

RAJKOT HOMOEOPATHIC MEDICAL COLLEGE

DEPARTMENT OF PATHOLOGY

Date:13/04/2023

From,  
The H.O.D.,  
Dept. Of pathology,  
Rajkot.

To,  
The principal,  
Rajkot Homoeopathic Medical College,  
Rajkot.

Subject:- Regarding visit to blood bank.

Respected Sir,

As a part of our regular departmental activity I propose to arrange an educational visit of 2<sup>nd</sup> BHMS students to life blood centre. In view of Covid-19 protocols I propose following schedule for the visit.


Sr. No.	Batch	Date	Time
1	Batch-A Roll no. 1 to 25	17-04-2023	10.00 am to 11.00 am
2	Batch-B Roll no. 26 to 50	18-04-2023	10.00 am to 11.00 am
3	Batch-C Roll no. 51 to 75	19-04-2023	10.00 am to 11.00 am
4	Batch-D Roll no. 76 to 100	20-04-2023	10.00 am to 11.00 am

Kindly approve for further needful.

Thanking you,

  
PRINCIPAL  
RAJKOT HOMOEOPATHIC MEDICAL COLLEGE  
RAJKOT.



  
HOD  
Department of Pathology  
R. H. M. C.  
Dr. Amar Thakkar,  
H.O.D.,  
Dept. Of Pathology,  
R.H.M.C.  
Rajkot.



# Rajkot Homoeopathic Medical College

(Managed by Parul Arogya Sova Mandal Trust)

Approved By : Central Council of Homoeopathy, New Delhi.

Accredited by NAAC, UGC & an ISO 9001:2000 Certified Institute

Date :

## DEPARTMENT OF PATHOLOGY

Date: 13/04/2023

From,

The H.O.D.,

Dept. Of pathology,

Rajkot.

To,

The medical director,

Life Blood centre,

Gondal road,

Rajkot.

Subject:- Regarding visit to blood bank.

Respected Sir,

It is my kind request to allow students of my Department to visit your Blood Bank to enhance their knowledge about Blood Bank techniques, so that this future Doctors can promote the noble activities of Blood Bank in the society. The total number of student in our department is 100. In view of Covid-19 protocols I propose following schedule for the visit.

Sr. No.	Batch	Roll no.	Date	Time
1	Batch-A	Roll no. 1 to 25	17-04-2023	10.00 am to 11.00 am
2	Batch-B	Roll no. 26 to 50	18-04-2023	10.00 am to 11.00 am
3	Batch-C	Roll no. 51 to 75	19-04-2023	10.00 am to 11.00 am
4	Batch-D	Roll no. 76 to 100	20-04-2023	10.00 am to 11.00 am

The schedule and time can be changed as per your convenience. For further discussion you can contact me (Mo. No.93758 47216). We request you to issue visitation certificate at the end of visit.

Thanking you,



Discussed - OK

A  
17.04.2023



13/4/23

HOD

Department of Pathology

R.H.M.C.

Dr. Amar Thakkar,

H.O.D.,

Dept. Of Pathology,

R.H.M.C.

Rajkot.

**RAJKOT HOMOEOPATHIC MEDICAL COLLEGE**  
**DEPARTMENT OF PATHOLOGY**

Date:14/04/2023

**CIRCULAR**

All the student of 2<sup>nd</sup> BHMS are hereby informed that department of pathology and microbiology has organized a **blood bank visit, Rajkot** on dated **17,18,19,20 April, 2023.**

Your presence is mandatory. Absence without prior permission will attract a disciplinary action.



*13/4/23*

**HOD**  
**Department of Pathology**  
**R. H. M. C.**  
Dr. Amar Thakkar,  
H.O.D.,  
Dept. Of Pathology,  
R.H.M.C.  
Rajkot.

