



Monthly summary report

Hospital Based Human Influenza Surveillance in Bangladesh

August 2017

Hospital based influenza surveillance
Monthly hospitalwise influenza lab results
August 2017

Hospital	District	Sample	Flu	Flu %	Flu A	Flu B	Flu A+B	Flu A/H1	Flu A/H3	Flu A/H5	Flu A/ (H1N1)pdm09	Flu B Yamagata lineage	Flu B Victoria lineage
DNMCH	Dhaka	24	5	21%	1	4	0	0	1	0	0	3	1
CBMCH	Mymensingh	27	7	26%	0	7	0	0	0	0	0	4	3
JIMCH	Kishoregonj	87	26	30%	1	25	0	0	1	0	0	6	19
RMCH	Rajshahi	26	6	23%	4	2	0	0	2	0	2	1	1
SZRMCH	Bogra	49	17	35%	7	10	0	0	5	0	2	4	6
CoMCH	Comilla	36	2	6%	0	2	0	0	0	0	0	0	2
KMCH	Khulna	21	1	5%	0	1	0	0	0	0	0	0	1
JGH	Jessore	40	8	20%	4	4	0	0	3	0	1	2	2
JRRMCH	Sylhet	27	6	22%	1	5	0	0	0	0	1	2	3
SBMCH	Barisal	63	20	32%	2	18	0	0	1	0	1	12	6
CMCH	Chittagong	54	9	17%	0	9	0	0	0	0	0	1	8
DjMCH	Dinaipur	26	11	42%	10	1	0	0	4	0	6	0	1
		480	118	25%	30	88	0	0	17	0	13	35	53

Hospital based influenza surveillance
Monthly enrollment by different surveillance groups
August 2017

Hospital	District	SARI (aged ≥ 5 years) [‡]			ILI [‡]			SARI (aged < 5 years) [‡]		
		Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %
DNMCH	Dhaka	21	5	24%	-	-	-	3	0	0%
CBMCH	Mymensingh	22	6	27%	-	-	-	5	1	20%
JIMCH	Kishoregonj	59	16	27%	23	10	43%	5	0	0%
RMCH	Rajshahi	21	4	19%	-	-	-	5	2	40%
SZRMCH	Bogra	24	10	42%	20	6	30%	5	1	20%
CoMCH	Comilla	15	1	7%	16	1	6%	5	0	0%
KMCH	Khulna	17	1	6%	-	-	-	4	0	0%
JGH	Jessore	19	5	26%	16	3	19%	5	0	0%
JRRMCH	Sylhet	13	3	23%	9	2	22%	5	1	20%
SBMCH	Barisal	35	9	26%	21	9	43%	7	2	29%
CMCH	Chittagong	49	9	18%	-	-	-	5	0	0%
DJMCH	Dinajpur	21	9	43%	-	-	-	5	2	40%
		316	78	25%	105	31	30%	59	9	15%

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

[‡] All ILI samples (all age groups) collected during 4 days in each month from both medicine and pediatrics OPD of selected six hospitals.

[‡] 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
August 2017

Age groups	August 2017									Initiation - August 2017								
	SARI (aged ≥ 5 years) [‡]			ILI [‡]			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 %	Sample	Flu	Flu %
<1 Year	-	-	-	20	3	15%	30	6	20%	-	-	-	2657	188	7%	4936	223	5%
1-4 Years	-	-	-	28	5	18%	29	3	10%	-	-	-	4191	596	14%	1618	172	11%
5-14 Years	64	30	47%	18	11	61%	-	-	-	2443	488	20%	2307	542	23%	-	-	-
15-24 Years	73	13	18%	13	4	31%	-	-	-	2972	648	22%	2159	408	19%	-	-	-
25-39 Years	68	14	21%	18	7	39%	-	-	-	2879	570	20%	1909	299	16%	-	-	-
40-59 Years	58	9	16%	8	1	13%	-	-	-	3215	605	19%	1237	200	16%	-	-	-
≥ 60 Years	53	12	23%	0	0	0%	-	-	-	3272	606	19%	399	46	12%	-	-	-
	316	78	25%	105	31	30%	59	9	15%	14,781	2,917	20%	14,859	2,279	15%	6,554	395	6%

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

[‡] All ILI samples (all age groups) collected during 4 days in each month from both medicine and pediatrics OPD of selected six hospitals.

