



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

Monthly Report, December 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 December 2024 by hospital

Hospital Name	Rotavirus		
	AGE*	Sampled	Positive (%)
RMCH	84	21	18(85.71)
JIMCH	76	19	17(89.47)
JRRMCH	40	10	9(90.00)
JGH	76	19	14(73.68)
SBMCH	96	24	20(83.33)
RpMCH	80	20	16(80.00)
CMCH	104	26	22(84.62)
<b>Cumulative Total</b>	<b>556</b>	<b>139</b>	<b>116(83.45)</b>

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

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

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

Age group (in months)	Rotavirus		
	AGE (N=556)	Sampled (N=139)	Positive (%) (N=116)
0-5	61	21	16(76.19)
6-11	202	62	55(88.71)
12-17	171	36	30(83.33)
18-23	68	15	10(66.67)
24-59	54	5	5(100.00)
<b>Cumulative Total</b>	<b>556</b>	<b>139</b>	<b>116(83.45)</b>

\*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 December 2024

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

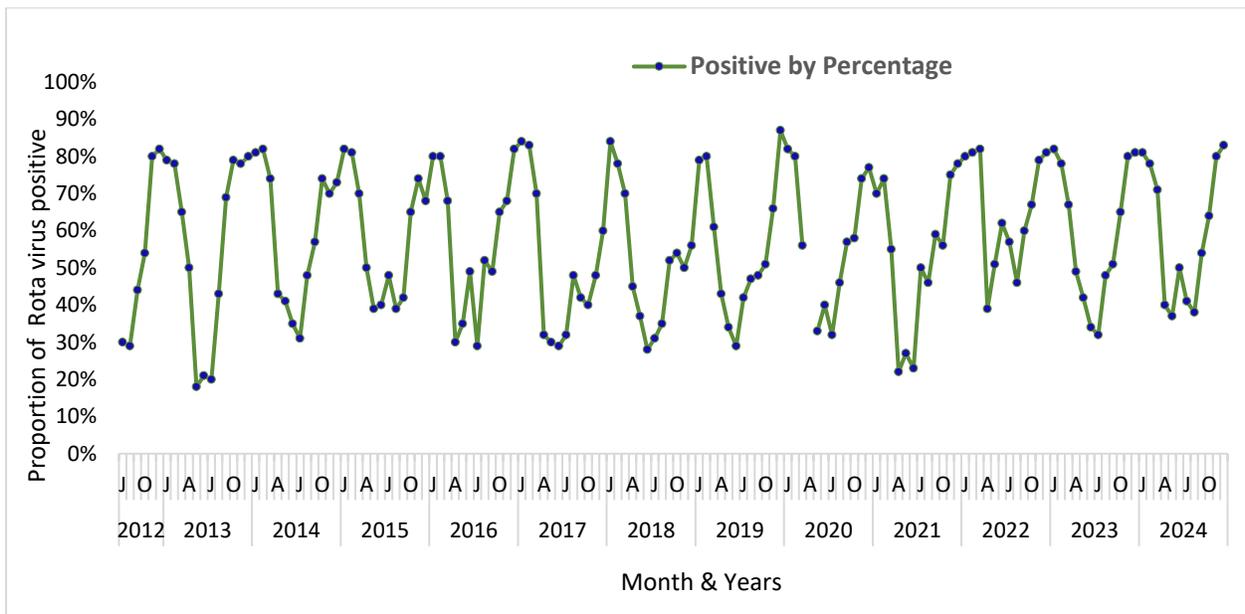
◆ Distribution of acute gastroenteritis (AGE) and rotavirus cases by sex during December 2024

Sex	AGE	Sampled	Positive (%)
Male	365	92	75 (81.52)
Female	191	47	41(87.23)

◆ Distribution of intussusception cases by sex during December 2024

Sex	Intussusception confirmed
Male	0
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 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 December '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
Dec'24	21	18	19	17	10	9	19	14	24	20	20	16	26	22	139	116	83.45
Total	260	142	196	134	99	59	183	123	343	245	240	137	308	190	1639	1032	62.96

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

Hospital Name	Rotavirus			
	AGE	Sampled	Positive (%)	Rotavirus associated deaths
RMCH	18453	4518	2734(61%)	3
JIMCH	10981	2734	1781(65%)	1
JRRMCH	9099	2257	1478(65%)	-
LAMB	178	142	95(63%)	1
BBMH	2155	532	335(63%)	-
JGH	7264	1825	1103(60%)	-
SBMCH	15422	3867	2505(65%)	-
RpMCH	6455	1612	973(60%)	-
CMCH	5548	1389	844(61%)	-
Cumulative Total	75555	18880	11441(61%)	5**

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

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