



# Best Practice

State-of-the-Art Cancer Treatment Facility: A contribution to the nation in sharing the cancer treatment load of the Region

# Rohilkhand Cancer Institute (RCI)

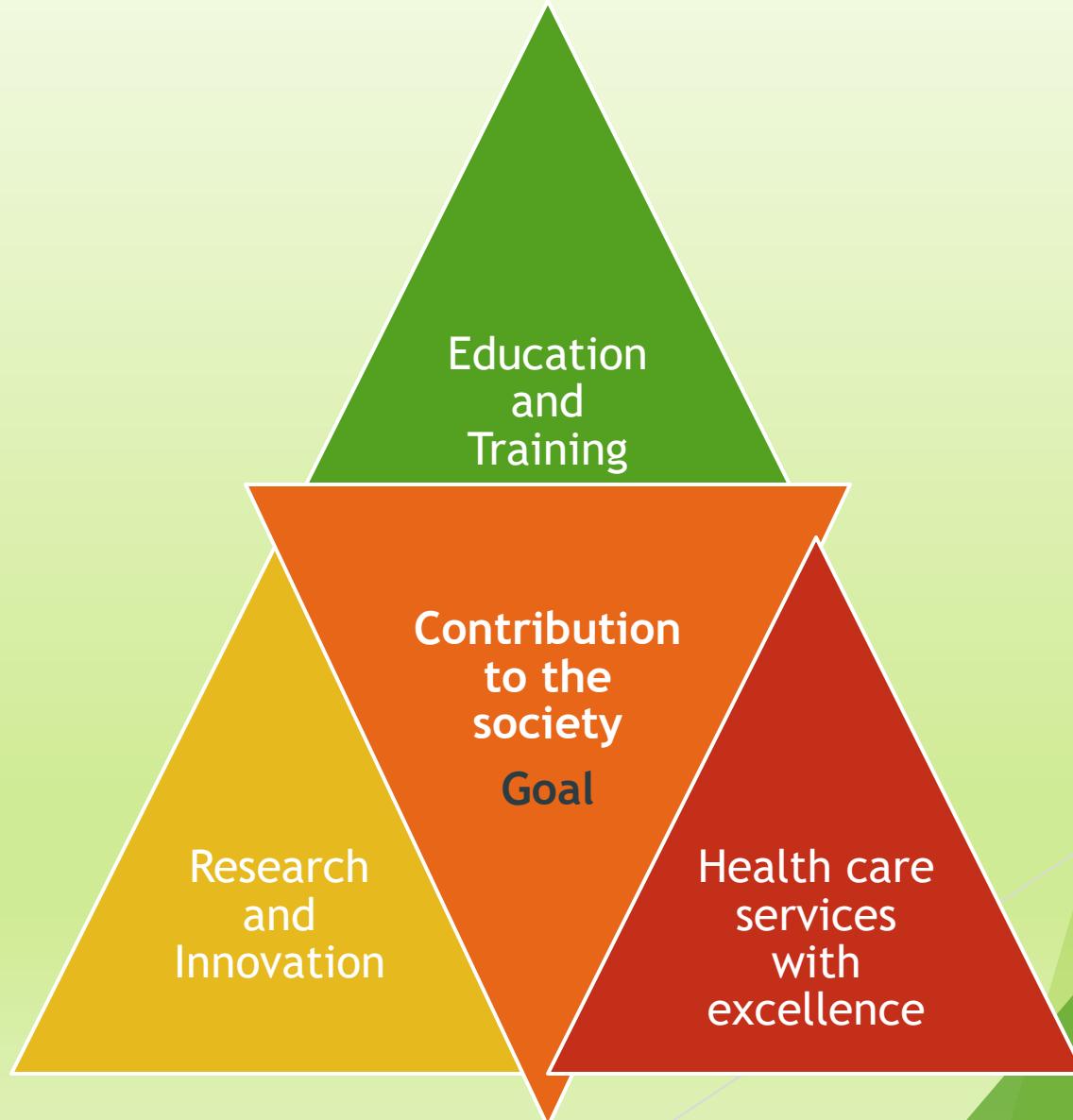


# Objectives of the Practice



- ▶ Comprehensive utilization of our various academic programs running in our various institutions in providing best of cancer treatment at a much optimised cost.
- ▶ Adding to the number of specialists annually there by contributing to the healthcare manpower of the nation

# Bareilly International University (BIU)



# The Context



Annual incidence  
of cancer in India  
(GLOBOCON2018)

- Approximately  
1.1 million

Concern

- 1.7 million  
cases by 2035

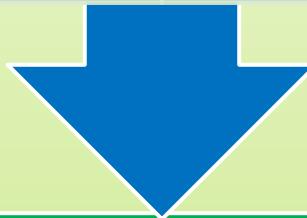
# For our Nation



## Point of Concern

Screening

Mortality



## Challenge

Shortage of trained  
skilled manpower

Financial  
constraints



# Shortage of trained skilled manpower

Trained  
Doctors

Trained  
Dedicated  
Nursing  
Staff

Trained  
Paramedical  
staff



# Financial constraints

Infrastructure

Sustaining  
the  
Established  
System

Latest  
Medical  
Equipments

Trained  
Healthcare  
Professionals



Sustained  
Financial  
Support



Innovative  
Research



How to  
fulfill the  
gap in the  
society



# Rohilkhand Cancer Institute



Surgical Oncology

Radiation  
Oncology

Rohilkhand  
Cancer  
Institute

Medical Oncology

Nuclear Medicine

# Newer addition



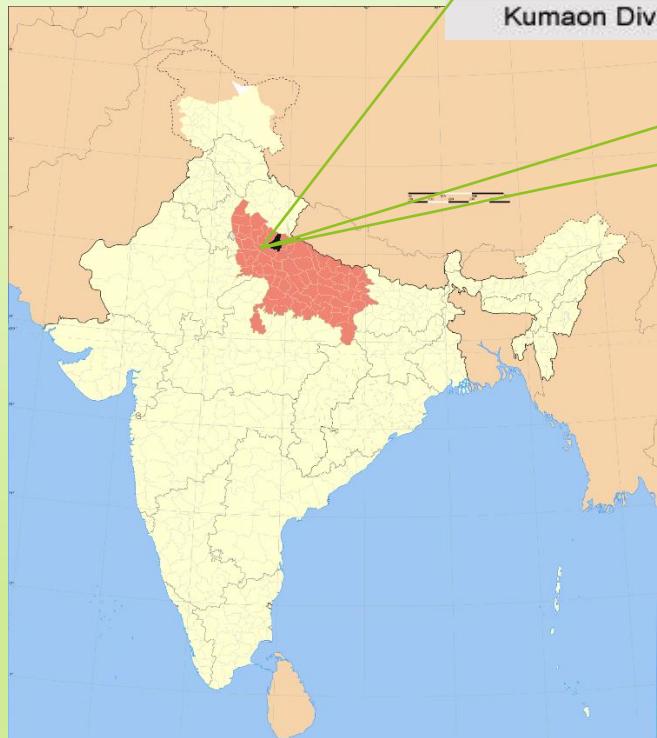
## Palliative Oncology

- Pain and symptomatic management
- Emotional and psychosocial support

## Cancer Rehabilitation

- Addresses impairment and limitations caused by cancer and its treatment
- Restore function and enhance quality of life

