



Monthly summary report

Hospital Based Human Influenza Surveillance in Bangladesh

May 2016

Hospital based influenza surveillance
Monthly hospitalwise influenza lab results
May 2016

Hospital ²	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	20	7	35%	6	1	0	0	6	0	0	1	0
CBMCH	Mymensingh	24	9	38%	5	4	0	0	5	0	0	2	2
JIMCH	Kishoregonj	62	30	48%	24	6	0	0	24	0	0	1	5
RMCH	Rajshahi	28	10	36%	10	0	0	0	10	0	0	0	0
SZRMCH	Bogra	57	34	60%	23	11	0	0	23	0	0	5	6
CoMCH	Comilla	38	15	39%	11	4	0	0	11	0	0	1	3
KMCH	Khulna	20	8	40%	1	7	0	0	1	0	0	5	2
JGH	Jessore [†]	41	23	56%	8	14	1	0	8	0	0	3	11
JRRMCH	Sylhet	39	16	41%	8	8	0	0	8	0	0	2	6
SBMCH	Barisal	62	33	53%	15	18	0	0	15	0	0	5	13
CMCH	Chittagong	46	35	76%	21	14	0	0	19	0	2	9	5
DjMCH	Dinajpur	32	15	47%	11	4	0	0	11	0	0	1	3
		469	235	50%	143	91	1	0	141	0	2	35	56

[†]One sample collected in May 2016 was co-infected with both Influenza A (H3) and Influenza B (Victoria lineage).

²Surveillance activities ended at LAMB (Dinajpur) and BBMH (Chittagong) in May 2016.

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

Hospital ²	District	SARI [†]			ILI [‡]			Severe Pneumonia [*]		
		Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %
DNMCH	Dhaka	15	4	27%	0	-	-	5	3	60%
CBMCH	Mymensingh	19	9	47%	0	-	-	5	0	0%
JIMCH	Kishoregonj	32	16	50%	24	12	50%	6	2	33%
RMCH	Rajshahi	23	10	43%	0	-	-	5	0	0%
SZRMCH	Bogra	34	22	65%	18	12	67%	5	0	0%
CoMCH	Comilla	16	6	38%	17	9	53%	5	0	0%
KMCH	Khulna	15	8	53%	0	-	-	5	0	0%
JGH	Jessore	20	14	70%	16	8	50%	5	1	20%
JRRMCH	Sylhet	18	9	50%	16	7	44%	5	0	0%
SBMCH	Barisal	35	16	46%	22	14	64%	5	3	60%
CMCH	Chittagong	41	34	83%	0	-	-	5	1	20%
DjMCH	Dinajpur	27	15	56%	0	-	-	5	0	0%
		295	163	55%	113	62	55%	61	10	16%

[†] 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 Severe Pneumonia samples (aged < 5 years) collected from pediatrics inpatients. More than five severe pneumonia cases belong to the cluster.

² Surveillance activities ended at LAMB (Dinajpur) and BBMH (Chittagong) in May 2016.

Hospital based influenza surveillance
Influenza results by different age groups
May 2016

Age groups	May 2016									Initiation - May 2016								
	SARI [†]			ILI [‡]			Severe Pneumonia [¥]			SARI [†]			ILI [‡]			Severe Pneumonia [¥]		
	Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %
<1 Year	-	-	-	17	5	29%	45	3	7%	-	-	-	2387	165	7%	4346	167	4%
1-4 Years	-	-	-	28	14	50%	16	7	44%	-	-	-	3763	524	14%	1264	119	9%
5-14 Years	51	30	59%	26	19	73%	-	-	-	1738	351	20%	2082	485	23%	-	-	-
15-24 Years	62	36	58%	20	10	50%	-	-	-	2147	475	22%	1984	376	19%	-	-	-
25-39 Years	48	27	56%	12	7	58%	-	-	-	2178	442	20%	1747	277	16%	-	-	-
40-59 Years	58	30	52%	8	5	63%	-	-	-	2469	450	18%	1115	175	16%	-	-	-
≥ 60 Years	76	40	53%	2	2	100%	-	-	-	2600	461	18%	363	40	11%	-	-	-
	295	163	55%	113	62	55%	61	10	16%	11,132	2,179	20%	13,441	2,042	15%	5,610	286	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 Severe Pneumonia samples (aged < 5 years) collected from pediatrics inpatients. More than five severe pneumonia cases belong to the cluster.

