



Monthly summary report

Hospital Based Human Influenza Surveillance in Bangladesh

September 2021

Hospital based influenza surveillance
Monthly enrollment by different wards (Medicine, Pediatrics and CCU)
September 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	32	14	44	47	8	17	4	1	25
RMCH	Rajshahi	40	6	15	52	4	8	0	0	0
CuMCH	Cumilla	34	7	21	44	6	14	1	1	100
KMCH	Khulna	24	10	42	40	3	8	0	0	0
JGH	Jashore	16	8	50	49	4	8	0	0	0
JRRMCH	Sylhet	16	3	19	44	5	11	0	0	0
SBMCH	Barishal	15	8	53	69	10	14	1	0	0
CMCH	Chattogram	48	19	40	48	10	21	1	1	100
MARMCH	Dinajpur	10	2	20	45	8	18	0	0	0
		235	77	33	438	58	13	7	3	43

Hospital based influenza surveillance
Monthly hospitalwise influenza lab results
September 2021

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	83	23	28	23	0	0	0	0	0	0	23	0	0
RMCH	Rajshahi	92	10	11	9	1	0	0	0	0	0	9	0	1
CuMCH	Cumilla	79	14	18	14	0	0	0	1	0	0	13	0	0
KMCH	Khulna	64	13	20	13	0	0	0	1	0	0	12	0	0
JGH	Jashore	65	12	18	12	0	0	0	0	0	0	12	0	0
JRRMCH	Sylhet	60	8	13	8	0	0	0	0	0	0	8	0	0
SBMCH	Barishal	85	18	21	18	0	0	0	1	0	0	17	0	0
CMCH	Chattogram	97	30	31	30	0	0	0	0	0	0	30	0	0
MARMCH	Dinajpur	55	10	18	10	0	0	0	0	0	0	10	0	0
		680	138	20	137	1	0	0	3	0	0	134	0	1

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

Hospital	District	SARI (aged ≥ 5 years)			SARI (aged < 5 years)		
		Sample	Flu	Flu %	Sample	Flu	Flu %
JIMCH	Kishoregonj	43	18	42	40	5	13
RMCH	Rajshahi	40	6	15	52	4	8
CuMCH	Cumilla	41	12	29	38	2	5
KMCH	Khulna	26	11	42	38	2	5
JGH	Jashore	17	8	47	48	4	8
JRRMCH	Sylhet	20	4	20	40	4	10
SBMCH	Barishal	33	11	33	52	7	13
CMCH	Chattogram	56	26	46	41	4	10
MARMCH	Dinajpur	19	6	32	36	4	11
		295	102	35	385	36	9

Hospital based influenza surveillance
Influenza results by different age groups
September 2021

Age groups	September 2021						Initiation - September 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	-	-	-	278	20	7	-	-	-	2665	189	7	8,040	478	6
1-4 Years	-	-	-	107	16	15	-	-	-	4217	601	14	3,098	459	15
5-14 Years	58	25	43	-	-	-	3772	856	23	2317	547	24	-	-	-
15-24 Years	27	7	26	-	-	-	4357	1012	23	2167	413	19	-	-	-
25-39 Years	63	22	35	-	-	-	4696	908	19	1916	299	16	-	-	-
40-59 Years	92	26	28	-	-	-	5876	955	16	1245	201	16	-	-	-
≥ 60 Years	55	22	40	-	-	-	5844	927	16	400	46	12	-	-	-
	295	102	35	385	36	9	24,545	4,658	19	14,927	2,296	15	11,138	937	8

[‡]Outpatient ILI surveillance discontinued in October 2017.

Hospital based influenza surveillance
Hospitalwise influenza lab results
Surveillance initiation - September 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	6112	1181	19	788 [†]	393	0	9	408	0	0	369	64	159
RMCH	Rajshahi	May 2007	4164	520	12	342 [†]	178	0	14	194	0	0	132	39	78
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	5555	675	12	443 [*]	229	3	9	229	0	0	204	28	51
KMCH	Khulna	Jul 2007	3550	485	14	338 ^{*†}	147	0	16	163	0	0	155	17	69
JGH ^{γ†}	Jashore	Sep 2007	4385	881	20	537	331	1	10	274	0	0	265	26	167
JRRMCH	Sylhet	Jul 2007	4412	722	16	451 [†]	270	1	16	222	0	0	212	34	93
SBMCH	Barishal	Aug 2007	6351	932	15	594 [†]	334	4	9	294	0	0	289	56	129
CMCH	Chattogram	Apr 2014	3360	576	17	393	180	3	0	148	0	0	245	41	119
MARMCH [‡]	Dinajpur	Apr 2014	2131	383	18	245 [†]	138	0	0	122	0	0	120	28	89
			50,610	7,891	16	5,179	2,699	13	137	2,584	1	0	2,441	395	1,010

^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).

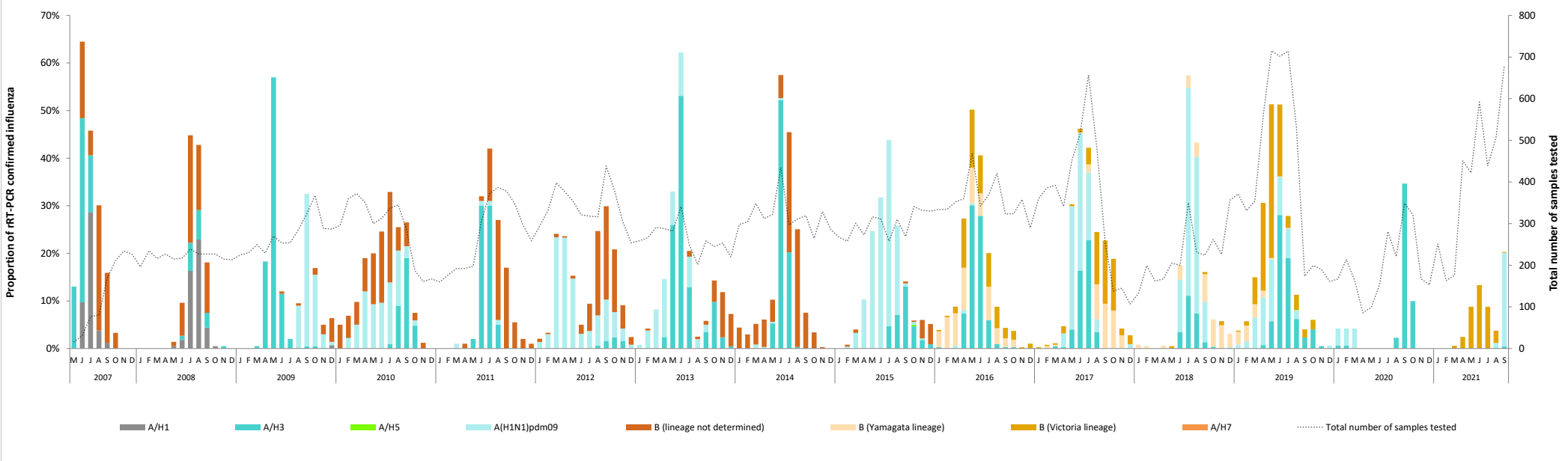
Note: Surveillance activities extended to the intensive care units (ICU) and coronary care unit (CCU) of the participating hospitals in January 2018.

^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 - September 2021



Note: Influenza B typing initiated in January 2016

