Hospital Based Rotavirus & Intussusception Surveillance in Bangladesh
(HBRIS)
Monthly Report, June 2017

☞ Name, location and starting month of HBRIS hospitals

Sl.no.	Name of the hospitals	Location	Surveillance start	Current status
01.	Jahurul Islam Medical College Hospital (JIMCH)	Kishoregonj	July'12	Ongoing
02.	Rajshahi Medical College Hospital (RMCH)	Rajshahi	July'12	Ongoing
03.	Jalalabad Ragib-Rabeya Medical College Hospital (JRRMCH)	Sylhet	July'12	Ongoing
04.	World Mission Prayer League (LAMB)	Dinajpur	Febuary'13	Closed in June'15
05.	Bangabandhu Memorial Hospital (BBMH)	Chittagong	Febuary'13	Ongoing
06.	Jessore General Hospital (JGH)	Jessore	August'13	Ongoing
07.	Sher-e-Bangla Medical College Hospital (SBMCH)	Barisal	August'13	Ongoing
08.	Rangpur Medical College Hospital (RpMCH)	Rangpur	January'16	Ongoing

☞ Proportion of children aged <5 years hospitalized with acute gastroenteritis (AGE) with evidence of rotavirus infection and number of intussusception cases aged <2 years during June 2017, by hospital

Hospital name	Rotavirus			Intussusception confirmed[⌖]
	AGE[¶]	Sampled[Ŧ]	Positive (%)	
RMCH	56	14	02(14%)	03
JIMCH	36	09	01(11%)	-
JRRMCH	11	03	02(67%)	01
BBMH	15	03	-	-
JGH	25	06	02(33%)	-
SBMCH	79	19	09(47%)	-
RpMCH	22	05	01(20%)	-
Cumulative Total	244	59	17(29%)	04

☞ Distribution of acute gastroenteritis (AGE), rotavirus and intussusception cases, by age group and sex, June 2017

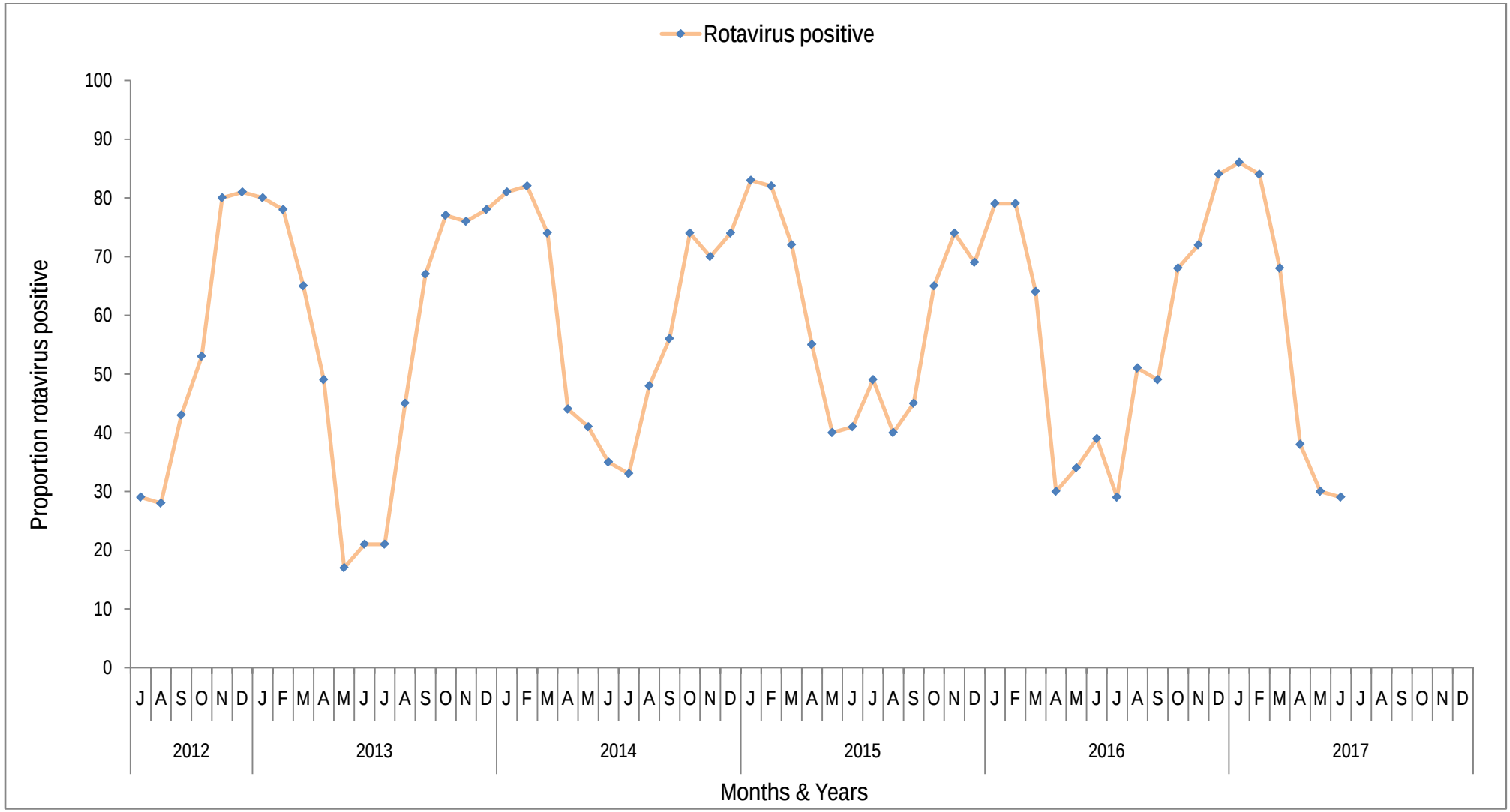
	Rotavirus			Intussusception confirmed *N=04*
	AGE *N=244*	Sampled *N=59*	Positive (%) *N=17*	
Age groups(in months)				
0-5	34	11	03(27%)	02
6-11	96	21	08(38%)	02
12-17	59	16	04(25%)	-
18-23	19	04	01(25%)	-
24-59	36	07	01(14%)	-
Male sex	164	40	12(30%)	03(75%)

