



Monthly summary report

Hospital Based Human Influenza Surveillance in Bangladesh

January 2020

Hospital based influenza surveillance
Monthly enrollment by different wards (Medicine, Pediatrics and CCU)
January 2020

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	5	1	20%	8	1	13%	3	0	0%
RMCH	Rajshahi	12	0	0%	5	0	0%	3	0	0%
CuMCH	Cumilla	7	0	0%	9	0	0%	3	1	33%
KMCH	Khulna	14	0	0%	5	0	0%	2	0	0%
JGH	Jashore	4	1	25%	8	0	0%	3	0	0%
JRRMCH	Sylhet	2	0	0%	13	0	0%	2	0	0%
SBMCH	Barishal	12	0	0%	7	0	0%	5	0	0%
CMCH	Chattogram	7	1	14%	7	1	14%	6	1	17%
MARMCH	Dinajpur	6	0	0%	6	0	0%	3	0	0%
		69	3	4%	68	2	3%	30	2	7%

Hospital based influenza surveillance
Monthly hospitalwise influenza lab results
January 2020

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	16	2	13%	2	0	0	0	1	0	0	1	0	0
RMCH	Rajshahi	20	0	0%	0	0	0	0	0	0	0	0	0	0
CuMCH	Cumilla	19	1	5%	1	0	0	0	0	0	0	1	0	0
KMCH	Khulna	21	0	0%	0	0	0	0	0	0	0	0	0	0
JGH	Jashore	15	1	7%	1	0	0	0	0	0	0	1	0	0
JRRMCH	Sylhet	17	0	0%	0	0	0	0	0	0	0	0	0	0
SBMCH	Barishal	24	0	0%	0	0	0	0	0	0	0	0	0	0
CMCH	Chattogram	20	3	15%	3	0	0	0	0	0	0	3	0	0
MARMCH	Dinajpur	15	0	0%	0	0	0	0	0	0	0	0	0	0
		167	7	4%	7	0	0	0	1	0	0	6	0	0

Hospital based influenza surveillance
Monthly enrollment by different surveillance groups
January 2020

Hospital	District	SARI (aged \geq 5 years)			SARI (aged < 5 years)		
		Sample	Flu	Flu %	Sample	Flu	Flu %
JIMCH	Kishoregonj	11	1	9%	5	1	20%
RMCH	Rajshahi	15	0	0%	5	0	0%
CuMCH	Cumilla	14	1	7%	5	0	0%
KMCH	Khulna	16	0	0%	5	0	0%
JGH	Jashore	10	1	10%	5	0	0%
JRRMCH	Sylhet	10	0	0%	7	0	0%
SBMCH	Barishal	19	0	0%	5	0	0%
CMCH	Chattogram	15	2	13%	5	1	20%
MARMCH	Dinajpur	10	0	0%	5	0	0%
		120	5	4%	47	2	4%

Hospital based influenza surveillance
Influenza results by different age groups
January 2020

Age groups	January 2020						Initiation - January 2020								
	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	-	-	-	31	1	3%	-	-	-	2665	189	7%	6,614	384	6%
1-4 Years	-	-	-	16	1	6%	-	-	-	4217	601	14%	2,413	363	15%
5-14 Years	22	0	0%	-	-	-	3379	786	23%	2317	547	24%	-	-	-
15-24 Years	17	0	0%	-	-	-	4061	965	24%	2167	413	19%	-	-	-
25-39 Years	13	1	8%	-	-	-	3950	830	21%	1916	299	16%	-	-	-
40-59 Years	29	3	10%	-	-	-	4622	886	19%	1245	201	16%	-	-	-
≥ 60 Years	39	1	3%	-	-	-	4755	876	18%	400	46	12%	-	-	-
	120	5	4%	47	2	4%	20,767	4,343	21%	14,927	2,296	15%	9,027	747	8%

[‡]Outpatient ILI surveillance discontinued in October 2017.

Hospital based influenza surveillance
Hospitalwise influenza lab results
Surveillance initiation - January 2020

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	5368	1086	20%	739 ^ι	347	0	9	387	0	0	341	64	113
RMCH	Rajshahi	May 2007	3445	481	14%	315 ^ι	166	0	14	177	0	0	122	39	66
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	4955	633	13%	415 [*]	215	3	9	220	0	0	185	28	37
KMCH	Khulna	Jul 2007	2952	452	15%	315 ^{*ι}	137	0	16	153	0	0	142	17	59
JGH ^{γ‡}	Jashore	Sep 2007	3868	821	21%	513	307	1	10	257	0	0	246	26	143
JRRMCH	Sylhet	Jul 2007	3806	669	18%	414 ^ι	254	1	16	199	0	0	198	34	77
SBMCH	Barishal	Aug 2007	5578	858	15%	538 ^ι	316	4	9	259	0	0	268	56	111
CMCH	Chattogram	Apr 2014	2513	495	20%	337	155	3	0	128	0	0	209	41	94
MARMCH ²	Dinajpur	Apr 2014	1646	355	22%	222 ^ι	133	0	0	111	0	0	108	28	84
			44,721	7,386	17%	4,844	2,529	13	137	2,421	1	0	2,269	395	840

^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.