No	Name	Signature	Remark
1	Ajani Vishakha Rajeshbhai	Vishakha	
2	Ardeshna Nirali Kalpeshbhai		
3	Bavaliya Isha Vipulbhai	Isha	
4	Bhalodiya Divyata Kiritbhai	Divya	
5	Bhatti Deep Mineshbhai	Deep	
6	Bhensadadiya Vrunda Rajeshbhai	Vrunda	
7	Bhetariya Karan Ramshibhai	Karan	
8	Bhuva Khushi Ashokbhai	Khushi	
9	Boghara Akshit Hareshbhai	Akshit	
10	Busa Naisargi Sanjaybhai	Naisargi	
11	Chaudhari Sohangiben Anilbhai	Sohangiben	
12	Chauhan Lalji Punabhai	Lalji	
13	Chauhan Monika Narayanbhai	Monika	
14	Chauhan Vishvrajsinh Arvindsinh	Vishvrajsinh	
15	Chavda Hardik Maheshbhai	Hardik	
16	Chavda Mansiben pankajbhai	Mansiben	
17	Chhayani Vishna Sureshbhai	Vishna	
18	Dabhi Sunil Kurjibhai	Sunil	
19	Damor Laxmiben Dineshbhai	Laxmiben	
20	Dela Munir Rajakbhai	Munir	
21	Desai Vishal Manjibhai	Vishal	
22	Dharaviya Monika Jasabhai	Monika	
23	Dikhit Ravikumar Rajansinh	Ravikumar	
24	Doshi Krina Mayurbhai	Krina	
25	Gadara Viren Kamleshbhai	Viren	
26	Gadhiya Shruti Maganbhai	Shruti	
27	Gadhvi Dev Aidan	Dev	
28	Galani Jenisha Sureshbhai	Jenisha	
29	Gamdha Margi Dipakbhai	Margi	
30	Gamit Parthkumar Arvindbhai	Parthkumar	
31	Garasiya Miteshkumar Maganlal	Miteshkumar	
32	Geda Divyesh Narendrabhai	Divyesh	
33	Geriya Nidhi Manojbhai	Nidhi	
34	Gevariya Arpit Sanjaybhai	Arpit	
35	Gohel Pratik Lalitkumar	Pratik	
36	Goswami Darshangiri Maheshgiri	Darshangiri	
37	Gumasana Janki Sanjaybhai	Janki	
38	Hadiyal Ankita Jagdishbhai	Ankita	
39	Hariyani Bipin Ishwarbhai	Bipin	
40	Harsora Krisha Vijaybhai	Krisha	
41	Hirapara Krushita Jentibhai	Krushita	
42	Jadeja Chhatrapalsinh N.	Chhatrapalsinh	
43	Jariya Darshna Natvarbhai	Darshna	
44	Jinjala Payal Jivrajbhai	Payal	
45	Joshi Mansi Jayeshbhai	Mansi	
46	Kaliya Falguni Hardevbhai	Falguni	
47	Kamaliya Kavita Vallabhbhai	Kavita	
48	Kanzariya Poojaben Dineshbhai	Poojaben	
49	Karia Kairavi Dipakbhai	Kairavi	
50	Katariya Krinal Hareshbhai	Krinal	

