



Monthly summary report

Hospital Based Human Influenza Surveillance in Bangladesh

October 2021

Hospital based influenza surveillance
Monthly enrollment by different wards (Medicine, Pediatrics and CCU)
October 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	23	4	17	14	2	14	1	0	0
RMCH	Rajshahi	25	6	24	9	0	0	1	0	0
CuMCH	Cumilla	21	13	62	11	4	36	1	0	0
KMCH	Khulna	21	10	48	9	1	11	0	0	0
JGH	Jashore	13	5	38	13	3	23	1	1	100
JRRMCH	Sylhet	16	10	63	11	1	9	0	0	0
SBMCH	Barishal	14	10	71	25	12	48	1	1	100
CMCH	Chattogram	35	15	43	9	2	22	2	2	100
MARMCH	Dinajpur	1	0	0	14	2	14	1	0	0
		169	73	43	115	27	23	8	4	50

Hospital based influenza surveillance
Monthly hospitalwise influenza lab results
October 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	38	6	16	6	0	0	0	0	0	0	6	0	0
RMCH	Rajshahi	35	6	17	6	0	0	0	0	0	0	6	0	0
CuMCH	Cumilla	33	17	52	17	0	0	0	0	0	0	17	0	0
KMCH	Khulna	30	11	37	11	0	0	0	3	0	0	8	0	0
JGH	Jashore	27	9	33	9	0	0	0	1	0	0	8	0	0
JRRMCH	Sylhet	27	11	41	11	0	0	0	0	0	0	11	0	0
SBMCH	Barishal	40	23	58	23	0	0	0	0	0	0	23	0	0
CMCH	Chattogram	46	19	41	19	0	0	0	1	0	0	18	0	0
MARMCH	Dinajpur	16	2	13	2	0	0	0	0	0	0	2	0	0
		292	104	36	104	0	0	0	5	0	0	99	0	0

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

Hospital	District	SARI (aged ≥ 5 years)			SARI (aged < 5 years)		
		Sample	Flu	Flu %	Sample	Flu	Flu %
JIMCH	Kishoregonj	27	6	22	11	0	0
RMCH	Rajshahi	26	6	23	9	0	0
CuMCH	Cumilla	25	15	60	8	2	25
KMCH	Khulna	23	11	48	7	0	0
JGH	Jashore	18	9	50	9	0	0
JRRMCH	Sylhet	19	10	53	8	1	13
SBMCH	Barishal	30	22	73	10	1	10
CMCH	Chattogram	37	17	46	9	2	22
MARMCH	Dinajpur	8	1	13	8	1	13
		213	97	46	79	7	9

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

Age groups	October 2021						Initiation - October 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	-	-	-	59	3	5	-	-	-	2665	189	7	8,099	481	6
1-4 Years	-	-	-	20	4	20	-	-	-	4217	601	14	3,118	463	15
5-14 Years	42	22	52	-	-	-	3814	878	23	2317	547	24	-	-	-
15-24 Years	22	10	45	-	-	-	4379	1022	23	2167	413	19	-	-	-
25-39 Years	26	12	46	-	-	-	4722	920	19	1916	299	16	-	-	-
40-59 Years	56	20	36	-	-	-	5932	975	16	1245	201	16	-	-	-
≥ 60 Years	67	33	49	-	-	-	5911	960	16	400	46	12	-	-	-
	213	97	46	79	7	9	24,758	4,755	19	14,927	2,296	15	11,217	944	8

[‡]Outpatient ILI surveillance discontinued in October 2017.

Hospital based influenza surveillance
Hospitalwise influenza lab results
Surveillance initiation - October 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	6150	1187	19	794 [†]	393	0	9	408	0	0	375	64	159
RMCH	Rajshahi	May 2007	4199	526	13	348 [†]	178	0	14	194	0	0	138	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	5588	692	12	460*	229	3	9	229	0	0	221	28	51
KMCH	Khulna	Jul 2007	3580	496	14	349* [†]	147	0	16	166	0	0	163	17	69
JGH ^{γ1}	Jashore	Sep 2007	4412	890	20	558	331	1	10	275	0	0	273	26	167
JRRMCH	Sylhet	Jul 2007	4439	733	17	462 [†]	270	1	16	222	0	0	223	34	93
SBMCH	Barishal	Aug 2007	6391	955	15	617 [†]	334	4	9	294	0	0	312	56	129
CMCH	Chattogram	Apr 2014	3406	595	17	412	180	3	0	149	0	0	263	41	119
MARMCH ²	Dinajpur	Apr 2014	2147	385	18	247 [†]	138	0	0	122	0	0	122	28	89
			50,902	7,995	16	5,283	2,699	13	137	2,589	1	0	2,540	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.

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

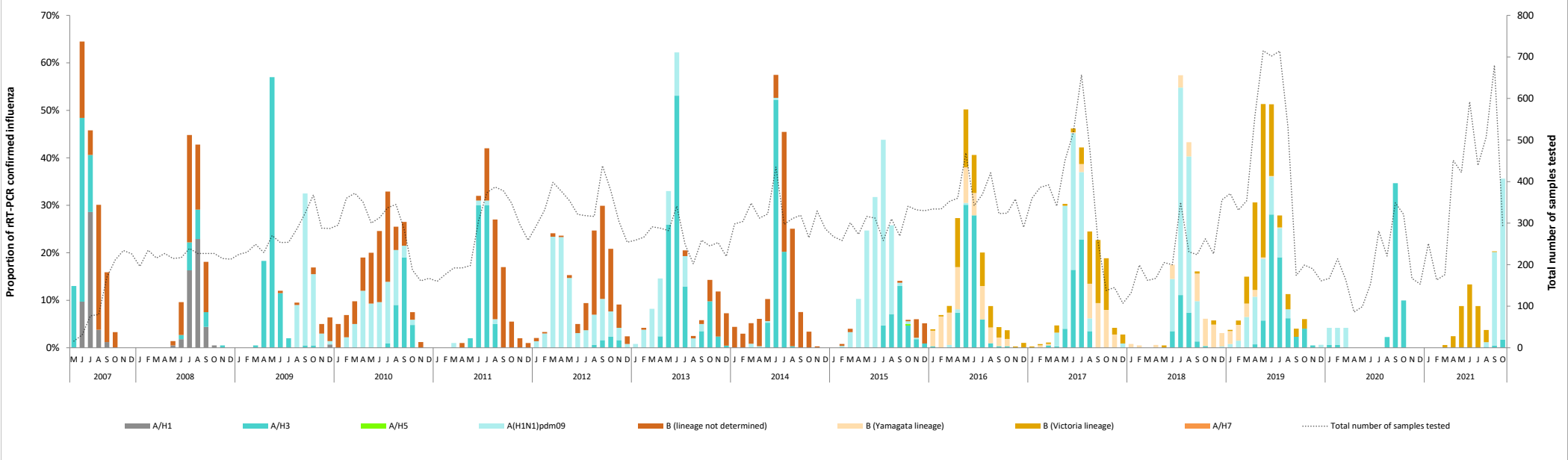
Note: Surveillance activities extended to the intensive care units (ICU) and coronary care unit (CCU) of the participating hospitals in January 2018.

^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.

[†]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 - October 2021



Note: Influenza B typing initiated in January 2016

Hospital based influenza surveillance
Influenza seasonality graph
Week 44 of 2020 to week 43 of 2021