Hospital based influenza surveillance
Hospitalwise influenza lab results
Surveillance initiation - May 2016

Hospital	District	Initiation	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	Jun 2007	1727	264	15%	165	99	0	15	70	0	80	8	0
CBMCH	Mymensingh	Oct 2007	1728	256	15%	176	80	0	7	89	1	79	7	3
JIMCH	Kishoregonj [†]	Sep 2007	3213	605	19%	407	198	0	9	219	0	178	18	10
RMCH	Rajshahi	May 2007	2085	202	10%	139	63	0	14	75	0	50	0	3
SZRMCH	Bogra ^{κλ}	Sep 2007	3186	497	16%	335	161	1	12	184	0	138	8	9
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	3719	497	13%	323	172	2	9	168	0	148	19	3
KMCH	Khulna	Jul 2007	1849	243	13%	170	73	0	16	93	0	61	7	5
JGH	Jessore ^{†γ}	Sep 2007	2777	484	17%	322	161	1	10	170	0	142	5	18
JRRMCH	Sylhet	Jul 2007	2600	432	17%	275	157	0	16	122	0	137	6	9
SBMCH	Barisal ^κ	Aug 2007	3655	539	15%	343	193	3	9	171	0	165	19	26
CMCH	Chittagong [‡]	Apr 2014	568	127	22%	82	44	1	0	49	0	33	17	10
DJMCH	Dinajpur ^κ	Apr 2014	465	92	20%	64	28	0	0	42	0	21	5	3
			30,183	4,507	15%	2,991	1,508	8	137	1,535	1	1,319	123	99

* Influenza B typing initiated in January 2016.

^κrRT-PCR result of one sample was equivocal positive for Influenza A.

[†]One sample collected in May 2013 was co-infected with both A(H3) and A(H1N1)pdm09.

[‡]One sample collected in May 2016 was co-infected with both Influenza A (H3) and Influenza B (Victoria lineage).

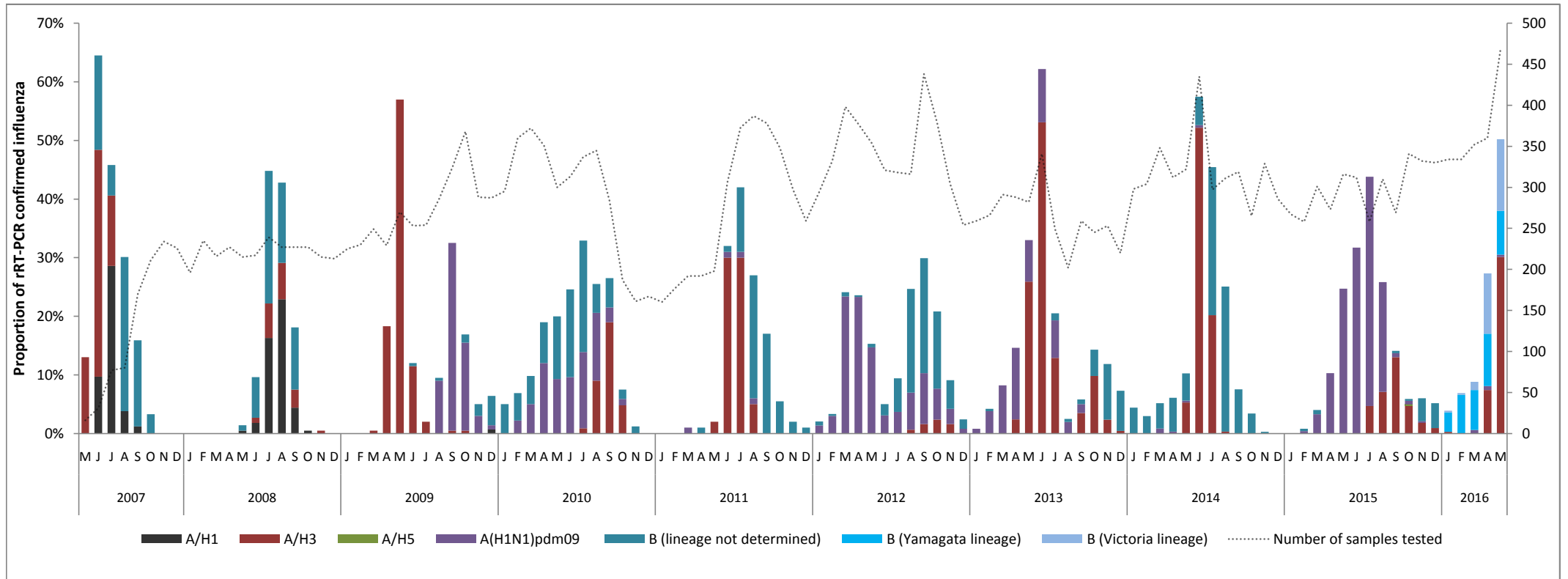
^λOne sample collected in April 2016 was co-infected with both Influenza A (H3) and for Influenza B (Yamagata lineage).

^γOne sample collected in April 2016 was co-infected with both Influenza B (Yamagata lineage) and Influenza B (Victoria lineage).

[‡]One sample collected in April 2016 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 - May 2016**



*Influenza B typing initiated in January 2016