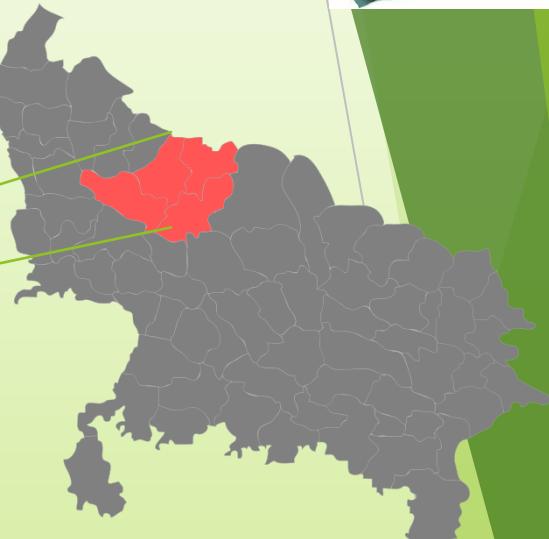
# Drainage Area



Kumaon Division Uttarakhand



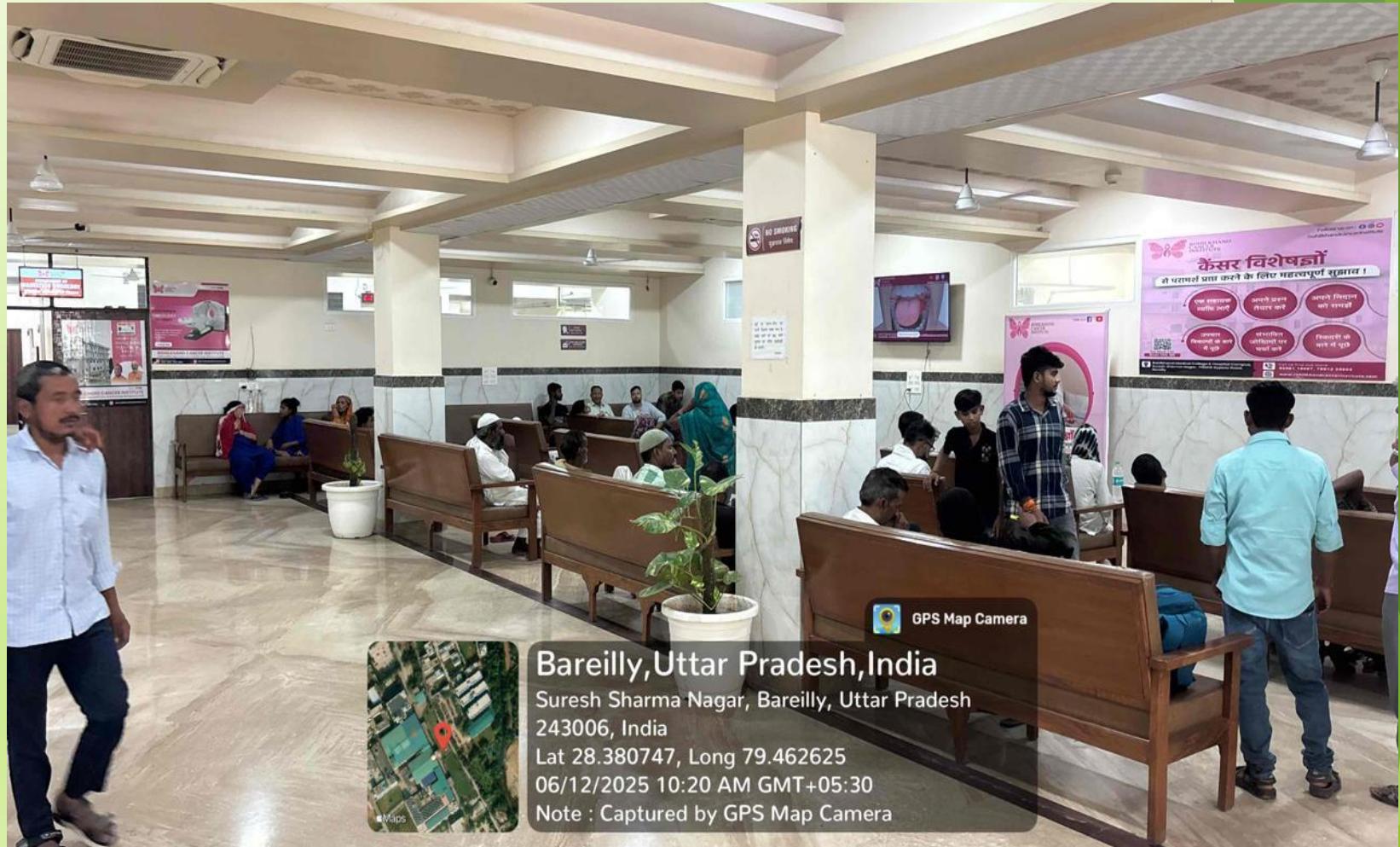
Kumaon Region  
of Uttarakhand



# Centrally Air Conditioned Cancer Wing



# Out Patient Department



Bareilly, Uttar Pradesh, India

Suresh Sharma Nagar, Bareilly, Uttar Pradesh

243006, India

Lat 28.380747, Long 79.462625

06/12/2025 10:20 AM GMT+05:30

Note : Captured by GPS Map Camera

# Screening and out reach camps

- ▶ Oral and Dental Health Camps
- ▶ Cervical cancer Screening
- ▶ Breast cancer screening week
- ▶ Educational Handouts





# Day Care Facility



- ▶ Pain and Palliative Care: Morphine for Pain Management
- ▶ Chemotherapy
- ▶ IV fluid administration
- ▶ Blood transfusion
- ▶ Other minor ailments like constipation, Vomiting etc

# PET-CT (GE Discovery IQ gen 2)



# Modular OT

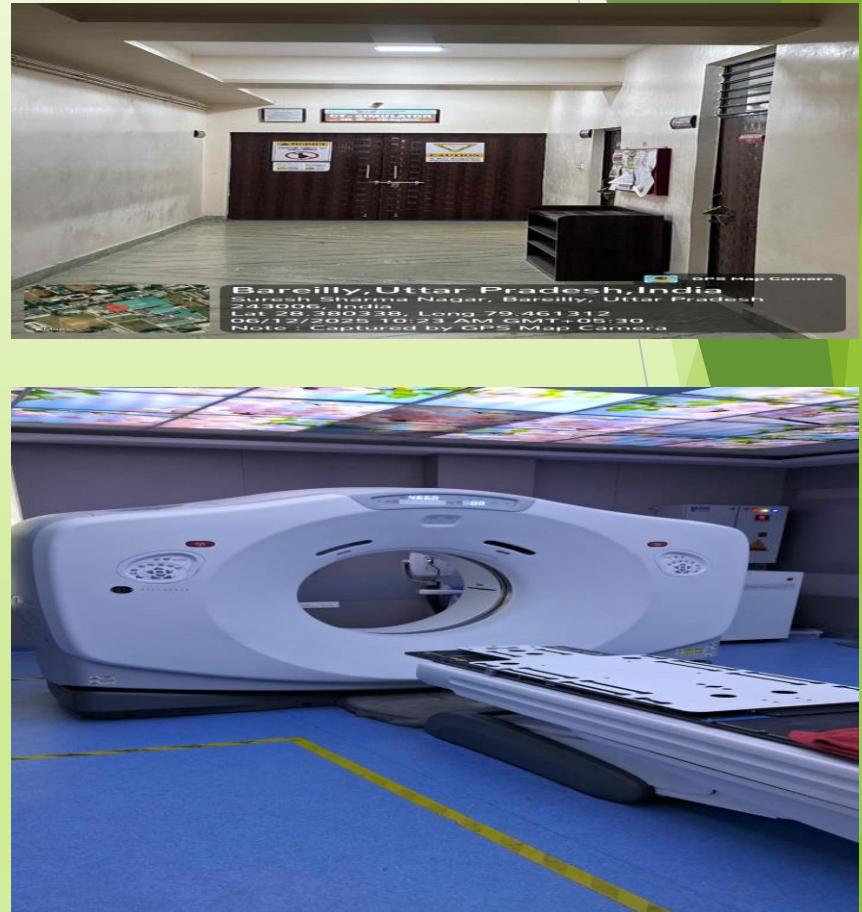


# Radiation Oncology

Varia truebeam RT (Linear accelerator)



CT Simulator



# Radiation ward



# Onco-pathology



A dedicated team for the diagnostic facility:

- ▶ Fine Needle Aspiration Cytology (FNAC)
- ▶ Histopathology
- ▶ Immunohistochemistry (IHC)
- ▶ Molecular Diagnostic facility
- ▶ Frozen section
- ▶ Screening for cancer

# National Cancer Registry



ncdirindia.org/cancersamiksha/reg\_HBCRHistory.aspx

College And Hospital, Bareilly 1/1

**Cancer Samiksha**

Home PBCR HBCR Network & Database Glossary ICD10-Dictionary Acknowledgement References Feedback Contact

Hospital Based Cancer Registry Network of the National Cancer Registry Programme



Research Centre, New Delhi  
254 Ramaiah Medical College Hospitals, Bengaluru  
255 Rangaraya Medical College  
Government General Hospital, Kakinada  
256 Regional Cancer Centre Indira Gandhi Medical College, Shimla  
257 Regional Cancer Centre Kamala Nehru Memorial Hospital, Prayagraj  
258 Regional Cancer Centre, Agartala  
259 Regional Cancer Centre, Raipur  
260 Regional Cancer Centre, Thiruvananthapuram  
261 Regional Institute of Medical Sciences, Imphal  
262 Rohilkhand Medical College And Hospital, Bareilly  
263 Royal Plus Shashwat, Rajkot  
264 RST Regional Cancer Hospital, Cancer Relief Society, Nagpur  
265 Rural Development Trust, Bathalapalle  
266 S. Nigandhaan Medical College and

