



# medanta Cancer Institute

Comprehensive Cancer Care  
Under One Roof





# CONTENTS

Medanta Hospital, Lucknow

---

Our 'Tumour Board' Approach

---

Why Choose Medanta for Cancer Care

---

Diagnostic Services

---

Medical Oncology

---

Radiation Oncology

---

Surgical Oncology

---

Second Opinion at Medanta

---

Real Stories, Real Recoveries

---

Meet Our Specialists

---



# Medanta Hospital Lucknow

Bringing world-class, holistic healthcare at an affordable cost to the citizens of Lucknow, Medanta Super Speciality Hospital has transformed the tertiary and quaternary care landscape in the state and surrounding areas with its exceptional medical professionals, advanced technology, and comprehensive range of specialities. With an expansive campus sprawled across 12.58 acres, the hospital stands as a testament to our commitment of bringing top-notch medical care to all regions of the country. We are well-equipped to cater to a diverse range of medical needs, ensuring our patients receive comprehensive and specialised treatment under one roof.

- + 1,000 installed bed capacity, 202 ICU beds, 20 operating theatres
- + 200+ doctors, 30+ specialities, 3,000+ workforce
- + Leaders in robotic and minimally invasive surgeries across specialities
- + Multidisciplinary approach for critical and complex cases
- + State-of-the-art diagnostics: AI-powered imaging, genomics, and molecular testing
- + International infection control and patient safety protocols
- + Academic excellence with an active clinical research ecosystem
- + 24/7 emergency, trauma, ECMO, and transplant programme



# Medanta Cancer Institute

- + 50+ Cancer Specialists
- + 100+ Trained Oncology Staff
- + 100+ Chemotherapy Beds