[‡]Three samples were co-infected with both Influenza A(H1N1)pdm09 and Influenza B (Victoria lineage).

^ιOne sample collected in May 2019 was co-infected with both Influenza A(H3) 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 Cumilla Medical College Hospital (CuMCH), Cumilla in January 2018.

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

²Dinajpur Medical College Hospital (DjMCH) has been renamed as M Abdur Rahim Medical College Hospital (MARMCH).

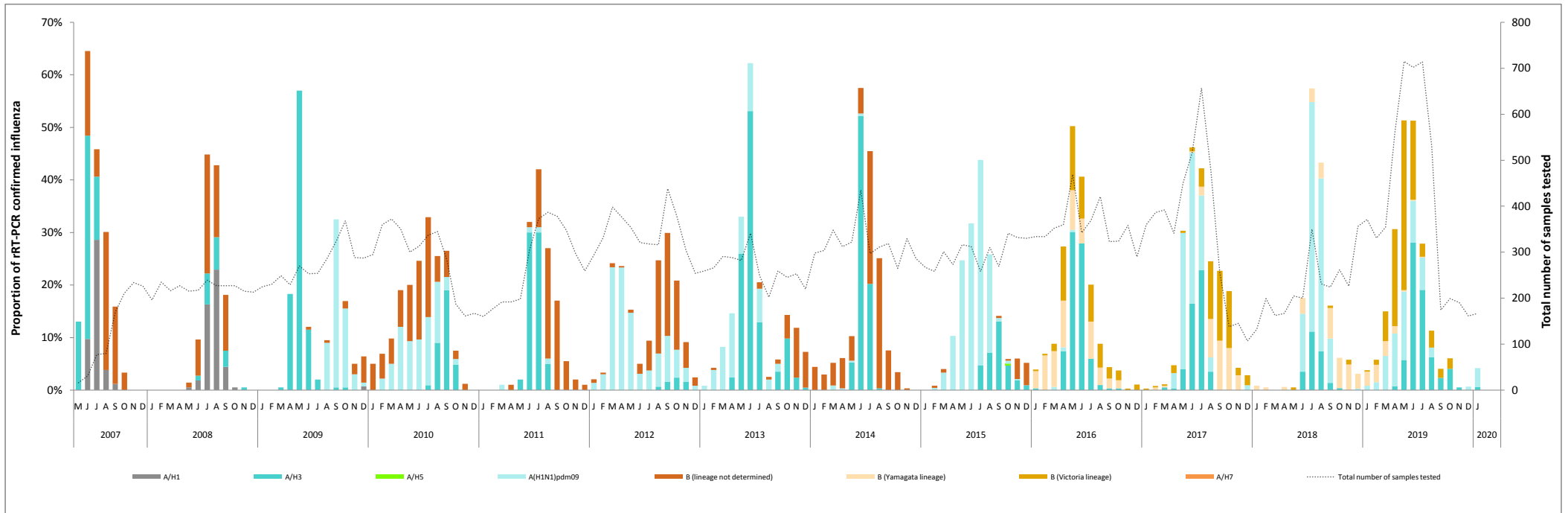
Note: Surveillance activities extended to the intensive care units (ICU) and coronary care unit (CCU) of the participating hospitals in January 2018.

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

*One sample from CuMCH (Cumilla) and two samples from KMCH (Khulna) collected in November 2019 were not true positive for influenza A and were considered as inconclusive result. The result will be confirmed with further test through viral culture.

^ιNine samples (one each from JIMCH, JRRMCH and MARMCH and two each from RMCH, KMCH and SBMCH) collected in December 2019 were not true positive for influenza A and were considered as inconclusive result. The result will be confirmed with further test through viral culture.

Hospital based influenza surveillance
Influenza seasonality graph
May 2007 - January 2020



Note: Influenza B typing initiated in January 2016

Hospital based influenza surveillance
Influenza seasonality graph
Week 05 of 2019 to week 04 of 2020

