



Monthly summary report

Hospital Based Human Influenza Surveillance in Bangladesh

October 2018

Hospital based influenza surveillance
Monthly enrollment by different wards (Medicine, Pediatrics, CCU and ICU)
October 2018

Hospital	District	Medicine ward			Pediatrics ward (≤12 years of age)			Intensive Care Unit (ICU)			Coronary Care Unit (CCU)		
		Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %
JIMCH	Kishoregonj	23	0	0%	13	0	0%	1	0	0%	7	1	14%
RMCH	Rajshahi	17	2	12%	12	0	0%	0	0	0%	8	1	13%
CoMCH	Cumilla	11	0	0%	12	1	8%	0	0	0%	8	0	0%
KMCH	Khulna	13	0	0%	10	0	0%	0	0	0%	3	0	0%
JRRMCH	Sylhet	3	1	33%	15	3	20%	0	0	0%	2	0	0%
SBMCH	Barishal	15	2	13%	10	0	0%	0	0	0%	3	0	0%
CMCH	Chattogram	24	2	8%	10	0	0%	0	0	0%	17	2	12%
MARMCH	Dinajpur	11	0	0%	10	1	10%	0	0	0%	4	0	0%
		117	7	6%	92	5	5%	1	0	0%	52	4	8%

Hospital based influenza surveillance
Monthly hospitalwise influenza lab results
October 2018

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	44	1	2%	0	1	0	0	0	0	0	0	1	0
RMCH	Rajshahi	37	3	8%	0	3	0	0	0	0	0	0	3	0
CoMCH	Cumilla	31	1	3%	0	1	0	0	0	0	0	0	1	0
KMCH	Khulna	26	0	0%	0	0	0	0	0	0	0	0	0	0
JRRMCH	Sylhet	20	4	20%	0	4	0	0	0	0	0	0	4	0
SBMCH	Barishal	28	2	7%	0	2	0	0	0	0	0	0	2	0
CMCH	Chattogram	51	4	8%	1	3	0	0	1	0	0	0	3	0
MARMCH	Dinajpur	25	1	4%	0	1	0	0	0	0	0	0	1	0
		262	16	6%	1	15	0	0	1	0	0	0	15	0

Hospital based influenza surveillance
Monthly enrollment by different surveillance groups
October 2018

Hospital	District	SARI (aged ≥ 5 years) [‡]			SARI (aged < 5 years) [‡]		
		Sample	Flu	Flu %	Sample	Flu	Flu %
JIMCH	Kishoregonj	34	1	3%	10	0	0%
RMCH	Rajshahi	28	3	11%	9	0	0%
CoMCH	Cumilla	21	0	0%	10	1	10%
KMCH	Khulna	16	0	0%	10	0	0%
JRRMCH	Sylhet	10	3	30%	10	1	10%
SBMCH	Barishal	18	2	11%	10	0	0%
CMCH	Chattogram	41	4	10%	10	0	0%
MARMCH	Dinajpur	15	0	0%	10	1	10%
		183	13	7%	79	3	4%

[‡]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.

Hospital based influenza surveillance
Influenza results by different age groups
October 2018

Age groups	October 2018						Initiation - October 2018								
	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	-	-	-	60	2	3%	-	-	-	2665	189	7%	5372	243	5%
1-4 Years	-	-	-	19	1	5%	-	-	-	4217	601	14%	1800	205	11%
5-14 Years	23	2	9%	-	-	-	2735	567	21%	2317	547	24%	-	-	-
15-24 Years	31	2	6%	-	-	-	3368	724	21%	2167	413	19%	-	-	-
25-39 Years	31	0	0%	-	-	-	3239	643	20%	1916	299	16%	-	-	-
40-59 Years	49	4	8%	-	-	-	3715	696	19%	1245	201	16%	-	-	-
≥ 60 Years	49	5	10%	-	-	-	3815	702	18%	400	46	12%	-	-	-
	183	13	7%	79	3	4%	16,872	3,332	20%	14,927	2,296	15%	7,172	448	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 - October 2018

