



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

Monthly Report, July 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 July 2024 by hospital

Hospital Name	Rotavirus		
	AGE*	Sampled	Positive (%)
RMCH	62	15	5(33.33)
JIMCH	44	11	7(63.64)
JRRMCH	24	6	2(33.33)
JGH	17	4	2(50.00)
SBMCH	60	15	7(46.67)
RpMCH	44	11	0(0)
CMCH	80	20	11(55.00)
Cumulative Total	331	82	34(41.46)

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

Hospital Name	Intussusception confirmed***
RMCH	1
JIMCH	1
JRRMCH	0
JGH	0
SBMCH	0
RpMCH	2
CMCH	1
Cumulative Total	5

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

Age group (in months)	Rotavirus		
	AGE (N=331)	Sampled (N=82)	Positive (%) (N=34)
0-5	43	11	6(54.55)
6-11	118	29	11(37.93)
12-17	72	25	13(52.00)
18-23	40	7	3(42.86)
24-59	58	10	1(10.00)
Cumulative Total	331	82	34(41.46)

*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 July 2024

Age group (in months)	Intussusception confirmed
0-5	1
6-11	2
12-17	2
18-23	0
24-59	0
Cumulative Total	5

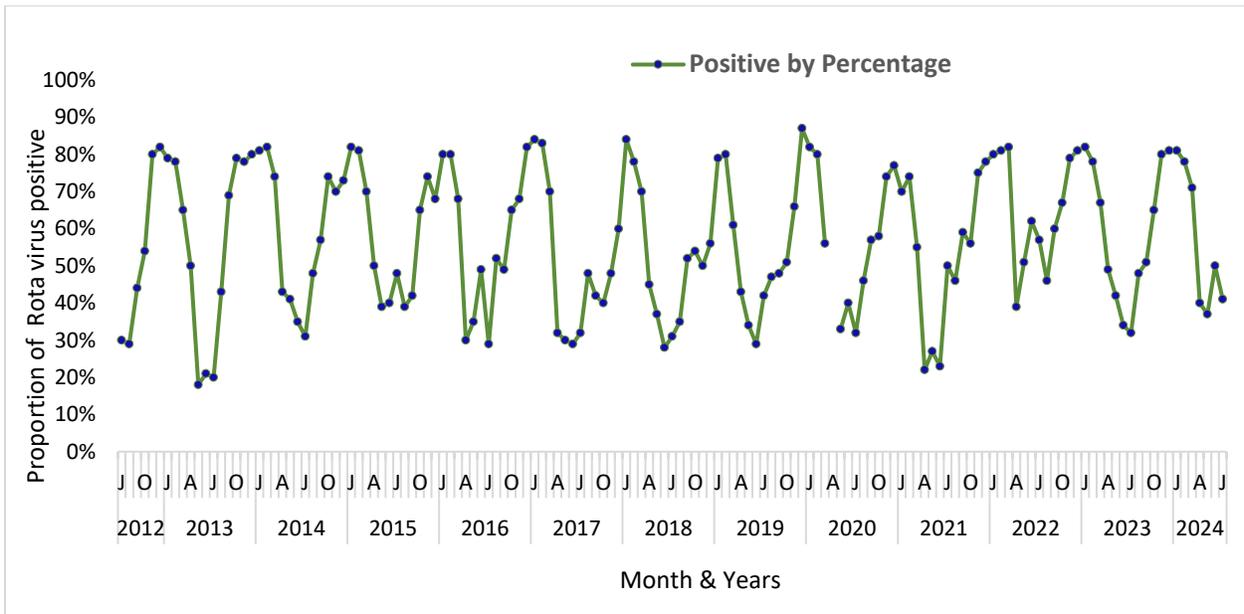
◆ Distribution of acute gastroenteritis (AGE) and rotavirus cases by sex during July 2024

Sex	AGE	Sampled	Positive (%)
Male	188	47	19(40.43)
Female	143	35	15(42.86)

◆ Distribution of intussusception cases by sex during July 2024

Sex	Intussusception confirmed
Male	5
Female	0

◆ 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 July'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
Total	165	90	106	64	55	27	111	79	214	147	171	102	181	100	1003	609	60.71

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

Hospital Name	Rotavirus			
	AGE	Sampled	Positive (%)	Rotavirus associated deaths
RMCH	18075	4423	2682(61%)	3
JIMCH	10625	2644	1711(65%)	1
JRRMCH	8927	2213	1446(65%)	-
LAMB	178	142	95(63%)	1
BBMH	2155	532	335(63%)	-
JGH	6983	1754	1059(60%)	-
SBMCH	14910	3738	2407(64%)	-
RpMCH	6171	1543	936(61%)	-
CMCH	5016	1252	754(60%)	-
Cumulative Total	73040	18244	11018(60%)	5**

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

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

Hospital Name	Intussusception confirmed
RMCH	289
JIMCH	33
JRRMCH	68
LAMB	-
BBMH	10
JGH	12
SBMCH	63
RpMCH	97
CMCH	257
Cumulative Total	867