



Monthly summary report

Hospital Based Human Influenza Surveillance in Bangladesh

April 2019

Hospital based influenza surveillance
Monthly enrollment by different wards (Medicine, Pediatrics and CCU)
April 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	51	21	41%	41	9	22%	7	0	0%
RMCH	Rajshahi	18	5	28%	23	3	13%	5	1	20%
CuMCH	Cumilla	14	0	0%	18	4	22%	4	2	50%
KMCH	Khulna	26	5	19%	24	4	17%	1	0	0%
JGH	Jashore	32	20	63%	16	1	6%	7	2	29%
JRRMCH	Sylhet	21	4	19%	28	3	11%	3	0	0%
SBMCH	Barishal	27	10	37%	39	21	54%	5	2	40%
CMCH	Chattogram	59	27	46%	26	7	27%	15	5	33%
MARMCH	Dinajpur	16	5	31%	26	9	35%	7	1	14%
		264	97	37%	241	61	25%	54	13	24%

Hospital based influenza surveillance
Monthly hospitalwise influenza lab results
April 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	99	30	30%	8	22	0	0	3	0	0	5	0	22
RMCH	Rajshahi	46	9	20%	0	9	0	0	0	0	0	0	4	5
CuMCH	Cumilla	36	6	17%	1	5	0	0	0	0	0	1	0	5
KMCH	Khulna	51	9	18%	6	3	0	0	0	0	0	6	0	3
JGH	Jashore	55	23	42%	13	10	0	0	0	0	0	13	3	7
JRRMCH	Sylhet	52	7	13%	0	7	0	0	0	0	0	0	0	7
SBMCH	Barishal	71	33	46%	7	26	0	0	1	0	0	6	0	26
CMCH	Chattogram	100	39	39%	23	16	0	0	0	0	0	23	0	16
MARMCH	Dinajpur	49	15	31%	2	13	0	0	0	0	0	2	1	12
		559	171	31%	60	111	0	0	4	0	0	56	8	103

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

Hospital	District	SARI (aged ≥ 5 years) [‡]			SARI (aged < 5 years) [*]		
		Sample	Flu	Flu %	Sample	Flu	Flu %
JIMCH	Kishoregonj	71	27	38%	28	3	11%
RMCH	Rajshahi	28	7	25%	18	2	11%
CuMCH	Cumilla	20	3	15%	16	3	19%
KMCH	Khulna	33	8	24%	18	1	6%
JGH	Jashore	41	22	54%	14	1	7%
JRRMCH	Sylhet	33	6	18%	19	1	5%
SBMCH	Barishal	44	21	48%	27	12	44%
CMCH	Chattogram	75	33	44%	25	6	24%
MARMCH	Dinajpur	34	11	32%	15	4	27%
		379	138	36%	180	33	18%

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

Age groups	April 2019						Initiation - April 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	-	-	-	113	13	12%	-	-	-	2665	189	7%	5,806	261	4%
1-4 Years	-	-	-	67	20	30%	-	-	-	4217	601	14%	2,003	230	11%
5-14 Years	80	38	48%	-	-	-	2979	633	21%	2317	547	24%	-	-	-
15-24 Years	69	31	45%	-	-	-	3563	776	22%	2167	413	19%	-	-	-
25-39 Years	76	26	34%	-	-	-	3495	686	20%	1916	299	16%	-	-	-
40-59 Years	84	26	31%	-	-	-	4115	736	18%	1245	201	16%	-	-	-
≥ 60 Years	70	17	24%	-	-	-	4280	739	17%	400	46	12%	-	-	-
	379	138	36%	180	33	18%	18,432	3,570	19%	14,927	2,296	15%	7,809	491	6%

[‡] Outpatient ILI surveillance discontinued in October 2017.

