

# DEPARTMENT OF CLINICAL HAEMATOLOGY

*S.C.B Medical College & Hospital, Cuttack-753007*

## 1. Faculty Position

Prof. Rabindra Kumar Jena	Prof. & Head Dept. of Clinical Hematology S.C.B. Medical College & Hospital, Cuttack
Prof. Upendra Nayak	Appointed as Associate Professor on contractual basis vide Govt. order no. Dept. of Clinical Hematology S.C.B. Medical College & Hospital, Cuttack
Dr. Sudha Sethy	Asst. Professor Dept. of Clinical Hematology S.C.B. Medical College & Hospital, Cuttack
Dr. Rajeeb Kumar Nayak	Assistant Professor Dept. of Clinical Hematology S.C.B. Medical College & Hospital, Cuttack
Dr. Ashutosh Panigrahi	Senior Resident Dept. of Clinical Hematology S.C.B. Medical College & Hospital, Cuttack

## 2. INFRASTRUCTURE

1. Indoor bed strength : 20 beds (10 Male & 10 Female Beds) - 4000 Sq.ft.
  2. Day Care Centre : 10 beds - 2000 Sq.ft
  3. Laboratory (detail equipments annexed) - 3000 Sq.ft
  4. Bone Marrow Transplant Unit - 3000 Sq. ft, 2 BMT Rooms , Aphaeresis etc.
  5. Dept. Library and Seminar hall - 1000 Sq.ft
- Total Floor area - 13000 Sq.ft**

## 3. Equipments -

Sl. No	Equipment	No of Equipment	Manufacture
1.	BD Facs Canto (Flow cytometer)	One	Becton Dickenson
2.	Automated Capillary Zone electrophoresis analyser (both Hb, Serum Electrophoresis and Immuno typing)	One	Minicap, Sebia
3.	5 Part Cell Counter with reticulocyte count 2000i	One	Sysmex
4.	Automated Coagulometer CA -530	One	Sysmex

5.	Nephelometer, Binding site (Nephloplus)	One	Mediate
6.	Scientific research Microscope with photography and computer system	One	Leica
7.	Binocular Microscope (Motic)	Ten	Motic
8.	Deep Freezer (-100°C)	one	
9.	Computer	Three	HCL
10.	Refrigerator (2- 8°C)	Four	LG
11.	Incubator	Two	
12.	Hot Water bath	Two	
13.	ESR tube	Fifty	
14.	Centrifuge machine	Two	
15.	Bone Marrow Aspiration & Biopsy	Thirty	
16.	Cobe Spectra Apheresis machine	One	
17.	Liquid Nitrogen system with two tank	One	
18.	Tube Sealar	One	
19.	Plat let agitator with incubater	One	
20.	Control Rate freezer(0 to -90°C)	One	
21.	Multiparameter Monitor	Three	
22.	Pulse oxymeter	Three	
23.	Laminar Flow	One	
24.	BP Instrument	Ten	
25.	Shaker	One	
26.	Cyclomixture	One	
27.	Thermal Printer	Four	
28.	Suction machine	Four	
29.	Weigh machine	Two	
30.	Oxygen Cylinder	Ten	
31.	Stethoscope	Six	
32.	Needle and syringe destroyer	Five	
33.	Small and big tube rack	Ten	
34.	Slide holding rack	Four	
35.	Micro pipits	Ten	
36.	Apheresis Equipment	One	Cobe Spectra
37.	Bone Marrow Needle for Biopsy	Ten	

## 4. Clinical Materials

### a) 2011-2012

**OPD Patients:** 95,405: Average patients per OPD = 124

**Indoor Patients:** 1280: 100% Occupancy per day : Detail annexed

**Total No of Patients Investigated in the Laboratory:** 12,160: Detail annexed

#### **Hs Cap Zone Electrophoresis:**

Total no cases:	1252
Normal Study:	768 (./.)
Abnormal (Hemoglobin path):	484 (./.)
Beta – Thal (Trait)-	145
Beta Thal- (Homozygous)-	85
SCD(Trait) –	85
SCD (Homozygous) –	45
Sickle Beta Thalassemia –	65
Hb-E- Disease-	15
Hb- E (Trait)-	14
α-Thal-	7

