



Monthly summary report

Hospital Based Human Influenza Surveillance in Bangladesh

January 2021

Hospital based influenza surveillance
Monthly enrollment by different wards (Medicine, Pediatrics and CCU)
January 2021

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%	20	0	0%	2	0	0%
RMCH	Rajshahi	21	0	0%	23	0	0%	0	0	0%
CuMCH	Cumilla	7	0	0%	6	0	0%	0	0	0%
KMCH	Khulna	13	0	0%	9	0	0%	0	0	0%
JGH	Jashore	11	0	0%	13	0	0%	1	0	0%
JRRMCH	Sylhet	6	0	0%	13	0	0%	3	0	0%
SBMCH	Barishal	18	0	0%	19	0	0%	2	0	0%
CMCH	Chattogram	15	0	0%	21	0	0%	0	0	0%
MARMCH	Dinajpur	6	0	0%	11	0	0%	0	0	0%
		105	0	0%	135	0	0%	8	0	0%

Hospital based influenza surveillance
Monthly enrollment by different surveillance groups
January 2021

Hospital	District	SARI (aged ≥ 5 years)			SARI (aged < 5 years)		
		Sample	Flu	Flu %	Sample	Flu	Flu %
JIMCH	Kishoregonj	13	0	0%	17	0	0%
RMCH	Rajshahi	22	0	0%	22	0	0%
CuMCH	Cumilla	8	0	0%	5	0	0%
KMCH	Khulna	15	0	0%	7	0	0%
JGH	Jashore	13	0	0%	12	0	0%
JRRMCH	Sylhet	11	0	0%	11	0	0%
SBMCH	Barishal	21	0	0%	18	0	0%
CMCH	Chattogram	17	0	0%	19	0	0%
MARMCH	Dinajpur	8	0	0%	9	0	0%
		128	0	0%	120	0	0%

**Hospital based influenza surveillance
Influenza results by different age groups
January 2021**

Age groups	January 2021						Initiation - January 2021								
	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	-	-	-	71	0	0%	-	-	-	2665	189	7%	7,153	424	6%
1-4 Years	-	-	-	49	0	0%	-	-	-	4217	601	14%	2,703	396	15%
5-14 Years	17	0	0%	-	-	-	3578	810	23%	2317	547	24%	-	-	-
15-24 Years	14	0	0%	-	-	-	4211	982	23%	2167	413	19%	-	-	-
25-39 Years	17	0	0%	-	-	-	4252	858	20%	1916	299	16%	-	-	-
40-59 Years	47	0	0%	-	-	-	5157	917	18%	1245	201	16%	-	-	-
≥ 60 Years	33	0	0%	-	-	-	5196	895	17%	400	46	12%	-	-	-
	128	0	0%	120	0	0%	22,394	4,462	20%	14,927	2,296	15%	9,856	820	8%

[‡]Outpatient ILI surveillance discontinued in October 2017.

Hospital based influenza surveillance
Hospitalwise influenza lab results
Surveillance initiation - January 2021

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	5667	1112	20%	765 [†]	347	0	9	408	0	0	346	64	113
RMCH	Rajshahi	May 2007	3765	497	13%	331 [†]	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	5162	647	13%	429*	215	3	9	228	0	0	191	28	37
KMCH	Khulna	Jul 2007	3246	462	14%	325* [†]	137	0	16	162	0	0	143	17	59
JGH ^{γ†}	Jashore	Sep 2007	4091	843	21%	535	307	1	10	274	0	0	251	26	143
JRRMCH	Sylhet	Jul 2007	4064	697	17%	442 [†]	254	1	16	222	0	0	203	34	77
SBMCH	Barishal	Aug 2007	5886	896	15%	576 [†]	316	4	9	293	0	0	272	56	111
CMCH	Chattogram	Apr 2014	2855	521	18%	363	155	3	0	148	0	0	215	41	94
MARMCH [‡]	Dinajpur	Apr 2014	1851	367	20%	234 [†]	133	0	0	122	0	0	109	28	84
			47,177	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.

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

[†]One 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).

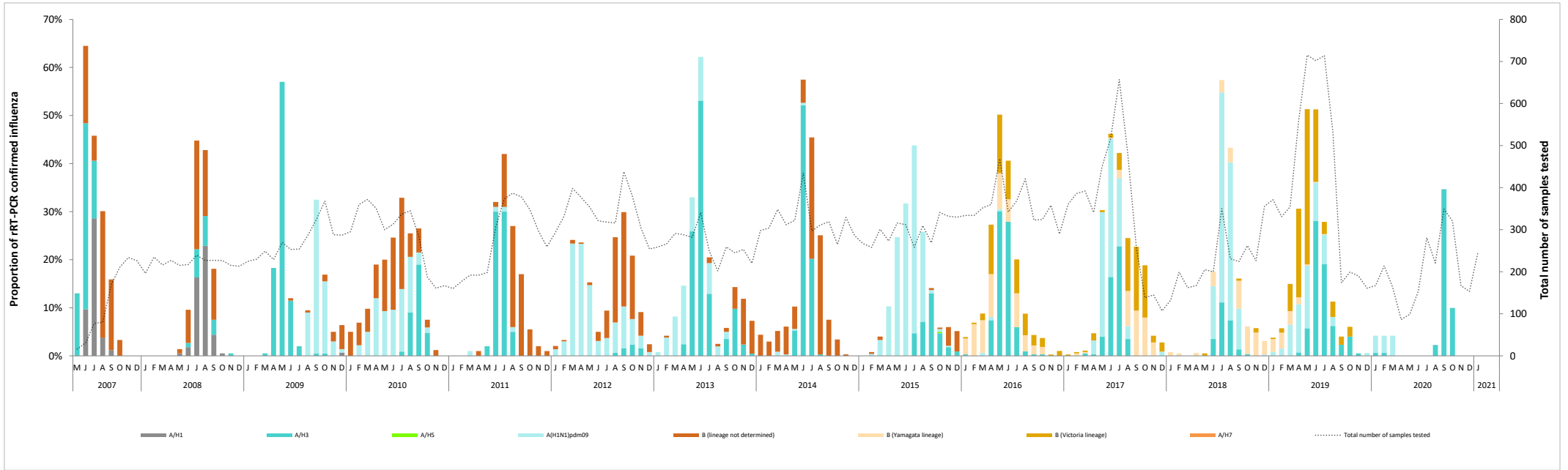
Note: Surveillance activities extended to the intensive care units (ICU) and coronary care unit (CCU) of the participating hospitals in January 2018.

^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.

[†]Nine 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 2021



Note: Influenza B typing initiated in January 2016

Hospital based influenza surveillance
Influenza seasonality graph
Week 05 of 2020 to week 04 of 2021

