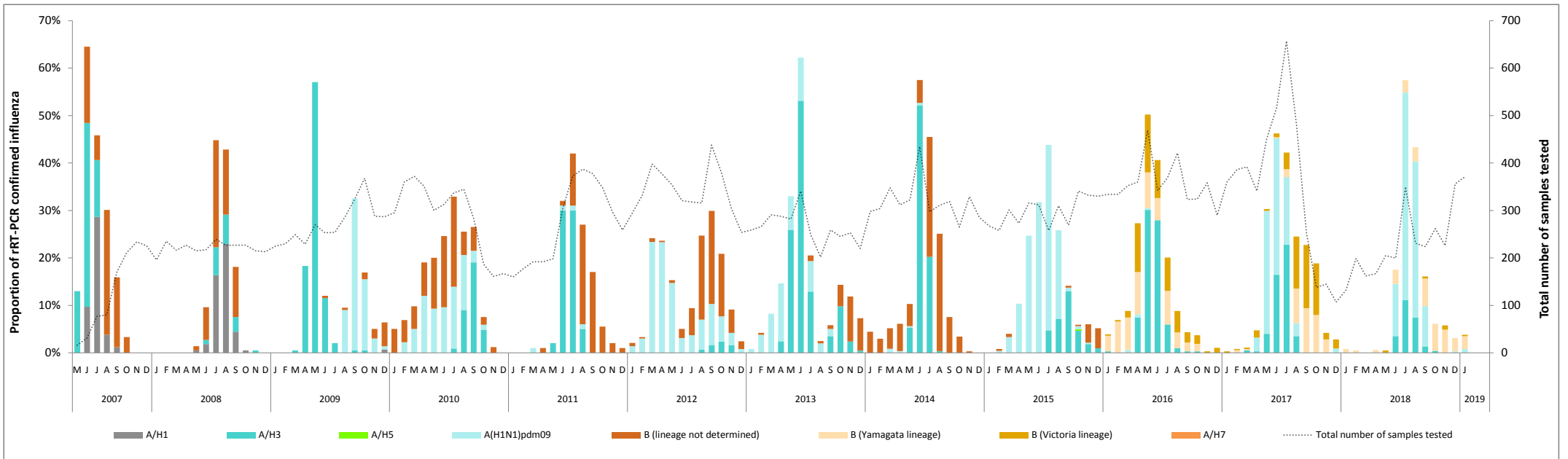
Note: Surveillance activities extended to the intensive care units (ICU) and coronary care unit (CCU) of the participating hospitals in January 2018.

^φIntensive care units (ICU) surveillance discontinued in January 2019.

Hospital based influenza surveillance

Influenza seasonality graph

May 2007 - January 2019



Note: Influenza B typing initiated in January 2016

Hospital based influenza surveillance
Influenza seasonality graph
Week 05 of 2018 to week 04 of 2019

