



Monthly summary report

Hospital Based Human Influenza Surveillance in Bangladesh

September 2016

Hospital based influenza surveillance
Monthly hospitalwise influenza lab results
September 2016

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	17	0	0%	0	0	0	0	0	0	0	0	0
CBMCH	Mymensingh	17	0	0%	0	0	0	0	0	0	0	0	0
JIMCH	Kishoregonj	45	4	9%	1	3	0	0	1	0	0	1	2
RMCH	Rajshahi	22	1	5%	0	1	0	0	0	0	0	1	0
SZRMCH	Bogra	33	2	6%	0	2	0	0	0	0	0	2	0
CoMCH	Comilla	31	1	3%	0	1	0	0	0	0	0	0	1
KMCH	Khulna	17	0	0%	0	0	0	0	0	0	0	0	0
JGH	Jessore	30	3	10%	0	3	0	0	0	0	0	0	3
JRRMCH	Sylhet	17	0	0%	0	0	0	0	0	0	0	0	0
SBMCH	Barisal	43	1	2%	0	1	0	0	0	0	0	1	0
CMCH	Chittagong	32	1	3%	0	1	0	0	0	0	0	1	0
DjMCH	Dinajpur	19	1	5%	0	1	0	0	0	0	0	0	1
		323	14	4%	1	13	0	0	1	0	0	6	7

[‡]Analysis excluded two samples which will undergo repeat rRT-PCR.

Hospital based influenza surveillance
Monthly enrollment by different surveillance groups
September 2016

Hospital	District	SARI (aged ≥ 5 years) [‡]			ILI [‡]			SARI (aged < 5 years) [‡]		
		Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %
DNMCH	Dhaka	12	0	0%	-	-	-	5	0	0%
CBMCH	Mymensingh	12	0	0%	-	-	-	5	0	0%
JIMCH	Kishoregonj	26	4	15%	14	0	0%	5	0	0%
RMCH	Rajshahi	16	1	6%	-	-	-	6	0	0%
SZRMCH	Bogra	12	2	17%	16	0	0%	5	0	0%
CoMCH	Comilla	12	0	0%	14	0	0%	5	1	20%
KMCH	Khulna	12	0	0%	-	-	-	5	0	0%
JGH	Jessore	12	2	17%	13	1	8%	5	0	0%
JRRMCH	Sylhet	4	0	0%	8	0	0%	5	0	0%
SBMCH	Barisal	20	1	5%	16	0	0%	7	0	0%
CMCH	Chittagong	25	1	4%	-	-	-	7	0	0%
DjMCH	Dinajpur	14	1	7%	-	-	-	5	0	0%
		177	12	7%	81	1	1%	65	1	2%

[‡]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
September 2016

Age groups	September 2016									Initiation - September 2016								
	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	-	-	-	13	0	0%	43	0	0%	-	-	-	2489	171	7%	4532	188	4%
1-4 Years	-	-	-	26	0	0%	22	1	5%	-	-	-	3883	545	14%	1352	128	9%
5-14 Years	33	4	12%	13	1	8%	-	-	-	1898	384	20%	2124	499	23%	-	-	-
15-24 Years	35	2	6%	10	0	0%	-	-	-	2309	511	22%	2032	385	19%	-	-	-
25-39 Years	45	3	7%	8	0	0%	-	-	-	2346	475	20%	1790	283	16%	-	-	-
40-59 Years	39	1	3%	9	0	0%	-	-	-	2622	483	18%	1144	182	16%	-	-	-
≥ 60 Years	25	2	8%	2	0	0%	-	-	-	2748	505	18%	369	41	11%	-	-	-
	177	12	7%	81	1	1%	65	1	2%	11,923	2,358	20%	13,831	2,106	15%	5,884	316	5%

[¶] 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 2016

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	1795	268	15%	167	101	0	15	72	0	80	8	2
CBMCH	Mymensingh	Oct 2007	1803	266	15%	182	84	0	7	95	1	79	11	3
JIMCH	Kishoregonj	Sep 2007	3410	635	19%	428	207	0	9	240	0	178	21	16
RMCH	Rajshahi	May 2007	2192	238	11%	157	81	0	14	93	0	50	9	11
SZRMCH	Bogra	Sep 2007	3342	547	16%	359	187	1	12	208	0	138	23	17
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	3848	504	13%	327	175	2	9	170	0	148	20	5
KMCH	Khulna	Jul 2007	1921	253	13%	178	75	0	16	101	0	61	7	7
JGH	Jessore	Sep 2007	2907	522	18%	331	190	1	10	179	0	142	11	41
JRRMCH	Sylhet	Jul 2007	2711	464	17%	283	180	1	16	130	0	137	12	25
SBMCH	Barisal	Aug 2007	3866	549	14%	350	196	3	9	178	0	165	20	27
CMCH	Chittagong	Apr 2014	679	137	20%	83	53	1	0	50	0	33	19	14
DJMCH	Dinajpur	Apr 2014	553	128	23%	79	49	0	0	56	0	21	19	9
			31,638	4,780	15%	3,114	1,657	9	137	1,655	1	1,319	184	177

