



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

Monthly Report, October 2023



◆ 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 October 2023 by hospital

Hospital Name	Rotavirus		
	AGE*	Sampled	Positive (%)
RMCH	66	16	9(56.25)
JIMCH	56	14	10(71.43)
JRRMCH	24	6	4(66.67)
JGH	44	11	7(63.64)
SBMCH	96	24	16(66.67)
RpMCH	28	7	6(85.71)
CMCH	88	22	13(59.09)
Cumulative Total	402	100	65(65.00)

◆ Number of intussusception cases aged <2 years during October 2023 by hospital

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

◆ Distribution of acute gastroenteritis (AGE) & rotavirus cases by age group during October 2023

Age group (in months)	Rotavirus		
	AGE (N=402)	Sampled (N=100)	Positive (%) (N=65)
0-5	30	6	3(50.00)
6-11	157	41	27(65.85)
12-17	91	26	19(73.08)
18-23	45	14	9(64.29)
24-59	79	13	7(53.85)
Cumulative Total	402	100	65(65.00)

*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 October 2023

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

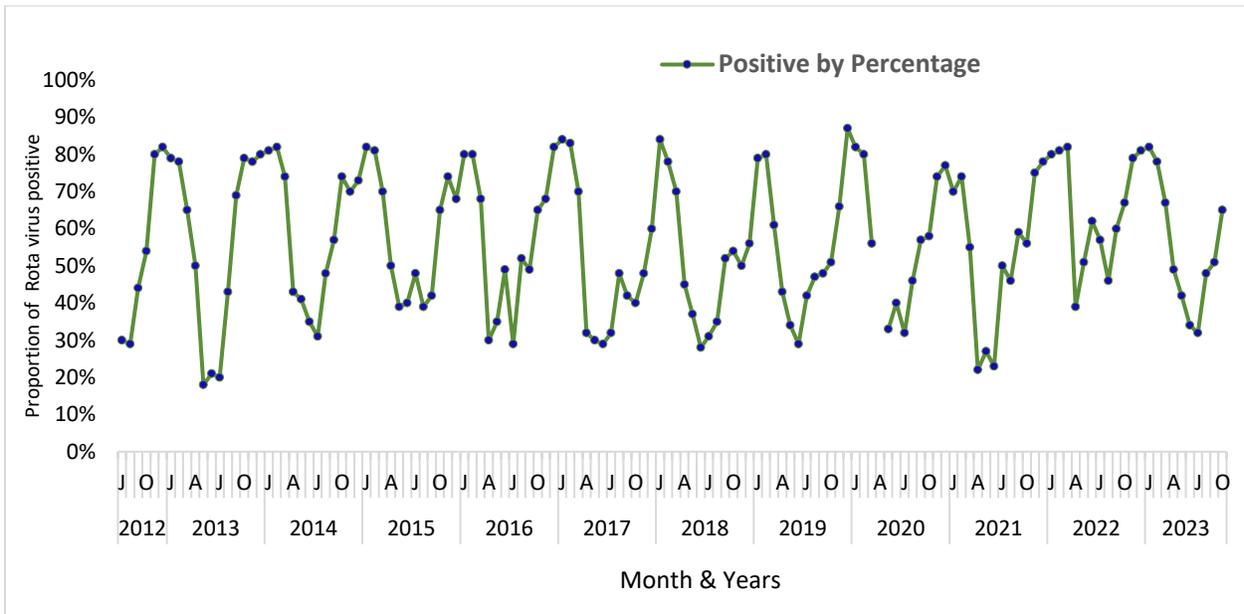
◆ Distribution of acute gastroenteritis (AGE) and rotavirus cases by sex during October 2023

Sex	AGE	Sampled	Positive (%)
Male	252	64	40(62.50)
Female	150	36	25(69.44)

◆ Distribution of intussusception cases by sex during October 2023

Sex	Intussusception confirmed
Male	3
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 '23 to October '23)

Hospital	RMCH		JIMCH		JRRMCH		JGH		SBMCH		RpMCH		CMCH		Total Cases		
	Sampled	Positive	Sampled	Positive	%												
Jan'23	29	27	23	18	13	6	35	29	30	24	31	26	36	31	197	161	81.73
Feb'23	20	17	21	16	10	8	24	18	29	21	32	26	16	13	152	119	78.29
Mar'23	18	13	13	10	9	5	31	24	32	20	25	16	22	13	150	101	67.33
Apr'23	17	11	11	4	5	2	15	6	25	15	13	6	21	8	107	52	48.60
May'23	15	6	10	4	5	1	12	6	33	22	12	3	30	7	117	49	41.88
June'23	10	2	12	5	2	0	8	2	26	13	11	1	14	5	83	28	33.73
July'23	12	7	11	7	5	1	5	1	27	3	10	3	20	7	90	29	32.22
Aug'23	15	5	10	4	5	1	5	3	31	16	9	3	26	16	101	48	47.50
Sep'23	12	2	13	12	5	2	5	0	20	15	9	3	20	9	84	43	51.19
Oct'23	16	9	14	10	6	4	11	7	24	16	7	6	22	13	100	65	65.00
Total	164	99	138	90	65	30	148	96	277	165	159	93	227	122	1181	695	58.84

◆ Proportion of children aged < 5 years with acute gastroenteritis (AGE) with evidence of rotavirus infection including number of deaths by hospital July'12 to October '23

Hospital Name	Rotavirus			
	AGE	Sampled	Positive (%)	Rotavirus associated deaths
RMCH	17296	4225	2562(61%)	3
JIMCH	10000	2495	1602(64%)	1
JRRMCH	8620	2137	1403(66%)	-
LAMB	178	142	95(63%)	1
BBMH	2155	532	335(63%)	-
JGH	6404	1608	945(59%)	-
SBMCH	13836	3464	2213(64%)	-
RpMCH	5320	1324	797 (60%)	-
CMCH	4068	1011	598 (59%)	-
Cumulative Total	65294	16932	10160 (60%)	5**

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

◆ Number of intussusception cases aged < 2 years by hospital July'12 to October '23

Hospital Name	Intussusception confirmed
RMCH	278
JIMCH	27
JRRMCH	68
LAMB	-
BBMH	10
JGH	8
SBMCH	54
RpMCH	92
CMCH	209
Cumulative Total	785