



Monthly summary report

Hospital Based Human Influenza Surveillance in Bangladesh

September 2017

Hospital based influenza surveillance

Monthly hospitalwise influenza lab results

September 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	8	2	25%	0	2	0	0	0	0	0	1	1
CBMCH	Mymensingh	13	2	15%	0	2	0	0	0	0	0	0	2
JIMCH	Kishoregonj	40	15	38%	0	15	0	0	0	0	0	9	6
RMCH	Rajshahi	21	2	10%	0	2	0	0	0	0	0	0	2
SZRMCH	Bogra	28	11	39%	0	11	0	0	0	0	0	2	9
CoMCH	Comilla	26	3	12%	0	3	0	0	0	0	0	2	1
KMCH	Khulna	15	5	33%	0	5	0	0	0	0	0	2	3
JGH	Jessore	23	7	30%	0	7	0	0	0	0	0	3	4
JRRMCH	Sylhet	15	0	0%	0	0	0	0	0	0	0	0	0
SBMCH	Barisal	35	7	20%	0	7	0	0	0	0	0	3	4
CMCH	Chittagong	18	2	11%	0	2	0	0	0	0	0	1	1
DjMCH	Dinajpur	13	2	15%	0	2	0	0	0	0	0	1	1
		255	58	23%	0	58	0	0	0	0	0	24	34

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

Hospital	District	SARI (aged ≥ 5 years) [‡]			ILI [‡]			SARI (aged < 5 years) [‡]		
		Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %
DNMCH	Dhaka	6	2	33%	-	-	-	2	0	0%
CBMCH	Mymensingh	8	1	13%	-	-	-	5	1	20%
JIMCH	Kishoregonj	23	12	52%	12	3	25%	5	0	0%
RMCH	Rajshahi	16	2	13%	-	-	-	5	0	0%
SZRMCH	Bogra	11	6	55%	12	4	33%	5	1	20%
CoMCH	Comilla	10	1	10%	11	2	18%	5	0	0%
KMCH	Khulna	10	3	30%	-	-	-	5	2	40%
JGH	Jessore	6	2	33%	13	5	38%	4	0	0%
JRRMCH	Sylhet	4	0	0%	6	0	0%	5	0	0%
SBMCH	Barisal	16	4	25%	14	3	21%	5	0	0%
CMCH	Chittagong	13	1	8%	-	-	-	5	1	20%
DJMCH	Dinajpur	8	1	13%	-	-	-	5	1	20%
		131	35	27%	68	17	25%	56	6	11%

[‡] 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.

Hospital based influenza surveillance
Influenza results by different age groups
September 2017

Age groups	September 2017									Initiation - September 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	-	-	-	8	1	13%	38	2	5%	-	-	-	2665	189	7%	4974	225	5%
1-4 Years	-	-	-	26	5	19%	18	4	22%	-	-	-	4217	601	14%	1636	176	11%
5-14 Years	24	8	33%	10	5	50%	-	-	-	2467	496	20%	2317	547	24%	-	-	-
15-24 Years	33	6	18%	8	5	63%	-	-	-	3005	654	22%	2167	413	19%	-	-	-
25-39 Years	34	10	29%	7	0	0%	-	-	-	2913	580	20%	1916	299	16%	-	-	-
40-59 Years	18	6	33%	8	1	13%	-	-	-	3233	611	19%	1245	201	16%	-	-	-
≥ 60 Years	22	5	23%	1	0	0%	-	-	-	3294	611	19%	400	46	12%	-	-	-
	131	35	27%	68	17	25%	56	6	11%	14,912	2,952	20%	14,927	2,296	15%	6,610	401	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 - September 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	2061	312	15%	201	111	0	15	84	0	102	13	7
CBMCH	Mymensingh	Oct 2007	2053	302	15%	206	96	0	7	107	1	91	16	10
JIMCH	Kishoregonj	Sep 2007	4121	817	20%	557	260	0	9	309	0	238	39	51
RMCH	Rajshahi	May 2007	2482	280	11%	191	89	0	14	105	0	72	13	15
SZRMCH	Bogra	Sep 2007	3865	653	17%	439	213	1	12	256	0	170	29	39
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	4235	544	13%	355	187	2	9	182	0	164	24	13
KMCH	Khulna	Jul 2007	2172	303	14%	218	85	0	16	114	0	88	11	13
JGH	Jessore	Sep 2007	3310	608	18%	403	204	1	10	202	0	191	17	49
JRRMCH	Sylhet	Jul 2007	3026	513	17%	326	186	1	16	150	0	160	14	29
SBMCH	Barisal	Aug 2007	4500	641	14%	409	229	3	9	200	0	200	40	40
CMCH	Chittagong	Apr 2014	1169	222	19%	145	75	2	0	61	0	84	22	33
DjMCH	Dinajpur	Apr 2014	844	185	22%	131	54	0	0	76	0	53	21	12
			36,449	5,649	15%	3,771	1,868	10	137	1,929	1	1,700	263	311

