Monthly summary report

Hospital Based Human Influenza Surveillance in Bangladesh

February 2022

Hospital based influenza surveillance
Monthly enrollment by different wards (Medicine, Pediatrics and CCU)
February 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	12	0	0	9	0	0	4	0	0
RMCH	Rajshahi	18	0	0	9	0	0	0	0	0
CuMCH	Cumilla	12	0	0	8	0	0	3	0	0
KMCH	Khulna	13	0	0	8	0	0	0	0	0
JGH	Jashore	10	0	0	8	0	0	1	0	0
JRRMCH	Sylhet	10	0	0	10	0	0	1	0	0
SBMCH	Barishal	19	0	0	8	0	0	1	0	0
CMCH	Chattogram	18	0	0	11	0	0	0	0	0
MARMCH	Dinajpur	12	0	0	8	0	0	0	0	0
		124	**0**	**0**	**79**	**0**	**0**	**10**	**0**	**0**

Hospital based influenza surveillance
Monthly hospitalwise influenza lab results
February 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	25	0	0	0	0	0	0	0	0	0	0	0	0
RMCH	Rajshahi	27	0	0	0	0	0	0	0	0	0	0	0	0
CuMCH	Cumilla	23	0	0	0	0	0	0	0	0	0	0	0	0
KMCH	Khulna	21	0	0	0	0	0	0	0	0	0	0	0	0
JGH	Jashore	19	0	0	0	0	0	0	0	0	0	0	0	0
JRRMCH	Sylhet	21	0	0	0	0	0	0	0	0	0	0	0	0
SBMCH	Barishal	28	0	0	0	0	0	0	0	0	0	0	0	0
CMCH	Chattogram	29	0	0	0	0	0	0	0	0	0	0	0	0
MARMCH	Dinajpur	20	0	0	0	0	0	0	0	0	0	0	0	0
		213	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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

Hospital	District	SARI (aged ≥ 5 years)			SARI (aged < 5 years)		
		Sample	Flu	Flu %	Sample	Flu	Flu %
JIMCH	Kishoregonj	17	0	0	8	0	0
RMCH	Rajshahi	19	0	0	8	0	0
CuMCH	Cumilla	15	0	0	8	0	0
KMCH	Khulna	13	0	0	8	0	0
JGH	Jashore	11	0	0	8	0	0
JRRMCH	Sylhet	13	0	0	8	0	0
SBMCH	Barishal	20	0	0	8	0	0
CMCH	Chattogram	21	0	0	8	0	0
MARMCH	Dinajpur	12	0	0	8	0	0
		141	**0**	**0**	**72**	**0**	**0**

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

Age groups	February 2022						Initiation - February 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	-	-	-	57	0	0	-	-	-	2665	189	7	8,327	484	6
1-4 Years	-	-	-	15	0	0	-	-	-	4217	601	14	3,221	465	14
5-14 Years	21	0	0	-	-	-	3917	880	22	2317	547	24	-	-	-
15-24 Years	3	0	0	-	-	-	4422	1022	23	2167	413	19	-	-	-
25-39 Years	14	0	0	-	-	-	4806	924	19	1916	299	16	-	-	-
40-59 Years	32	0	0	-	-	-	6066	976	16	1245	201	16	-	-	-
≥ 60 Years	71	0	0	-	-	-	6120	962	16	400	46	12	-	-	-
	141	**0**	**0**	**72**	**0**	**0**	**25,331**	**4,764**	**19**	**14,927**	**2,296**	**15**	**11,548**	**949**	**8**

[‡]Outpatient ILI surveillance discontinued in October 2017.

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

Hospital	District	Initiation	Sample	Flu	Flu %	Flu A$^\Psi$	Flu B$^\Lambda$	Flu A+B$^\Ŧ$	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^Y	Dhaka	Jun 2007	2061	312	15	201	111	0	15	84	0	0	102	13	7
CBMCH^Y	Mymensingh	Oct 2007	2053	302	15	206	96	0	7	107	1	0	91	16	10
JIMCH	Kishoregonj	Sep 2007	6258	1188	19	795^i	393	0	9	408	0	0	376	64	159
RMCH	Rajshahi	May 2007	4302	527	12	349^i	178	0	14	194	0	0	139	39	78
SZRMCH^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^T	Cumilla	Oct 2007	5691	693	12	461*	229	3	9	229	0	0	222	28	51
KMCH	Khulna	Jul 2007	3665	496	14	349*^{i}	147	0	16	166	0	0	163	17	69
JGH^{Yi}	Jashore	Sep 2007	4494	890	20	558	331	1	10	275	0	0	273	26	167
JRRMCH	Sylhet	Jul 2007	4525	737	16	466^i	270	1	16	222	0	0	227	34	93
SBMCH	Barishal	Aug 2007	6506	957	15	619^i	334	4	9	295	0	0	313	56	129
CMCH	Chattogram	Apr 2014	3537	600	17	417	180	3	0	149	0	0	268	41	119
MARMCH^Ɔ	Dinajpur	Apr 2014	2238	385	17	247^i	138	0	0	122	0	0	122	28	89
			51,806	8,009	15	5,297	2,699	13	137	2,590	1	0	2,553	395	1,010

$^\Lambda$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.

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

^{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.

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

^{T}Surveillance activities reinitiated at Cumilla Medical College Hospital (CuMCH), Cumilla in January 2018.

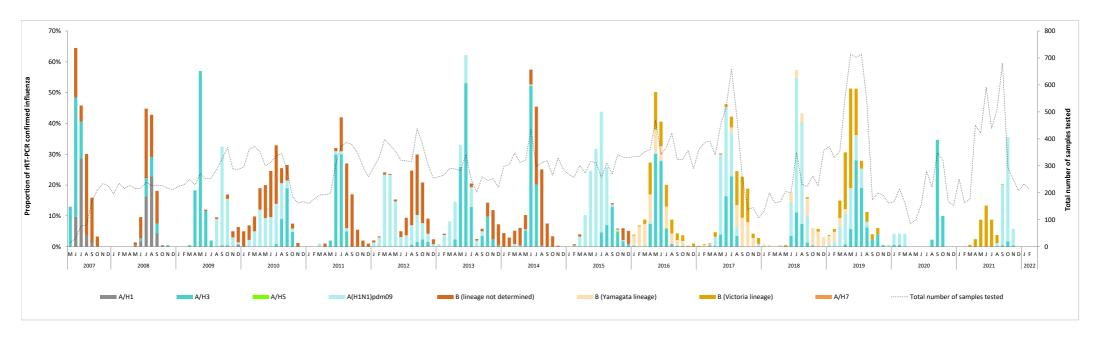†Surveillance activities reinitiated at Jashore 250 bed General Hospital (JGH), Jashore in December 2018.

^{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.

^{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 - February 2022

Note: Influenza B typing initiated in January 2016

Hospital based influenza surveillance
Influenza seasonality graph
Week 09 of 2021 to week 08 of 2022