¶ Acute Gastroenteritis (AGE) - ≥3 watery or looser-than-normal stools or ≥1 episode of forceful vomiting, within a 24 hour period, with symptoms lasting ≤7 days

Ŧ Every 4th suspected cases (in case of LAMB hospital every patient)

⌖ Child under 2 years who is admitted in selected hospitals & meet the Level 1 or 2 or 3, Brighton Collaboration diagnostic criteria (either by clinical/surgical and/or radiological and/or autopsy criteria)

☞ Proportion of hospitalized acute gastroenteritis cases with evidence of rotavirus infection, by months



☞ Proportion of children aged <5 years with acute gastroenteritis (AGE) with evidence of rotavirus infection including number of death and number of intussusception cases aged <2 years, by hospital
July'12- Jun'17

Hospital name	Rotavirus				Intussusception confirmed
	AGE	Sampled	Positive (%)	Rotavirus associated deaths	
RMCH	8,893	2,218	1,365(62%)	03	117
JIMCH	4,595	1,147	767(67%)	01	15
JRRMCH	5,089	1,264	834(66%)	-	40
LAMB	178	142	89(63%)	01	-
BBMH	1,590	393	260(66%)	-	06
JGH	2,510	620	349(56%)	-	01
SBMCH	5,997	1,497	970(65%)	-	25
RpMCH	1,139	281	198(70%)		07
Cumulative Total	29,991	7,562	4,832(64%)	05	211

☞ Proportion of rotavirus genotype among the rotavirus positive EIA cases, by geographic location, July 2012 to June 2017

Rotavirus genotypes	Location							Rotavirus genotype
	Dhaka	Rajshahi	Sylhet	Rangpur	Chittagong	Khulna	Barisal	n (%)
G0P0	1	-	-	-	-	1	-	02(.22)
G0P4	-	-	-	-	-	1		01(.11)
G0P6	-	-	-	-	-	1		01(.11)
G0P8	3	1	1	2	4	2	3	16 (1)
G1P0	-	-	3	-	1	-	3	07(.1)
G1P4	-	-	1	-	-	-	-	01(.11)
G1P6	-	-	-	-	-	-	1	01(.11)
G1P8	61	129	63	50	27	54	77	461(39)
G2P4	6	10	6	2	3	4	6	37(4)
G2P6	-	1	2	-	-	3	-	06(.44)
G2P8	-	-	-	1	-	-	-	01(.11)
G3P0	-	-	-	-	-	-	1	01(.11)
G3P8	9	16	4	4	-	6	9	48(2)
G9P0	-	1	1	-	-	-	-	02(.22)
G9P4	13	7	2	3	2	4	5	36(3.39)
G9P6	-	1	1	1	-	-	1	04(.33)
G9P8	11	7	27	15	14	8	14	96(9)
G12P4	-	-	-	1	-	-	1	02(.23)
G12P6	8	12	9	10	14	13	18	84 (9)
G12P8	40	21	28	18	32	8	12	159(18)
G1P4P8	-	1	-	-	1	-	1	03(.33)
G1P6P8	-	-	1	-	-	-	-	01(.11)
G1G9P8	4	1	2	1	4	-	2	14(1.58)
G2G9P4	1	-	-	-	-	-	1	02(.22)
G2G9P6	-	-	-	-	1	-	-	01(.11)
G2G9P8	3	2	5	1	1	-	1	13(1.34)
G2P4P8	2	-	-	-	1	1	1	05(.56)
G2G12P4	1	-	-	-	-	-	-	01(.11)
G9P4P8	4	1	1	-	-	1	-	07(.79)
G9P6P8	-	-	1	-	-	-	1	02(.22)
G9G12P8	2	-	1	1	3	-	-	07(.56)
G12P6P8	-	-	-	-	-	-	1	01(.11)
G1G12P0	-	1	-	-	-	1	-	02(.22)
G1G12P8	6	6	1	3	2	2	4	24(2)
G1G2G9P8	2	1	2	2	-	-	1	08(1)
G1G2P4P8	-	-	-	1	-	-	-	01(.11)
G1G2P6P8	1	-	-	-	-	-	-	01(.11)
G1G9P4P8	1	-	-	-	1	-	-	02(.22)
G1G9G12P8	2	1	-	-	-	-	-	03(.33)
G1G12P4P8	-	-	-	-	1	1	-	02(.22)
G1G12P6P8	-	-	-	-	-	-	1	01(.11)
G1G2G9P4P8	1	-	-	-	-	-	-	01(.11)
G1G2G9P6P8	-	-	1	-	-	-	-	01(.11)
G2G12P6P8	-	-	-	-	1	-	-	01(.11)
G2G9P4P8	-	1	-	-	2	-	1	04(.44)
G9G12P6P8	1	1	-	-	-	-	-	02(.22)
G1G2G12P6P8	-	-	-	-	-	-	1	01(.11)
G1G9G12P6P8	-	-	-	-	-	1	-	01(.11)
G9G12P4P6P8	-	-	-	1	-	-	-	01(.11)
G12P4P6P8	-	-	1	-	-	-	-	01(..09)
Selected for **genotyping∞**	183	222	164	117	115	111	168	1,080 (100%)

∞ Randomely selected from rotavirus positive cases by location and age group