15.206 423 PM 12/06/2025



## HBCR Core Form

ROHILKHAND MEDICAL COLLEGE AND HOSPITAL, Bareilly

Reference No: 09010-0000331

Dataentry Form

Search

Procedure Manual

HBCR Basic Coreform

Logout

1. Name of the Reporting Institution (RI) :-

ROHILKHAND MEDICAL COLLEGE AND HOSPITAL, Bareilly

Centre Code :

09010

2. Registration Number (First 2 digits are for year of registration and the next 5 digits for actual registration number)

3. Patient MRD No./CR No/ Unique Hospital Identification Number

4. Date of Reporting at RI

5. Type of Referral

Select

Name

City

District

Pin

Patient MRD No./CR No/  
Unique Hospital Identification  
Number

Date

6. Date of First Diagnosis (Date of first attendance to any hospital which led to diagnosis of cancer - generally the earliest of the dates in 5 or 7 above)

7. Full Name of Patient

First Name

Second Name

Last Name

8. Age (in completed years)

9. Date of Birth

10. Sex

Male

Female

Others

11. Unique Identification / Beneficiary Number (Please Enter all applicable)

(1) AADHAAR

(8) Others

(2) Voter ID

(9) Unknown

(3) ABHA (Health ID)

(4) Passport number

(5) State specific health scheme/s

(6) PMJAY

12. Address of Residence of the Patient

12.1 Place of Usual Residence (✓ TICK ANY ONE)

Urban Areas (Town / Cities)

House No. or Building No.:

Non-urban / Rural Areas

Road / Street Name:

Area / Locality / Panchayat:

Ward / Corporation :

Name of Village/City / Town:

Name of Sub-Unit of District (Taluk / Tehsil /  
Others):

Name of District:

Pin Code:

State/UT:

Surgery	Select		dd-mm-yyyy	
Radiotherapy	Select		dd-mm-yyyy	dd-mm-yyyy
Chemotherapy	Select		dd-mm-yyyy	dd-mm-yyyy
Hormone Therapy	Select		dd-mm-yyyy	dd-mm-yyyy
Targeted Therapy	Select		dd-mm-yyyy	dd-mm-yyyy
Others	Select		dd-mm-yyyy	dd-mm-yyyy

If Non-Allopathic	Start Date	End Date
Ayurveda	<input type="checkbox"/> dd-mm-yyyy	dd-mm-yyyy
Yoga	<input type="checkbox"/> dd-mm-yyyy	dd-mm-yyyy
Unani	<input type="checkbox"/> dd-mm-yyyy	dd-mm-yyyy
Siddha	<input type="checkbox"/> dd-mm-yyyy	dd-mm-yyyy
Homeopathy	<input type="checkbox"/> dd-mm-yyyy	dd-mm-yyyy

17. In the event of death: Date of Death

dd-mm-yyyy

Save

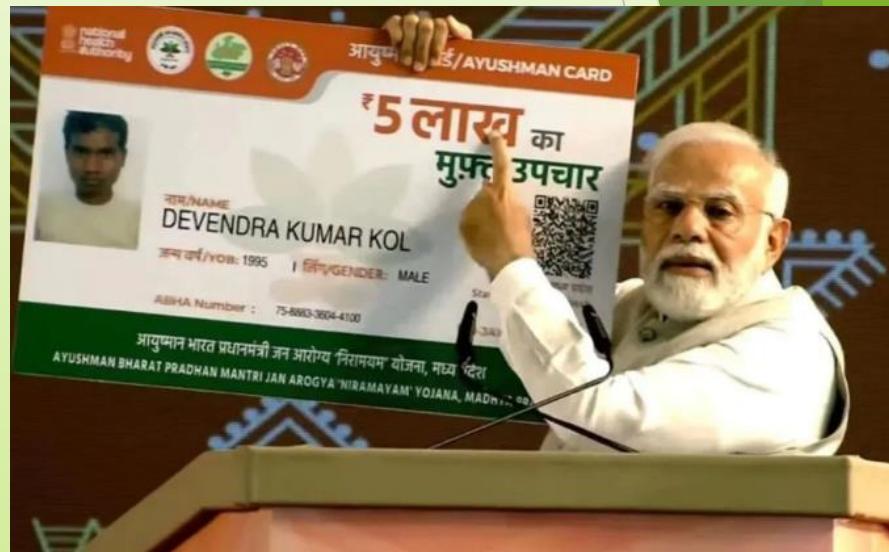
# Patients with Financial Constraints



- ▶ Funding by College itself
- ▶ Ayushman Bharat Yojna (PMJAY)
- ▶ Funds from Member of Parliament Quota
- ▶ Funds from State Legislative Assembly Quota

# Ayushman Bharat Yojna (PMJAY)

- ▶ Total number of cases treated under the PMJAY till date: 6430
- ▶ Currently last 7 days: 70-80% bed occupancy under the scheme



# Third Party Administrator (TPA)

**PMJAY- AYUSHMAN BHARAT YOJANA**

**PANDIT DEEN DAYAL UPADHYAY**

**NBCP**

**HAUSALA SAJHEDARI**

**CGHS**

**ESIC**

**ECHS**

**CAPF**

**BSNL**

**IVRI**

**CARI**

**HDFC - ERGO GENERAL INSURANCE**

**ERICSON INSURANCE PVT LTD RELIANCE HEALTH INSURANCE**

**SAFEWAY INSURANCE TPA PVT LTD**

**ADITYA BBRLA GROUP GENERAL INSURANCE CO LTD**

**GENINS INSURANCE CO LTD**

**UNIVERSAL SOMPO GENERAL INSURANCE CO LTD**

**SBI GENERAL INSURANCE**

**ICICI LOMBARD**

**RELIANCE GENERAL INSURANCE CO.LTD**



# Evidence of Success



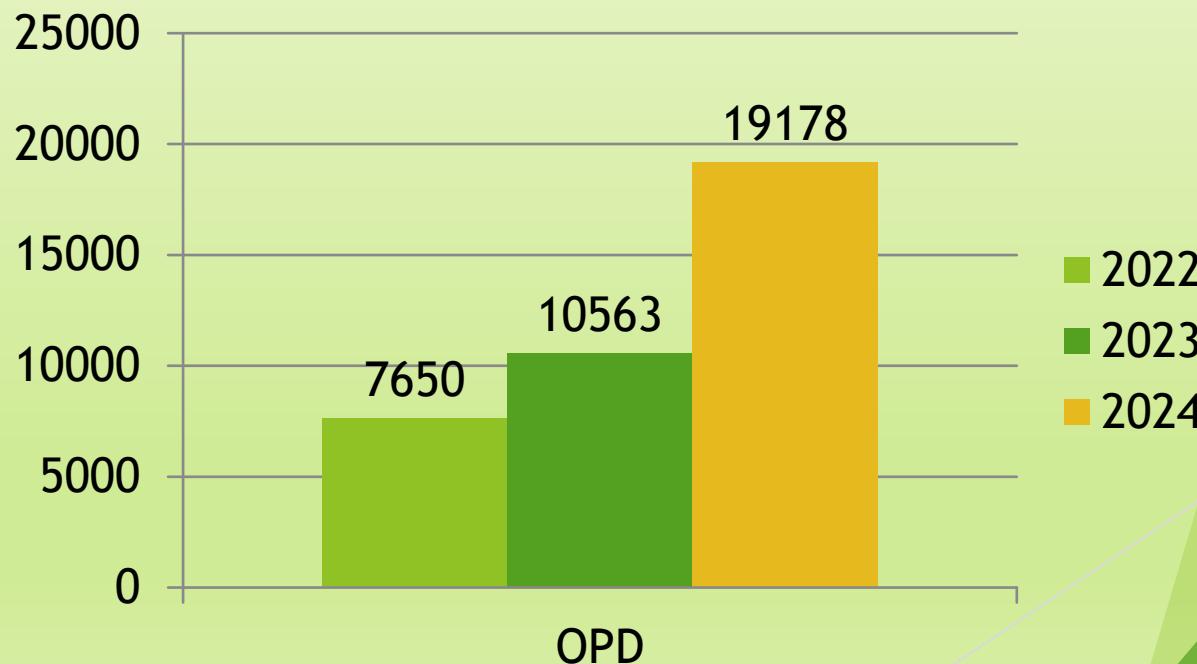
Since 2022, there is an increase in the number of:

- ▶ OPD
- ▶ IPD
- ▶ Onco-surgery
- ▶ Onco-pathology
- ▶ Radiotherapy
- ▶ Chemotherapy
- ▶ PET-CT

# Out Patient Department (OPD)



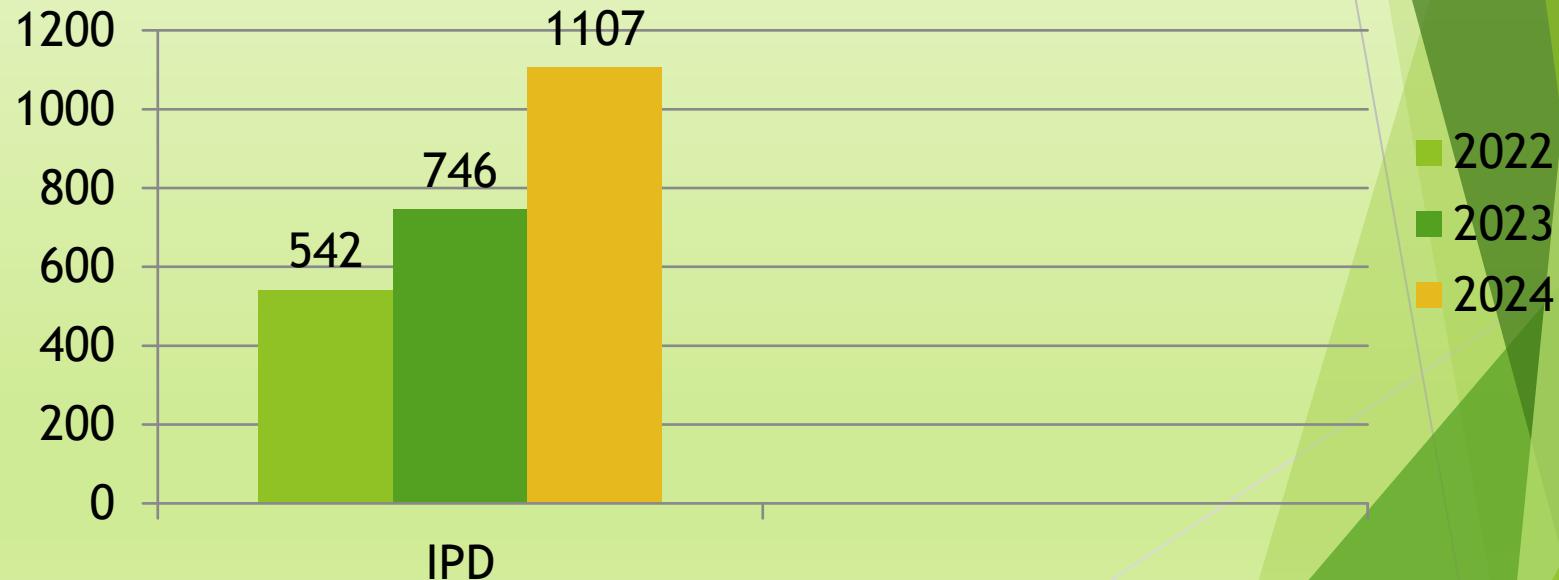
Year	2022	2023	2024
OPD	7650	10563	19178





# Inpatient Department

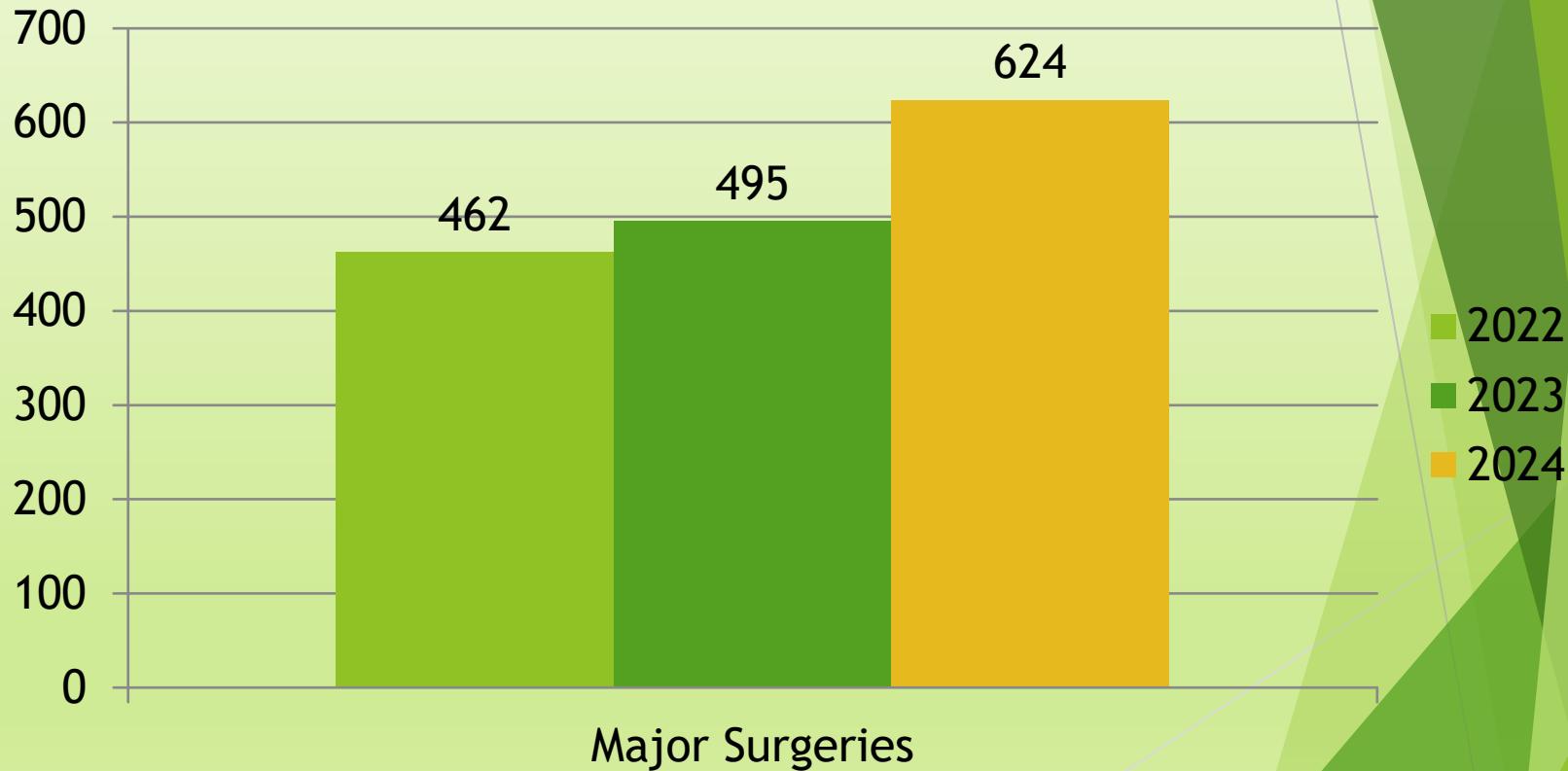
Year	2022	2023	2024
IPD	542	746	1107



# Major Surgeries



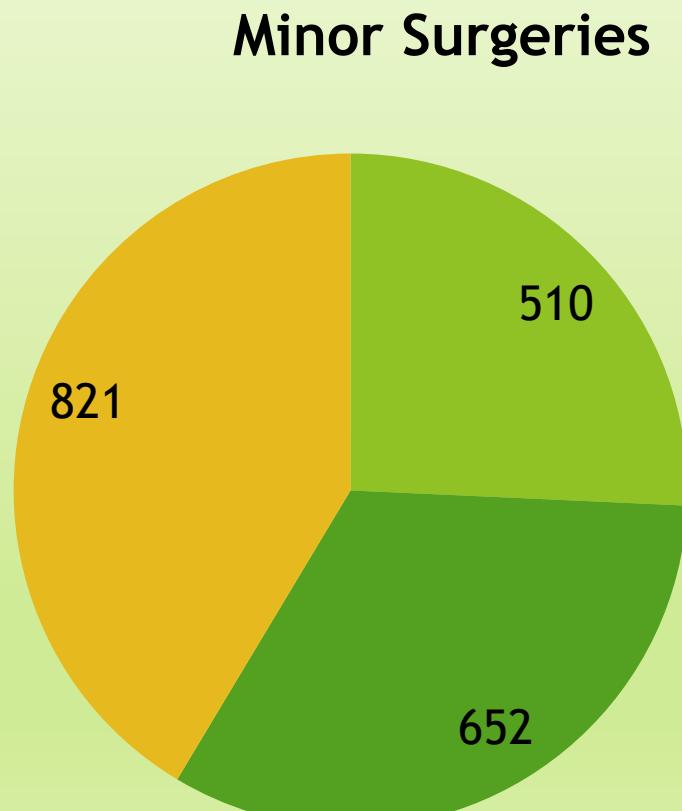
Year	2022	2023	2024
Major Surgeries	462	495	624



