

Monthly summary report

Hospital Based Human Influenza Surveillance in Bangladesh

October 2019

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

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	10	0	0%	6	1	17%	3	0	0%
RMCH	Rajshahi	15	2	13%	5	0	0%	5	1	20%
CuMCH	Cumilla	13	3	23%	6	0	0%	3	0	0%
KMCH	Khulna	17	0	0%	5	0	0%	3	0	0%
JGH	Jashore	10	2	20%	5	0	0%	3	0	0%
JRRMCH	Sylhet	7	0	0%	8	0	0%	6	1	17%
SBMCH	Barishal	15	1	7%	7	0	0%	6	1	17%
CMCH	Chattogram	6	0	0%	9	0	0%	6	0	0%
MARMCH	Dinajpur	8	0	0%	8	0	0%	4	0	0%
		101	8	8%	59	1	2%	39	3	8%

Hospital based influenza surveillance
Monthly hospitalwise influenza lab results
October 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 lineage	Flu B Victoria lineage
JIMCH	Kishoregonj	19	1	5%	0	1	0	0	0	0	0	0	0	1
RMCH	Rajshahi	25	3	12%	1	2	0	0	1	0	0	0	0	2
CuMCH	Cumilla	22	3	14%	2	1	0	0	2	0	0	0	0	1
KMCH	Khulna	25	0	0%	0	0	0	0	0	0	0	0	0	0
JGH	Jashore	18	2	11%	2	0	0	0	2	0	0	0	0	0
JRRMCH	Sylhet	21	1	5%	1	0	0	0	1	0	0	0	0	0
SBMCH	Barishal	28	2	7%	2	0	0	0	2	0	0	0	0	0
CMCH	Chattogram	21	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
		199	12	6%	8	4	0	0	8	0	0	0	0	4

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

Hospital	District	SARI (aged \geq 5 years)			SARI (aged < 5 years)		
		Sample	Flu	Flu %	Sample	Flu	Flu %
JIMCH	Kishoregonj	14	0	0%	5	1	20%
RMCH	Rajshahi	20	3	15%	5	0	0%
CuMCH	Cumilla	17	3	18%	5	0	0%
KMCH	Khulna	20	0	0%	5	0	0%
JGH	Jashore	13	2	15%	5	0	0%
JRRMCH	Sylhet	16	1	6%	5	0	0%
SBMCH	Barishal	23	2	9%	5	0	0%
CMCH	Chattogram	16	0	0%	5	0	0%
MARMCH	Dinajpur	15	0	0%	5	0	0%
		154	11	7%	45	1	2%

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

Age groups	October 2019						Initiation - October 2019								
	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	-	-	-	32	0	0%	-	-	-	2665	189	7%	6,521	382	6%
1-4 Years	-	-	-	13	1	8%	-	-	-	4217	601	14%	2,366	361	15%
5-14 Years	21	1	5%	-	-	-	3314	786	24%	2317	547	24%	-	-	-
15-24 Years	27	1	4%	-	-	-	4003	963	24%	2167	413	19%	-	-	-
25-39 Years	39	6	15%	-	-	-	3895	828	21%	1916	299	16%	-	-	-
40-59 Years	33	1	3%	-	-	-	4529	879	19%	1245	201	16%	-	-	-
≥ 60 Years	34	2	6%	-	-	-	4648	870	19%	400	46	12%	-	-	-
	154	11	7%	45	1	2%	20,389	4,326	21%	14,927	2,296	15%	8,887	743	8%

[‡]Outpatient ILI surveillance discontinued in October 2017.

