



Monthly summary report

Hospital Based Human Influenza Surveillance in Bangladesh

July 2018

Hospital based influenza surveillance
Monthly enrollment by different wards (Medicine, Pediatrics, CCU and ICU)
July 2018

Hospital	District	Medicine ward			Pediatrics ward (≤12 years of age)			Intensive Care Unit (ICU)			Coronary Care Unit (CCU)		
		Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %
JIMCH	Kishoregonj	45	34	76%	14	12	86%	1	1	100%	5	3	60%
RMCH	Rajshahi	15	7	47%	8	3	38%	1	1	100%	6	0	0%
CoMCH	Cumilla	18	8	44%	6	2	33%	0	0	0%	6	4	67%
KMCH	Khulna	23	10	43%	5	3	60%	0	0	0%	2	1	50%
JRRMCH	Sylhet	16	11	69%	13	10	77%	2	2	100%	9	5	56%
SBMCH	Barishal	25	13	52%	5	4	80%	0	0	0%	9	5	56%
CMCH	Chattogram	60	36	60%	7	2	29%	0	0	0%	20	9	45%
MARMCH	Dinajpur	17	11	65%	6	3	50%	0	0	0%	6	1	17%
		219	130	59%	64	39	61%	4	4	100%	63	28	44%

Hospital based influenza surveillance
Monthly hospitalwise influenza lab results
July 2018

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	65	50	77%	49	1	0	0	4	0	0	45	1	0
RMCH	Rajshahi	30	11	37%	11	0	0	0	1	0	0	10	0	0
CoMCH	Cumilla	30	14	47%	14	0	0	0	2	0	0	12	0	0
KMCH	Khulna	30	14	47%	13	1	0	0	4	0	0	9	1	0
JRRMCH	Sylhet	40	28	70%	25	3	0	0	0	0	0	25	3	0
SBMCH	Barishal	39	22	56%	22	0	0	0	6	0	0	16	0	0
CMCH	Chattogram	87	47	54%	43	4	0	0	17	0	0	26	4	0
MARMCH	Dinajpur	29	15	52%	15	0	0	0	5	0	0	10	0	0
		350	201	57%	192	9	0	0	39	0	0	153	9	0

Hospital based influenza surveillance
Monthly enrollment by different surveillance groups
July 2018

Hospital	District	SARI (aged ≥ 5 years) [‡]			SARI (aged < 5 years) [‡]		
		Sample	Flu	Flu %	Sample	Flu	Flu %
JIMCH	Kishoregonj	59	46	78%	6	4	67%
RMCH	Rajshahi	25	10	40%	5	1	20%
CoMCH	Cumilla	25	13	0%	5	1	0%
KMCH	Khulna	25	11	44%	5	3	60%
JRRMCH	Sylhet	35	26	74%	5	2	40%
SBMCH	Barishal	34	18	53%	5	4	80%
CMCH	Chattogram	81	45	56%	6	2	33%
MARMCH	Dinajpur	24	12	50%	5	3	60%
		308	181	59%	42	20	48%

[‡] All SARI samples (aged ≥ 5 years) collected throughout the month from medicine and pediatrics inpatients.

[‡] First five SARI (aged < 5 years) collected from pediatrics inpatients. More than five SARI (aged < 5 years) cases belong to the cluster.

Hospital based influenza surveillance
Influenza results by different age groups
July 2018

Age groups	July 2018						Initiation - July 2018								
	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	-	-	-	22	7	32%	-	-	-	2665	189	7%	5258	234	4%
1-4 Years	-	-	-	20	13	65%	-	-	-	4217	601	14%	1753	194	11%
5-14 Years	44	35	80%	-	-	-	2658	543	20%	2317	547	24%	-	-	-
15-24 Years	55	29	53%	-	-	-	3276	701	21%	2167	413	19%	-	-	-
25-39 Years	59	38	64%	-	-	-	3147	623	20%	1916	299	16%	-	-	-
40-59 Years	72	37	51%	-	-	-	3577	663	19%	1245	201	16%	-	-	-
≥ 60 Years	78	42	54%	-	-	-	3658	670	18%	400	46	12%	-	-	-
	308	181	59%	42	20	48%	16,316	3,200	20%	14,927	2,296	15%	7,011	428	6%

[‡] All SARI samples (aged ≥ 5 years) collected throughout the month from medicine and pediatrics inpatients.