## ~20,000

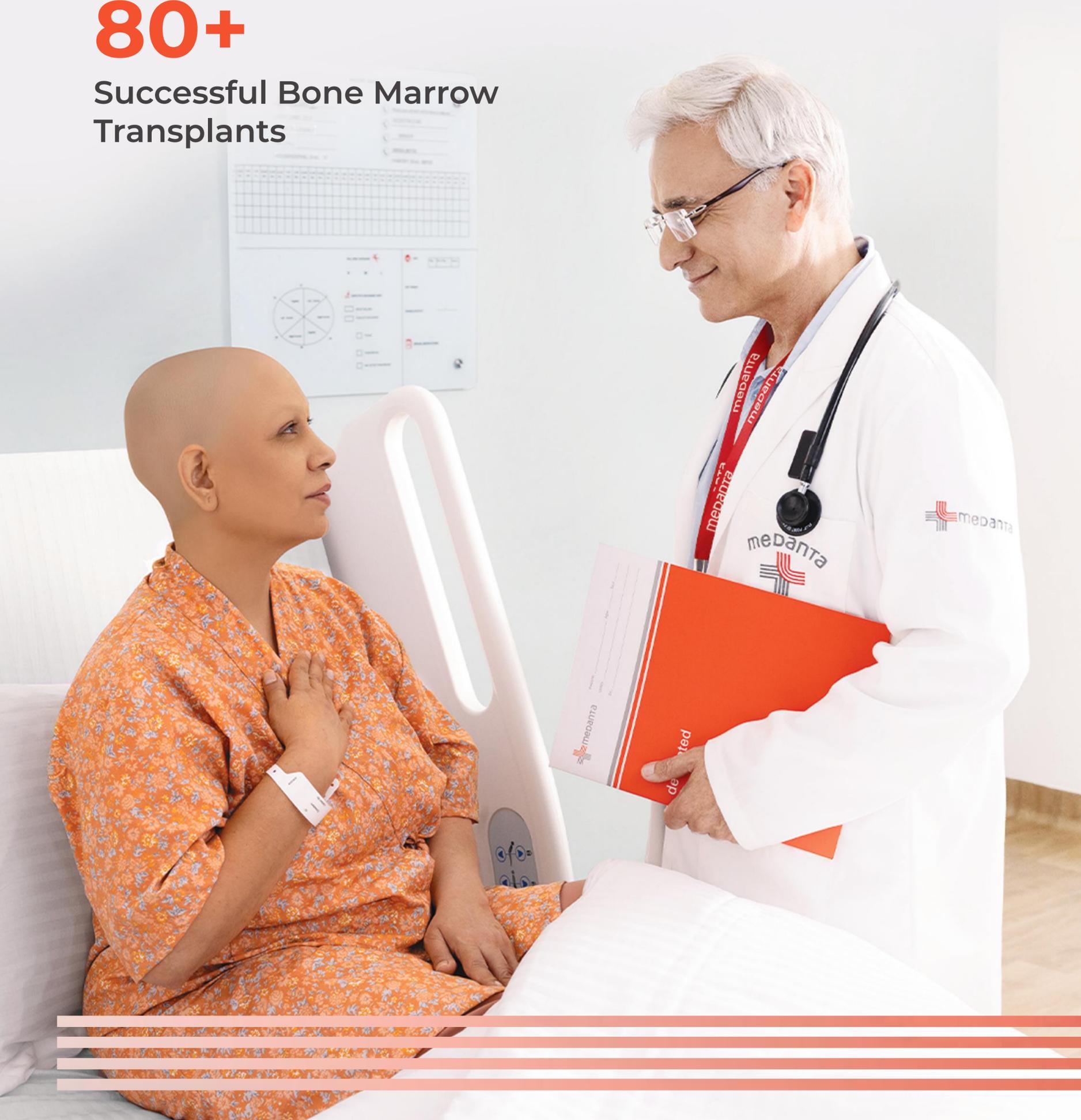
Patients Treated Annually

## 300+

Robot-Assisted Cancer Surgeries

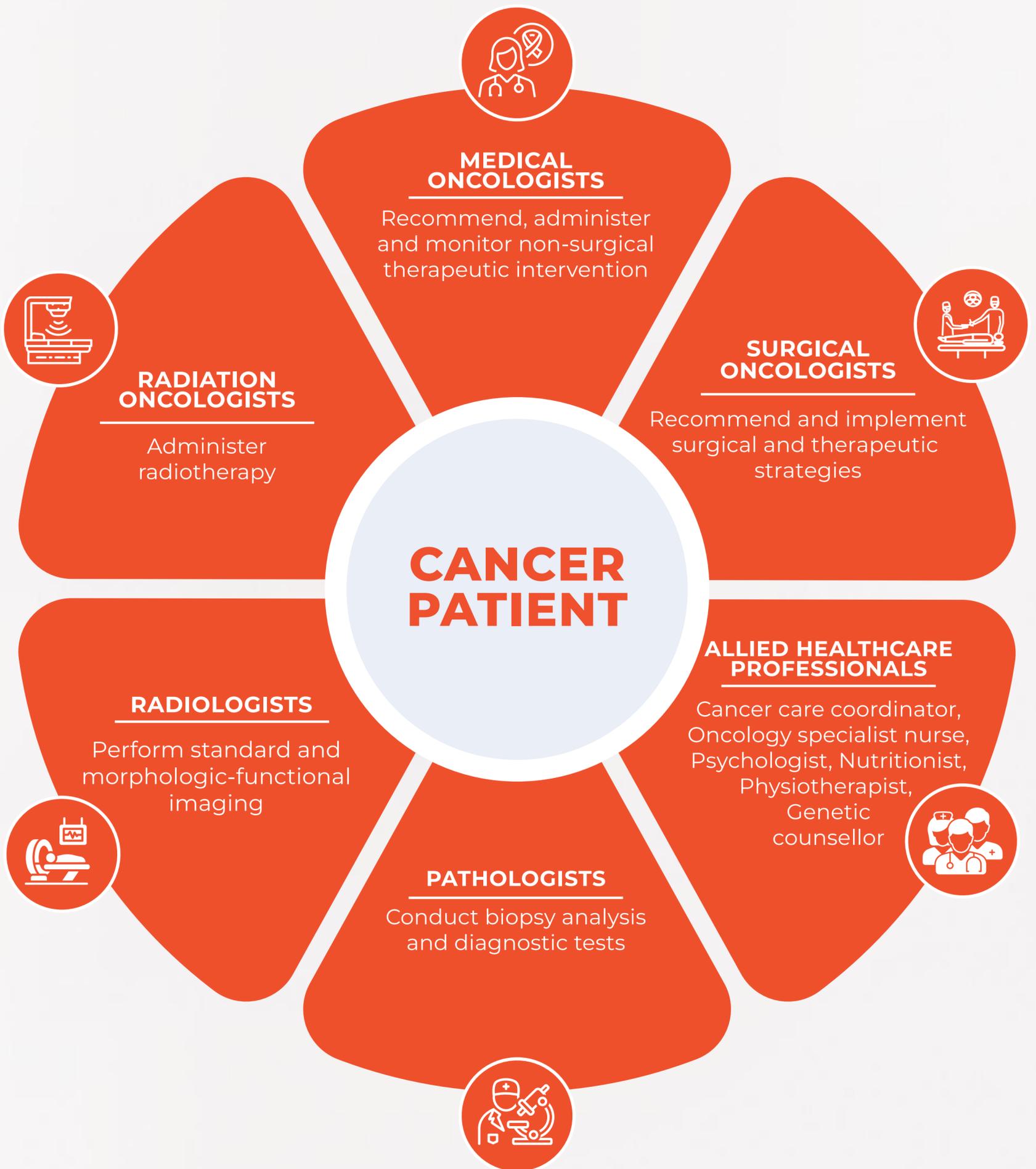
## 80+

Successful Bone Marrow  
Transplants



# Our 'Tumour Board' Approach to Cancer Treatment

The Medanta Tumour Board model brings together specialists across disciplines to craft the most effective, personalised treatment plans centred on long-term outcomes and quality of life.



# Why Choose Medanta for Cancer Care?

Advanced Science. Personalised Support.  
A Journey Built Around You.



## Accurate Diagnosis for Tailored Treatment Plans

PET-CT, MRI-guided biopsies, gamma camera for nuclear imaging, advanced cytopathology, histopathology, haematopathology, molecular diagnostics, and genetic screening



## Personalised Risk Assessment

Genetic testing and counselling help patients and families understand hereditary risks and plan proactively



## Multi-Specialist Tumour Board

A collaborative team of specialists creates a personalised treatment plan tailored to your needs



## Organ-Specific Expertise

Dedicated senior oncologists and surgeons for breast, lung, brain, blood, head and neck, colon, uterine, ovarian, prostate, kidney, heart, and other organs



## Advanced Technologies for Better Outcomes

Varian Edge with HyperArc™, SBRT, brachytherapy, and robotic surgery ensure high accuracy with fewer side effects



## Whole-Person Support

Access to nutritionists, psychologists, physiotherapists, pain specialists, rehab, and palliative care under one roof



### **Dedicated Care Managers**

A single point of contact to coordinate your appointments, procedures, and everything in between, so you can focus on recovery



### **Seamless Patient Experience**

Everything from registration to billing and insurance is integrated for a smooth, hassle-free experience



### **Financial Help Desk**

Guidance on government schemes and assistance with payment plans to reduce treatment delays



### **Care Beyond Treatment**

Follow-ups, lifestyle advice, and support groups to help you transition confidently into recovery



# Diagnostic Services

From high-resolution imaging and guided biopsies to advanced genetic screening and pathology, every step is handled by specialised teams.

