





Monthly summary report

Hospital Based Human Influenza Surveillance in Bangladesh

July 2019

Hospital based influenza surveillance Monthly enrollment by different wards (Medicine, Pediatrics and CCU) July 2019

Hospital	District	ı	Medicine ward	i	Pediatrio	s ward (≤12 ye	ears of age)	Coronary Care Unit (CCU)				
	DISTRICT	Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %		
JIMCH	Kishoregonj	32	9	28%	52	4	8%	5	2	40%		
RMCH	Rajshahi	52	38	73%	40	19	48%	6	1	17%		
CuMCH	Cumilla	18	2	11%	46	6	13%	4	0	0%		
KMCH	Khulna	38	9	24%	16	2	13%	2	0	0%		
JGH	Jashore	36	26	72%	23	11	48%	6	3	50%		
JRRMCH	Sylhet	19	8	42%	41	11	27%	4	1	25%		
SBMCH	Barishal	43	6	14%	52	5	10%	2	0	0%		
CMCH	Chattogram	43	3	7%	54	1	2%	6	2	33%		
MARMCH	Dinajpur	31	10	32%	40	18	45%	3	2	67%		
		312	111	36%	364	77	21%	38	11	29%		

Hospital based influenza surveillance Monthly hospitalwise influenza lab results July 2019

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 Iineage	Flu B Victoria lineage
JIMCH	Kishoregonj	89	15	17%	15	0	0	0	11	0	0	4	0	0
RMCH	Rajshahi	98	58	59%	54	4	0	0	44	0	0	10	1	3
CuMCH	Cumilla	68	8	12%	8	0	0	0	8	0	0	0	0	0
KMCH	Khulna	56	11	20%	10	1	0	0	8	0	0	2	0	1
JGH	Jashore	65	40	62%	34	6	0	0	20	0	0	14	0	6
JRRMCH	Sylhet	64	20	31%	17	3	0	0	16	0	0	1	0	3
SBMCH	Barishal	97	11	11%	10	1	0	0	8	0	0	2	0	1
CMCH	Chattogram [∓]	103	6	6%	5	1	0	0	5	0	0	0	0	1
MARMCH	Dinajpur	74	30	41%	27	3	0	0	16	0	0	11	0	3
		714	199	28%	180	19	0	0	136	0	0	44	1	18

Hospital based influenza surveillance Monthly enrollment by different surveillance groups July 2019

Hospital	District	SA	ARI (aged ≥ 5 year	rs)	SA	ARI (aged < 5 year	rs)
	DISTRICT	Sample	Flu	Flu %	Sample	Flu	Flu %
JIMCH	Kishoregonj	43	12	28%	46	3	7%
RMCH	Rajshahi	60	41	68%	38	17	45%
CuMCH	Cumilla	26	4	15%	42	4	10%
KMCH	Khulna	41	10	24%	15	1	7%
JGH	Jashore	47	32	68%	18	8	44%
JRRMCH	Sylhet	34	12	35%	30	8	27%
SBMCH	Barishal	49	8	16%	48	3	6%
CMCH	Chattogram	52	5	10%	51	1	2%
MARMCH	Dinajpur	51	21	41%	23	9	39%
	_	403	145	36%	311	54	17%

Hospital based influenza surveillance Influenza results by different age groups July 2019

	July 2019							Initiation - July 2019									
Age groups	SARI (aged ≥ 5 years)			SARI (a	aged < 5	years)	SARI (aged ≥ 5	years)		ILI [‡]		SARI (a	aged < 5	years)		
	Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %		
<1 Year	-	-	-	210	24	11%	-	-	-	2665	189	7%	6,280	372	6%		
1-4 Years	-	-	-	101	30	30%	-	-	-	4217	601	14%	2,266	352	16%		
5-14 Years	68	33	49%	-	-	-	3224	774	24%	2317	547	24%	-	-	-		
15-24 Years	91	31	34%	-	-	-	3871	950	25%	2167	413	19%	-	-	-		
25-39 Years	75	21	28%	-	-	-	3766	814	22%	1916	299	16%	-	-	-		
40-59 Years	87	33	38%	-	-	-	4405	864	20%	1245	201	16%	-	-	-		
≥ 60 Years	82	27	33%	-	-	-	4560	864	19%	400	46	12%	-	-	-		
	403	145	36%	311	54	17%	19,826	4,266	22%	14,927	2,296	15%	8,546	724	8%		

[‡]Outpatient ILI surveillance discontinued in October 2017.

