



Monthly summary report

Hospital Based Human Influenza Surveillance in Bangladesh

December 2020

Hospital based influenza surveillance
Monthly enrollment by different wards (Medicine, Pediatrics and CCU)
December 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	8	0	0%	7	0	0%	2	0	0%
RMCH	Rajshahi	13	0	0%	6	0	0%	1	0	0%
CuMCH	Cumilla	5	0	0%	5	0	0%	0	0	0%
KMCH	Khulna	11	0	0%	5	0	0%	1	0	0%
JGH	Jashore	8	0	0%	5	0	0%	1	0	0%
JRRMCH	Sylhet	8	0	0%	5	0	0%	1	0	0%
SBMCH	Barishal	10	0	0%	6	0	0%	4	0	0%
CMCH	Chattogram	10	0	0%	5	0	0%	0	0	0%
MARMCH	Dinajpur	6	0	0%	8	0	0%	2	0	0%
		79	0	0%	52	0	0%	12	0	0%

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

Hospital	District	SARI (aged ≥ 5 years)			SARI (aged < 5 years)		
		Sample	Flu	Flu %	Sample	Flu	Flu %
JIMCH	Kishoregonj	11	0	0%	6	0	0%
RMCH	Rajshahi	14	0	0%	6	0	0%
CuMCH	Cumilla	5	0	0%	5	0	0%
KMCH	Khulna	12	0	0%	5	0	0%
JGH	Jashore	9	0	0%	5	0	0%
JRRMCH	Sylhet	9	0	0%	5	0	0%
SBMCH	Barishal	15	0	0%	5	0	0%
CMCH	Chattogram	10	0	0%	5	0	0%
MARMCH	Dinajpur	11	0	0%	5	0	0%
		96	0	0%	47	0	0%

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

Age groups	December 2020						Initiation - December 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	-	-	-	30	0	0%	-	-	-	2665	189	7%	7,077	424	6%
1-4 Years	-	-	-	17	0	0%	-	-	-	4217	601	14%	2,652	396	15%
5-14 Years	6	0	0%	-	-	-	3561	810	23%	2317	547	24%	-	-	-
15-24 Years	6	0	0%	-	-	-	4197	982	23%	2167	413	19%	-	-	-
25-39 Years	14	0	0%	-	-	-	4234	858	20%	1916	299	16%	-	-	-
40-59 Years	25	0	0%	-	-	-	5109	917	18%	1245	201	16%	-	-	-
≥ 60 Years	45	0	0%	-	-	-	5158	895	17%	400	46	12%	-	-	-
	96	0	0%	47	0	0%	22,259	4,462	20%	14,927	2,296	15%	9,729	820	8%

[‡]Outpatient ILI surveillance discontinued in October 2017.

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

Hospital	District	Initiation	Sample	Flu	Flu %	Flu A ^ψ	Flu B ^λ	Flu A+B ^τ	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	5634	1112	20%	765 ^ι	347	0	9	408	0	0	346	64	113
RMCH	Rajshahi	May 2007	3716	497	13%	331 ^ι	166	0	14	193	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	5149	647	13%	429 [*]	215	3	9	228	0	0	191	28	37
KMCH	Khulna	Jul 2007	3223	462	14%	325 ^{*ι}	137	0	16	162	0	0	143	17	59
JGH ^{γ†}	Jashore	Sep 2007	4066	843	21%	535	307	1	10	274	0	0	251	26	143
JRRMCH	Sylhet	Jul 2007	4042	697	17%	442 ^ι	254	1	16	222	0	0	203	34	77
SBMCH	Barishal	Aug 2007	5844	896	15%	576 ^ι	316	4	9	293	0	0	272	56	111
CMCH	Chattogram	Apr 2014	2818	521	18%	363	155	3	0	148	0	0	215	41	94
MARMCH [‡]	Dinajpur	Apr 2014	1833	367	20%	234 ^ι	133	0	0	122	0	0	109	28	84
			46,915	7,578	16%	5,036	2,529	13	137	2,580	1	0	2,302	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.

^τThree 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.

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

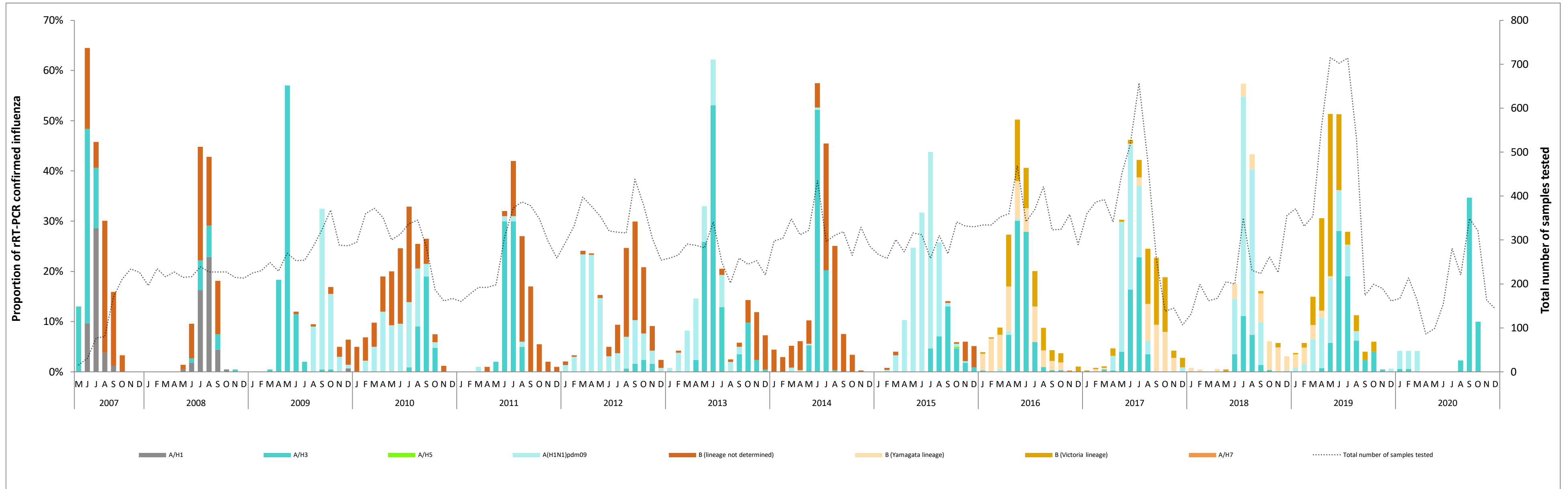
Note: Surveillance activities extended to the intensive care units (ICU) and coronary care unit (CCU) of the participating hospitals in January 2018.

^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 - December 2020



Note: Influenza B typing initiated in January 2016

Hospital based influenza surveillance
Influenza seasonality graph
Week 01 of 2020 to week 52 of 2020

