



## Monthly summary report

# Hospital Based Human Influenza Surveillance in Bangladesh

**April 2018**

**Hospital based influenza surveillance**  
**Monthly hospitalwise influenza lab results**  
**April 2018**

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
JIMCH	Kishoregonj	36	0	0%	0	0	0	0	0	0	0	0	0
RMCH	Rajshahi	17	0	0%	0	0	0	0	0	0	0	0	0
CoMCH	Cumilla	17	0	0%	0	0	0	0	0	0	0	0	0
KMCH	Khulna	12	0	0%	0	0	0	0	0	0	0	0	0
JRRMCH	Sylhet	18	0	0%	0	0	0	0	0	0	0	0	0
SBMCH	Barishal	17	0	0%	0	0	0	0	0	0	0	0	0
CMCH	Chattogram	35	1	3%	0	1	0	0	0	0	0	1	0
MARMCH	Dinajpur	15	0	0%	0	0	0	0	0	0	0	0	0
		167	1	0.6%	0	1	0	0	0	0	0	1	0

**Hospital based influenza surveillance**  
**Monthly enrollment by different surveillance groups**  
**April 2018**

Hospital	District	SARI (aged ≥ 5 years) <sup>‡</sup>			SARI (aged < 5 years) <sup>‡</sup>		
		Sample	Flu	Flu %	Sample	Flu	Flu %
JIMCH	Kishoregonj	29	0	0%	7	0	0%
RMCH	Rajshahi	12	0	0%	5	0	0%
CoMCH	Cumilla	12	0	0%	5	0	0%
KMCH	Khulna	7	0	0%	5	0	0%
JRRMCH	Sylhet	13	0	0%	5	0	0%
SBMCH	Barishal	12	0	0%	5	0	0%
CMCH	Chattogram	30	1	3%	5	0	0%
MARMCH	Dinajpur	10	0	0%	5	0	0%
		<b>125</b>	<b>1</b>	<b>0.8%</b>	<b>42</b>	<b>0</b>	<b>0%</b>

<sup>‡</sup> All SARI samples (aged ≥ 5 years) collected throughout the month from medicine and pediatrics inpatients.

<sup>‡</sup> 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**  
**April 2018**

Age groups	April 2018						Initiation - April 2018								
	SARI (aged ≥ 5 years) <sup>‡</sup>			SARI (aged < 5 years) <sup>‡</sup>			SARI (aged ≥ 5 years) <sup>‡</sup>			ILI <sup>‡</sup>			SARI (aged < 5 years) <sup>‡</sup>		
	Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %
<1 Year	-	-	-	31	0	0%	-	-	-	2665	189	7%	5176	226	4%
1-4 Years	-	-	-	11	0	0%	-	-	-	4217	601	14%	1710	180	11%
5-14 Years	20	0	0%	-	-	-	2572	505	20%	2317	547	24%	-	-	-
15-24 Years	25	0	0%	-	-	-	3151	663	21%	2167	413	19%	-	-	-
25-39 Years	24	0	0%	-	-	-	3045	583	19%	1916	299	16%	-	-	-
40-59 Years	28	0	0%	-	-	-	3414	617	18%	1245	201	16%	-	-	-
≥ 60 Years	28	1	4%	-	-	-	3504	617	18%	400	46	12%	-	-	-
	<b>125</b>	<b>1</b>	<b>0.8%</b>	<b>42</b>	<b>0</b>	<b>0%</b>	<b>15,686</b>	<b>2,985</b>	<b>19%</b>	<b>14,927</b>	<b>2,296</b>	<b>15%</b>	<b>6,886</b>	<b>406</b>	<b>6%</b>

<sup>‡</sup> All SARI samples (aged ≥ 5 years) collected throughout the month from medicine and pediatrics inpatients.

<sup>‡</sup> First five SARI (aged <5 years) collected from pediatrics inpatients. More than five SARI (aged <5 years) cases belong to the cluster.

<sup>‡</sup> Outpatient ILI surveillance discontinued in October 2017.

**Hospital based influenza surveillance**  
**Hospitalwise influenza lab results**  
**Surveillance initiation - April 2018**

Hospital	District	Initiation	Sample	Flu	Flu %	Flu A <sup>ψ</sup>	Flu B <sup>λ</sup>	Flu A+B <sup>⚭</sup>	Flu A/H1	Flu A/H3	Flu A/H5	Flu A/ (H1N1)pdm09	Flu B Yamagata lineage	Flu B Victoria lineage
DNMCH <sup>γ</sup>	Dhaka	Jun 2007	2061	312	15%	201	111	0	15	84	0	102	13	7
CBMCH <sup>γ</sup>	Mymensingh	Oct 2007	2053	302	15%	206	96	0	7	107	1	91	16	10
JIMCH	Kishoregonj	Sep 2007	4290	826	19%	558	268	0	9	309	0	239	44	54
RMCH	Rajshahi	May 2007	2645	286	11%	191	95	0	14	105	0	72	15	19
SZRMCH <sup>γ</sup>	Bogura	Sep 2007	3865	653	17%	439	213	1	12	256	0	170	29	39
LAMB <sup>†</sup>	Dinajpur	Oct 2007	1171	112	10%	72	40	0	7	41	0	24	1	0
BBMH <sup>†</sup>	Chattogram	Aug 2007	1440	157	11%	118	39	0	13	42	0	63	3	0
CoMCH	Cumilla	Oct 2007	4305	544	13%	355	187	2	9	182	0	164	24	13
KMCH	Khulna	Jul 2007	2284	309	14%	218	91	0	16	114	0	88	13	17
JGH <sup>γ</sup>	Jashore	Sep 2007	3310	608	18%	403	204	1	10	202	0	191	17	49
JRRMCH	Sylhet	Jul 2007	3131	515	16%	326	188	1	16	150	0	160	16	29
SBMCH	Barishal	Aug 2007	4639	648	14%	409	236	3	9	200	0	200	44	43
CMCH	Chattogram	Apr 2014	1345	224	17%	145	77	2	0	61	0	84	23	34
MARMCH <sup>²</sup>	Dinajpur	Apr 2014	960	191	20%	131	60	0	0	76	0	53	23	16
			<b>37,499</b>	<b>5,687</b>	<b>15%</b>	<b>3,772</b>	<b>1,905</b>	<b>10</b>	<b>137</b>	<b>1,929</b>	<b>1</b>	<b>1,701</b>	<b>281</b>	<b>330</b>

