



Hospital Based Rotavirus Surveillance in Children < 5 years of age and  
Intussusception Surveillance in Children < 2 years of age (HBRIS) in Bangladesh

Monthly Report, June 2024



◆ Name, location and starting month of HBRIS hospitals

Sl. No.	Name of the Hospitals	Location	Surveillance start	Current status
01.	Rajshahi Medical College Hospital (RMCH)	Rajshahi	July'12	Ongoing
02.	Jahurul Islam Medical College Hospital (JIMCH)	Kishoregonj	July'12	Ongoing
03.	Jalalabad Ragib-Rabeya Medical College Hospital (JRRMCH)	Sylhet	July'12	Ongoing
04.	World Mission Prayer League (LAMB)	Dinajpur	February'13	Closed in June'15
05.	Bangabandhu Memorial Hospital (BBMH)	Chattogram	February'13	Closed in Septemer'19
06.	Jashore General Hospital (Jashore)	Jashore	August'13	Ongoing
07.	Sher-e- Bangla Medical College Hospital (SBMCH)	Barishal	August'13	Ongoing
08.	Rangpur Medical College Hospital (RpMCH)	Rangpur	January'16	Ongoing
09.	Chattogram Medical College Hospital (CMCH)	Chattogram	Septemer'19	Ongoing

◆ Proportion of children aged <5 years hospitalized with acute gastroenteritis (AGE) with evidence of rotavirus infection during June 2024 by hospital

Hospital Name	Rotavirus		
	AGE*	Sampled	Positive (%)
RMCH	64	15	3(20.00)
JIMCH	48	12	3(25.00)
JRRMCH	24	6	1(16.67)
JGH	23	6	3(50.00)
SBMCH	136	34	27(79.41)
RpMCH	48	12	6(50.00)
CMCH	76	19	9(47.37)
<b>Cumulative Total</b>	<b>419</b>	<b>104</b>	<b>52(50.00)</b>

◆ Number of intussusception cases aged <2 years during June 2024 by hospital

Hospital Name	Intussusception confirmed***
RMCH	1
JIMCH	1
JRRMCH	0
JGH	1
SBMCH	1
RpMCH	0
CMCH	6
<b>Cumulative Total</b>	<b>10</b>

◆ Distribution of acute gastroenteritis (AGE) & rotavirus cases by age group during June 2024

Age group (in months)	Rotavirus		
	AGE (N=419)	Sampled (N=104)	Positive (%) (N=52)
0-5	46	13	7(53.85)
6-11	173	47	25(53.19)
12-17	109	28	12(42.86)
18-23	34	6	4(66.67)
24-59	27	10	4(40.00)
<b>Cumulative Total</b>	<b>419</b>	<b>104</b>	<b>52(50.00)</b>

\*Acute Gastroenteritis (AGE)-  $\geq 3$  watery or looser than normal or  $\geq 1$  episode of forceful vomiting within a 24-hour period, with symptoms lasting  $\leq 7$  days. \*\*Every 4th suspected case (in case of LAMB hospital every case). \*\*\*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).

◆ Distribution of intussusception cases by age group during June 2024

Age group (in months)	Intussusception confirmed
0-5	3
6-11	2
12-17	2
18-23	2
24-59	1
<b>Cumulative Total</b>	<b>10</b>

