



Monthly summary report

Hospital Based Human Influenza Surveillance in Bangladesh

November 2016

Hospital based influenza surveillance

Monthly hospitalwise influenza lab results

November 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	15	0	0%	0	0	0	0	0	0	0	0	0
CBMCH	Mymensingh	21	0	0%	0	0	0	0	0	0	0	0	0
JIMCH	Kishoregonj	57	0	0%	0	0	0	0	0	0	0	0	0
RMCH	Rajshahi	22	0	0%	0	0	0	0	0	0	0	0	0
SZRMCH	Bogra	37	0	0%	0	0	0	0	0	0	0	0	0
CoMCH	Comilla	29	0	0%	0	0	0	0	0	0	0	0	0
KMCH	Khulna	20	0	0%	0	0	0	0	0	0	0	0	0
JGH	Jessore	27	0	0%	0	0	0	0	0	0	0	0	0
JRRMCH	Sylhet	25	0	0%	0	0	0	0	0	0	0	0	0
SBMCH	Barisal	51	1	2%	0	1	0	0	0	0	0	0	1
CMCH	Chittagong	33	0	0%	0	0	0	0	0	0	0	0	0
DjMCH	Dinajpur	21	0	0%	0	0	0	0	0	0	0	0	0
		358	1	0.3%	0	1	0	0	0	0	0	0	1

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

Hospital	District	SARI (aged ≥ 5 years) [‡]			ILI [‡]			SARI (aged < 5 years) [*]		
		Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %
DNMCH	Dhaka	10	0	0%	-	-	-	5	0	0%
CBMCH	Mymensingh	16	0	0%	-	-	-	5	0	0%
JIMCH	Kishoregonj	32	0	0%	20	0	0%	5	0	0%
RMCH	Rajshahi	17	0	0%	-	-	-	5	0	0%
SZRMCH	Bogra	17	0	0%	15	0	0%	5	0	0%
CoMCH	Comilla	8	0	0%	16	0	0%	5	0	0%
KMCH	Khulna	15	0	0%	-	-	-	5	0	0%
JGH	Jessore	12	0	0%	10	0	0%	5	0	0%
JRRMCH	Sylhet	9	0	0%	11	0	0%	5	0	0%
SBMCH	Barisal	26	1	4%	20	0	0%	5	0	0%
CMCH	Chittagong	28	0	0%	-	-	-	5	0	0%
DjMCH	Dinajpur	16	0	0%	-	-	-	5	0	0%
		206	1	0.5%	92	0	0%	60	0	0%

[‡] 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
November 2016

Age groups	November 2016									Initiation - November 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%	33	0	0%	-	-	-	2518	171	7%	4601	188	4%
1-4 Years	-	-	-	25	0	0%	27	0	0%	-	-	-	3937	547	14%	1403	128	9%
5-14 Years	40	1	3%	20	0	0%	-	-	-	1972	387	20%	2152	498	23%	-	-	-
15-24 Years	44	0	0%	9	0	0%	-	-	-	2391	511	21%	2051	385	19%	-	-	-
25-39 Years	50	0	0%	11	0	0%	-	-	-	2439	475	19%	1813	284	16%	-	-	-
40-59 Years	32	0	0%	9	0	0%	-	-	-	2693	487	18%	1158	182	16%	-	-	-
≥ 60 Years	40	0	0%	5	0	0%	-	-	-	2815	507	18%	377	41	11%	-	-	-
	206	1	0.5%	92	0	0%	60	0	0%	12,310	2,367	19%	14,006	2,108	15%	6,004	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 - November 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	1828	268	15%	167	101	0	15	72	0	80	8	2
CBMCH	Mymensingh	Oct 2007	1838	266	14%	182	84	0	7	95	1	79	11	3
JIMCH	Kishoregonj	Sep 2007	3504	638	18%	429	209	0	9	241	0	178	21	18
RMCH	Rajshahi	May 2007	2235	241	11%	157	84	0	14	93	0	50	11	12
SZRMCH	Bogra	Sep 2007	3413	546	16%	359	186	1	12	208	0	138	23	18
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	3911	506	13%	327	177	2	9	170	0	148	22	5
KMCH	Khulna	Jul 2007	1958	254	13%	178	76	0	16	101	0	61	7	8
JGH	Jessore	Sep 2007	2964	522	18%	331	190	1	10	179	0	142	11	41
JRRMCH	Sylhet	Jul 2007	2757	464	17%	283	180	1	16	130	0	137	12	25
SBMCH	Barisal	Aug 2007	3966	551	14%	350	198	3	9	178	0	165	20	29
CMCH	Chittagong	Apr 2014	741	137	18%	83	53	1	0	50	0	33	19	14
DjMCH	Dinajpur	Apr 2014	594	129	22%	79	50	0	0	56	0	21	20	9
			32,320	4,791	15%	3,115	1,667	9	137	1,656	1	1,319	189	184

^λInfluenza B typing initiated in January 2016.