<sup>λ</sup>Influenza B typing initiated in January 2016.

<sup>ψ</sup>rRT-PCR result of four samples were equivocal positive for Influenza A.

<sup>ψ</sup>One sample collected in June 2013 and another sample collected in June 2017 were co-infected with both A(H3) and A(H1N1)pdm09.

<sup>λ</sup>Three samples were co-infected with both Influenza B (Yamagata lineage) and Influenza B (Victoria lineage), another ten samples were unsubtypeable.

<sup>⚭</sup>One sample collected in June 2017 was co-infected with both Influenza A(H1N1)pdm09 and Influenza B (Victoria lineage).

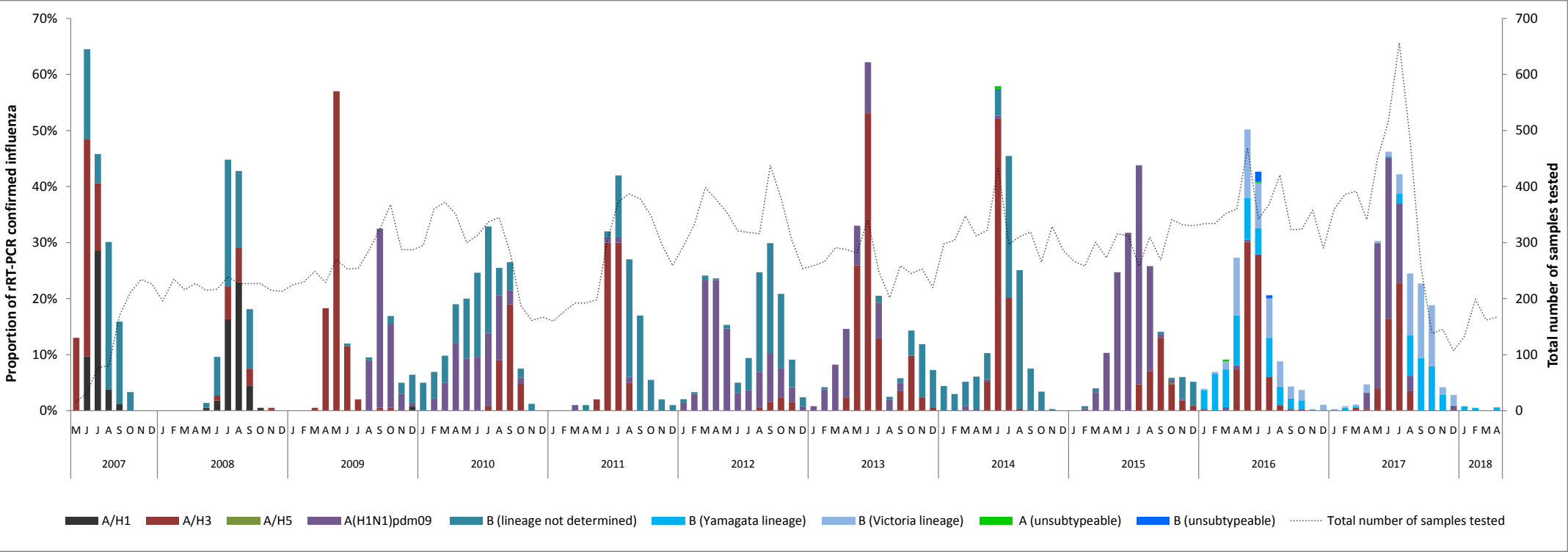
<sup>†</sup>Surveillance activities ended at LAMB (Dinajpur) and BBMH (Chittagong) in May 2016.

<sup>γ</sup>Surveillance activities ended at DNMCH (Dhaka), CBMCH (Mymensingh), SZRMCH (Bogra) and JGH (Jessore) in October 2017.

<sup>²</sup>Dinajpur Medical College Hospital (DjMCH) has been renamed as M Abdur Rahim Medical College Hospital (MARMCH)

Note: Surveillance activities extended to the intensive care units (ICU) and coronary care unit (CCU) of the participating hospitals in January 2018

Hospital based influenza surveillance  
Influenza seasonality graph  
May 2007 - April 2018



Note: Influenza B typing initiated in January 2016