Hospital based influenza surveillance
Hospitalwise influenza lab results
Surveillance initiation - April 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	4890	970	20%	650	320	0	9	319	0	0	321	64	86
RMCH	Rajshahi	May 2007	3015	345	11%	224	121	0	14	108	0	0	102	36	24
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	4634	576	12%	376	198	2	9	187	0	0	180	28	20
KMCH	Khulna	Jul 2007	2629	361	14%	261	100	0	16	126	0	0	119	17	22
JGH ^{γ†}	Jashore	Sep 2007	3503	646	18%	423	222	1	10	202	0	0	211	26	58
JRRMCH	Sylhet	Jul 2007	3477	577	17%	361	215	1	16	152	0	0	193	34	38
SBMCH	Barishal	Aug 2007	5109	730	14%	452	275	3	9	208	0	0	235	55	71
CMCH	Chattogram	Apr 2014	2008	364	18%	248	114	2	0	85	0	0	163	41	53
MARMCH [‡]	Dinajpur	Apr 2014	1313	252	19%	170	82	0	0	83	0	0	85	28	33
			41,168	6,357	15%	4,201	2,146	10	137	2,000	1	0	2,059	391	461

^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.

[‡]One sample collected in June 2017 was co-infected with both Influenza A(H1N1)pdm09 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.

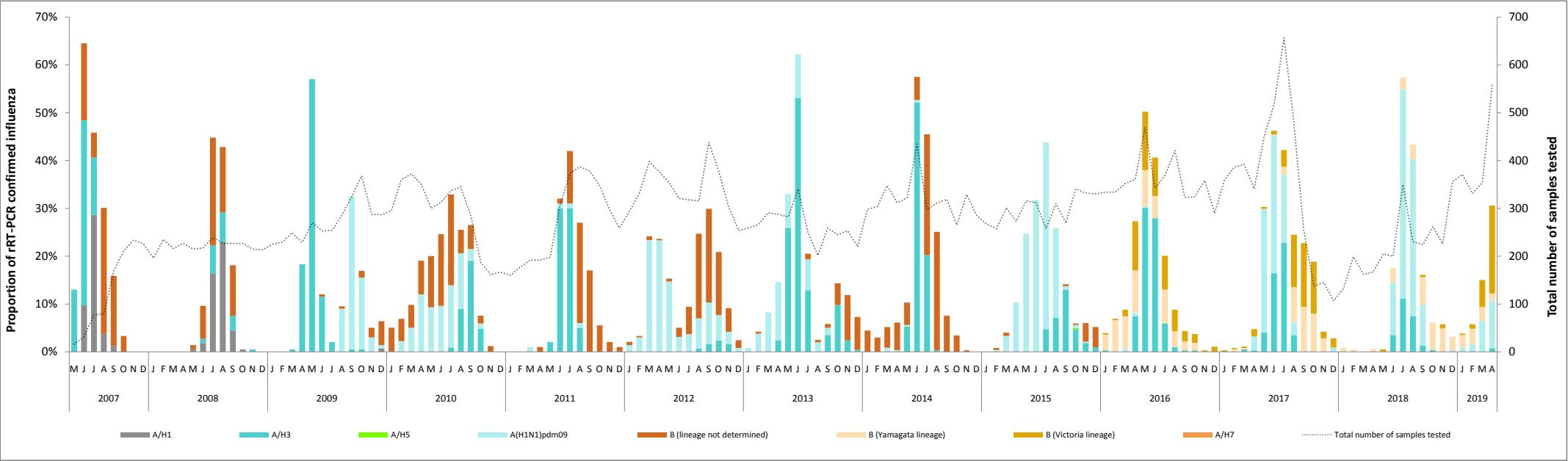
[†]Surveillance activities reinitiated at Jashore 250 bed General Hospital (JGH), Jashore in December 2018.

[‡]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.

^φIntensive care units (ICU) surveillance discontinued in January 2019.

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



Note: Influenza B typing initiated in January 2016

Hospital based influenza surveillance

Influenza seasonality graph

Week 18 of 2018 to week 17 of 2019