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

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	5311	1083	20%	736	347	0	9	386	0	0	340	64	113
RMCH	Rajshahi	May 2007	3385	479	14%	313	166	0	14	177	0	0	122	39	66
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	4894	631	13%	413	215	3	9	220	0	0	184	28	37
KMCH	Khulna	Jul 2007	2893	448	15%	311	137	0	16	153	0	0	142	17	59
JGH ^{γ†}	Jashore	Sep 2007	3822	820	21%	512	307	1	10	257	0	0	245	26	143
JRRMCH	Sylhet	Jul 2007	3750	668	18%	413	254	1	16	199	0	0	198	34	77
SBMCH	Barishal	Aug 2007	5509	855	16%	535	316	4	9	258	0	0	268	56	111
CMCH	Chattogram	Apr 2014	2448	491	20%	333	155	3	0	128	0	0	205	41	94
MARMCH ²	Dinajpur	Apr 2014	1601	354	22%	221	133	0	0	111	0	0	108	28	84
			44,203	7,365	17%	4,823	2,529	13	137	2,419	1	0	2,262	395	840

^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).

^γOne 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.

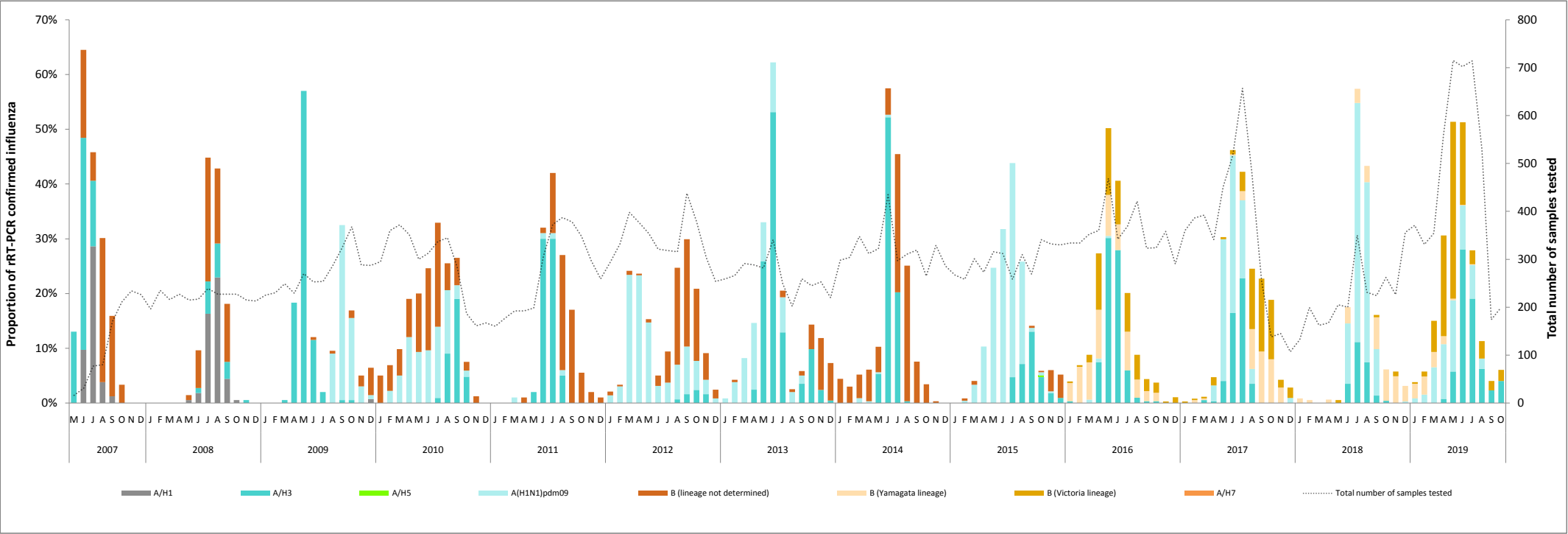
[†]Surveillance activities reinitiated at Jashore 250 bed General Hospital (JGH), Jashore in December 2018.

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.

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



Note: Influenza B typing initiated in January 2016

Hospital based influenza surveillance
Influenza seasonality graph
Week 44 of 2018 to week 43 of 2019

