

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

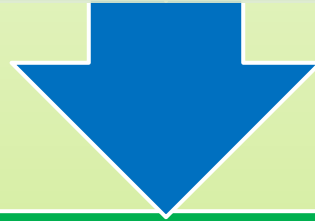
For our Nation



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

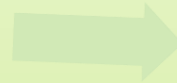
Trained
Healthcare
Professionals



Sustained
Financial
Support



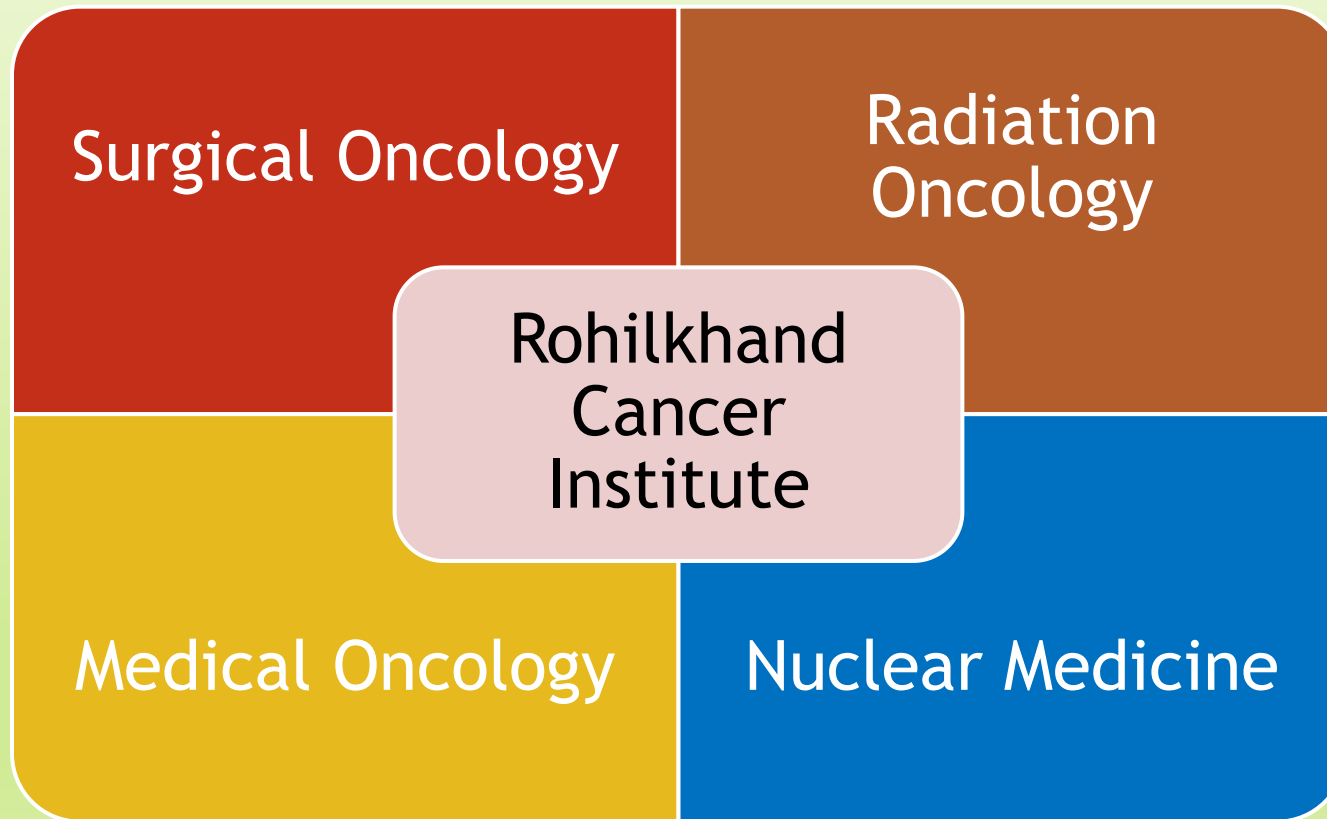
Innovative
Research



How to
fulfill the
gap in the
society



Rohilkhand Cancer Institute



Newer addition



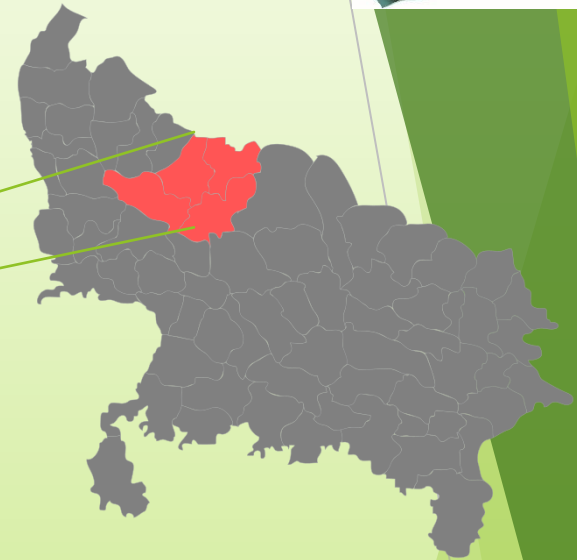
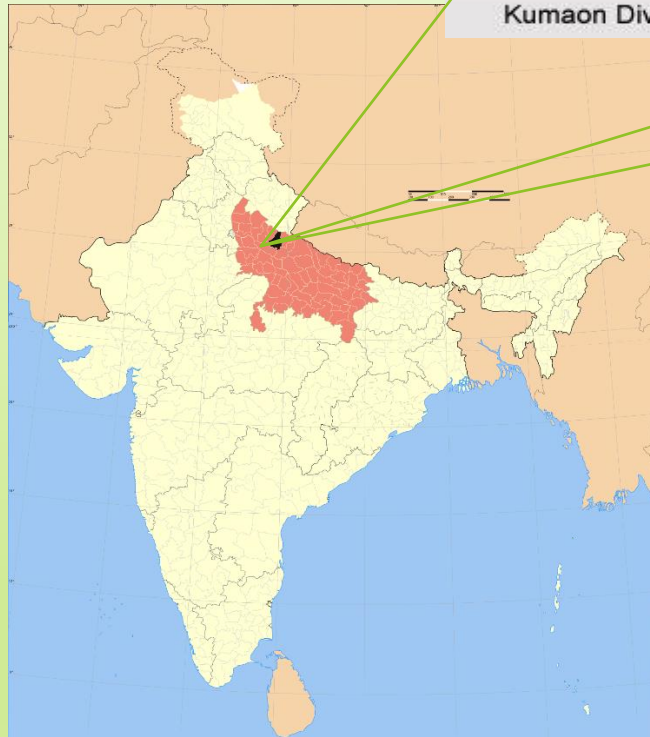
Palliative Oncology