Hospital based influenza surveillance Hospitalwise influenza lab results Surveillance initiation - July 2019

Hospital	District	Initiation	Sample	Flu	Flu %	Flu A ^Ψ	Flu B ^x	Flu A+B [∓]	Flu A/H1	Flu A/H3	Flu A/H5	Flu A/H7	Flu A/ (H1N1)pdm09	Flu B Yamagata Iineage	Flu B Victoria Iineage
DNMCH	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	5191	1078	21%	736	342	0	9	386	0	0	340	64	108
RMCH	Rajshahi	May 2007	3267	465	14%	304	161	0	14	169	0	0	121	39	61
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
$BBMH^\dagger$	Chattogram	Aug 2007	1440	157	11%	118	39	0	13	42	0	0	63	3	0
CuMCH	Cumilla	Oct 2007	4802	624	13%	409	212	3	9	216	0	0	184	28	34
KMCH	Khulna	Jul 2007	2804	438	16%	304	134	0	16	146	0	0	142	17	56
JGH ^{Y™}	Jashore	Sep 2007	3733	800	21%	495	304	1	10	241	0	0	244	26	140
JRRMCH	Sylhet	Jul 2007	3675	665	18%	411	253	1	16	198	0	0	197	34	76
SBMCH	Barishal	Aug 2007	5393	849	16%	529	316	4	9	254	0	0	266	56	111
СМСН	Chattogram	Apr 2014	2330	490	21%	333	154	3	0	128	0	0	205	41	93
MARMCH ²	Dinajpur	Apr 2014	1514	341	23%	211	130	0	0	106	0	0	103	28	81
			43,299	7,286	17%	4,768	2,505	13	137	2,374	1	0	2,252	395	816

¹Influenza B typing initiated in January 2016.

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

 $^{^{\}Psi}\text{rRT-PCR}$ 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.

¹Three 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).

¹One 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.

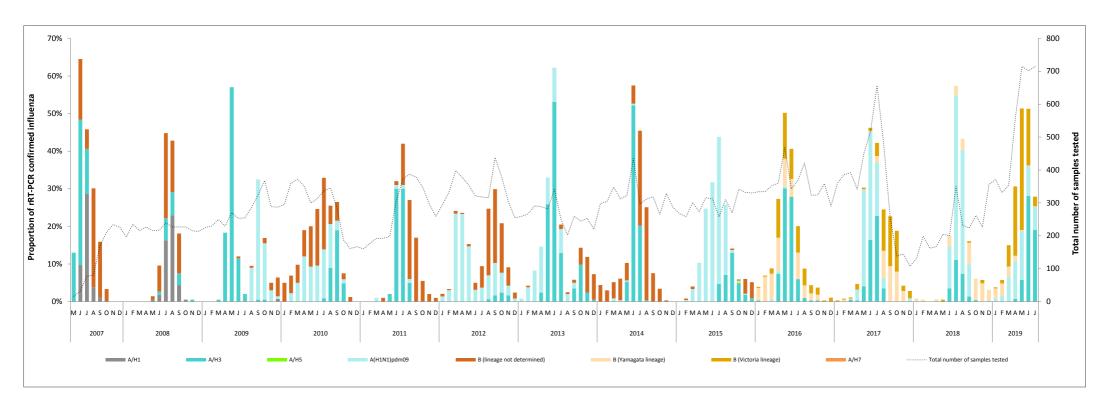
[§]Surveillance activities ended at DNMCH (Dhaka), CBMCH (Mymensingh), SZRMCH (Bogra) and JGH (Jessore) in October 2017.

[†]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).

 $^{^{\}phi}$ Intensive care units (ICU) surveillance discontinued in January 2019.

Hospital based influenza surveillance Influenza seasonality graph May 2007 - July 2019



Note: Influenza B typing initiated in January 2016

Hospital based influenza surveillance Influenza seasonality graph Week 31 of 2018 to week 30 of 2019