[‡] 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
Hospitalwise influenza lab results
Surveillance initiation - August 2017

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/ (H1N1)pdm09	Flu B Yamagata lineage	Flu B Victoria lineage
DNMCH	Dhaka	Jun 2007	2053	310	15%	201	109	0	15	84	0	102	12	6
CBMCH	Mymensingh	Oct 2007	2040	300	15%	206	94	0	7	107	1	91	16	8
JIMCH	Kishoregonj	Sep 2007	4081	802	20%	557	245	0	9	309	0	238	30	45
RMCH	Rajshahi	May 2007	2461	278	11%	191	87	0	14	105	0	72	13	13
SZRMCH	Bogra	Sep 2007	3837	642	17%	439	202	1	12	256	0	170	27	30
LAMB [†]	Dinajpur	Oct 2007	1171	112	10%	72	40	0	7	41	0	24	1	0
BBMH [†]	Chittagong	Aug 2007	1440	157	11%	118	39	0	13	42	0	63	3	0
CoMCH	Comilla	Oct 2007	4209	541	13%	355	184	2	9	182	0	164	22	12
KMCH	Khulna	Jul 2007	2157	298	14%	218	80	0	16	114	0	88	9	10
JGH	Jessore	Sep 2007	3287	601	18%	403	197	1	10	202	0	191	14	45
JRRMCH	Sylhet	Jul 2007	3011	513	17%	326	186	1	16	150	0	160	14	29
SBMCH	Barisal	Aug 2007	4465	634	14%	409	222	3	9	200	0	200	37	36
CMCH	Chittagong	Apr 2014	1151	220	19%	145	73	2	0	61	0	84	21	32
DJMCH	Dinajpur	Apr 2014	831	183	22%	131	52	0	0	76	0	53	20	11
			36,194	5,591	15%	3,771	1,810	10	137	1,929	1	1,700	239	277

^λInfluenza B typing initiated in January 2016.

^ψrRT-PCR result of four samples were equivocal positive for Influenza A.

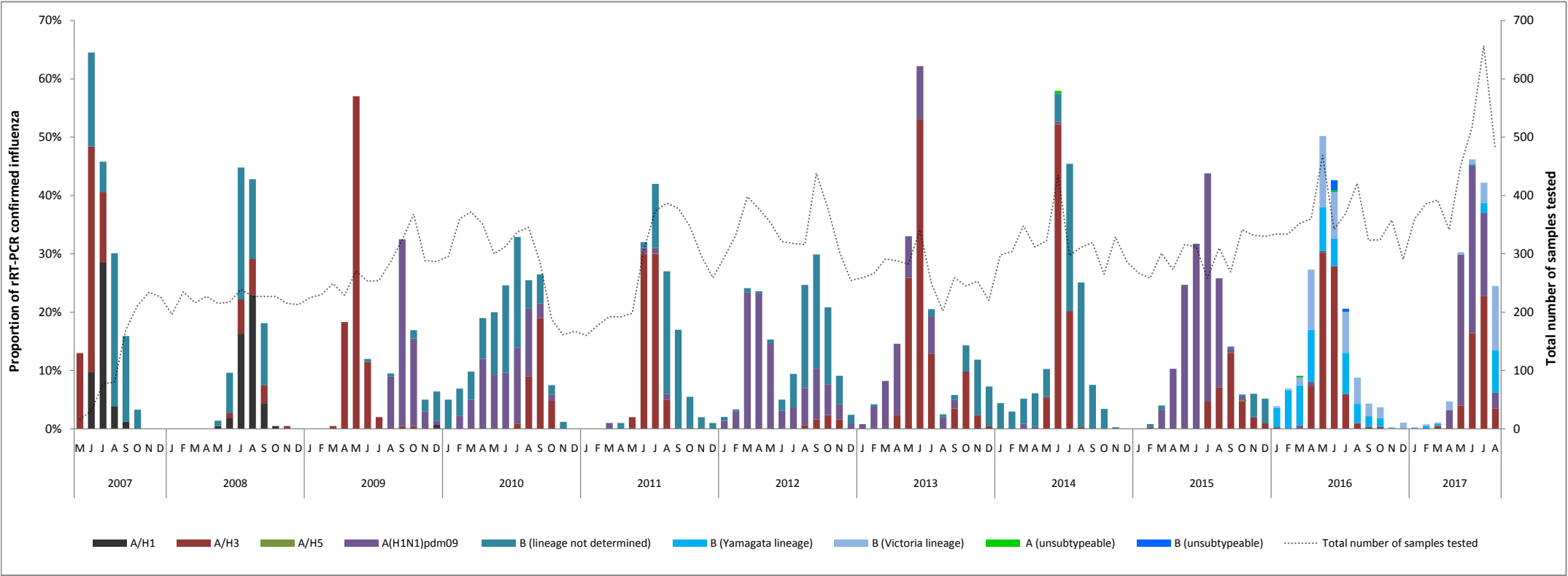
^ψOne sample collected in June 2013 and another sample collected in June 2017 were co-infected with both A(H3) and A(H1N1)pdm09.

^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.

Hospital based influenza surveillance
Influenza seasonality graph
May 2007 - August 2017



Note: Influenza B typing initiated in January 2016