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

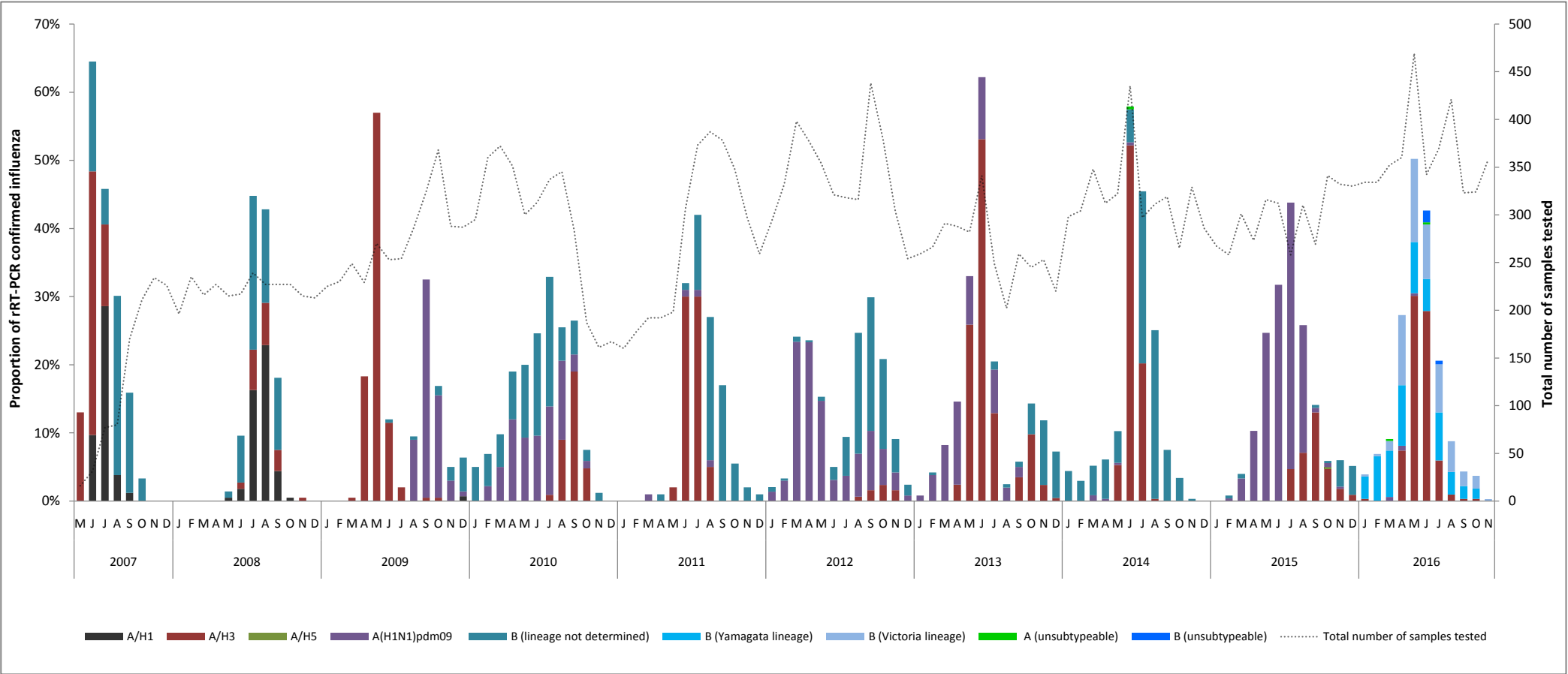
^ψrRT-PCR result of four samples were equivocal positive for Influenza A.

^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 - November 2016



Note: Influenza B typing initiated in January 2016