



## Monthly summary report

# Hospital Based Human Influenza Surveillance in Bangladesh

**June 2018**

**Hospital based influenza surveillance**  
**Monthly enrollment by different wards (Medicine, Pediatrics, CCU and ICU)**  
**June 2018**

Hospital	District	Medicine ward			Pediatrics ward			Intensive Care Unit (ICU)			Coronary Care Unit (CCU)		
		Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %
JIMCH	Kishoregonj	23	13	57%	10	1	10%	0	0	0%	6	0	0%
RMCH	Rajshahi	11	2	18%	6	0	0%	0	0	0%	4	0	0%
CoMCH	Cumilla	7	1	14%	5	0	0%	0	0	0%	4	0	0%
KMCH	Khulna	15	4	27%	3	0	0%	0	0	0%	1	0	0%
JRRMCH	Sylhet	5	1	20%	11	1	9%	0	0	0%	3	1	33%
SBMCH	Barishal	11	0	0%	5	0	0%	0	0	0%	3	0	0%
CMCH	Chattogram	28	6	21%	5	2	40%	0	0	0%	10	1	10%
MARMCH	Dinajpur	17	2	12%	5	0	0%	0	0	0%	2	0	0%
		<b>117</b>	<b>29</b>	<b>25%</b>	<b>50</b>	<b>4</b>	<b>8%</b>	<b>0</b>	<b>0</b>	<b>0%</b>	<b>33</b>	<b>2</b>	<b>6%</b>

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

Hospital	District	Sample	Flu	Flu %	Flu A	Flu B	Flu A+B	Flu A/H1	Flu A/H3	Flu A/H5	Flu A/H7	Flu A/ (H1N1)pdm09	Flu B Yamagata lineage	Flu B Victoria lineage
JIMCH	Kishoregonj	39	14	36%	14	0	0	0	1	0	0	13	0	0
RMCH	Rajshahi	21	2	10%	2	0	0	0	0	0	0	2	0	0
CoMCH	Cumilla	16	1	6%	1	0	0	0	1	0	0	0	0	0
KMCH	Khulna	19	4	21%	3	1	0	0	2	0	0	1	1	0
JRRMCH	Sylhet	19	3	16%	1	2	0	0	0	0	0	1	2	0
SBMCH	Barishal	19	0	0%	0	0	0	0	0	0	0	0	0	0
CMCH	Chattogram	43	9	21%	6	3	0	0	3	0	0	3	3	0
MARMCH	Dinajpur	24	2	8%	2	0	0	0	0	0	0	2	0	0
		<b>200</b>	<b>35</b>	<b>17.5%</b>	<b>29</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>22</b>	<b>6</b>	<b>0</b>

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

Hospital	District	SARI (aged ≥ 5 years) <sup>‡</sup>			SARI (aged < 5 years) <sup>‡</sup>		
		Sample	Flu	Flu %	Sample	Flu	Flu %
JIMCH	Kishoregonj	34	14	41%	5	0	0%
RMCH	Rajshahi	16	2	13%	5	0	0%
CoMCH	Cumilla	11	1	0%	5	0	0%
KMCH	Khulna	16	4	25%	3	0	0%
JRRMCH	Sylhet	14	3	21%	5	0	0%
SBMCH	Barishal	14	0	0%	5	0	0%
CMCH	Chattogram	38	7	18%	5	2	40%
MARMCH	Dinajpur	19	2	11%	5	0	0%
		<b>162</b>	<b>33</b>	<b>20.4%</b>	<b>38</b>	<b>2</b>	<b>5%</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.