# Minor Surgeries

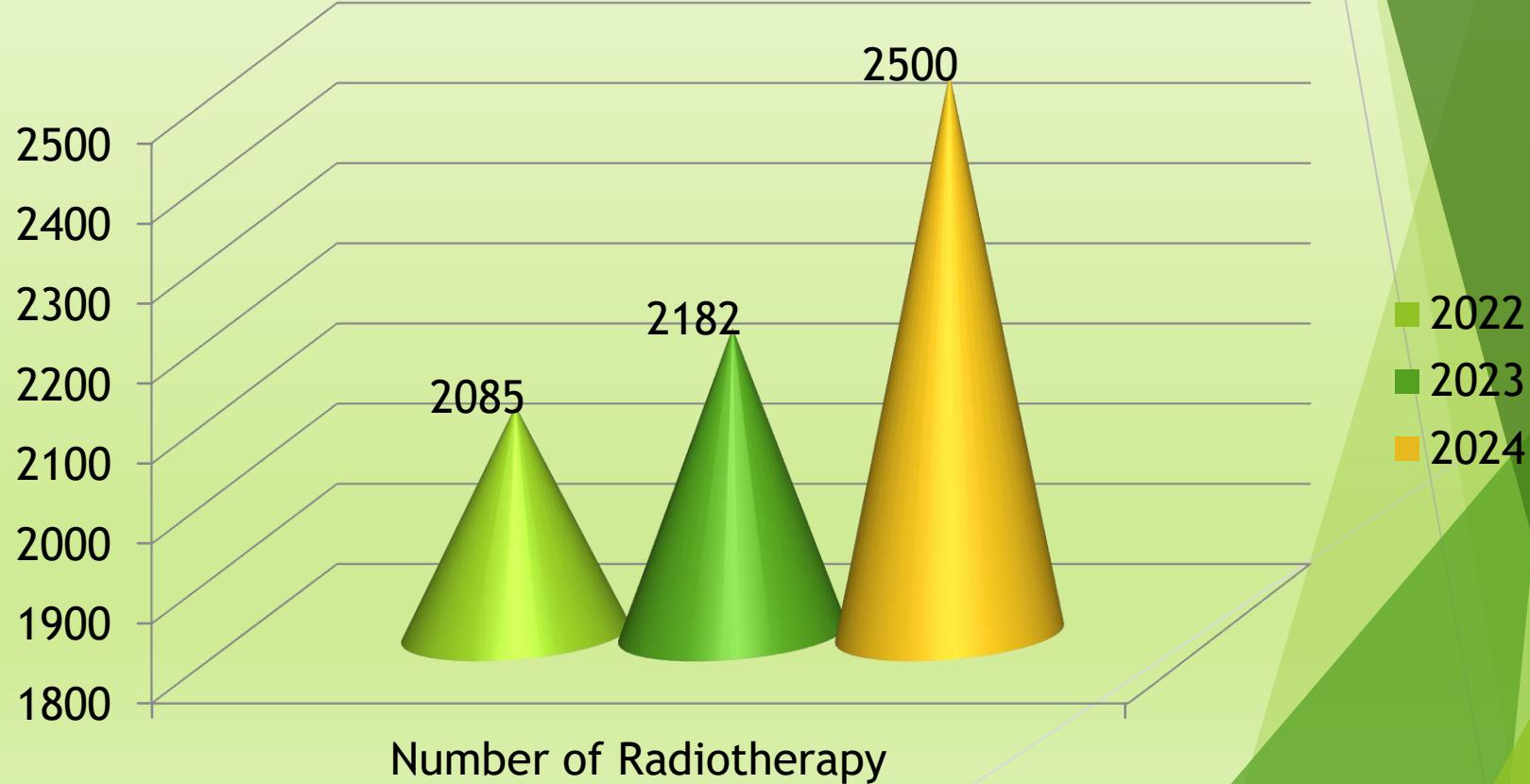


Year	2022	2023	2024
Minor Surgeries	510	652	821



# Radiotherapy

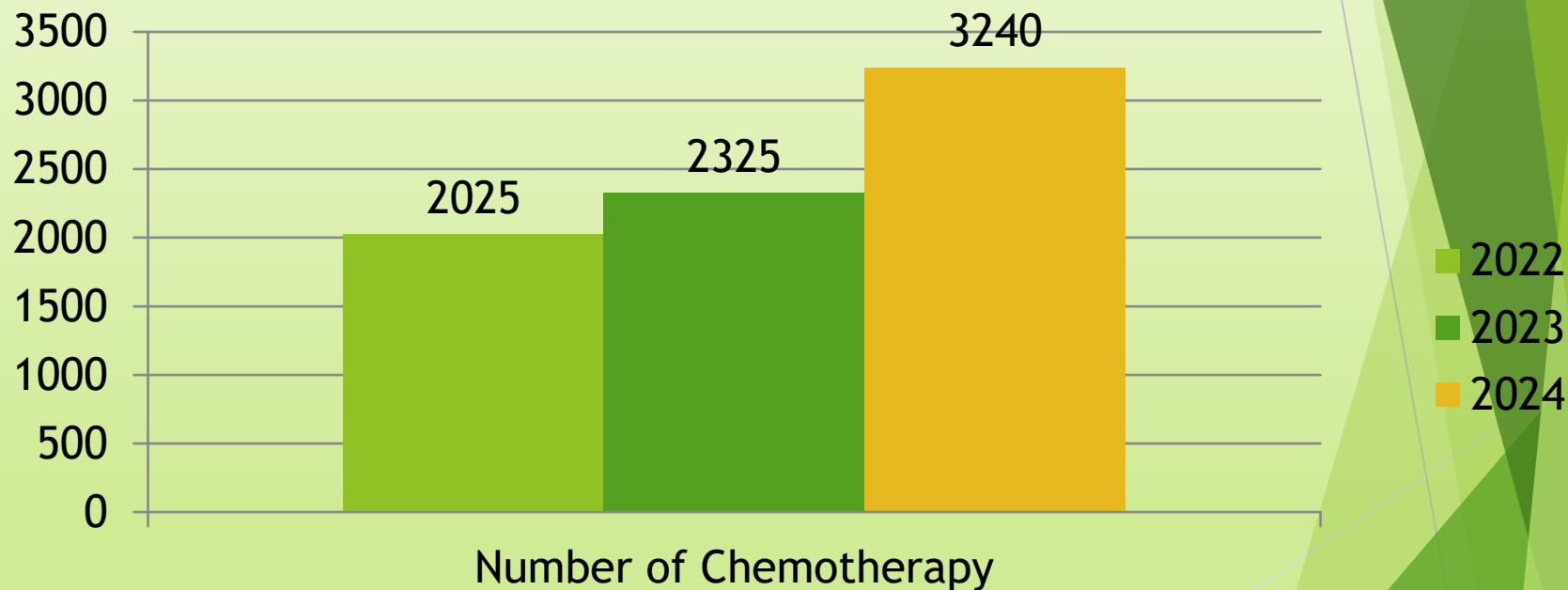
Year	2022	2023	2024
Number of Radiotherapy	2085	2182	2500



