

Monthly summary report

Hospital Based Human Influenza Surveillance in Bangladesh

December 2018

Hospital based influenza surveillance
Monthly enrollment by different wards (Medicine, Pediatrics, CCU and ICU)
December 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	30	1	3%	14	0	0%	-	-	-	7	0	0%
RMCH	Rajshahi	13	1	8%	11	1	9%	-	-	-	4	0	0%
CuMCH	Cumilla	12	0	0%	12	0	0%	-	-	-	15	0	0%
KMCH	Khulna	21	1	5%	10	0	0%	-	-	-	3	0	0%
JGH ^T	Jashore	19	1	5%	10	1	10%	-	-	-	4	0	0%
JRRMCH	Sylhet	11	1	9%	19	0	0%	-	-	-	4	0	0%
SBMCH	Barishal	36	2	6%	13	0	0%	-	-	-	5	0	0%
CMCH	Chattogram	27	2	7%	11	0	0%	-	-	-	12	0	0%
MARMCH	Dinajpur	18	0	0%	10	0	0%	-	-	-	5	0	0%
		187	9	5%	110	2	2%	-	-	-	59	0	0%

Hospital based influenza surveillance
Monthly hospitalwise influenza lab results
December 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	51	1	2%	0	1	0	0	0	0	0	0	1	0
RMCH	Rajshahi	28	2	7%	0	2	0	0	0	0	0	0	2	0
CuMCH	Cumilla	39	0	0%	0	0	0	0	0	0	0	0	0	0
KMCH	Khulna	34	1	3%	0	1	0	0	0	0	0	0	1	0
JGH [†]	Jashore	33	2	6%	1	1	0	0	0	0	0	1	1	0
JRRMCH	Sylhet	34	1	3%	0	1	0	0	0	0	0	0	1	0
SBMCH	Barishal	54	2	4%	0	2	0	0	0	0	0	0	2	0
CMCH	Chattogram	50	2	4%	0	2	0	0	0	0	0	0	2	0
MARMCH	Dinajpur	33	0	0%	0	0	0	0	0	0	0	0	0	0
		356	11	3%	1	10	0	0	0	0	0	1	10	0

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

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

Hospital	District	SARI (aged ≥ 5 years) [‡]			SARI (aged < 5 years) [‡]		
		Sample	Flu	Flu %	Sample	Flu	Flu %
JIMCH	Kishoregonj	39	1	3%	12	0	0%
RMCH	Rajshahi	18	2	11%	10	0	0%
CuMCH	Cumilla	29	0	0%	10	0	0%
KMCH	Khulna	24	1	4%	10	0	0%
JGH ^T	Jashore	23	1	4%	10	1	10%
JRRMCH	Sylhet	19	1	5%	15	0	0%
SBMCH	Barishal	41	2	5%	13	0	0%
CMCH	Chattogram	40	2	5%	10	0	0%
MARMCH	Dinajpur	23	0	0%	10	0	0%
		256	10	4%	100	1	1%

