



Monthly summary report

Hospital Based Human Influenza Surveillance in Bangladesh

June 2021

Hospital based influenza surveillance
Monthly enrollment by different wards (Medicine, Pediatrics and CCU)
June 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	6	19	36	12	33	5	1	20
RMCH	Rajshahi	54	0	0	11	2	18	0	0	0
CuMCH	Cumilla	50	3	6	14	2	14	1	0	0
KMCH	Khulna	41	1	2	6	3	50	0	0	0
JGH	Jashore	49	5	10	14	9	64	1	0	0
JRRMCH	Sylhet	45	5	11	24	4	17	0	0	0
SBMCH	Barishal	44	3	7	40	8	20	0	0	0
CMCH	Chattogram	64	5	8	16	8	50	0	0	0
MARMCH	Dinajpur	34	1	3	11	1	9	0	0	0
		413	29	7	172	49	28	7	1	14

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

Hospital	District	SARI (aged ≥ 5 years)			SARI (aged < 5 years)		
		Sample	Flu	Flu %	Sample	Flu	Flu %
JIMCH	Kishoregonj	42	10	24	31	9	29
RMCH	Rajshahi	54	0	0	11	2	18
CuMCH	Cumilla	53	3	6	12	2	17
KMCH	Khulna	41	1	2	6	3	50
JGH	Jashore	53	6	11	11	8	73
JRRMCH	Sylhet	51	8	16	18	1	6
SBMCH	Barishal	48	5	10	36	6	17
CMCH	Chattogram	65	6	9	15	7	47
MARMCH	Dinajpur	34	1	3	11	1	9
		441	40	9	151	39	26

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

Age groups	June 2021						Initiation - June 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	-	-	-	89	17	19	-	-	-	2665	189	7	7,528	449	6
1-4 Years	-	-	-	62	22	35	-	-	-	4217	601	14	2,892	430	15
5-14 Years	22	10	45	-	-	-	3678	824	22	2317	547	24	-	-	-
15-24 Years	34	8	24	-	-	-	4300	999	23	2167	413	19	-	-	-
25-39 Years	90	12	13	-	-	-	4487	884	20	1916	299	16	-	-	-
40-59 Years	167	5	3	-	-	-	5581	924	17	1245	201	16	-	-	-
≥ 60 Years	128	5	4	-	-	-	5591	900	16	400	46	12	-	-	-
	441	40	9	151	39	26	23,637	4,531	19	14,927	2,296	15	10,420	879	8

[‡]Outpatient ILI surveillance discontinued in October 2017.

Hospital based influenza surveillance
Hospitalwise influenza lab results
Surveillance initiation - June 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	5888	1147	19	765 [†]	382	0	9	408	0	0	346	64	148
RMCH	Rajshahi	May 2007	3963	500	13	331 [†]	169	0	14	193	0	0	122	39	69
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	5370	657	12	429 [*]	225	3	9	228	0	0	191	28	47
KMCH	Khulna	Jul 2007	3413	467	14	325 ^{*†}	142	0	16	162	0	0	143	17	64
JGH ^{γ†}	Jashore	Sep 2007	4258	862	20	535	326	1	10	274	0	0	251	26	162
JRRMCH	Sylhet	Jul 2007	4254	711	17	442 [†]	268	1	16	222	0	0	203	34	91
SBMCH	Barishal	Aug 2007	6129	912	15	576 [†]	332	4	9	293	0	0	272	56	127
CMCH	Chattogram	Apr 2014	3126	545	17	363	179	3	0	148	0	0	215	41	118
MARMCH [‡]	Dinajpur	Apr 2014	1993	369	19	234 [†]	135	0	0	122	0	0	109	28	86
			48,984	7,706	16	5,036	2,657	13	137	2,580	1	0	2,302	395	968

^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).

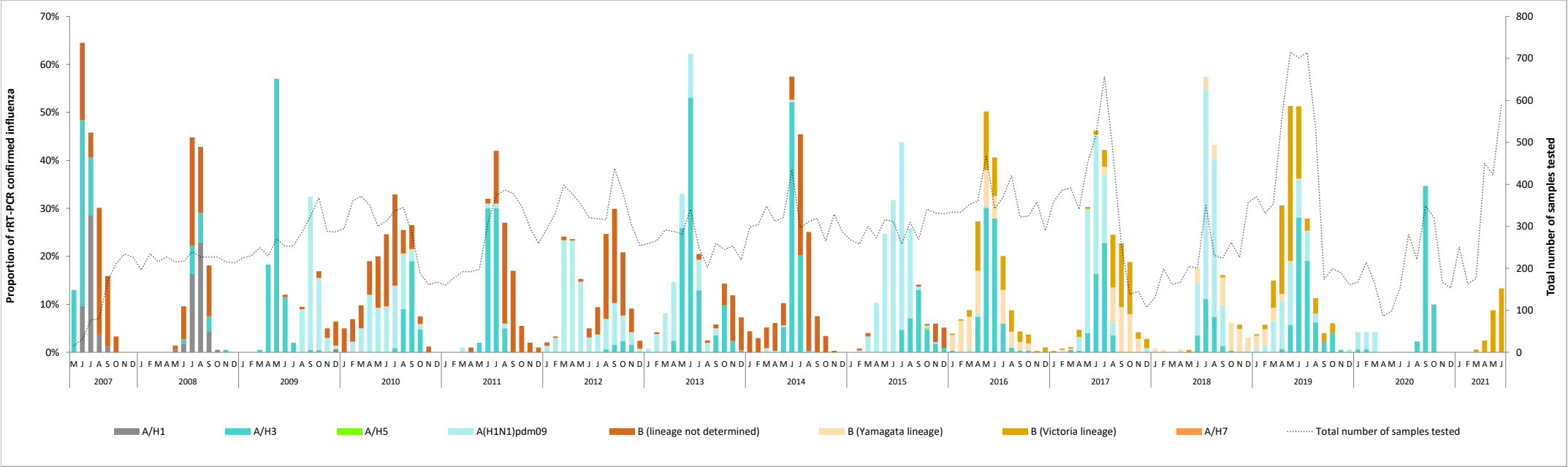
Note: Surveillance activities extended to the intensive care units (ICU) and coronary care unit (CCU) of the participating hospitals in January 2018.

^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 - June 2021



Note: Influenza B typing initiated in January 2016

Hospital based influenza surveillance
Influenza seasonality graph
Week 26 of 2020 to week 25 of 2021