# Chemotherapy



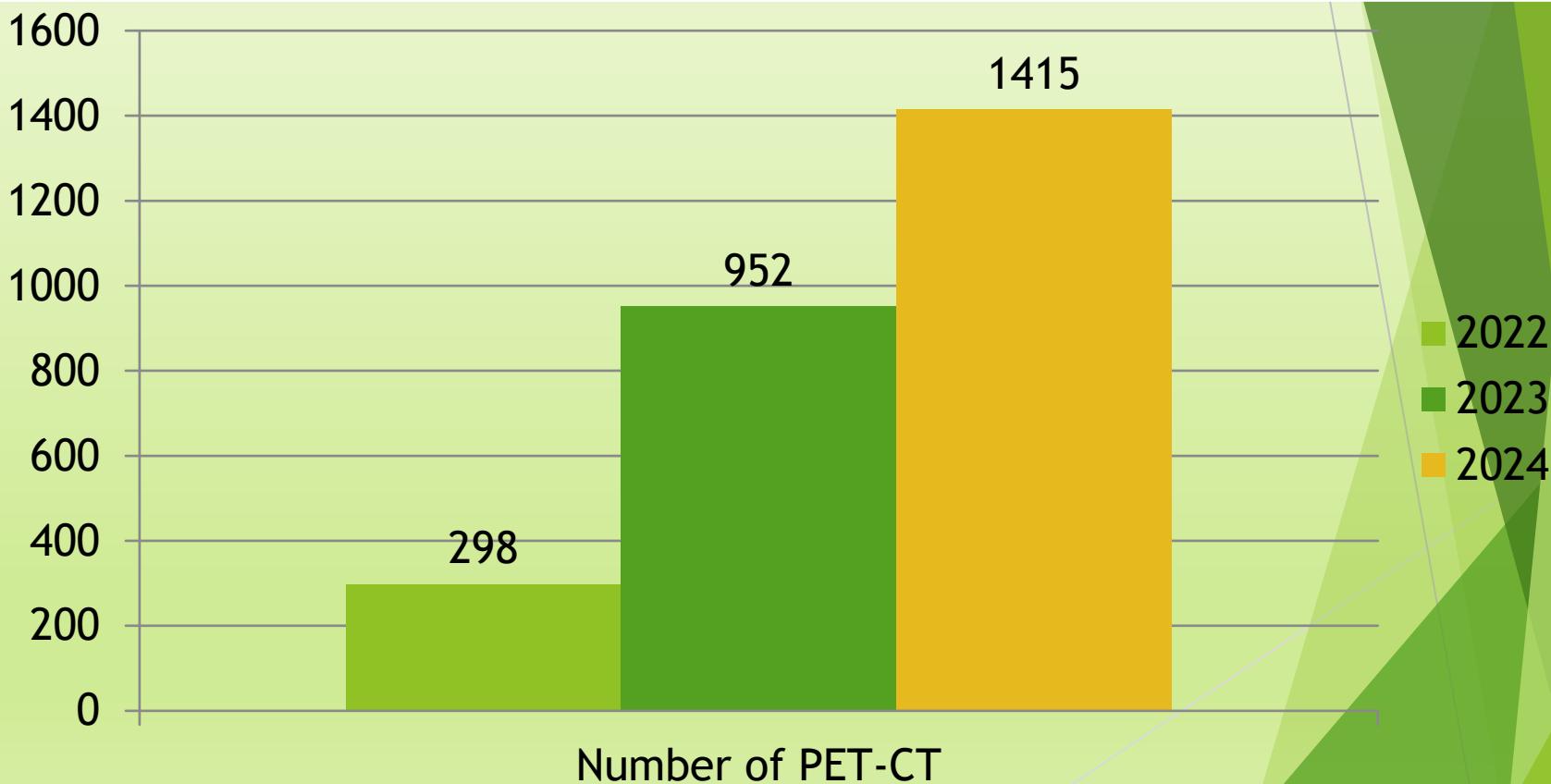
Year	2022	2023	2024
Number of Chemotherapy	2025	2325	3240



# PET-CT



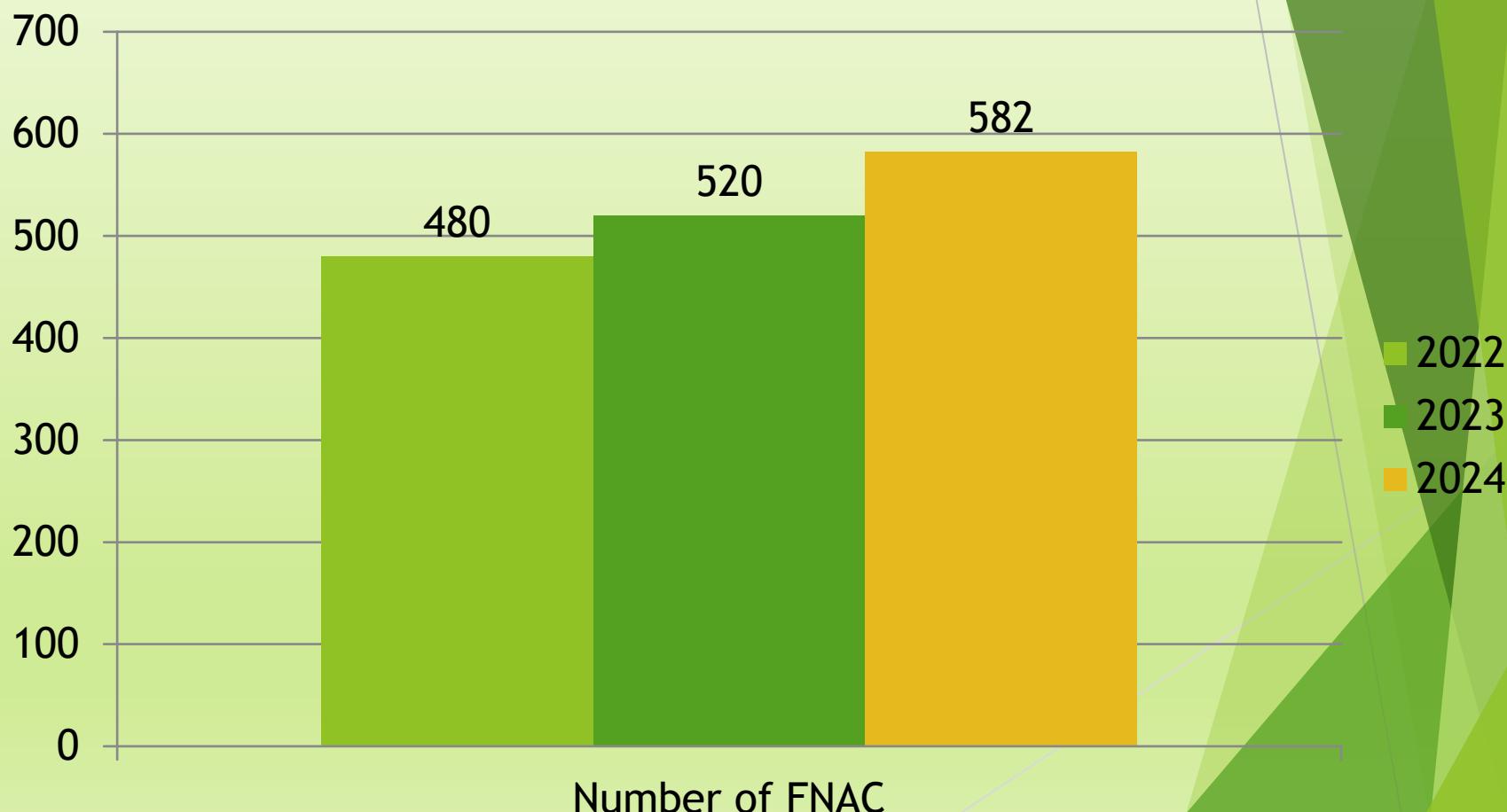
Year	2022	2023	2024
Number of PET-CT	298	952	1415