- Pain and symptomatic management
- Emotional and psychosocial support

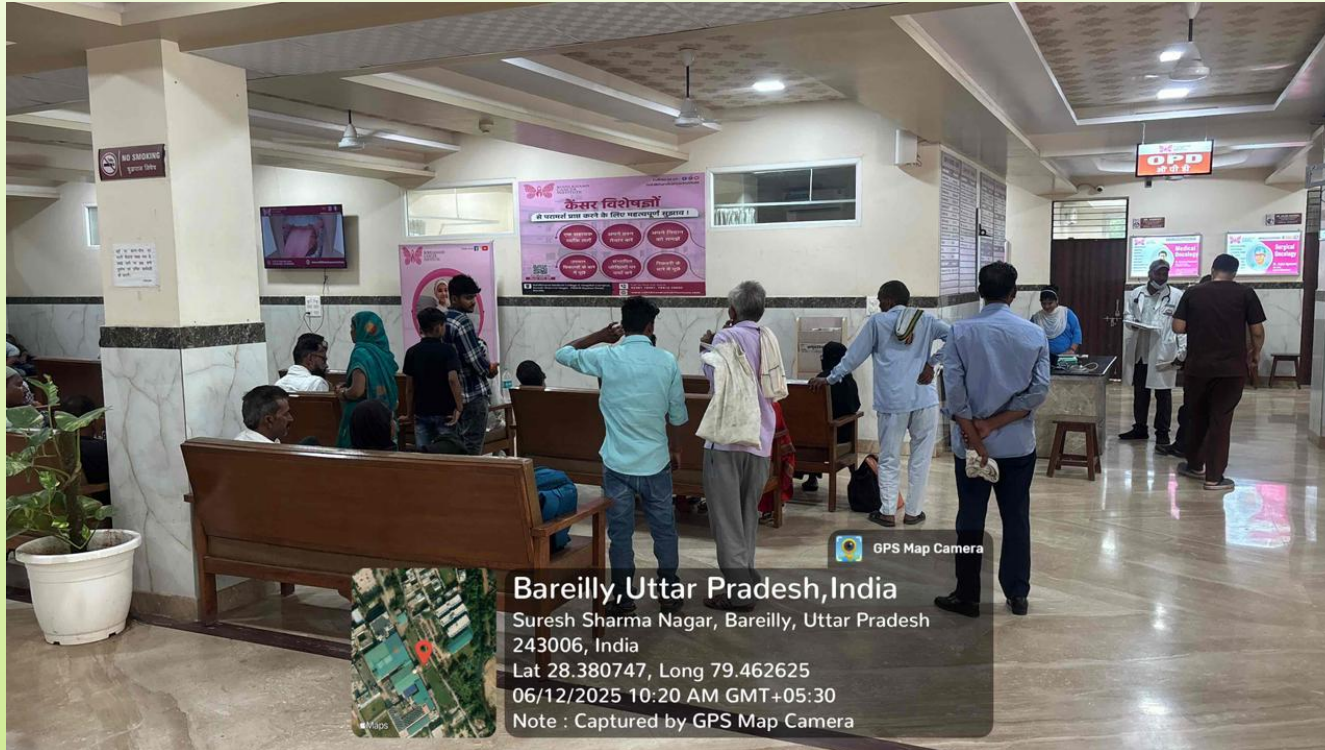
Cancer Rehabilitation

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

Drainage Area



Centrally Air Conditioned Cancer Wing



Out Patient Department



GPS Map Camera

Bareilly, Uttar Pradesh, India

Suresh Sharma Nagar, Bareilly, Uttar Pradesh
243006, India

Lat 28.380747, Long 79.462625

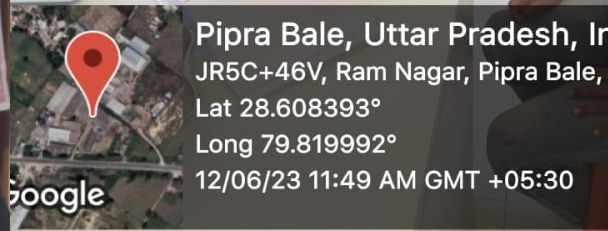
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Note : Captured by GPS Map Camera

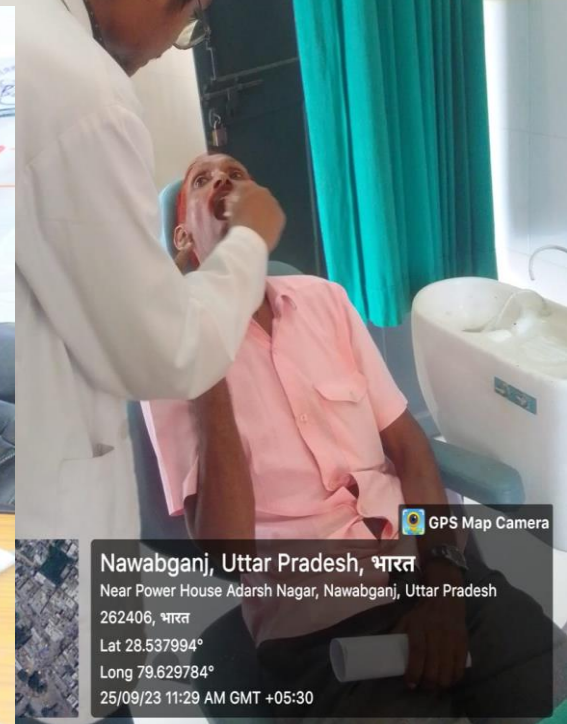


Screening and out reach camps

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



Pipra Bale, Uttar Pradesh, India
JR5C+46V, Ram Nagar, Pipra Bale, U
Lat 28.608393°
Long 79.819992°
12/06/23 11:49 AM GMT +05:30



Faridpur, Uttar Pradesh,
6G3R+C5G, Faridpur, Uttar Pr
Lat 28.203426°
Long 79.540449°
09/06/23 11:42 AM GMT +05:

Aonla, Uttar Pradesh, India
Unnamed Road, Aonla, Uttar Pradesh 243301, India
Lat 28.273651°
Long 79.169139°
17/07/23 12:55 PM GMT +05:30

Nawabganj, Uttar Pradesh, भारत
Near Power House Adarsh Nagar, Nawabganj, Uttar Pradesh
262406, भारत
Lat 28.537994°
Long 79.629784°
25/09/23 11:29 AM GMT +05:30

