



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

Monthly Report, September 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 September 2024 by hospital

Hospital Name	Rotavirus		
	AGE*	Sampled	Positive (%)
RMCH	68	17	3(17.65)
JIMCH	44	11	9(81.82)
JRRMCH	32	8	5(62.50)
JGH	43	10	4(40.00)
SBMCH	120	30	22(73.33)
RpMCH	52	13	2(15.38)
CMCH	128	32	20(62.50)
Cumulative Total	487	121	65(53.72)

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

Hospital Name	Intussusception confirmed***
RMCH	0
JIMCH	0
JRRMCH	0
JGH	0
SBMCH	0
RpMCH	2
CMCH	1
Cumulative Total	3

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

Age group (in months)	Rotavirus		
	AGE (N=487)	Sampled (N=121)	Positive (%) (N=65)
0-5	69	21	13(61.90)
6-11	166	49	24(48.98)
12-17	119	29	19(65.52)
18-23	56	9	5(55.56)
24-59	77	13	4(30.77)
Cumulative Total	487	121	65(53.72)

*Acute Gastroenteritis (AGE)- ≥ 3 watery or looser than normal or ≥ 1 episode of forceful vomiting within a 24-hour period, with symptoms lasting ≤ 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 September 2024

Age group (in months)	Intussusception confirmed
0-5	1
6-11	1
12-17	0
18-23	1
24-59	0
Cumulative Total	3

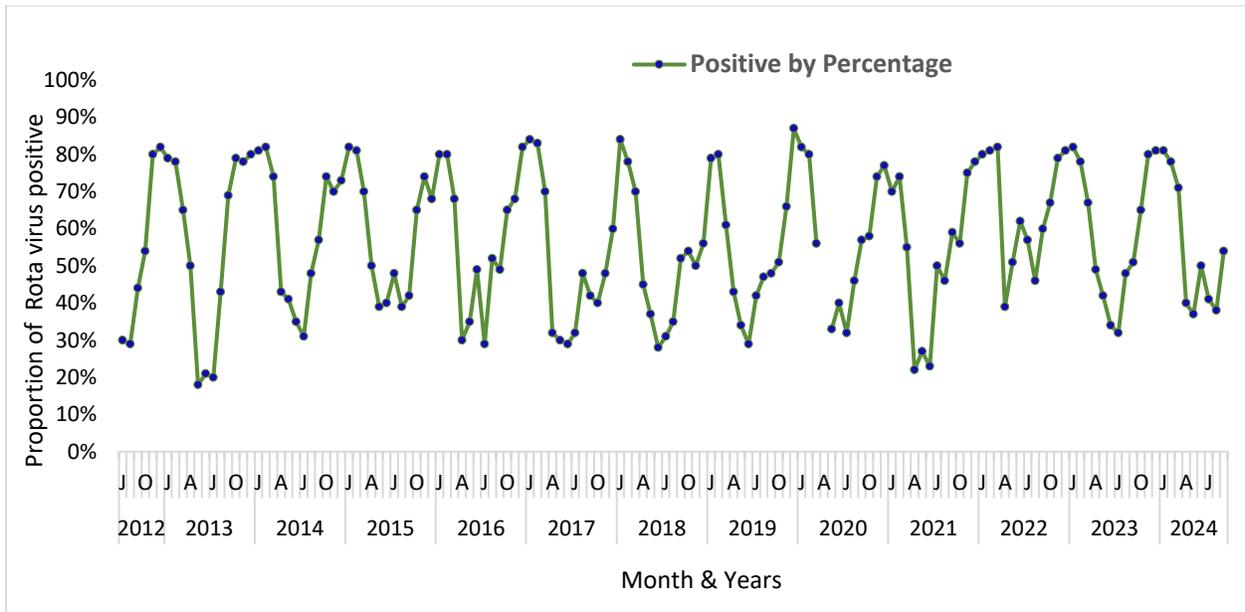
◆ Distribution of acute gastroenteritis (AGE) and rotavirus cases by sex during September 2024

Sex	AGE	Sampled	Positive (%)
Male	314	77	41(53.25)
Female	173	44	24(54.55)

◆ Distribution of intussusception cases by sex during September 2024

Sex	Intussusception confirmed
Male	1
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 1st April 2020 to 15th 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 September'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
Jul'24	15	5	11	7	6	2	4	2	15	7	11	0	20	11	82	34	41.46
Aug'24	16	3	12	5	7	4	6	0	16	11	9	1	24	10	90	34	37.78
Sep'24	17	3	11	9	8	5	10	4	30	22	13	2	32	20	121	65	53.72
Total	198	96	129	78	70	36	127	83	260	180	193	105	237	130	1214	708	58.31

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

Hospital Name	Rotavirus			
	AGE	Sampled	Positive (%)	Rotavirus associated deaths
RMCH	18205	4456	2688(60%)	3
JIMCH	10713	2667	1725(65%)	1
JRRMCH	8983	2228	1455(65%)	-
LAMB	178	142	95(63%)	1
BBMH	2155	532	335(63%)	-
JGH	7043	1770	1063(60%)	-
SBMCH	15090	3784	2440(64%)	-
RpMCH	6267	1565	939(60%)	-
CMCH	5224	1308	784(60%)	-
Cumulative Total	73858	18452	11117(60%)	5**

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

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

Hospital Name	Intussusception confirmed
RMCH	291
JIMCH	34
JRRMCH	69
LAMB	-
BBMH	10
JGH	12
SBMCH	64
RpMCH	99
CMCH	260
Cumulative Total	877