



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

Monthly Report, November 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 November 2024 by hospital

Hospital Name	Rotavirus		
	AGE*	Sampled	Positive (%)
RMCH	96	24	20(83.33)
JIMCH	100	25	21(84.00)
JRRMCH	40	10	9(90.00)
JGH	93	24	17(70.83)
SBMCH	116	29	25(86.21)
RpMCH	68	17	13(76.47)
CMCH	112	28	20(71.43)
Cumulative Total	625	157	125(79.62)

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

Hospital Name	Intussusception confirmed***
RMCH	0
JIMCH	0
JRRMCH	0
JGH	0
SBMCH	0
RpMCH	2
CMCH	4
Cumulative Total	6

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

Age group (in months)	Rotavirus		
	AGE (N=625)	Sampled (N=157)	Positive (%) (N=125)
0-5	55	14	14(100)
6-11	254	71	61(85.92)
12-17	174	50	36(72.00)
18-23	57	9	5(55.56)
24-59	83	13	9(69.23)
Cumulative Total		157	125(79.62)

*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 November 2024

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

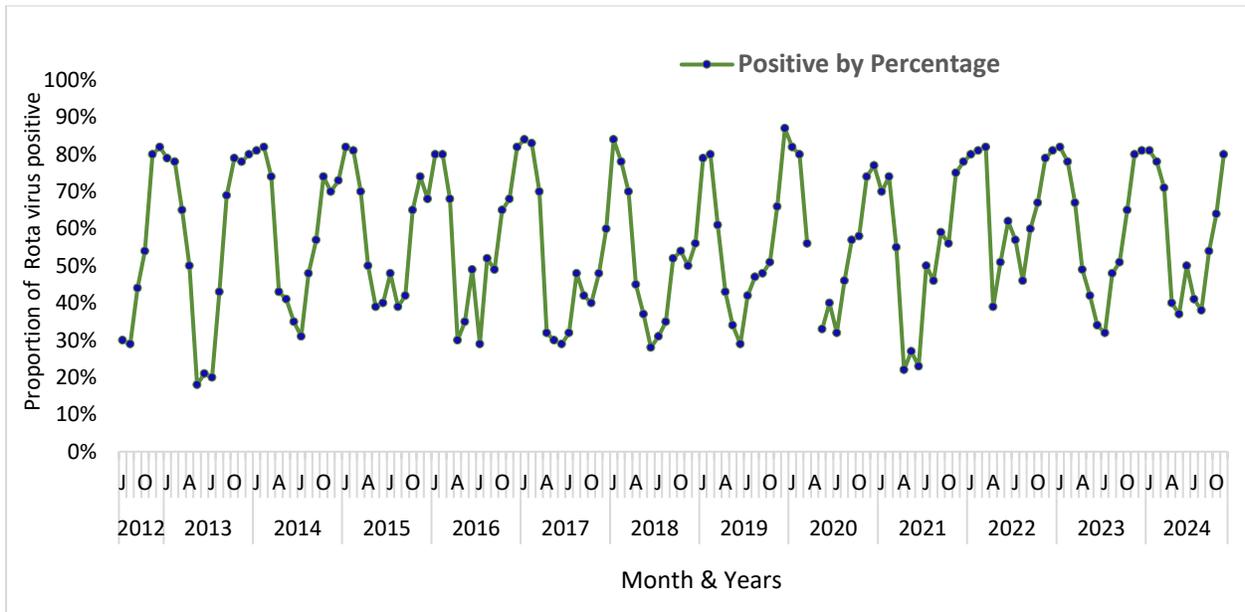
◆ Distribution of acute gastroenteritis (AGE) and rotavirus cases by sex during November 2024

Sex	AGE	Sampled	Positive (%)
Male	398	101	84(83.71)
Female	227	56	41(73.21)

◆ Distribution of intussusception cases by sex during November 2024

Sex	Intussusception confirmed
Male	3
Female	3

◆ 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 November '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
Oct'24	17	8	23	18	9	5	13	9	30	20	10	5	27	18	129	83	64.34
Nov'24	24	20	25	21	10	9	24	17	29	25	17	13	28	20	157	125	79.62
Total	239	124	177	117	89	50	164	109	319	225	220	121	282	168	1500	916	61.06

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

Hospital Name	Rotavirus			
	AGE	Sampled	Positive (%)	Rotavirus associated deaths
RMCH	18369	4497	2716(60%)	3
JIMCH	10905	2715	1764(65%)	1
JRRMCH	9059	2247	1469(65%)	-
LAMB	178	142	95(63%)	1
BBMH	2155	532	335(63%)	-
JGH	7188	1806	1089(60%)	-
SBMCH	15326	3843	2485(65%)	-
RpMCH	6375	1592	957(60%)	-
CMCH	5444	1363	822(60%)	-
Cumulative Total	74999	18741	11325(60%)	5**

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

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

Hospital Name	Intussusception confirmed
RMCH	293
JIMCH	34
JRRMCH	70
LAMB	-
BBMH	10
JGH	12
SBMCH	64
RpMCH	102
CMCH	265
Cumulative Total	888