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

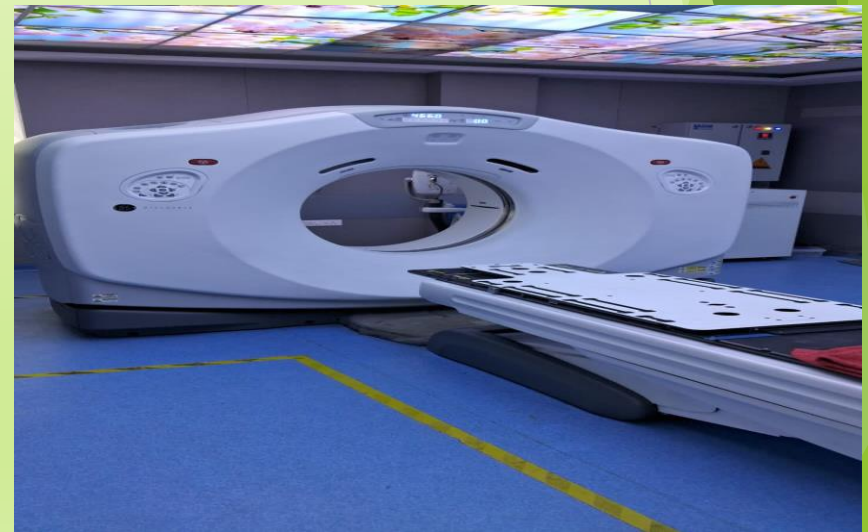


Radiation Oncology

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

Adobe Acrobat AB-PMIAY Report HBCR-Basic Webmail NCG Member Hospi... Cancer Samiksha 15.206

College And Hospital, Bareilly 1/1

Home

PBCR

HBCR

Network & Statistics

Glossary

ICD10 Dictionary

Acknowledgement

References


Feedback

Contact

cancer samiksha

icmr NCDIR

Hospital Based Cancer Registry Network of the National Cancer Registry Programme



Research Centre, New Delhi
254. Ramiah 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. N. Medical College, Solapur

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icmr
 INDIAN COUNCIL OF
 MEDICAL RESEARCH
NCDIR
 NATIONAL CENTER FOR
 DISEASE PREVENTION AND CONTROL

[Dataentry Form](#)

[Search](#)

[Procedure Manual](#)

[HBCR Basic Coreform](#)

[Logout](#)

HBCR Core Form

ROHILKHAND MEDICAL COLLEGE AND HOSPITAL, Bareilly

Reference No: 09010-0000331

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

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	<input type="checkbox"/>	<input type="text"/>	(8) Others	<input type="checkbox"/>	<input type="text"/>
(2) Voter ID	<input type="checkbox"/>	<input type="text"/>	(9) Unknown	<input type="checkbox"/>	
(3) ABHA (Health ID)	<input type="checkbox"/>	<input type="text"/>			
(4) Passport number	<input type="checkbox"/>	<input type="text"/>			
(5) State specific health scheme/s	<input type="checkbox"/>	<input type="text"/>			
		<input type="text"/>			
		<input type="text"/>			
(6) PMJAY	<input type="checkbox"/>	<input type="text"/>			

12. Address of Residence of the Patient

12.1 Place of Usual Residence (✓ TICK ANY ONE)

☐ Urban Areas (Town / Cities)

☐ Non-urban / Rural Areas

House No. or Building No.:

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:

13. Codes According to ICD-10:

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

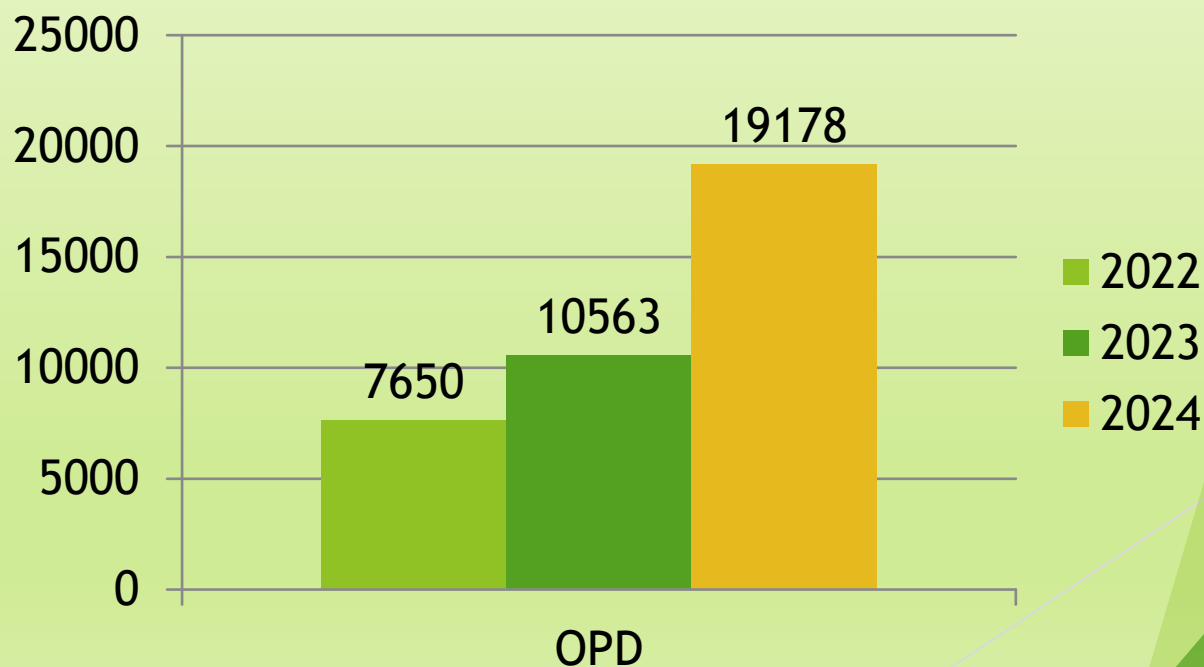


Since 2022, there is an increase in the number of:

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

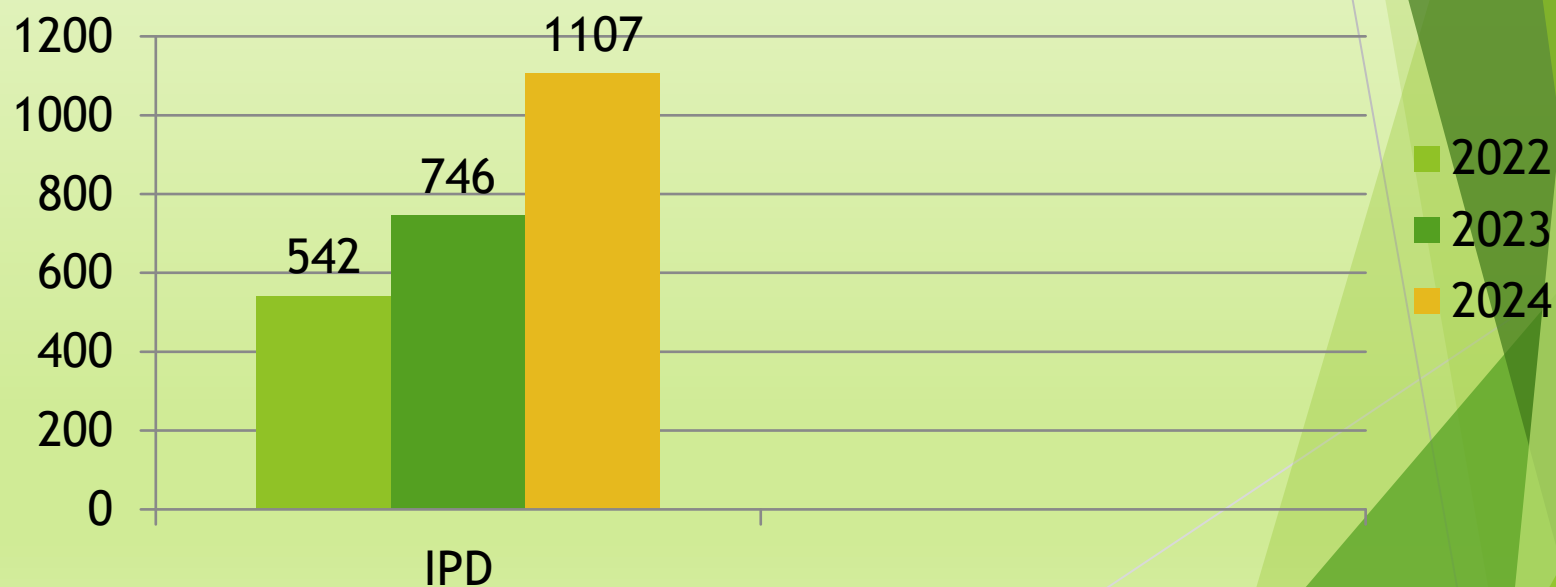
Out Patient Department (OPD)