51	Katrodiya Jatin Karsanbhai	J. K. Karsanbhai		
52	Ladumor Abhay Nagjibhai	Abhay		
53	Ladumor Urvashiben Dineshbhai	Urvashiben		
54	Lalani Sitarambhai Jerambhai			
55	Lalkiya Aasta Bhikhubhai	Aasta		
56	Limnasiya Dixit Jagdishbhai			
57	Limnasiya Hetvi Arvindbhai	Hetvi		
58	Makwana Paril Nileshbhai	Paril		
59	Malani Ayush Bipinbhai	Ayush		
60	Maradiya Anjani Gautambhai	Anjani		
61	Mehta Aayushi Ghanshyam	Aayushi		
62	Merani Vishal Ashvinbhai	Vishal		
63	Mogal Faizal Javedbhai			
64	Mungara Dhruvil Ashvinbhai	Dhruvil		
65	Nimavat Pallavi Kiritbhai	Pallavi		
66	Pansuriya Ritika Manojbhai	Ritika		
67	Parmar Ishita Govindbhai	Ishita		
68	Parmar Omkesh Bhikhabhai	Omkesh		
69	Parmar Prarthna Kalpeshbhai	Prarthna		
70	Parmar Urvikumar Vibhuvanbhai	Urvikumar		
71	Patel Devika Satishbhai	Devika		
72	Patel Vrund Mahendrabhai	Vrund		
73	Pathak Hetvi Jayeshbhai	Hetvi		
74	Patvana Komal Nileshbhai	Komal		
75	Pipaliya Shruti Manishbhai	Shruti		
76	Pipalva Rutika Jayeshbhai	Rutika		
77	Rathod Geetaben Bhupatbhai	Geetaben		
78	Rathod Hiren Anilbhai	Hiren		
79	Rathod Pruthvirajsinh Samatsinh	P. S. Rathod		
80	Rathod Sagar Kathdabhai	Sagar		
81	Rathod Shailee Nayanbhai	Shailee		
82	Sakhiya Shruti Jayeshbhai	Shruti		
83	Sanghani Ridham Dipakbhai	Ridham		
84	Saresa Deepali Vijaybhai	Deepali		
85	Solanki Anjali Bharatbhai	Anjali		
86	Solanki Shivangi Maldebhai	Shivangi		
87	Sorathiya Isha Manishbhai	Isha		
88	Tarapada Darshita Bharatbhai	Darshita		
89	Timbadiya Swati Bhaveshbhai	Swati		
90	Umraniya Himanshu Rohit	Himanshu		
91	Umretiya Aevanshi Narendrabhai	Aevanshi		
92	Undhad Jay Kamleshbhai	Jay		
93	Vadoliya Divyesh Maheshbhai	Divyesh		
94	Vaishnav Vishva Mehulbhai	Vishva		
95	Vekariya Dipal Hareshbhai	Dipal		
96	Vekariya Pratik Kanubhai	Pratik		
97	Vekaria Komal Vimalbhai	Komal		
98	Vidja Vivekkumar Hareshbhai	Vivek		
99	Visapara Mihir Jitendrabhai	Mihir		
100	Wadhar Dhruvi Mukulbhai	Dhruvi		

# RAJKOT HOMEOPATHIC MEDICAL COLLEGE

## DEPARTMENT OF PATHOLOGY

### PREPARED BY:-

Parmar Ishita

### Roll no:-

67

### YEAR:-

2 Nd BHMS

### PLACE OF VISIT :-

Life Blood Center ,24 Vijay plot ,Malaviya chowk, Rajkot.

### ORGANISED BY :-

Department of Pathology

### DATE:-

19<sup>th</sup> April 2023

### TIME :-

10:00 AM to 11:00 AM



*A. MAR*

HOD  
Department of Pathology  
R. H. M. C.

# VISIT TO LIFE BLOOD CENTER



AIM:- To provide the basic knowledge of blood bank techniques.

OBJECTIVES:- To inspire the students for the spreading the knowledge of blood bank and its noble work in society.

Life Blood Center is a leading institute situated in Rajkot.

They have following fields of work :

- Thalassemia Department
- Apheresis
- Blood Donation
- Blood Tests
- Blood Processing & Blood Storage
- Education
- THALASSEMIA DEPARTMENT:-



- Thalassemia department.

1) We got information about how we can calculate the chance of child being

born with thalassemia

a) SPOUSES- 1 minor 1 normal

Offspring – 50% chances of minor 50% chances of normal

b) Spouses – both minors

Offspring – 25% chances of major 50% chances of minor 25% chances of

normal

2) The center provides blood to more than 200 thalassemia

patients. 3) Tests performed in the department

a) HPLC (high performance liquid chromatography test)

b) PND test ( prenatal diagnostic test) – for suspected

cases. Aim – to prevent birth of thalassemia major baby.

4) Due to repeated blood transfusions iron overload occurs which is combated by giving chelating agents along with blood.

- Laboratory



a) Cell counter – primary  
test HPLC- confirmatory  
test

- Blood component area
- Quadruple bag



- Triple bag – plasma, platelets, RBCs
- Centrifuge at 4 to 22 C
- Within 6 hours components get separated
- Single donor platelets – platelet apheresis. The donor can donate platelets twice a week if required 1 unit contains 250 ml of platelets

So in patients with bleeding disorders we can transfuse platelets instead of

Whole blood transfusion to prevent the complications.

- TTI laboratory (transfusion transmissible infections)
- Tests are performed for detecting presence of any infection in blood.
- Tests for infections like – HIV
  - HBV
  - HCV
  - Syphilis
  - Malaria etc.

