



Monthly summary report

Hospital Based Human Influenza Surveillance in Bangladesh

August 2021

Hospital based influenza surveillance
Monthly enrollment by different wards (Medicine, Pediatrics and CCU)
August 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	33	0	0	26	0	0	0	0	0
RMCH	Rajshahi	44	5	11	19	2	11	0	0	0
CuMCH	Cumilla	29	0	0	25	1	4	2	0	0
KMCH	Khulna	14	0	0	32	0	0	0	0	0
JGH	Jashore	8	2	25	37	5	14	0	0	0
JRRMCH	Sylhet	15	0	0	35	1	3	0	0	0
SBMCH	Barishal	26	0	0	42	0	0	0	0	0
CMCH	Chattogram	48	0	0	24	1	4	0	0	0
MARMCH	Dinajpur	25	1	4	23	1	4	0	0	0
		242	8	3	263	11	4	2	0	0

Hospital based influenza surveillance
Monthly hospitalwise influenza lab results
August 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	59	0	0	0	0	0	0	0	0	0	0	0	0
RMCH	Rajshahi	63	7	11	2	5	0	0	1	0	0	1	0	5
CuMCH	Cumilla	56	1	2	0	1	0	0	0	0	0	0	0	1
KMCH	Khulna	46	0	0	0	0	0	0	0	0	0	0	0	0
JGH	Jashore	45	7	16	2	5	0	0	0	0	0	2	0	5
JRRMCH	Sylhet	50	1	2	1	0	0	0	0	0	0	1	0	0
SBMCH	Barishal	68	0	0	0	0	0	0	0	0	0	0	0	0
CMCH	Chattogram	72	1	1	0	1	0	0	0	0	0	0	0	1
MARMCH	Dinajpur	48	2	4	1	1	0	0	0	0	0	1	0	1
		507	19	4	6	13	0	0	1	0	0	5	0	13

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

Hospital	District	SARI (aged \geq 5 years)			SARI (aged < 5 years)		
		Sample	Flu	Flu %	Sample	Flu	Flu %
JIMCH	Kishoregonj	34	0	0	25	0	0
RMCH	Rajshahi	45	5	11	18	2	11
CuMCH	Cumilla	33	1	3	23	0	0
KMCH	Khulna	17	0	0	29	0	0
JGH	Jashore	10	2	20	35	5	14
JRRMCH	Sylhet	16	0	0	34	1	3
SBMCH	Barishal	30	0	0	38	0	0
CMCH	Chattogram	51	0	0	21	1	5
MARMCH	Dinajpur	31	1	3	17	1	6
		267	9	3	240	10	4

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

Age groups	August 2021						Initiation - August 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	-	-	-	172	5	3	-	-	-	2665	189	7	7,762	458	6
1-4 Years	-	-	-	68	5	7	-	-	-	4217	601	14	2,991	443	15
5-14 Years	25	1	4	-	-	-	3714	831	22	2317	547	24	-	-	-
15-24 Years	12	2	17	-	-	-	4330	1005	23	2167	413	19	-	-	-
25-39 Years	63	1	2	-	-	-	4633	886	19	1916	299	16	-	-	-
40-59 Years	82	3	4	-	-	-	5784	929	16	1245	201	16	-	-	-
≥ 60 Years	85	2	2	-	-	-	5789	905	16	400	46	12	-	-	-
	267	9	3	240	10	4	24,250	4,556	19	14,927	2,296	15	10,753	901	8

[‡]Outpatient ILI surveillance discontinued in October 2017.

Hospital based influenza surveillance
Hospitalwise influenza lab results
Surveillance initiation - August 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	6029	1158	19	765 [†]	393	0	9	408	0	0	346	64	159
RMCH	Rajshahi	May 2007	4072	510	13	333 [†]	177	0	14	194	0	0	123	39	77
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	5476	661	12	429*	229	3	9	228	0	0	191	28	51
KMCH	Khulna	Jul 2007	3486	472	14	325* [†]	147	0	16	162	0	0	143	17	69
JGH ^{γ1}	Jashore	Sep 2007	4320	869	20	537	331	1	10	274	0	0	253	26	167
JRRMCH	Sylhet	Jul 2007	4352	714	16	443 [†]	270	1	16	222	0	0	204	34	93
SBMCH	Barishal	Aug 2007	6266	914	15	576 [†]	334	4	9	293	0	0	272	56	129
CMCH	Chattogram	Apr 2014	3263	546	17	363	180	3	0	148	0	0	215	41	119
MARMCH ²	Dinajpur	Apr 2014	2076	373	18	235 [†]	138	0	0	122	0	0	110	28	89
			49,930	7,753	16	5,042	2,698	13	137	2,581	1	0	2,307	395	1,009

^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).

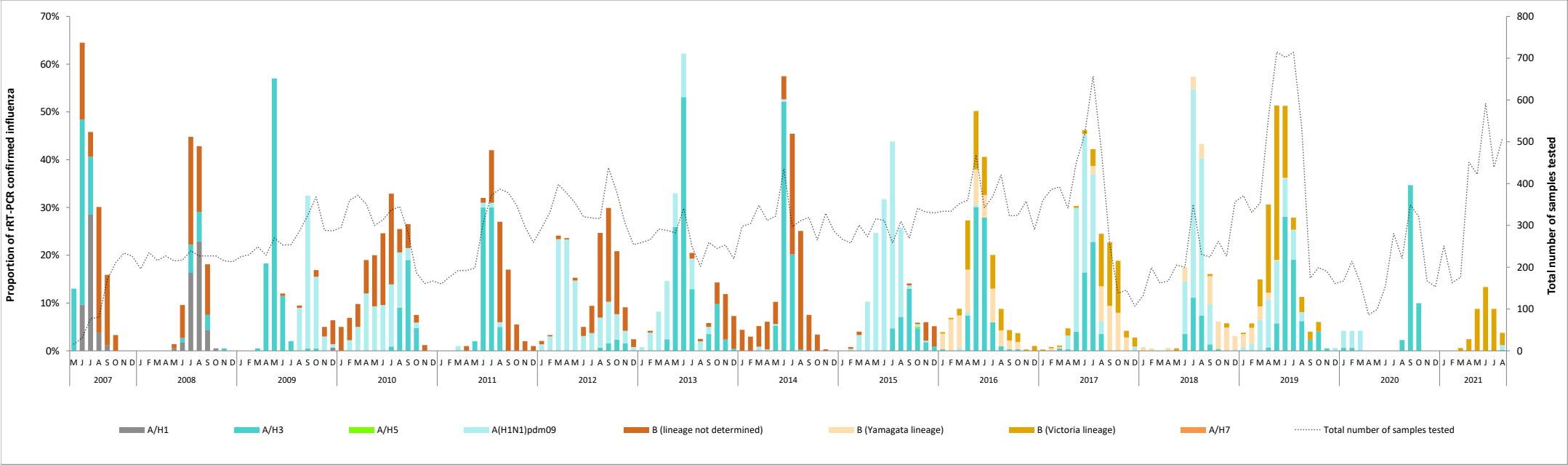
Note: Surveillance activities extended to the intensive care units (ICU) and coronary care unit (CCU) of the participating hospitals in January 2018.

^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 - August 2021



Note: Influenza B typing initiated in January 2016

Hospital based influenza surveillance
Influenza seasonality graph
Week 35 of 2020 to week 34 of 2021

