

National Thalassemia Survey-2024

Key Findings

Electrophoresis Test Results

Percentage Distribution of Hemoglobin Electrophoresis Test Results

Blood Sample	Total
Normal	89.6
Abnormal	11.4

Percentage Distribution of Hemoglobinopathies by Locality & Division

Division	Locality		Total
	Rural	Urban	
Barishal	7.3	5.7	7.0
Chattogram	11.9	11.0	11.6
Dhaka	8.4	10.0	9.0
Khulna	9.1	6.5	8.7
Mymensingh	9.2	8.5	9.1
Rajshahi	11.3	10.9	11.2
Rangpur	27.7	23.8	26.7
Sylhet	5.2	4.8	5.2
Total	11.6	11.1	11.4

Percentage Distribution of Hemoglobinopathies by Sex and Division

Division	Sex		Total
	Male	Female	
Barishal	6.6	7.2	7.0
Chattogram	11.9	11.4	11.6
Dhaka	9.2	8.9	9.0

Khulna	8.1	9.0	8.7
Mymensingh	9.3	8.9	9.1
Rajshahi	11.2	11.2	11.2
Rangpur	27.5	26.1	26.7
Sylhet	3.3	6.4	5.2
Total	11.7	11.3	11.4

Percentage Distribution of Hemoglobinopathies by Sex and Locality

Hemoglobinopathies	Sex			Locality		
	Male	Female	Total	Rural	Urban	Total
Beta Thalassemia Trait	19.5	18	18.6	18.2	19.6	18.6
Hb E Trait	64.9	66.3	65.8	66.7	63.3	65.8
Hb D Trait	3.3	1.7	2.3	2.6	1.7	2.3
E Disease	5.9	3.9	4.7	5.1	3.5	4.7
Hb E/Beta Thalassemia	0.7	0	0.3	0.4	0	0.3
Low Hb A2	4.9	7.4	6.5	5	10.3	6.5
Sickle Cell Trait	0	0.9	0.6	0.8	0.1	0.6
Raised Hb F	0.4	1.5	1.1	1.2	0.6	1.1
DE Disease	0.3	0.2	0.3	0	0.9	0.3
Total	100	100	100	100	100	100

Percentage Distribution of Hemoglobin Electrophoresis Results by Variants & Division

Variants	Barishal	Chattogram	Dhaka	Khulna	Mymensingh	Rajshahi	Rangpur	Sylhet	Total
HbA									
<Reference value	6.4	10.4	7.8	8.2	8.9	10.3	23.8	4.3	10.3

HbF									
>Reference value	0.8	0.8	0.9	1.0	1.2	1.0	5.0	0.7	1.4
HbE									
Carrier	3.9	7.8	5.4	4.8	6.6	8.3	24.5	2.8	8.2
HbD									
Carrier	0.0	0.6	0.5	0.0	0.2	0.2	0.0	0.0	0.3
HbS									
Carrier	0.1	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.0
HbA2									
Carrier	6.2	10.2	7.5	8.1	8.9	9.4	25.3	4.0	10.2
Thalassemia carrier - Results of any of the six variants									
Carrier	7.3	11.2	8.6	8.6	9.8	11.3	27.7	4.8	11.4

Percentage Distribution of Hepatitis B Screening Test Results by Sex

Hepatitis B Screening Test	Male (%)	Female (%)	Total (%)
Positive	1.3	1.1	1.2

Percentage Distribution of Hepatitis B Screening Test Results by Locality

Hepatitis B Screening Test	Rural (%)	Urban (%)	Total (%)
Positive	1.0	1.4	1.2

Percentage Distribution of Hepatitis B Screening Test Results by Division

Division	Barishal	Chattogram	Dhaka	Khulna	Mymensingh	Rajshahi	Rangpur	Sylhet	Total
Positive (%)	2.2	2.2	1.3	0.7	0.5	0.3	0.8	0.7	1.2

Percentage Distribution of Hepatitis C Screening Test Results (National)

Hepatitis C Screening Test Results: 0.05% Positive

Perception of Thalassemia

Perception of Thalassemia by Locality			
	Locality (%)		
Q: Do you know/have you ever heard of Thalassemia?	Rural	Urban	Total
Yes	12.2	32.8	18.4
No	87.8	67.2	81.6

Perception of Thalassemia by Sex			
	Sex (%)		
Q: Do you know/ have you ever heard of Thalassemia?	Male	Female	Total
Yes	22.1	14.0	18.4
No	77.9	86.0	81.6

Perception of Thalassemia by Division									
Q: Do you know/have you ever heard of Thalassemia?	Division (%)								
	<i>Barishal</i>	<i>Chattogram</i>	<i>Dhaka</i>	<i>Khulna</i>	<i>Mymensingh</i>	<i>Rajshahi</i>	<i>Rangpur</i>	<i>Sylhet</i>	<i>Total</i>
Yes	33.6	15.0	23.5	13.8	6.4	17.0	16.6	15.7	18.4
No	66.4	85.0	76.5	86.2	93.6	83.0	83.4	84.3	81.6

Percentage distribution of population ever been Tested for Thalassemia by Locality			
	Locality (%)		
	Rural	Urban	Total
Yes	5.4	2.8	4.0
No	94.6	97.2	96.0

Percentage distribution of population ever been Tested for Thalassemia by Sex			
	Sex (%)		
	Male	Female	Total
Yes	4.9	2.3	4.0
No	95.1	97.7	96.0

Percentage distribution of population ever been Tested for Thalassemia by Division									
	Division								
	<i>Barishal</i>	<i>Chattogram</i>	<i>Dhaka</i>	<i>Khulna</i>	<i>Mymensingh</i>	<i>Rajshahi</i>	<i>Rangpur</i>	<i>Sylhet</i>	<i>Total</i>
Yes	1.3	2.5	5.9	1.1	1.2	2.1	6.7	8.9	4.0
No	98.7	97.5	94.1	98.9	98.8	97.9	93.3	91.1	96.0