# FNAC



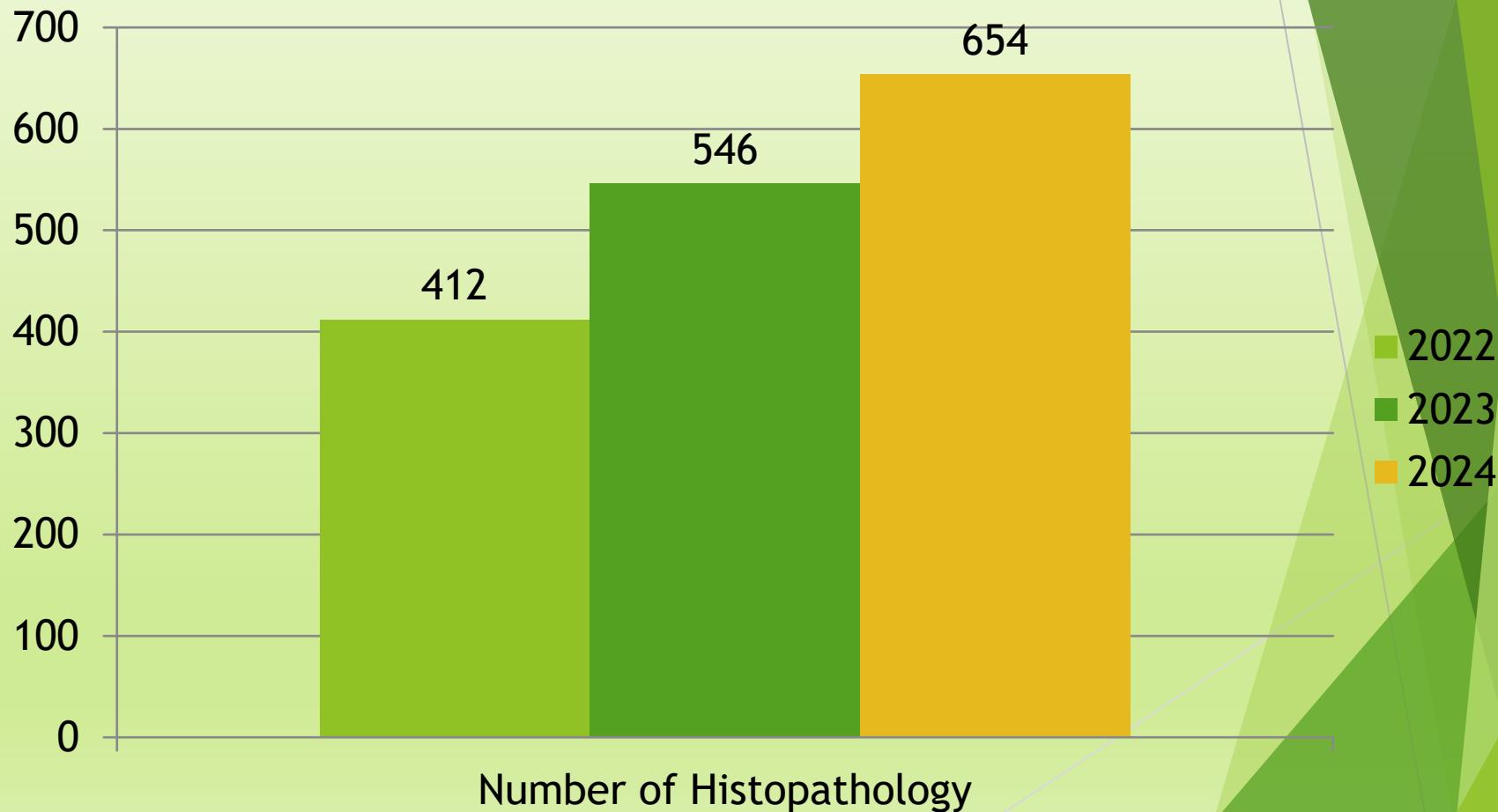
Year	2022	2023	2024
Number of FNAC	480	520	582



# Histopathology



Year	2022	2023	2024
Number of Histopathology	412	546	654



# Diploma in Radio Therapy

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## Programmes Available

Medical Sciences

Dental Sciences

Nursing

Pharmacy

Management

Humanities & Journalism

Paramedical Sciences

## Course Name: Diploma in Radio Therapy Technician

**Course Duration :** 2 Years

**Annual Intake :** 30

**Eligibility :** 10+2 (PCB/PCM) with GEN/OBC: 45%, SC/ST 40% and minimum age 17 Years as on 31 December of the year.

**Admission Process :** Admission is made only in 1st year and is made once in a year. The candidate, who fulfils the eligibility criteria shall get registered. The candidate is required to appear in written test on notified date. The merit list shall be prepared based on test and the admission list will be notified.

**Hostel :** Hostel annual charges shall be as per the category of hostel opted. However cooperative messing charges shall be payable as decided.

**Tuition Fee :** [Check Now](#) , Other charges shall be extra

**Examination System :** Yearly

**Regulation Body :** Uttar Pradesh State Medical Faculty (UPSMF)

**How to Apply :** A candidate seeking admission shall contact admission cell and get registered with university on the prescribed form. All registered candidates shall appear in the written admission test on date assigned. Candidates as per admission list shall report for admission.

# Staff Details



S. No.	Staff	Numbers
1	Nursing Staff	44
2	Paramedical Staff	16
3	Administration	28
4	Ward Boys/Aaya	35
5	House Keeping	34

# Resources Required

- ▶ The funding was supported by the institute and various government schemes and TPAs
- ▶ The skilled manpower of doctors, nursing care and paramedical support from the different constituent colleges of the BIU.



# Problems Encountered

- No major difficulty encountered regarding the availability of skilled manpower and financial Support
- The small ailments encountered were addressed as and when required





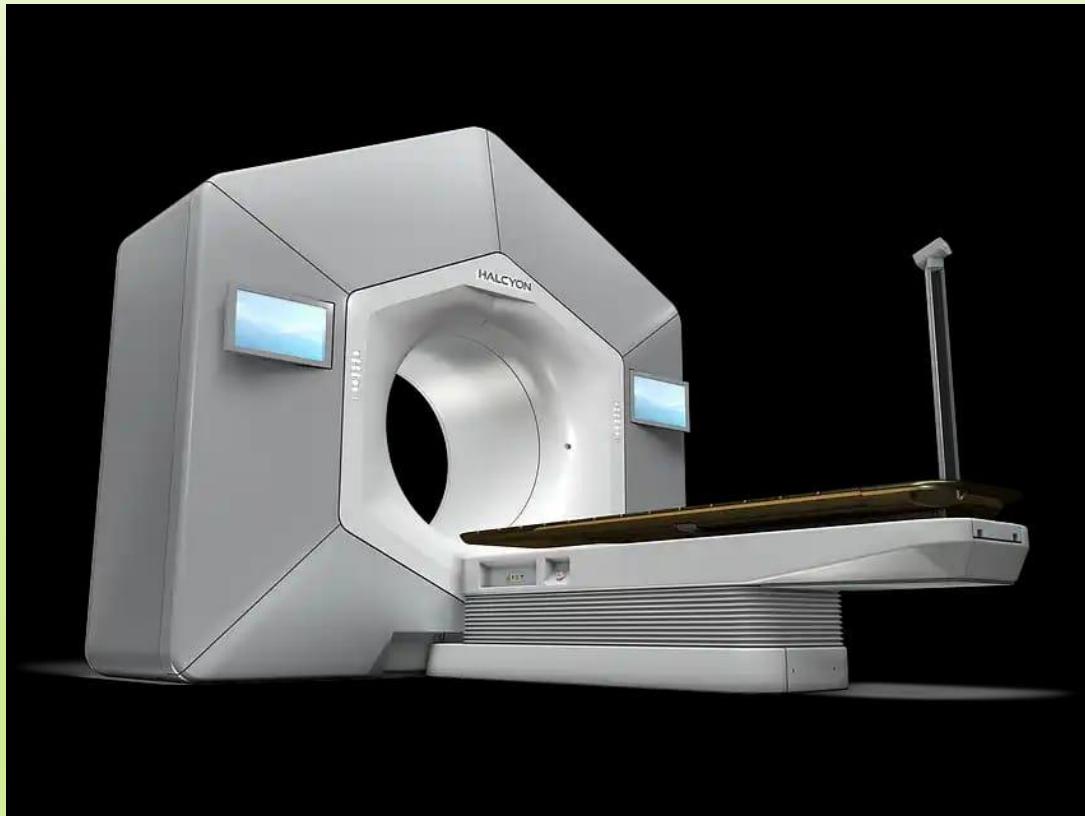
A policy of continuous improvement in  
delivering the healthcare needs is being followed

# Plan for coming year



- ▶ Gamma camera: high dose Iodine therapy and bone scans
- ▶ Linac: Second machine to combat load on first machine
- ▶ Bone marrow transplant
- ▶ Transfusion Medicine department

# LINAC for Radiotherapy - HALCYON BOLD



# Gamma camera system - GE NM 830





# Department of Transfusion Medicine



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## Family Adoption Program at Rohilkhand Medical College and Hospital

A Step Toward Community-Oriented Medical Education

### Introduction

The Family Adoption Program (FAP) is a visionary initiative under the National Medical Commission (NMC)'s Competency-Based Medical Education (CBME) guidelines. It reflects a paradigm shift in medical education — from classroom-centered learning to real-world, community-based experience. At Rohilkhand Medical College and Hospital (RMCH), Bareilly, this program is implemented with a strong commitment to developing socially accountable, empathetic, and community-aware doctors.