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	4545	911	20%	641	270	0	9	316	0	0	315	46	54
RMCH	Rajshahi	May 2007	2823	325	12%	224	101	0	14	108	0	0	102	21	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
CoMCH	Cumilla	Oct 2007	4439	565	13%	375	188	2	9	187	0	0	179	25	13
KMCH	Khulna	Jul 2007	2421	340	14%	246	94	0	16	126	0	0	104	16	17
JGH ^γ	Jashore	Sep 2007	3310	608	18%	403	204	1	10	202	0	0	191	17	49
JRRMCH	Sylhet	Jul 2007	3279	565	17%	360	204	1	16	152	0	0	192	32	29
SBMCH	Barishal	Aug 2007	4803	688	14%	444	241	3	9	207	0	0	228	48	44
CMCH	Chattogram	Apr 2014	1652	308	19%	212	94	2	0	85	0	0	127	39	35
MARMCH ^²	Dinajpur	Apr 2014	1109	230	21%	168	62	0	0	83	0	0	83	25	16
			38,971	6,076	16%	4,109	1,957	10	137	1,996	1	0	1,971	331	332

^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).

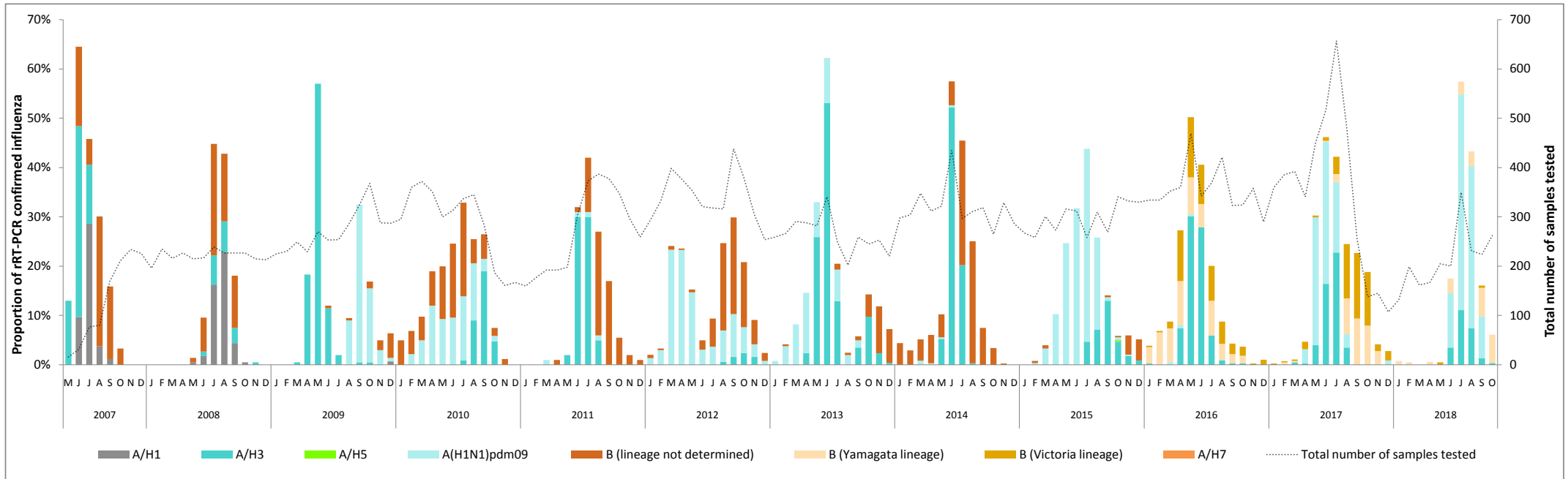
[†]Surveillance activities ended at LAMB (Dinajpur) and BBMH (Chittagong) in May 2016.

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

^²Dinajpur 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

Hospital based influenza surveillance
Influenza seasonality graph
May 2007 - October 2018



Note: Influenza B typing initiated in January 2016

Hospital based influenza surveillance

Influenza seasonality graph

Week 45 of 2017 to week 44 of 2018