[‡]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
December 2018**

Age groups	December 2018						Initiation - December 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	-	-	-	74	1	1%	-	-	-	2665	189	7%	5,501	244	4%
1-4 Years	-	-	-	26	0	0%	-	-	-	4217	601	14%	1,845	206	11%
5-14 Years	26	1	4%	-	-	-	2779	571	21%	2317	547	24%	-	-	-
15-24 Years	27	5	19%	-	-	-	3416	734	21%	2167	413	19%	-	-	-
25-39 Years	40	0	0%	-	-	-	3305	646	20%	1916	299	16%	-	-	-
40-59 Years	69	2	3%	-	-	-	3827	698	18%	1245	201	16%	-	-	-
≥ 60 Years	94	2	2%	-	-	-	3953	705	18%	400	46	12%	-	-	-
	256	10	4%	100	1	1%	17,280	3,354	19%	14,927	2,296	15%	7,346	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 - December 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	4632	918	20%	641	277	0	9	316	0	0	315	53	54
RMCH	Rajshahi	May 2007	2880	330	11%	224	106	0	14	108	0	0	102	26	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	4501	566	13%	375	189	2	9	187	0	0	179	26	13
KMCH	Khulna	Jul 2007	2476	343	14%	246	97	0	16	126	0	0	104	17	19
JGH ^{γ†}	Jashore	Sep 2007	3343	610	18%	404	205	1	10	202	0	0	192	18	49
JRRMCH	Sylhet	Jul 2007	3335	566	17%	360	205	1	16	152	0	0	192	33	29
SBMCH	Barishal	Aug 2007	4882	691	14%	444	244	3	9	207	0	0	228	51	44
CMCH	Chattogram	Apr 2014	1745	310	18%	212	96	2	0	85	0	0	127	41	35
MARMCH [‡]	Dinajpur	Apr 2014	1169	230	20%	168	62	0	0	83	0	0	83	25	16
			39,553	6,100	15%	4,110	1,980	10	137	1,996	1	0	1,972	352	334

^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

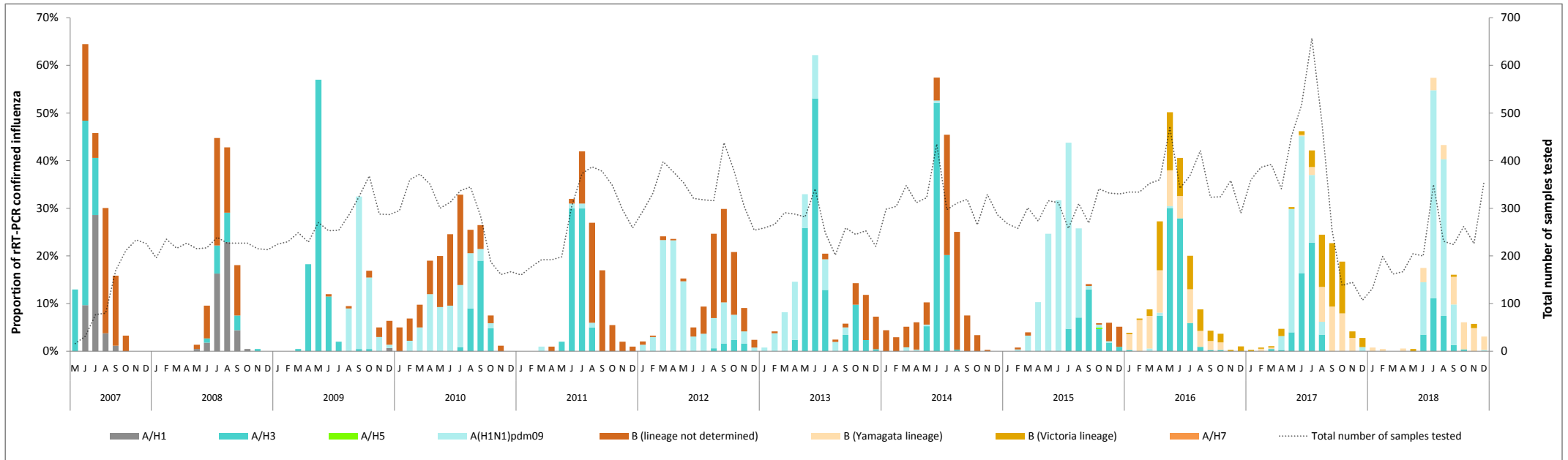
[‡]Dinajpur Medical College Hospital (DjMCH) has been renamed as M Abdur Rahim Medical College Hospital (MARMCH)

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

Hospital based influenza surveillance

Influenza seasonality graph

May 2007 - December 2018



Note: Influenza B typing initiated in January 2016

Hospital based influenza surveillance
Influenza seasonality graph
Week 01 of 2018 to week 52 of 2018