- Red cell serology lab
- Here tests are performed on the patient's blood sample
- Compatibility test a) manually –by tube method.
- b) semiautomatic- jell cards
- c) automatic- SPRCA (solid phase red cell adherence)

- Blood storage area
- RBCs –  $4\text{ C} \pm 2\text{C}$  for 35 to 42 days
- Platelets –  $22\text{ C} \pm 2\text{C}$  for 4 to 5 days
- Plasma -  $-30\text{ C}$  or below for 1 year.
- Blood is stored after performing all the tests
- The blood group is mentioned on the blood bag before storing it
- Blood donation.

1) 1st chamber

- Here the donor's body weight and Hemoglobin concentration of blood

is measured

2) 2nd chamber

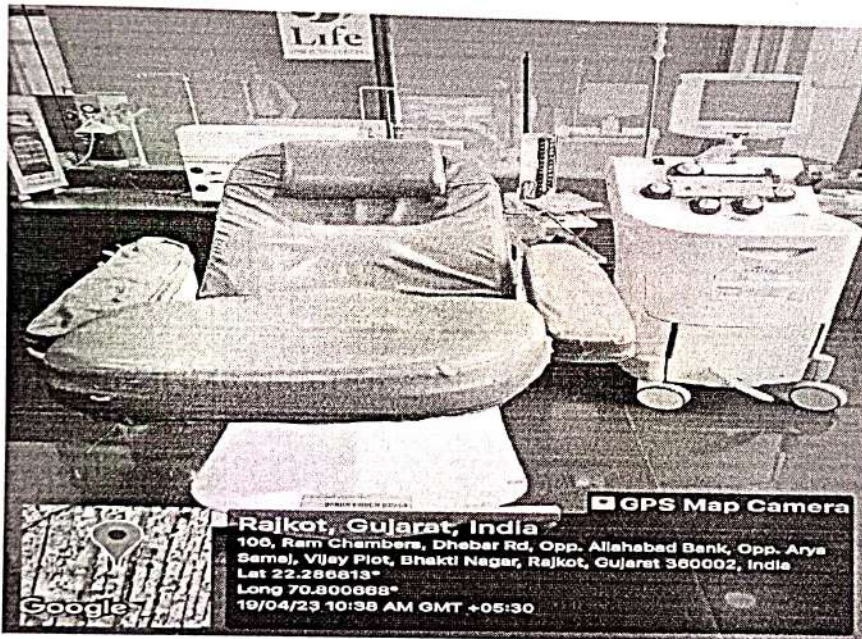
- Counselling

3) 3rd chamber

- Medical examination of the donor.

4) 4th chamber

- Here the donor donates his/her blood.



- Post donation care – rest and refreshment.

Summary

This visit was very inspiring and informative for us.

I got information about how the blood is processed before giving it to the

patient

I got motivated to become a good doctor in the future

Life blood center is a very good place to donate blood.



## Life Blood Centre

Committed to Care

(Formerly known as Rajkot Voluntary Blood Bank & Research Centre)  
(NABH Accredited Regional Blood Transfusion Centre)  
Managed by  
Saurashtra Medical & Educational Charitable Trust



25/04/2023

### *Certificate of Visit*

This is to certify that total 93 students of 2<sup>nd</sup> BHMS, Department of Pathology, Rajkot Homoeopathic Medical College has visited **Life Blood Centre** in four batches on Dates: 18<sup>th</sup>, 19<sup>th</sup> 20<sup>th</sup> & 24<sup>th</sup> April, 2023 along with the faculty members Dr. A. Thakkar & Lab. Tech. Mrs. Daya Mandali.

The students were given knowledge of blood bank technologies and advanced automation facilities at **Life Blood Centre**. They had visited various departments of blood centre like blood donation area, blood component area, transfusion transmitted infections testing laboratory, red cell serology laboratory, final blood storage area, apheresis department and thalassaemia department. Students have understood practical aspect in blood banking.

I appreciate the initiative taken by Rajkot Homoeopathic Medical College to motivate their students and to promote the noble activities of blood bank in society.

*Sanjiv Nandani*

Dr. Sanjiv Nandani  
(Hon. Medical Director)  
Life Blood Centre  
Rajkot.



24 - Vijay Plot, Malaviya Road, Rajkot - 360 002. Gujarat, India ☎ +91-(281)-223 42 42 / 43

✉ lbc@999life.org 🌐 lifebloodcentre.org 📱 @lifebloodcen 📧 @lifebloodcentre