^λInfluenza B typing initiated in January 2016.

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

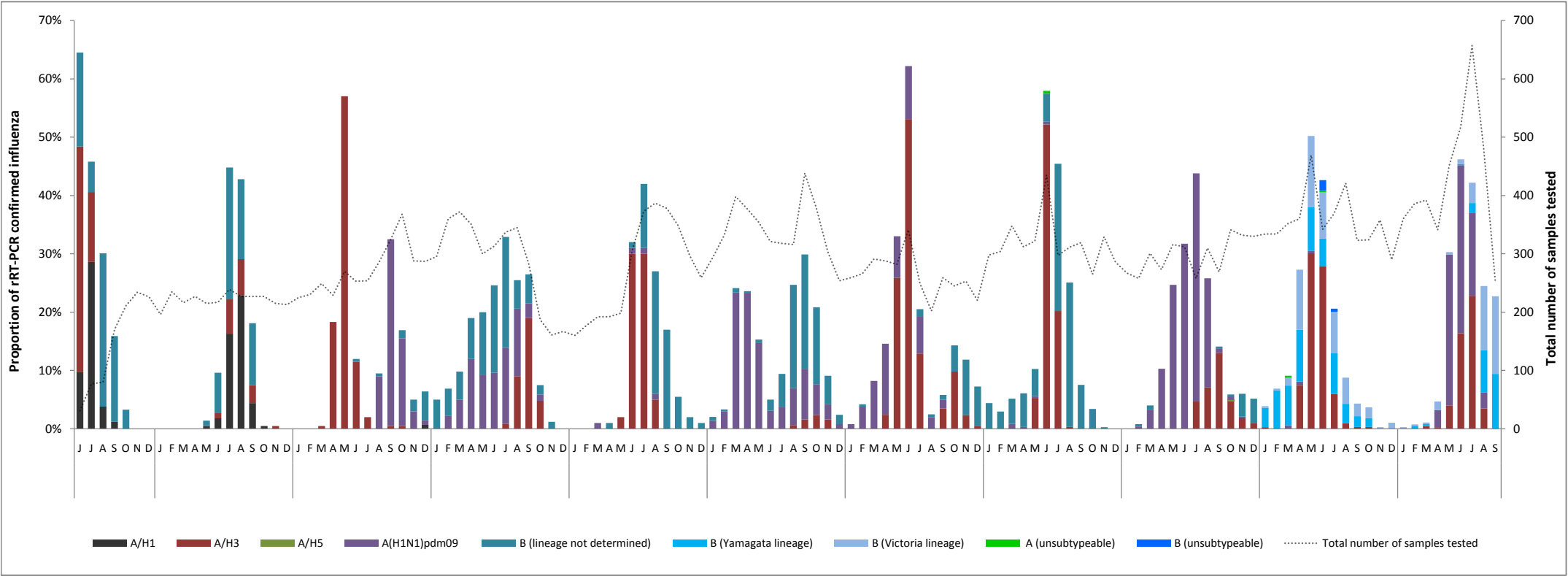
^ψOne sample collected in June 2013 and another sample collected in June 2017 were co-infected with both A(H3) and A(H1N1)pdm09.

^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 - September 2017



Note: Influenza B typing initiated in January 2016