Monthly summary report

Hospital Based Human Influenza Surveillance in Bangladesh

August 2022

Hospital based influenza surveillance
Monthly enrollment by different wards (Medicine, Pediatrics and CCU)
August 2022

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	19	0	0	43	1	2	4	0	0
RMCH	Rajshahi	32	1	3	20	0	0	3	0	0
CuMCH	Cumilla	18	0	0	37	0	0	3	0	0
KMCH	Khulna	16	2	13	24	3	13	1	0	0
JGH	Jashore	18	6	33	31	4	13	5	1	20
JRRMCH	Sylhet	23	2	9	31	2	6	2	0	0
SBMCH	Barishal	18	1	6	61	1	2	0	0	0
CMCH	Chattogram	19	0	0	38	1	3	0	0	0
MARMCH	Dinajpur	16	0	0	37	0	0	1	0	0
		179	**12**	**7**	**322**	**12**	**4**	**19**	**1**	**5**

Hospital based influenza surveillance
Monthly hospitalwise influenza lab results
August 2022

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	66	1	2	1	0	0	0	1	0	0	0	0	0
RMCH	Rajshahi	55	1	2	1	0	0	0	1	0	0	0	0	0
CuMCH	Cumilla	58	0	0	0	0	0	0	0	0	0	0	0	0
KMCH	Khulna	41	5	12	5	0	0	0	5	0	0	0	0	0
JGH	Jashore	54	11	20	11	0	0	0	11	0	0	0	0	0
JRRMCH	Sylhet	56	4	7	4	0	0	0	4	0	0	0	0	0
SBMCH	Barishal	79	2	3	2	0	0	0	2	0	0	0	0	0
CMCH	Chattogram	57	1	2	0	1	0	0	0	0	0	0	0	1
MARMCH	Dinajpur	54	0	0	0	0	0	0	0	0	0	0	0	0
		520	**25**	**5**	**24**	**1**	**0**	**0**	**24**	**0**	**0**	**0**	**0**	**1**

Hospital based influenza surveillance
Monthly enrollment by different surveillance groups
August 2022

Hospital	District	SARI (aged ≥ 5 years)			SARI (aged < 5 years)		
		Sample	Flu	Flu %	Sample	Flu	Flu %
JIMCH	Kishoregonj	32	0	0	34	1	3
RMCH	Rajshahi	40	1	3	15	0	0
CuMCH	Cumilla	24	0	0	34	0	0
KMCH	Khulna	17	2	12	24	3	13
JGH	Jashore	28	8	29	26	3	12
JRRMCH	Sylhet	30	2	7	26	2	8
SBMCH	Barishal	39	2	5	40	0	0
CMCH	Chattogram	26	0	0	31	1	3
MARMCH	Dinajpur	21	0	0	33	0	0
		257	**15**	**6**	**263**	**10**	**4**

Hospital based influenza surveillance
Influenza results by different age groups
August 2022

Age groups	August 2022						Initiation - August 2022								
	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	-	-	-	136	3	2	-	-	-	2665	189	7	9,096	503	6
1-4 Years	-	-	-	127	7	6	-	-	-	4217	601	14	3,733	508	14
5-14 Years	65	2	3	-	-	-	4242	907	21	2317	547	24	-	-	-
15-24 Years	36	2	6	-	-	-	4642	1071	23	2167	413	19	-	-	-
25-39 Years	33	1	3	-	-	-	5011	957	19	1916	299	16	-	-	-
40-59 Years	48	4	8	-	-	-	6345	1015	16	1245	201	16	-	-	-
≥ 60 Years	75	6	8	-	-	-	6530	1019	16	400	46	12	-	-	-
	257	**15**	**6**	**263**	**10**	**4**	**26,770**	**4,969**	**19**	**14,927**	**2,296**	**15**	**12,829**	**1011**	**8**

‡Outpatient ILI surveillance discontinued in October 2017.

Hospital based influenza surveillance
Hospitalwise influenza lab results
Surveillance initiation - August 2022

