



Monthly summary report

Hospital Based Human Influenza Surveillance in Bangladesh

October 2016

Hospital based influenza surveillance
Monthly hospitalwise influenza lab results
October 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	18	0	0%	0	0	0	0	0	0	0	0	0
CBMCH	Mymensingh	14	0	0%	0	0	0	0	0	0	0	0	0
JIMCH	Kishoregonj	37	3	8%	1	2	0	0	1	0	0	0	2
RMCH	Rajshahi	21	3	14%	0	3	0	0	0	0	0	2	1
SZRMCH	Bogra	34	1	3%	0	1	0	0	0	0	0	0	1
CoMCH	Comilla	34	2	6%	0	2	0	0	0	0	0	2	0
KMCH	Khulna	17	1	6%	0	1	0	0	0	0	0	0	1
JGH	Jessore	30	0	0%	0	0	0	0	0	0	0	0	0
JRRMCH	Sylhet	21	0	0%	0	0	0	0	0	0	0	0	0
SBMCH	Barisal	49	1	2%	0	1	0	0	0	0	0	0	1
CMCH	Chittagong	29	0	0%	0	0	0	0	0	0	0	0	0
DjMCH	Dinajpur	20	1	5%	0	1	0	0	0	0	0	1	0
		324	12	4%	1	11	0	0	1	0	0	5	6

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

Hospital	District	SARI (aged ≥ 5 years) [‡]			ILI [‡]			SARI (aged < 5 years) [‡]		
		Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %
DNMCH	Dhaka	13	0	0%	-	-	-	5	0	0%
CBMCH	Mymensingh	9	0	0%	-	-	-	5	0	0%
JIMCH	Kishoregonj	21	1	5%	11	2	18%	5	0	0%
RMCH	Rajshahi	16	3	19%	-	-	-	5	0	0%
SZRMCH	Bogra	14	1	7%	15	0	0%	5	0	0%
CoMCH	Comilla	15	1	7%	14	1	7%	5	0	0%
KMCH	Khulna	12	1	8%	-	-	-	5	0	0%
JGH	Jessore	11	0	0%	14	0	0%	5	0	0%
JRRMCH	Sylhet	6	0	0%	10	0	0%	5	0	0%
SBMCH	Barisal	25	1	4%	19	0	0%	5	0	0%
CMCH	Chittagong	24	0	0%	-	-	-	5	0	0%
DjMCH	Dinajpur	15	1	7%	-	-	-	5	0	0%
		181	9	5%	83	3	4%	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
October 2016

Age groups	October 2016									Initiation - October 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	-	-	-	16	0	0%	36	0	0%	-	-	-	2505	171	7%	4568	188	4%
1-4 Years	-	-	-	29	2	7%	24	0	0%	-	-	-	3912	547	14%	1376	128	9%
5-14 Years	34	2	6%	8	0	0%	-	-	-	1932	386	20%	2132	498	23%	-	-	-
15-24 Years	38	0	0%	10	0	0%	-	-	-	2347	511	22%	2042	385	19%	-	-	-
25-39 Years	43	1	2%	12	1	8%	-	-	-	2389	475	20%	1802	284	16%	-	-	-
40-59 Years	39	4	10%	5	0	0%	-	-	-	2661	487	18%	1149	182	16%	-	-	-
≥ 60 Years	27	2	7%	3	0	0%	-	-	-	2775	507	18%	372	41	11%	-	-	-
	181	9	5%	83	3	4%	60	0	0%	12,104	2,366	20%	13,914	2,108	15%	5,944	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 - October 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	1813	268	15%	167	101	0	15	72	0	80	8	2
CBMCH	Mymensingh	Oct 2007	1817	266	15%	182	84	0	7	95	1	79	11	3
JIMCH	Kishoregonj	Sep 2007	3447	638	19%	429	209	0	9	241	0	178	21	18
RMCH	Rajshahi	May 2007	2213	241	11%	157	84	0	14	93	0	50	11	12
SZRMCH	Bogra	Sep 2007	3376	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	3882	506	13%	327	177	2	9	170	0	148	22	5
KMCH	Khulna	Jul 2007	1938	254	13%	178	76	0	16	101	0	61	7	8
JGH	Jessore	Sep 2007	2937	522	18%	331	190	1	10	179	0	142	11	41
JRRMCH	Sylhet	Jul 2007	2732	464	17%	283	180	1	16	130	0	137	12	25
SBMCH	Barisal	Aug 2007	3915	550	14%	350	197	3	9	178	0	165	20	28
CMCH	Chittagong	Apr 2014	708	137	19%	83	53	1	0	50	0	33	19	14
DJMCH	Dinajpur	Apr 2014	573	129	23%	79	50	0	0	56	0	21	20	9
			31,962	4,790	15%	3,115	1,666	9	137	1,656	1	1,319	189	183