Year	2022	2023	2024
OPD	7650	10563	19178



Inpatient Department

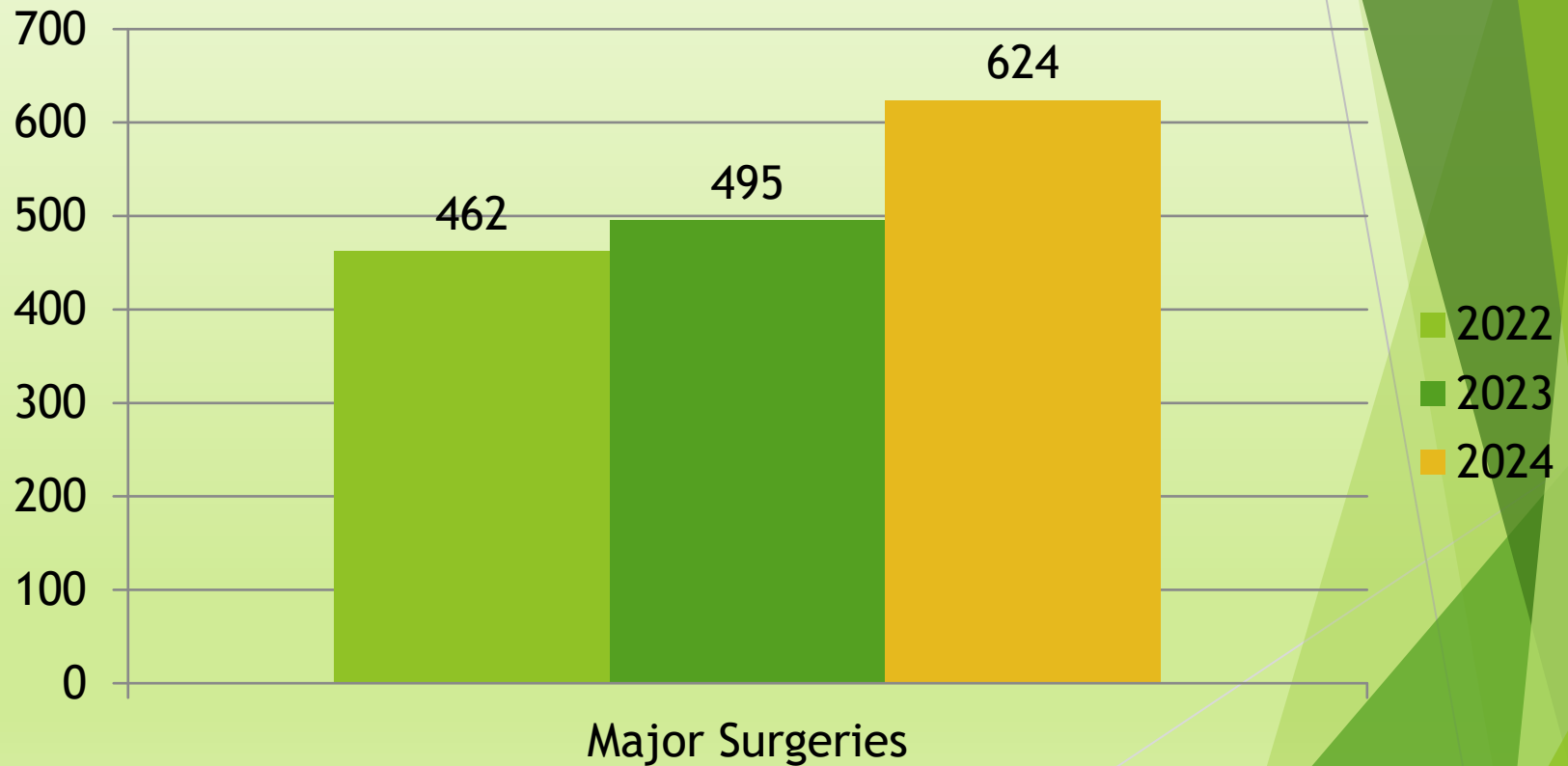
Year	2022	2023	2024
IPD	542	746	1107



Major Surgeries



Year	2022	2023	2024
Major Surgeries	462	495	624

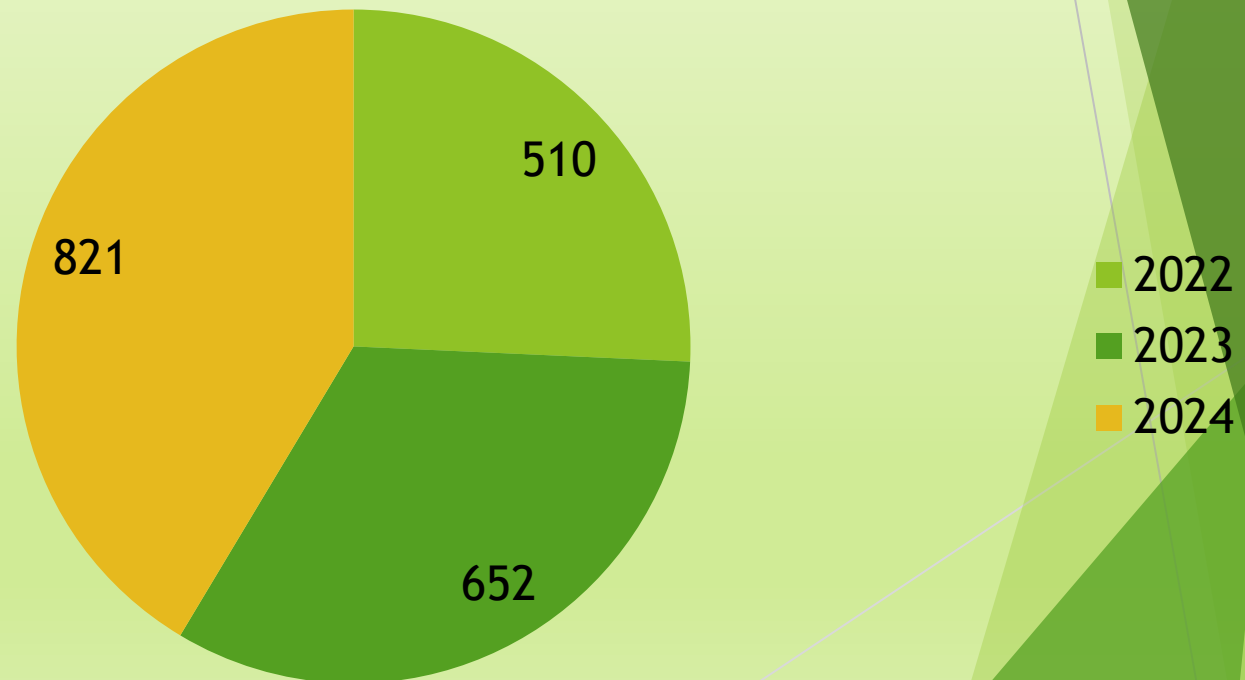


Minor Surgeries



Year	2022	2023	2024