Hospital	District	Initiation	Sample	Flu	Flu %	Flu A$^\Psi$	Flu B$^\Lambda$	Flu A+B$^\mathrm{Ŧ}$	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$^\mathrm{Y}$	Dhaka	Jun 2007	2061	312	15	201	111	0	15	84	0	0	102	13	7
CBMCH$^\mathrm{Y}$	Mymensingh	Oct 2007	2053	302	15	206	96	0	7	107	1	0	91	16	10
JIMCH	Kishoregonj	Sep 2007	6592	1225	19	831$^\mathrm{i}$	394	0	9	444	0	0	376	64	160
RMCH	Rajshahi	May 2007	4581	540	12	362$^\mathrm{i}$	178	0	14	207	0	0	139	39	78
SZRMCH$^\mathrm{Y}$	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$^\mathrm{T}$	Cumilla	Oct 2007	5985	722	12	489*	230	3	9	257	0	0	222	28	52
KMCH	Khulna	Jul 2007	3921	517	13	370*$^\mathrm{i}$	147	0	16	187	0	0	163	17	69
JGH$^\mathrm{YI}$	Jashore	Sep 2007	4778	937	20	605	331	1	10	322	0	0	273	26	167
JRRMCH	Sylhet	Jul 2007	4799	769	16	498$^\mathrm{i}$	270	1	16	254	0	0	227	34	93
SBMCH	Barishal	Aug 2007	6857	974	14	636$^\mathrm{i}$	334	4	9	312	0	0	313	56	129
CMCH	Chattogram	Apr 2014	3921	648	17	464	181	3	0	196	0	0	268	41	120
MARMCH$^\mathrm{ɔ}$	Dinajpur	Apr 2014	2502	408	16	270$^\mathrm{i}$	138	0	0	145	0	0	122	28	89
			54,526	8,276	15	5,537	2,702	13	137	2,854	1	0	2,553	395	1,013

$^\Lambda$Influenza B typing initiated in January 2016.

$^\Psi$rRT-PCR result of four samples were equivocal positive for Influenza A.

$^\Psi$One sample collected in June 2013 and another sample collected in June 2017 were co-infected with both A(H3) and A(H1N1)pdm09.

$^\Lambda$Three samples were co-infected with both Influenza B (Yamagata lineage) and Influenza B (Victoria lineage), another ten samples were unsubtypeable.

$^\mathrm{Ŧ}$Three samples were co-infected with both Influenza A(H1N1)pdm09 and Influenza B (Victoria lineage).

$^\mathrm{i}$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.

$^\mathrm{Y}$Surveillance activities ended at DNMCH (Dhaka), CBMCH (Mymensingh), SZRMCH (Bogra) and JGH (Jessore) in October 2017.

$^\mathrm{T}$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.

$^\mathrm{ɔ}$Dinajpur Medical College Hospital (DjMCH) has been renamed as M Abdur Rahim Medical College Hospital (MARMCH).
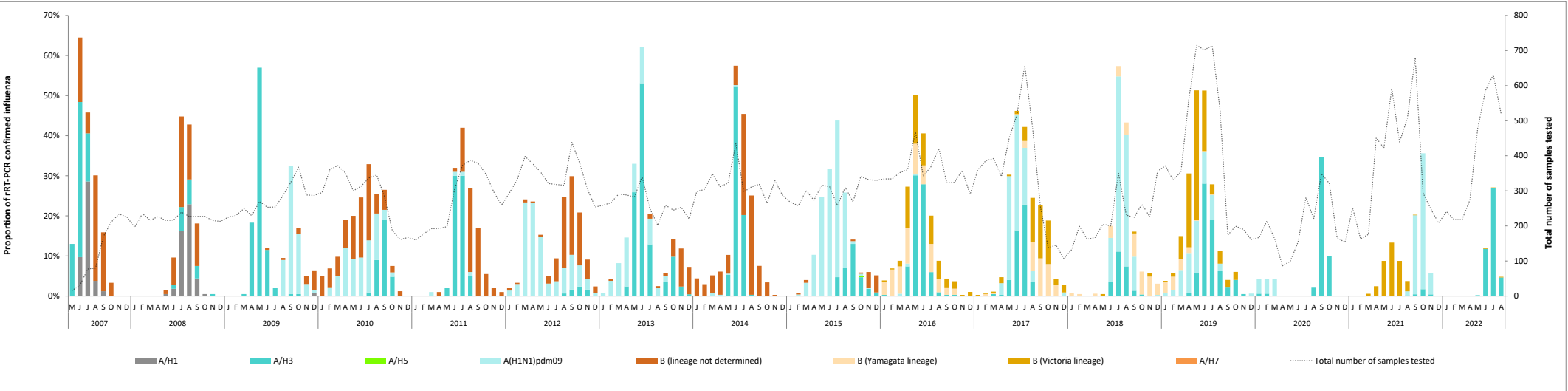
Note: Surveillance activities extended to the intensive care units (ICU) and coronary care unit (CCU) of the participating hospitals in January 2018.

$^\varphi$ 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.

$^\mathrm{i}$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 2022

Note: Influenza B typing initiated in January 2016

Hospital based influenza surveillance
Influenza seasonality graph
Week 35 of 2021 to week 34 of 2022