



Monthly summary report

Hospital Based Human Influenza Surveillance in Bangladesh

May 2019

Hospital based influenza surveillance
Monthly enrollment by different wards (Medicine, Pediatrics and CCU)
May 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	44	22	50%	40	13	33%	9	3	33%
RMCH	Rajshahi	54	23	43%	29	10	34%	4	0	0%
CuMCH	Cumilla	17	10	59%	22	11	50%	7	3	43%
KMCH	Khulna	44	27	61%	18	7	39%	3	0	0%
JGH	Jashore	55	41	75%	20	10	50%	5	3	60%
JRRMCH	Sylhet	28	14	50%	36	19	53%	6	0	0%
SBMCH	Barishal	52	31	60%	36	23	64%	4	2	50%
CMCH	Chattogram	69	45	65%	34	19	56%	12	8	67%
MARMCH	Dinajpur	26	12	46%	35	12	34%	6	1	17%
		389	225	58%	270	124	46%	56	20	36%

Hospital based influenza surveillance
Monthly hospitalwise influenza lab results
May 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	93	38	41%	21	17	0	0	13	0	0	8	0	17
RMCH	Rajshahi	87	33	38%	4	29	0	0	3	0	0	1	1	28
CuMCH	Cumilla	46	24	52%	11	12	1	0	7	0	0	4	0	12
KMCH	Khulna	65	34	52%	13	21	0	0	1	0	0	12	0	21
JGH	Jashore	80	54	68%	7	47	0	0	0	0	0	7	0	47
JRRMCH	Sylhet	70	33	47%	8	25	0	0	6	0	0	2	0	25
SBMCH	Barishal	92	56	61%	23	32	1	0	3	0	0	20	1	31
CMCH	Chattogram	115	72	63%	43	29	0	0	8	0	0	35	0	29
MARMCH	Dinajpur	67	25	37%	4	21	0	0	0	0	0	4	0	21
		715	369	52%	134	233	2	0	41	0	0	93	2	231

ⁱOne sample collected in May 2019 was co-infected with both Influenza A(H3) and Influenza B (Victoria lineage).

[‡]One sample collected in May 2019 was co-infected with both Influenza A(H1N1)pdm09 and Influenza B (Victoria lineage).

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

Hospital	District	SARI (aged ≥ 5 years) [‡]			SARI (aged < 5 years) [*]		
		Sample	Flu	Flu %	Sample	Flu	Flu %
JIMCH	Kishoregonj	63	30	48%	30	8	27%
RMCH	Rajshahi	60	24	40%	27	9	33%
CuMCH	Cumilla	29	14	48%	17	10	59%
KMCH	Khulna	50	28	56%	15	6	40%
JGH	Jashore	68	50	74%	12	4	33%
JRRMCH	Sylhet	47	24	51%	23	9	39%
SBMCH	Barishal	68	42	62%	24	14	58%
CMCH	Chattogram	85	54	64%	30	18	60%
MARMCH	Dinajpur	48	21	44%	19	4	21%
		518	287	55%	197	82	42%

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

Age groups	May 2019						Initiation - May 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	-	-	-	130	41	32%	-	-	-	2665	189	7%	5,936	302	5%
1-4 Years	-	-	-	67	41	61%	-	-	-	4217	601	14%	2,070	271	13%
5-14 Years	88	52	59%	-	-	-	3066	685	22%	2317	547	24%	-	-	-
15-24 Years	129	90	70%	-	-	-	3692	866	23%	2167	413	19%	-	-	-
25-39 Years	102	53	52%	-	-	-	3598	739	21%	1916	299	16%	-	-	-
40-59 Years	109	48	44%	-	-	-	4224	784	19%	1245	201	16%	-	-	-
≥ 60 Years	90	44	49%	-	-	-	4370	783	18%	400	46	12%	-	-	-
	518	287	55%	197	82	42%	18,950	3,857	20%	14,927	2,296	15%	8,006	573	7%

[‡]Outpatient ILI surveillance discontinued in October 2017.