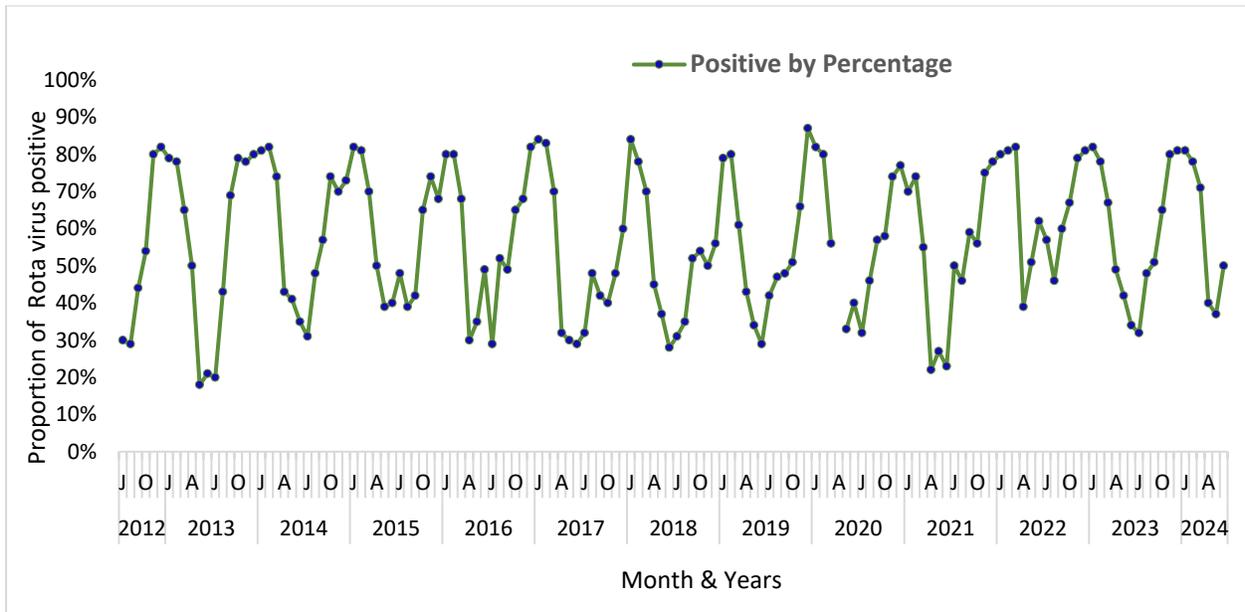
◆ Distribution of acute gastroenteritis (AGE) and rotavirus cases by sex during June 2024

Sex	AGE	Sampled	Positive (%)
Male	241	63	33(52.38)
Female	178	41	19(46.34)

◆ Distribution of intussusception cases by sex during June 2024

Sex	Intussusception confirmed
Male	8
Female	2

◆ Proportion of hospitalized acute gastroenteritis cases with evidence of rotavirus infection, by months and years



HBRIS activities has been postponed during the period of 1<sup>st</sup> April 2020 to 15<sup>th</sup> May 2020 due to Pandemic COVID-19

◆ Number of children aged < 5 years with acute gastroenteritis (AGE) with evidence of rotavirus positivity by hospital (January '24 to June'24)

Hospital	RMCH		JIMCH		JRRMCH		JGH		SBMCH		RpMCH		CMCH		Total Cases		
	Sampled	Positive	Sampled	Positive	%												
Jan'24	26	21	21	17	12	10	23	20	34	27	36	28	35	29	187	152	81.28
Feb'24	29	23	18	16	8	4	25	19	34	23	37	33	31	24	182	142	78.02
Mar'24	32	21	20	14	9	7	27	22	31	21	32	26	26	14	177	125	70.62
Apr'24	24	10	12	3	8	3	16	8	35	19	24	7	25	7	144	57	39.58
May'24	24	7	12	4	6	0	10	5	31	23	19	2	25	6	127	47	37.01
Jun'24	15	3	12	3	6	1	6	3	34	27	12	6	19	9	104	52	50.00
Total	150	85	95	57	49	25	107	77	199	140	160	102	161	89	921	575	62.43

◆ Proportion of children aged < 5 years with acute gastroenteritis (AGE) with evidence of rotavirus infection including number of deaths by hospital July'12 to June '24

Hospital Name	Rotavirus			
	AGE	Sampled	Positive (%)	Rotavirus associated deaths
RMCH	18013	4408	2677(61%)	3
JIMCH	10581	2633	1704(65%)	1
JRRMCH	8903	2207	1444(65%)	-
LAMB	178	142	95(63%)	1
BBMH	2155	532	335(63%)	-
JGH	6966	1750	1057(60%)	-
SBMCH	14850	3723	2400(64%)	-
RpMCH	6127	1532	936(61%)	-
CMCH	4936	1232	743(60%)	-
Cumulative Total	72709	18162	10984(60%)	5**

\*\* Last Rota associated death case was reported in 2015.

◆ Number of intussusception cases aged < 2 years by hospital July'12 to June '24

Hospital Name	Intussusception confirmed
RMCH	288
JIMCH	32
JRRMCH	68
LAMB	-
BBMH	10
JGH	12
SBMCH	63
RpMCH	95
CMCH	256
Cumulative Total	862