Under this program, each MBBS student adopts five families, with the aim of delivering continuous, comprehensive, and culturally sensitive care. The students engage in regular visits, health education, follow-ups, and disease prevention activities, contributing to both their professional development and community welfare.

### Vision and Objectives of the Family Adoption Program

The overarching goal of FAP is to bridge the gap between theoretical learning and practical application in a community setting. It fosters a deeper understanding of the social determinants of health and cultivates essential professional qualities in medical students.

#### Key Objectives:

- To instill empathy and professionalism in medical students.
- To familiarize students with rural and urban community health needs.
- To promote preventive, promotive, and rehabilitative health practices.
- To provide early clinical exposure and enhance students' communication skills.
- To build a sustainable doctor-patient relationship from the undergraduate level.

### Implementation at RMCH

At RMCH, the Family Adoption Program is executed in close alignment with NMC's structured plan, with additional focus on community engagement, health promotion, and follow-up care.

#### 1. Selection of Families

- Each first-year MBBS student is assigned five families from surrounding urban or rural areas.
- The families are selected through community surveys by the Department of Community Medicine.
- Priority is given to underserved populations to maximize the health impact.

#### 2. Orientation and Training

- Students undergo preliminary training on communication skills, ethical behavior, and basics of



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community medicine.

- They are taught how to conduct family health surveys, maintain records, and identify risk factors for diseases.

### 3. Regular Visits and Follow-ups

- Students make regular visits (monthly or bi-monthly) to the adopted families.
- Visits are planned and documented under the supervision of faculty members.
- During each visit, students assess general health, sanitation, nutrition, vaccination status, and health-seeking behavior.

### Activities During Visits

Each student performs a variety of meaningful activities during family visits, helping improve public health awareness and early disease detection.

#### 1. Health Assessment

- Recording vital signs, nutritional status, and anthropometric measurements.
- Identification of high-risk individuals — e.g., elderly, pregnant women, infants.

#### 2. Health Education

- Educating families about balanced nutrition, personal hygiene, safe drinking water, and vector control.
- Counseling on family planning, immunization, and mental health awareness.

#### 3. Disease Screening and Referral

- Early identification of common conditions such as anemia, diabetes, hypertension, and respiratory infections.
- Referring patients to RMCH hospital for further investigation or treatment.

#### 4. Health Promotion and Behavior Change

- Motivating families to adopt healthy lifestyles.
- Encouraging regular medical check-ups, physical activity, and tobacco cessation.

#### 5. Documentation and Reporting

- Maintaining a Family Health Folder for each household.
- Preparing periodic reports and presenting findings during academic discussions.

### Supervision and Evaluation

The Department of Community Medicine at RMCH provides ongoing mentorship to students throughout the program.

Role of Faculty:

- Conducting field visits with students.



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- Reviewing documentation and offering constructive feedback.
- Ensuring students follow ethical and professional norms.

Evaluation Methods:

- Internal assessment based on logbook entries, communication skills, and understanding of social determinants.
- Community feedback is also considered to assess students' impact and behavior.

## Educational Impact on Students

FAP at RMCH enriches students with real-life insights that no textbook can offer. It transforms young learners into responsible, community-focused healthcare professionals.

Key Learning Outcomes:

- Improved clinical acumen and soft skills like empathy and listening.
- Awareness of public health systems, government schemes, and national programs.
- Better understanding of cultural and socioeconomic diversity in patient care.
- Encouragement to pursue careers in primary care and public health.

## Community Benefits

While students gain experience, families receive a wide range of health benefits. The program builds trust between the institution and the community, acting as a stepping stone for universal health coverage.

Positive Outcomes for Families:

- Early detection and timely treatment of illnesses.
- Greater awareness of preventive healthcare.
- Improved maternal and child health indicators.
- Enhanced access to government welfare schemes.



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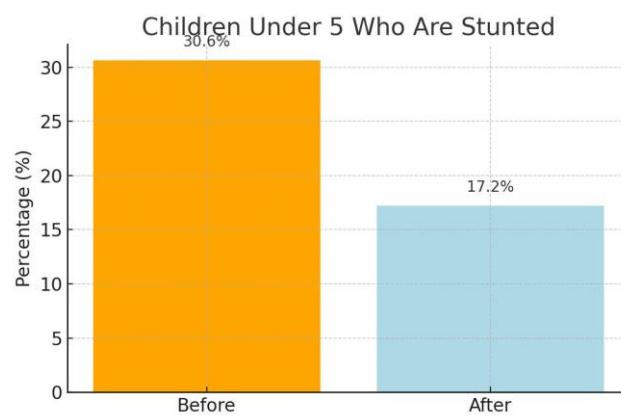
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## EVIDENCE – ANALYSIS BY STUDENTS





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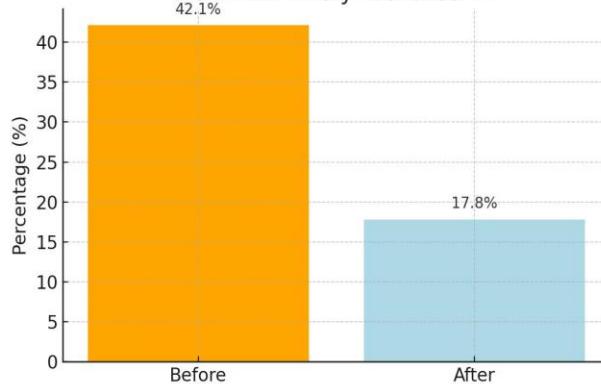
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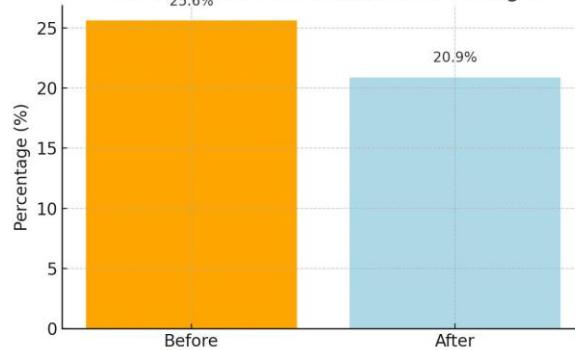
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## Men Who Are Overweight or Obese

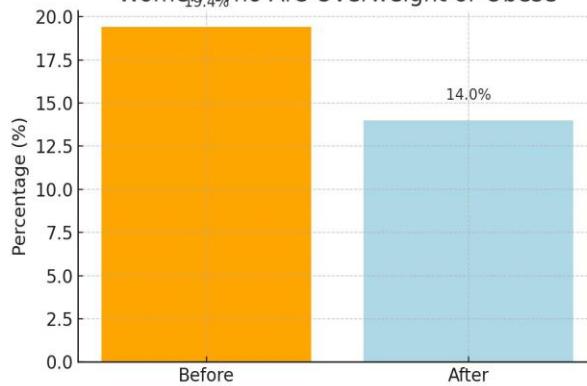
### Men with Mildly Elevated BP



## Children Under 5 Who Are Underweight



## Women Who Are Overweight or Obese





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## Challenges and Solutions

Like any large-scale community program, FAP also faces certain challenges.

Common Challenges:

- Language or cultural barriers.
- Irregularity in family availability during visits.
- Maintaining long-term motivation among students.

Solutions at RMCH:

- Use of local language training and community volunteers as interpreters.
- Flexibility in visit schedules and incentivizing family participation.
- Regular interactive sessions, storytelling, and peer presentations to keep students engaged.

## Future Directions

RMCH plans to expand the scope of the Family Adoption Program in the following ways:

- Integration with digital tools like mobile health apps and telemedicine support.
- Collaboration with local health authorities for broader impact.
- Inclusion of interdisciplinary teams involving nursing and paramedical students.

## Conclusion

The Family Adoption Program at Rohilkhand Medical College and Hospital is more than just a curricular requirement — it is a transformative journey for medical students and a lifeline for the community. By adopting five families and conducting regular visits, students develop a deep sense of social responsibility and clinical empathy.

The program not only strengthens the doctor-patient bond from an early stage but also aligns with India's vision of "Health for All." It instills in future doctors the core values of the profession: compassion, service, and community leadership. As healthcare challenges become more complex, such community-based educational initiatives are crucial for building a resilient and people-centered health system.