Hospital based influenza surveillance
Hospitalwise influenza lab results
Surveillance initiation - May 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	4983	1008	20%	671	337	0	9	332	0	0	329	64	103
RMCH	Rajshahi	May 2007	3102	378	12%	228	150	0	14	111	0	0	103	37	52
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	4680	600	13%	387	210	3	9	194	0	0	184	28	32
KMCH	Khulna	Jul 2007	2694	395	15%	274	121	0	16	127	0	0	131	17	43
JGH ^{γ†}	Jashore	Sep 2007	3583	700	20%	430	269	1	10	202	0	0	218	26	105
JRRMCH	Sylhet	Jul 2007	3547	610	17%	369	240	1	16	158	0	0	195	34	63
SBMCH	Barishal	Aug 2007	5201	786	15%	475	307	4	9	211	0	0	255	56	102
CMCH	Chattogram	Apr 2014	2123	436	21%	291	143	2	0	93	0	0	198	41	82
MARMCH ²	Dinajpur	Apr 2014	1380	277	20%	174	103	0	0	83	0	0	89	28	54
			41,883	6,726	16%	4,335	2,379	12	137	2,041	1	0	2,152	393	692

^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 and another sample collected in May 2019 were 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.

^γOne sample collected in May 2019 was co-infected with both Influenza A(H3) and Influenza B (Victoria lineage).

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

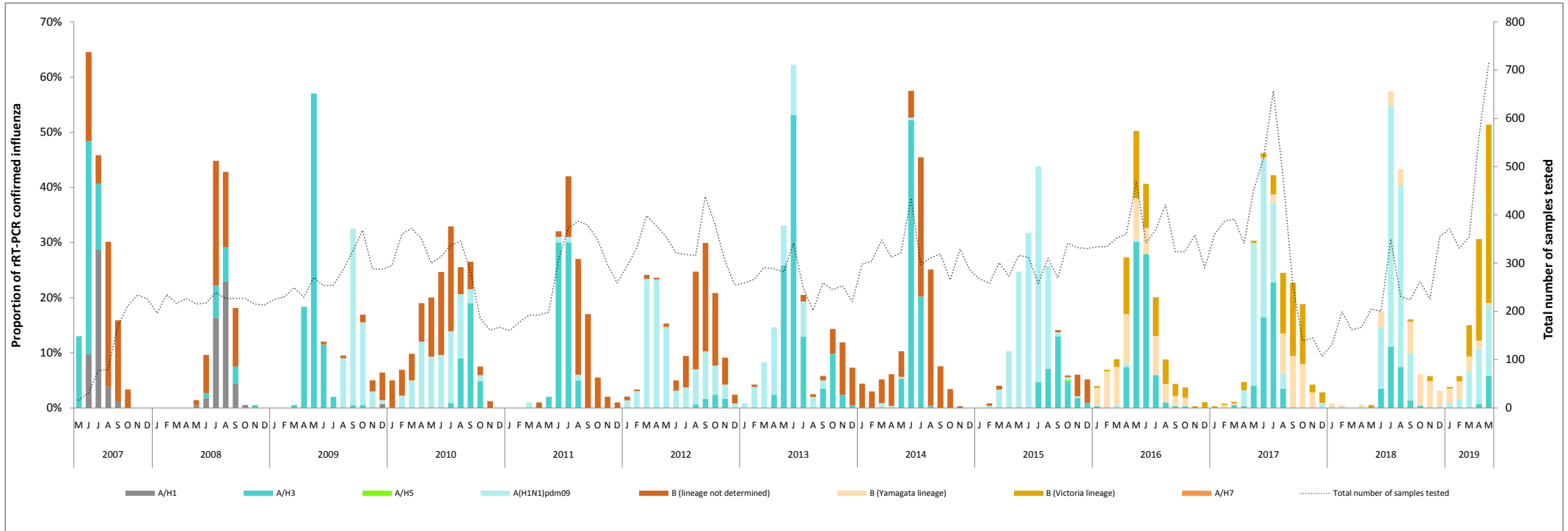
[‡]Surveillance activities reinitiated at Jashore 250 bed General Hospital (JGH), Jashore in December 2018.

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 - May 2019**



Note: Influenza B typing initiated in January 2016