**Hospital based influenza surveillance**  
**Influenza results by different age groups**  
**June 2018**

Age groups	June 2018						Initiation - June 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	-	-	-	26	1	4%	-	-	-	2665	189	7%	5236	227	4%
1-4 Years	-	-	-	12	1	8%	-	-	-	4217	601	14%	1733	181	10%
5-14 Years	22	3	14%	-	-	-	2614	508	19%	2317	547	24%	-	-	-
15-24 Years	40	9	23%	-	-	-	3221	672	21%	2167	413	19%	-	-	-
25-39 Years	20	2	10%	-	-	-	3088	585	19%	1916	299	16%	-	-	-
40-59 Years	41	9	22%	-	-	-	3505	626	18%	1245	201	16%	-	-	-
≥ 60 Years	39	10	26%	-	-	-	3580	628	18%	400	46	12%	-	-	-
	<b>162</b>	<b>33</b>	<b>20%</b>	<b>38</b>	<b>2</b>	<b>5%</b>	<b>16,008</b>	<b>3,019</b>	<b>19%</b>	<b>14,927</b>	<b>2,296</b>	<b>15%</b>	<b>6,969</b>	<b>408</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 - June 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/H7	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	0	102	13	7
CBMCH <sup>γ</sup>	Mymensingh	Oct 2007	2053	302	15%	206	96	0	7	107	1	0	91	16	10
JIMCH	Kishoregonj	Sep 2007	4358	840	19%	558	268	0	9	310	0	0	252	44	54
RMCH	Rajshahi	May 2007	2695	288	11%	191	95	0	14	105	0	0	74	15	19
SZRMCH <sup>γ</sup>	Bogura	Sep 2007	3865	653	17%	439	213	1	12	256	0	0	170	29	39
LAMB <sup>†</sup>	Dinajpur	Oct 2007	1171	112	10%	72	40	0	7	41	0	0	24	1	0
BBMH <sup>†</sup>	Chattogram	Aug 2007	1440	157	11%	118	39	0	13	42	0	0	63	3	0
CoMCH	Cumilla	Oct 2007	4342	545	13%	355	187	2	9	183	0	0	164	24	13
KMCH	Khulna	Jul 2007	2320	313	13%	218	91	0	16	116	0	0	89	14	17
JGH <sup>γ</sup>	Jashore	Sep 2007	3310	608	18%	403	204	1	10	202	0	0	191	17	49
JRRMCH	Sylhet	Jul 2007	3172	518	16%	326	188	1	16	150	0	0	161	18	29
SBMCH	Barishal	Aug 2007	4684	648	14%	409	236	3	9	200	0	0	200	44	43
CMCH	Chattogram	Apr 2014	1429	234	16%	145	78	2	0	64	0	0	87	26	35
MARMCH <sup>2</sup>	Dinajpur	Apr 2014	1004	193	19%	131	60	0	0	76	0	0	55	23	16
			<b>37,904</b>	<b>5,723</b>	<b>15%</b>	<b>3,772</b>	<b>1,906</b>	<b>10</b>	<b>137</b>	<b>1,936</b>	<b>1</b>	<b>0</b>	<b>1,723</b>	<b>287</b>	<b>331</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).

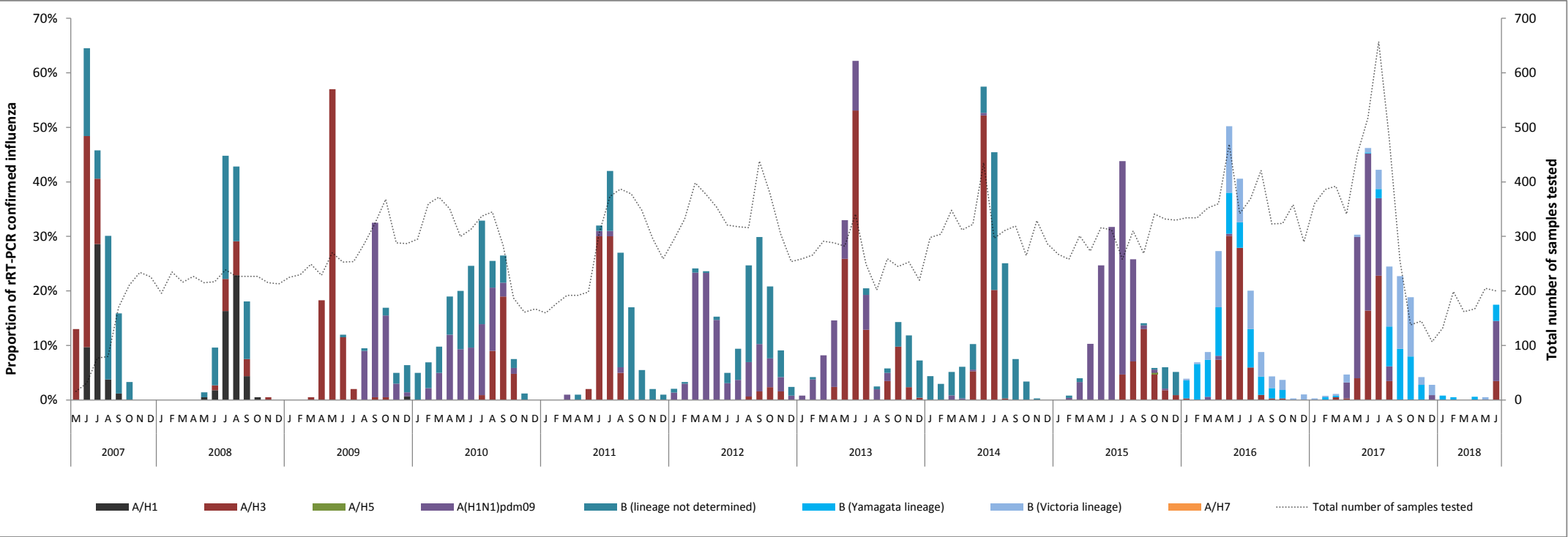
<sup>†</sup>Surveillance activities ended at LAMB (Dinajpur) and BBMH (Chittagong) in May 2016.

<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 - June 2018



Note: Influenza B typing initiated in January 2016