Minor Surgeries	510	652	821

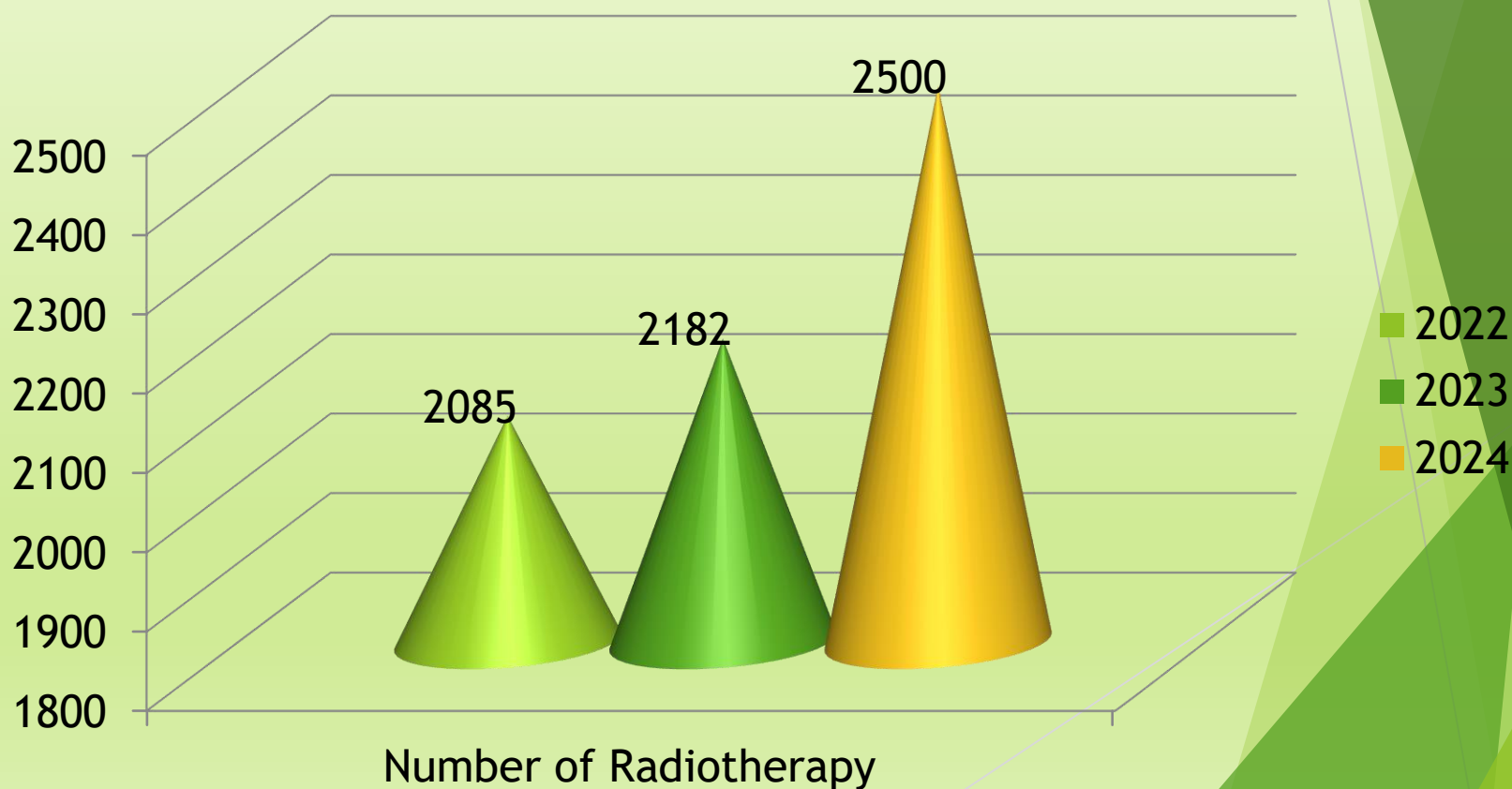
Minor Surgeries



Radiotherapy



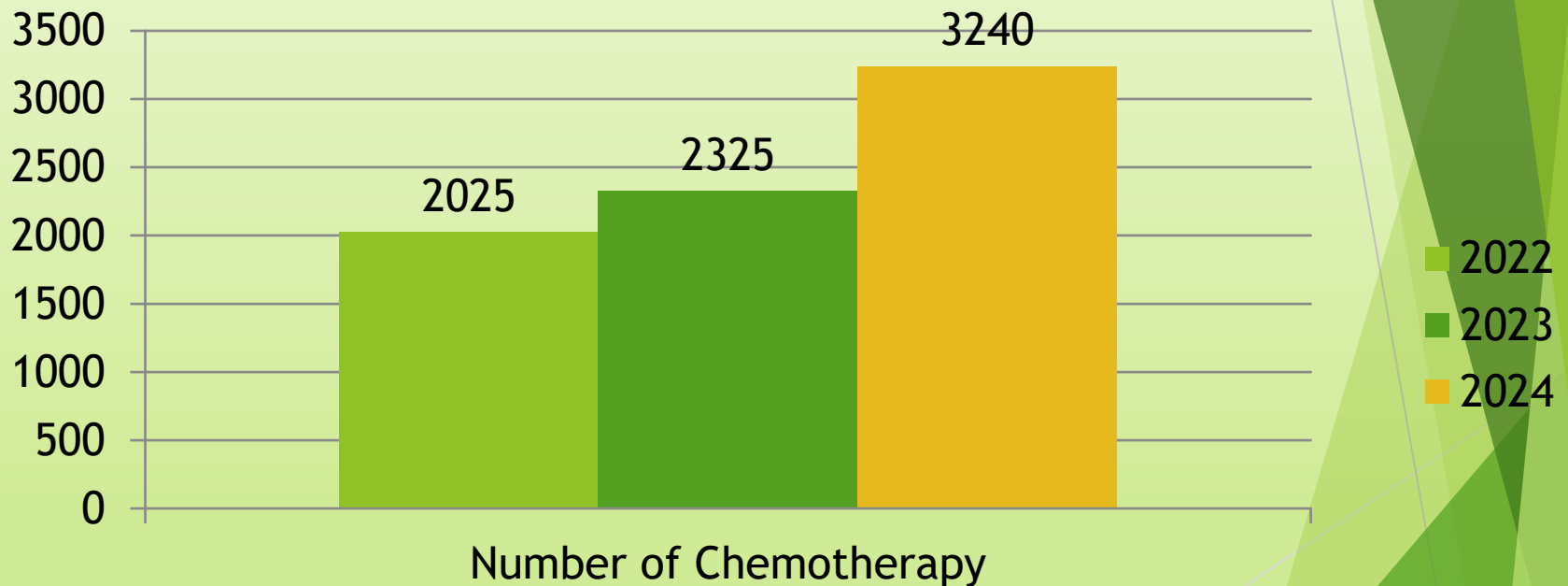
Year	2022	2023	2024
Number of Radiotherapy	2085	2182	2500



Chemotherapy



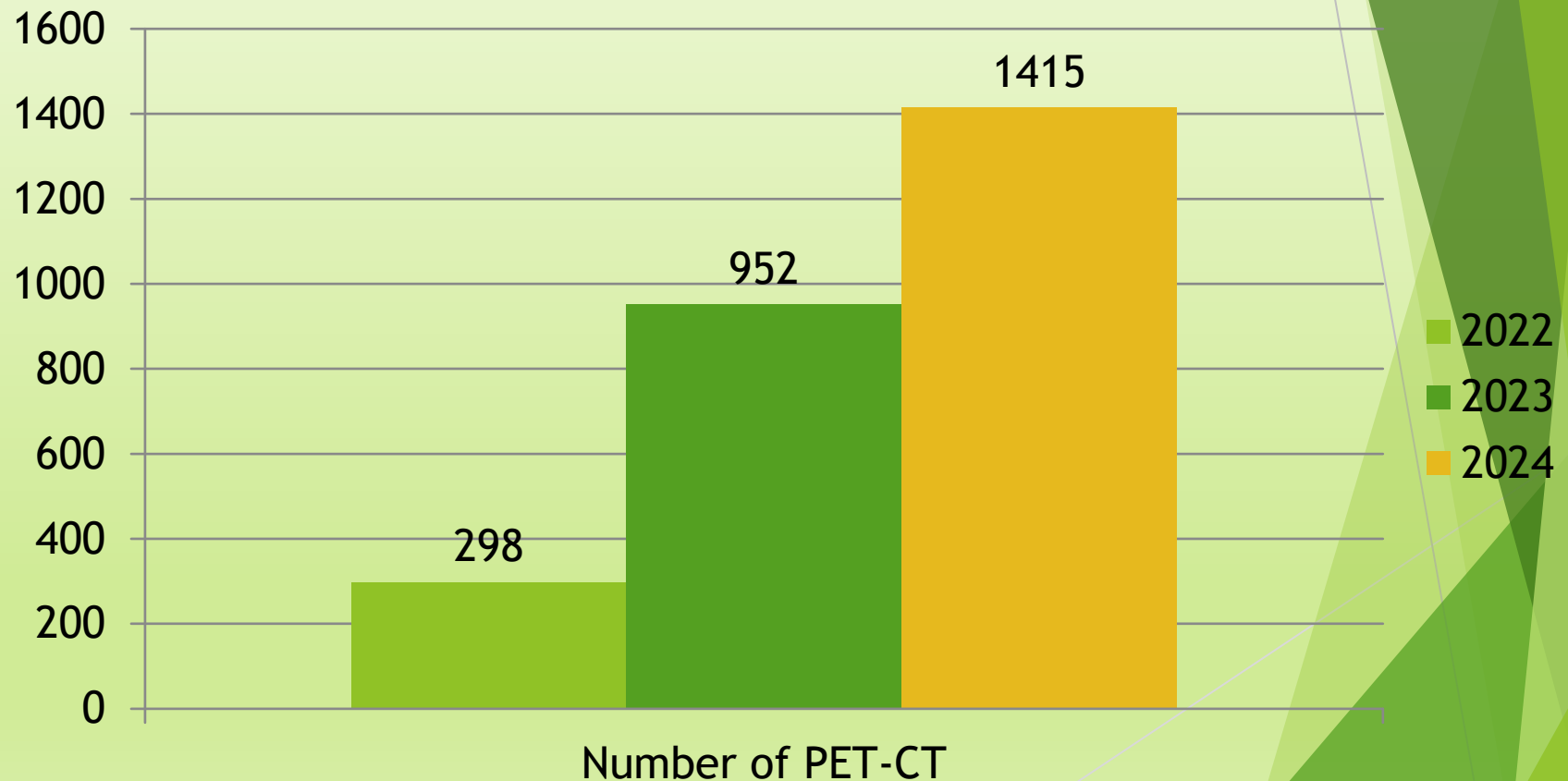
Year	2022	2023	2024
Number of Chemotherapy	2025	2325	3240