[‡] First five SARI (aged <5 years) collected from pediatrics inpatients. More than five SARI (aged <5 years) cases belong to the cluster.

[‡] Outpatient ILI surveillance discontinued in October 2017.

Hospital based influenza surveillance
Hospitalwise influenza lab results
Surveillance initiation - July 2018

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	4423	890	20%	621	269	0	9	314	0	0	297	45	54
RMCH	Rajshahi	May 2007	2725	299	11%	204	95	0	14	106	0	0	84	15	19
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
CoMCH	Cumilla	Oct 2007	4372	559	13%	370	187	2	9	185	0	0	176	24	13
KMCH	Khulna	Jul 2007	2350	327	14%	234	93	0	16	120	0	0	98	15	17
JGH ^γ	Jashore	Sep 2007	3310	608	18%	403	204	1	10	202	0	0	191	17	49
JRRMCH	Sylhet	Jul 2007	3212	546	17%	352	193	1	16	150	0	0	186	21	29
SBMCH	Barishal	Aug 2007	4723	670	14%	431	236	3	9	206	0	0	216	44	43
CMCH	Chattogram	Apr 2014	1516	281	19%	194	85	2	0	81	0	0	113	30	35
MARMCH ²	Dinajpur	Apr 2014	1033	208	20%	148	60	0	0	81	0	0	65	23	16
			38,254	5,924	15%	3,993	1,921	10	137	1,975	1	0	1,876	296	331

^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).

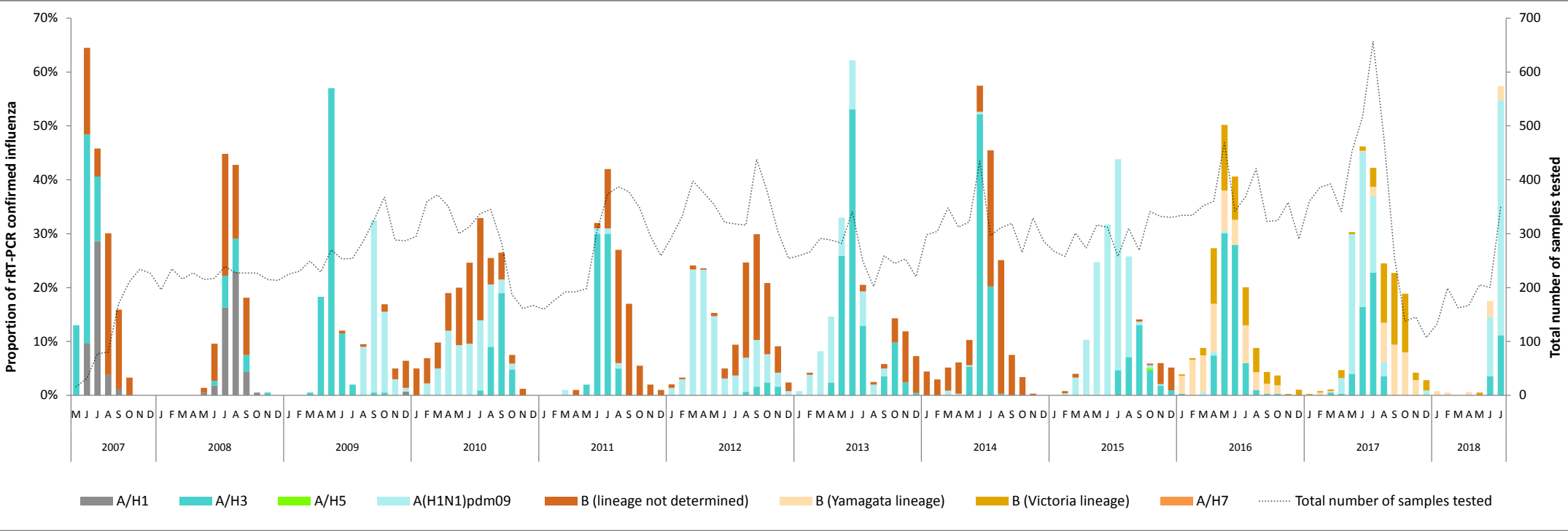
[†]Surveillance activities ended at LAMB (Dinajpur) and BBMH (Chittagong) in May 2016.

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

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

Hospital based influenza surveillance
Influenza seasonality graph
May 2007 - July 2018



Note: Influenza B typing initiated in January 2016

Hospital based influenza surveillance
Influenza seasonality graph
Week 31 of 2017 to week 30 of 2018