^λInfluenza B typing initiated in January 2016.

[‡]Analysis excluded two samples September 2016, which will undergo repeat rRT-PCR.

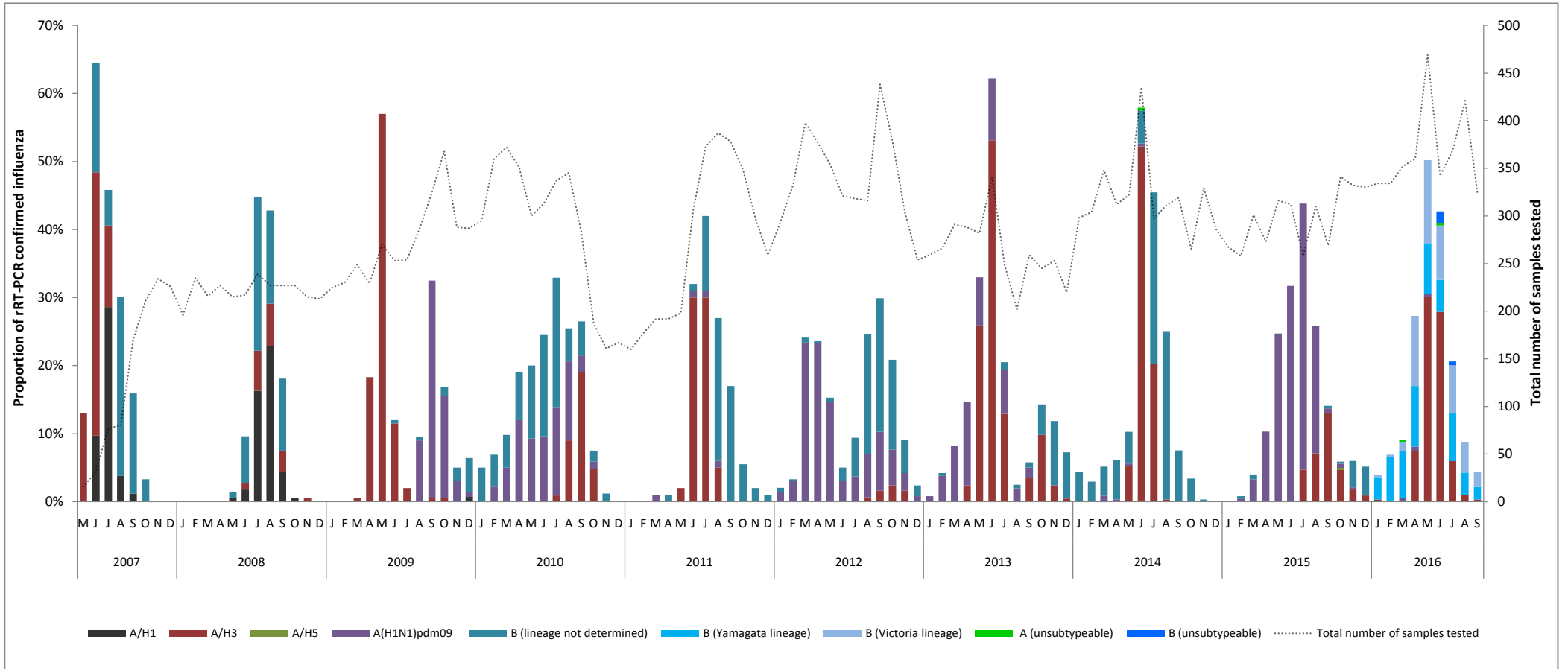
^ψrRT-PCR result of four samples were equivocal positive for Influenza A.

^ψOne sample collected in June 2013 was 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 eight samples were unsubtypeable.

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

Hospital based influenza surveillance
Influenza seasonality graph
May 2007 - September 2016



Note: Influenza B typing initiated in January 2016