PET-CT



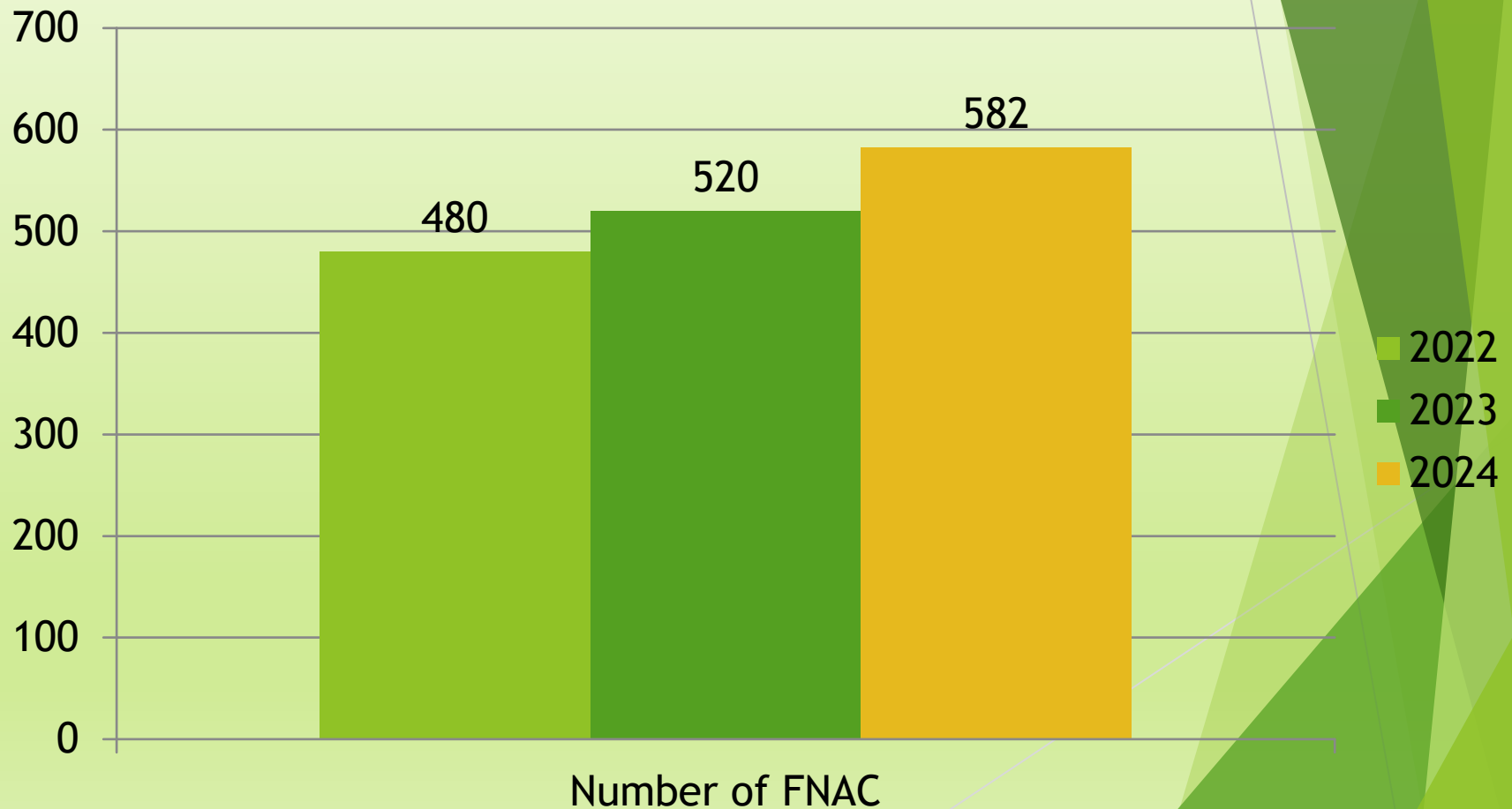
Year	2022	2023	2024
Number of PET-CT	298	952	1415



FNAC



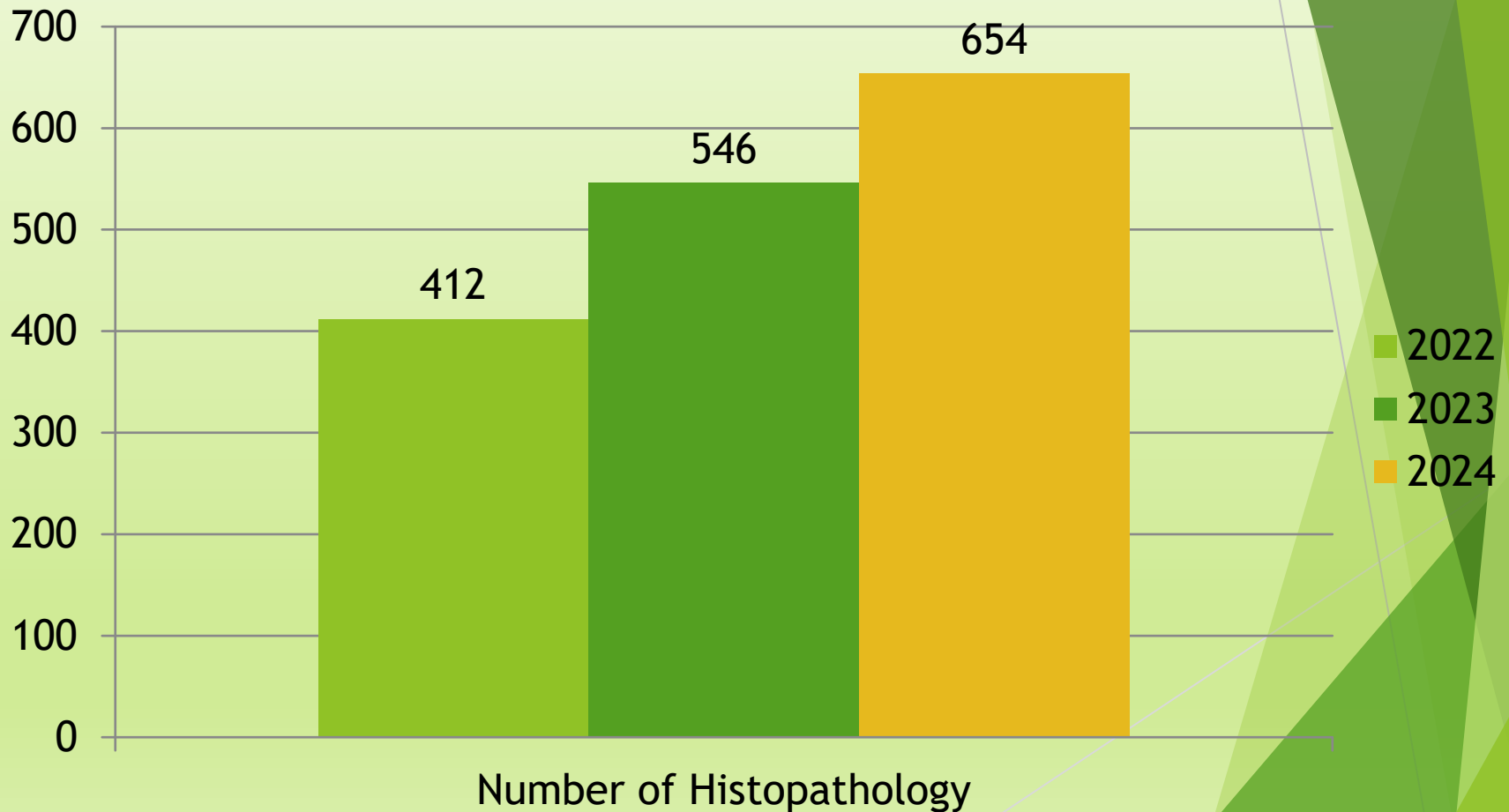
Year	2022	2023	2024
Number of FNAC	480	520	582