#### **Sr.electrophoresis for M Band:**

Total no of cases-	517
Normal Study-	163
Abnormal study(Positive)-	89
Sr.Immunotyping(Normal)-	163
Sr.Immunotyping(Abnormal)-	
IgG Kappa-	69
IgG Lambda-	25
Ig A Kappa-	8
Ig A Lambda-	2
Ig M Kapa-	3
Ig M Lambda-	1

#### **Total Acute Leukemia Panel By Flow cytometry-**

Total no of Case-132

B-ALL-34

T-ALL-18

#### **ALL Myeloid Expression-**

AML-44

APML-6

#### **AML with lymphoid Expression-**

MPAL-10

B-Myloid-

T-Myloid-

CML-1

CLPD-2

MDS: RAEB-FT-1

#### **HLA-B27-**

Total no of Case-92

Normal- 66  
Abnormal- 26

### **PNH-CLONE**

Total No. of Cases:- 142  
Present- 68  
Absent -74

### **CLL PANNEL**

Total No. of Cases – 48

### **BONE MARROW BIOPSY :**

Total No. of Cases - 26

## **b) 2012-2013**

**OPD Patients:** 10306: Average patients per OPD = 123

**Indoor Patients:** 1460: 100% Occupancy per day : Detail annexed

**Total No of Patients Investigated:** 14,085: Detail annexed

### **Hs Cap Zone Electrophoresis:**

Total no cases: 747  
Normal Study: 292 (./.)  
Abnormal (Hemoglobin path):455 (./.)  
Beta – Thal (Trait)-117  
Beta Thal- (Homozygous)- 80  
SCD(Trait) – 160  
SCD (Homozygous) – 85  
Sickle Beta Thalassemia – 130  
Hb-E- Disease-15  
Hb- E (Trait)- 10  
Hb –E –Thal-15  
α-Thal-3

### **Sr.electrophoresis for M Band:**

Total no of cases- 659  
Normal Study-204  
Abnormal study(Positive)- 145  
Sr.Immunotyping(Normal)-204  
Sr.Immunotyping(Abnormal)-  
IgG Kappa-38  
IgG Lambda-19  
Ig A Kappa-2  
Ig A Lambda-1  
Ig M Kapa-0  
Ig M Lambda-10

### **Total Acute Leukemia Panel By Flow cytometry-**

Total no of Case-338

N.S- 23

B-ALL-126

T-ALL-17

**ALL Myeloid Expression-**

AML-107

APML-29

**AML with lymphoid Expression-**

MPAL-25

B-Myloid-

T-Myloid-

CML-2

CLPD-2

MDS: RAEB-FT-7

**HLA-B27-**

Total no of Case-594

Normal- 379

Abnormal- 215

**PNH-CLONE**

Total No. of Cases:- 369

Present- 134

Absent -235

**CLL PANNEL**

Total no. of Cases:- 67

**BONE MARROW STUDY :-**

Total no. of cases: 32

**c) 2013-2014**

**OPD Patients:** 25,500: Average patients per OPD = 126

**Indoor Patients:** 1567: 100% Occupancy per day : Detail annexed

**Total No of Patients Investigated:** 15,020: Detail annexed

**Hs Cap Zone Electrophoresis:**

Total no cases: 1267

Normal Study: 415 (./.)

Abnormal (Hemoglobin path):852 (./.)