^λInfluenza B typing initiated in January 2016.

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

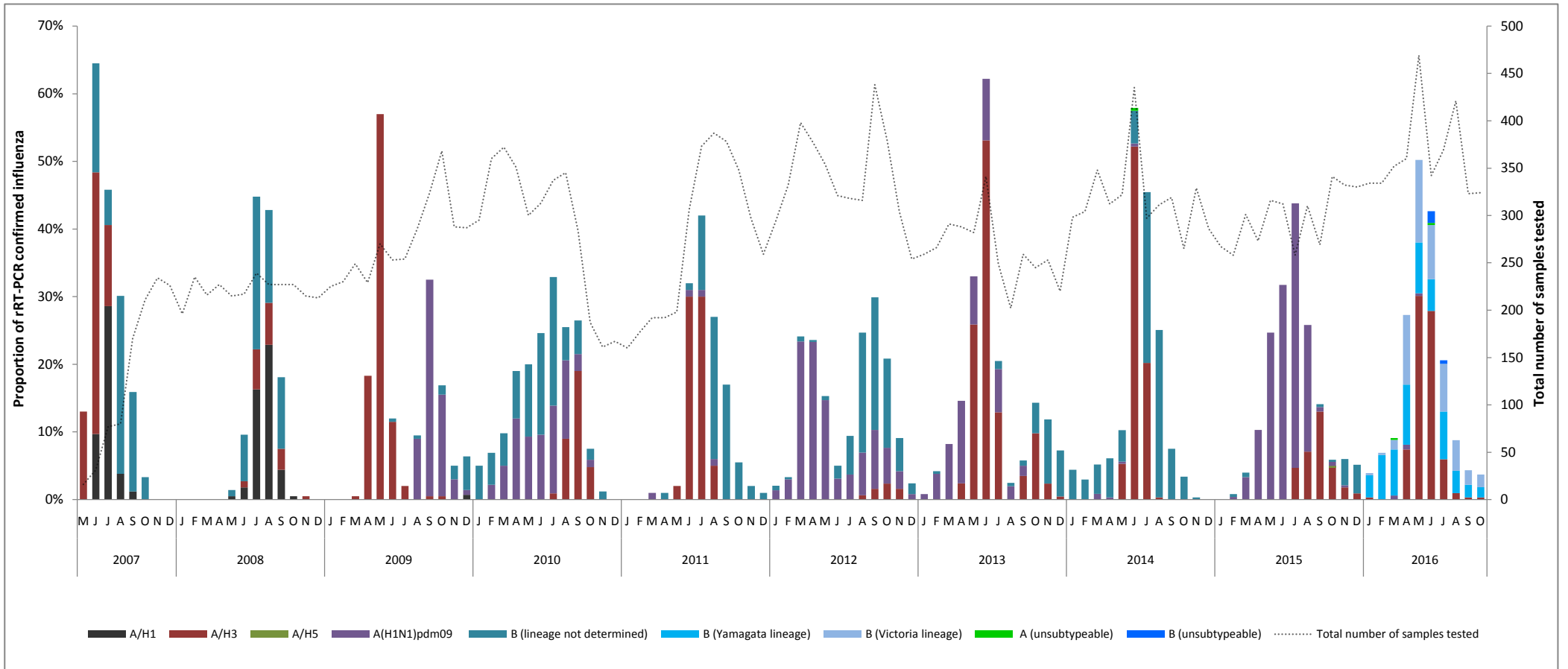
^ψrRT-PCR result of four samples were equivocal positive for Influenza A.

^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 - October 2016



Note: Influenza B typing initiated in January 2016