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



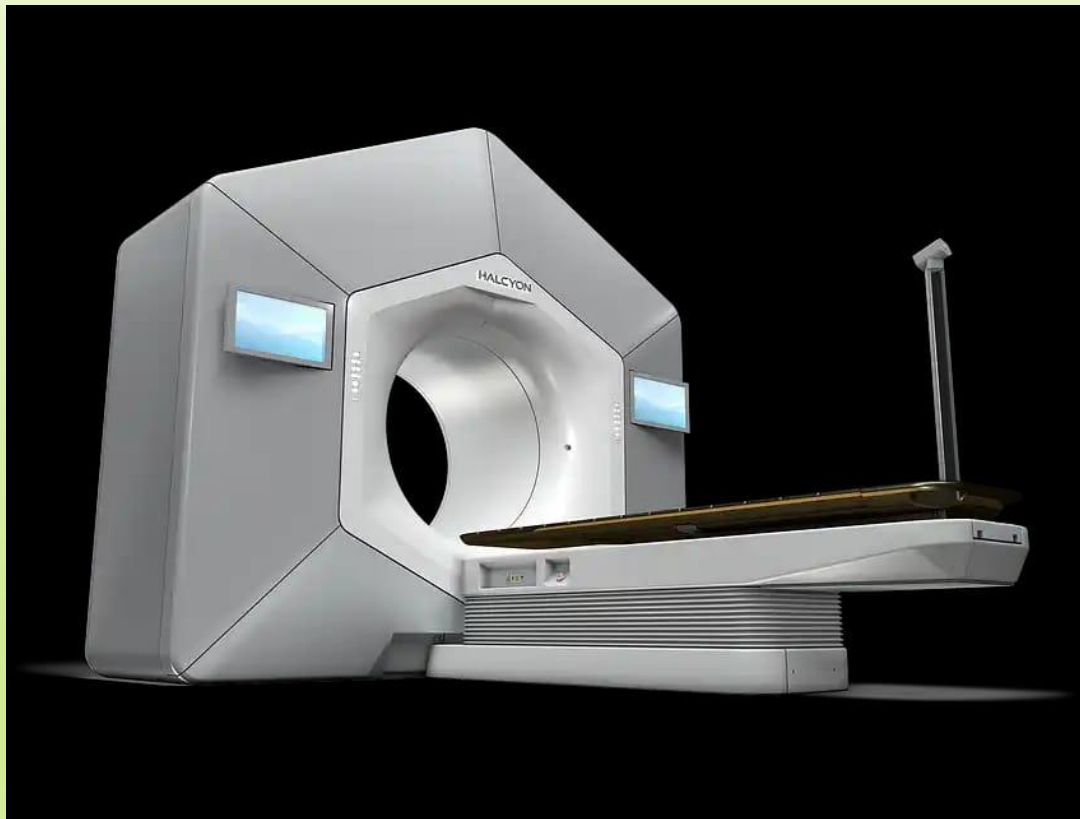
A policy of continuous improvement in delivering the healthcare needs is being followed

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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Email: info@rmchbareilly.com, info@biu.edu.in Website: www.biu.edu.in

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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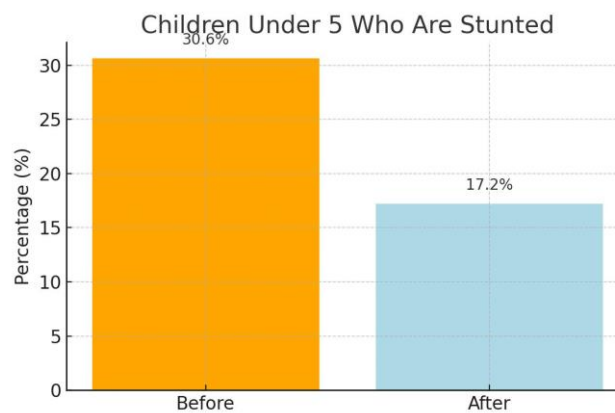
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EVIDENCE – ANALYSIS BY STUDENTS





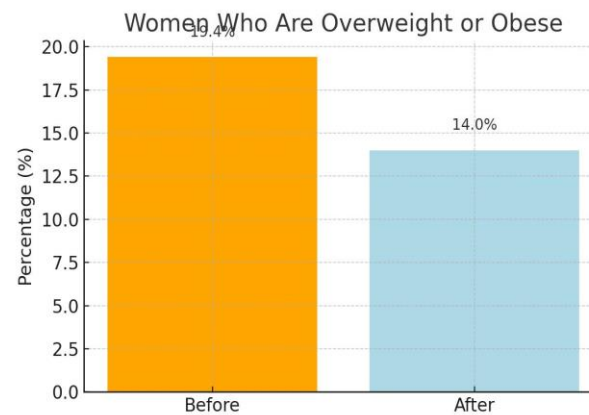
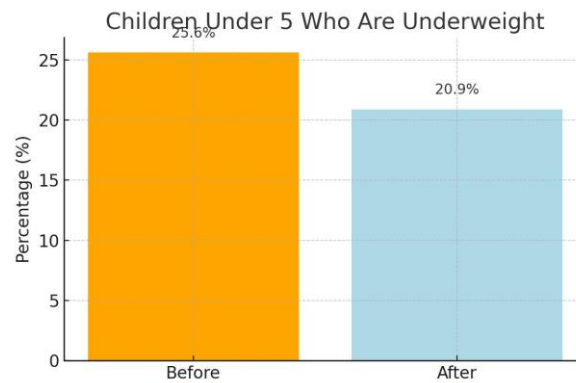
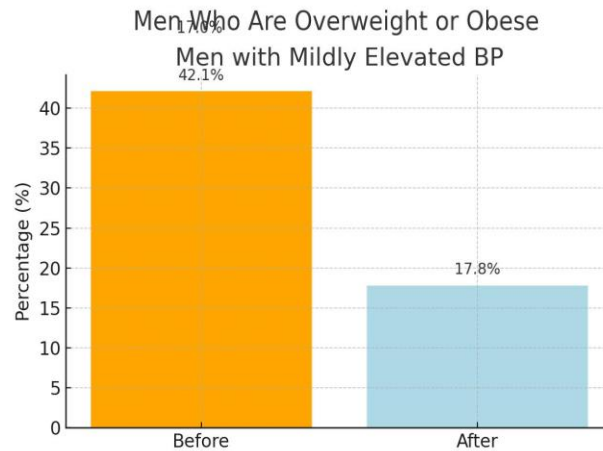
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Challenges and Solutions

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.