Beta – Thal (Trait)-115

Beta Thal- (Homozygous)- 119

SCD(Trait) – 212

SCD (Homozygous) – 147

Sickle Beta Thalassemia – 125

Hb-E- Disease-75

Hb- E (Trait)- 35

Hb- E Thal- 19

$\alpha$ -Thal-5

### **Sr.electrophoresis for M Band:**

Total no of cases- 565

Normal Study-125

Abnormal study(Positive)- 195

Sr.Immunotyping(Normal)-125

Sr.Immunotyping(Abnormal)-

IgG Kappa-43

IgG Lambda-23

Ig A Kappa-3

Ig A Lambda-2

Ig M Kapa-1

Ig M Lambda-1

### **Total Acute Leukemia Panel By Flow cytometry-**

Total no of Case-246

N.S-7

B-ALL-110

T-ALL-15

#### **ALL Myeloid Expression-**

AML-47

APML-26

#### **AML with lymphoid Expression-**

MPAL-28

B-Myloid-

T-Myloid-

CML-1

CLPD-2

MDS: RAEB-FT-10

### **HLA-B27-**

Total no of Case-671

Normal- 485

Abnormal- 186

#### **PNH-CLONE**

Total No. of Cases:- 207

Present- 85

Absent -122

### **CLL PANNEL:**

Total No. of Cases- 86

### **Serum Kappa , Lambda, F.LC:**

Total no. of cases : 14

### **BONE MARROW BIOPSY :**

Total no. of Cases : 38

## d) 2014-2015

**OPD Patients:** 96554: Average patients per OPD = 143

**Indoor Patients:** 1567: 100% Occupancy per day : Detail annexed

**Total No of Patients Investigated:** 9069) 01.04.2014 to 31..-01.2015): Detail annexed

### **Hs Cap Zone Electrophoresis:**

Total no cases: 1267

Normal Study: 415 (./.)

Abnormal (Hemoglobin path):852 (./.)

Beta – Thal (Trait)-115

Beta Thal- (Homozygous)- 119

SCD(Trait) – 212

SCD (Homozygous) – 147

Sickle Beta Thalassemia – 125

Hb-E- Disease-75

Hb- E (Trait)- 35

Hb- E Thal- 19

α-Thal-5

### **Sr.electrophoresis for M Band:**

Total no of cases- 565

Normal Study-125

Abnormal study(Positive)- 195

Sr.Immunotyping(Normal)-125

Sr.Immunotyping(Abnormal)-

IgG Kappa-43

IgG Lambda-23

Ig A Kappa-3

Ig A Lambda-2

Ig M Kapa-1

Ig M Lambda-1

### **Total Acute Leukemia Panel By Flow cytometry-**

Total no of Case-246

N.S-7

B-ALL-110

T-ALL-15

#### **ALL Myeloid Expression-**

AML-47

APML-26

#### **AML with lymphoid Expression-**

MPAL-28

B-Myloid-

T-Myloid-

CML-1

CLPD-2

MDS: RAEB-FT-10

**HLA-B27-**

Total no of Case-671

Normal- 485

Abnormal- 186

**PNH-CLONE**

Total No. of Cases:- 207

Present- 85

Absent -122

**CLL PANNEL:**

Total No. of Cases- 86

**Serum Kappa , Lambda, F.LC:**

Total no. of cases : 0

**BONE MARROW BIOPSY :**

Total no. of Cases : 38

**e) 2015-2016**

**OPD Patients:** 73755 : Average patients per OPD = 129

**Indoor Patients:** 1667: 100% Occupancy per day : Detail annexed

**Total No of Patients Investigated:** 9069) 01.04.2015 to 7.10.2016): Detail annexed

**Hs Cap Zone Electrophoresis:**

Total no cases: 1166

Normal Study: 359(./.)

Abnormal (Hemoglobin path):807 (./.)

Beta – Thal (Trait)-215

Beta Thal- (Homozygous)- 87

SCD(Trait) – 183

SCD (Homozygous) – 59

Sickle Beta Thalassemia – 159

Hb-E- Disease-81

Hb- E (Trait)- 31

Hb- E Thal- 29

α-Thal-3

**Sr.electrophoresis for M Band:**

Total no of cases- 515

Normal Study-128

Abnormal study(Positive)- 387

Sr.Immunotyping(Normal)-11

Sr.Immunotyping(Abnormal)-43

IgG Kappa-31

IgG Lambda-19

Ig A Kappa-4

Ig A Lambda-2



Ig M Kapa-1  
Ig M Lambda-1

### **Total Acute Leukemia Panel By Flow cytometry-**

Total no of Case-246

N.S-7

B-ALL-110

T-ALL-15

#### **ALL Myeloid Expression-**

AML-47

APML-26

#### **AML with lymphoid Expression-**

MPAL-28

B-Myeloid-

T-Myeloid-

CML-1

CLPD-2

MDS: RAEB-FT-10

### **HLA-B27-**

Total no of Case-879

Normal- 309

Abnormal- 570

#### **PNH-CLONE**

Total No. of Cases:- 408

Present- 110

Absent -289

#### **CLL PANNEL:**

Total No. of Cases- 56

#### **Serum Kappa , Lambda, F.LC:**

Total no. of cases : 61

#### **BONE MARROW BIOPSY :**

Total no. of Cases : 4

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