## Imaging and Radiology

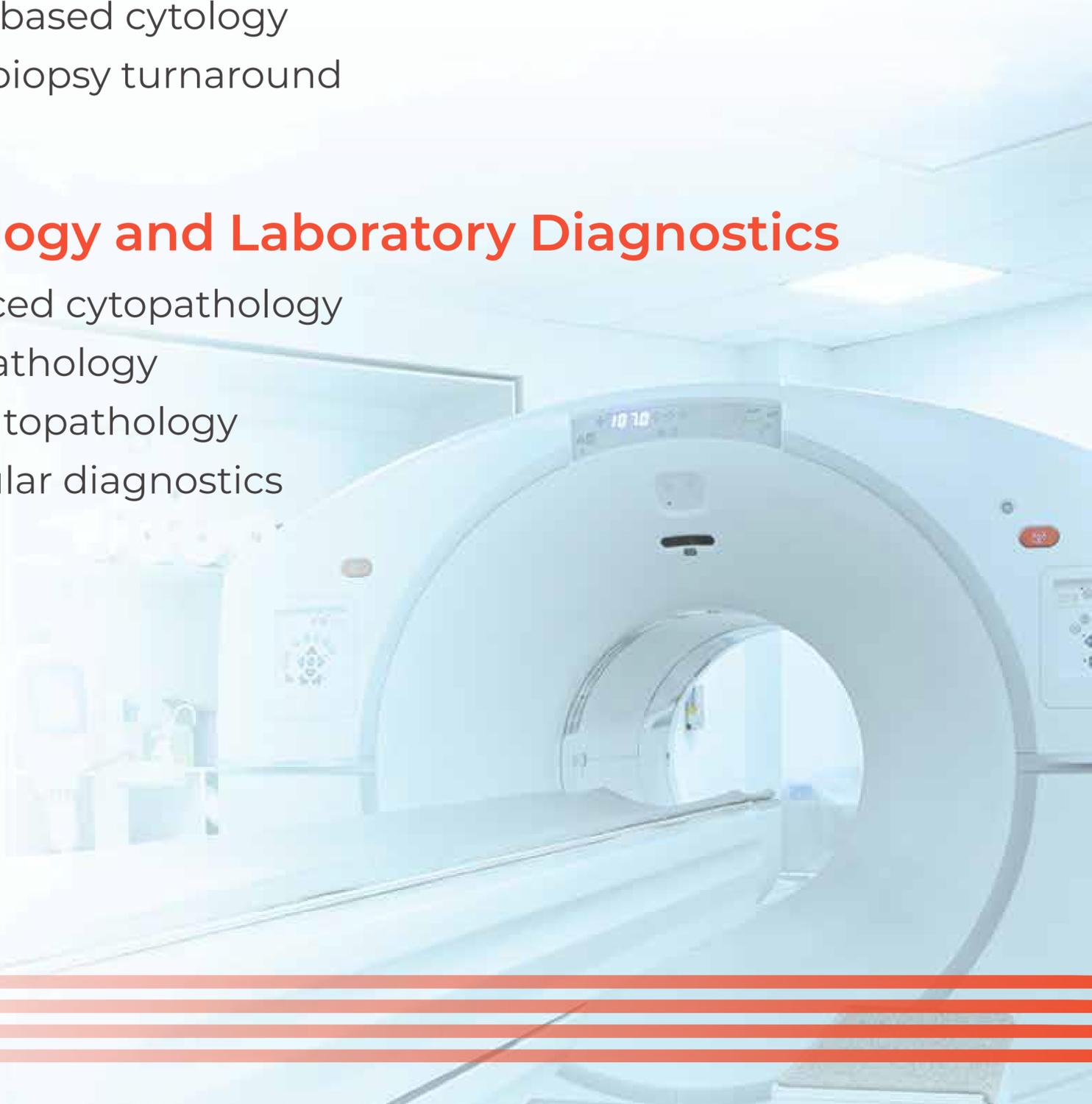
- + PET-CT Scan, including advanced 4D PET-CT for dynamic tumour tracking
- + High-resolution 3 Tesla MRI
- + Whole-body CT scans
- + 2D- and 3D-digital mammography
- + Ultrasound (including abdominal, pelvic, and breast)
- + Gamma camera for nuclear imaging

## Biopsy and Sampling

- + MRI-guided and ultrasound-guided biopsy procedures
- + FNAC
- + Core-needle biopsy
- + Liquid-based cytology
- + Rapid biopsy turnaround

## Pathology and Laboratory Diagnostics

- + Advanced cytopathology
- + Histopathology
- + Haematopathology
- + Molecular diagnostics



# Genetic and Molecular Diagnostics

## Hereditary Cancer Testing

BRCA1 & BRCA2 panel, HRR gene panel, hereditary cancer panel, clinical and whole exome sequencing, mitochondrial genome analysis

## Comprehensive Tumour Profiling (NGS Panels)

Organ-specific NGS panels for lung, colorectal, gastric, gynaecological, and prostate cancers; Multi-gene panels including a 52-gene panel, oncomine V3 (161 genes)

## Liquid Biopsy (cfDNA)

Non-invasive mutation detection from circulating tumour DNA

## Non-invasive mutation detection from circulating tumour DNA

EGFR, KRAS, NRAS, HRAS, BRAF, IDH1/2, KIT, MPL, PDGFRA

## Haematologic and Metabolic Panels

Myeloid panel, cardiomyopathy profile, metabolic gene profiling (CMS)



# Medical Oncology

Our medical oncology team provides advanced drug-based treatments planned around tumour genetics, cancer stage, and patient tolerance. All treatment plans and therapies are administered in dedicated daycare units with strict infection control, real-time monitoring, and personalised side-effect management.



## Treatment Modalities

- + Chemotherapy
- + Hormone Therapy
- + Immunotherapy
- + Targeted Therapy
- + Biological and Cell-Based Therapies (Monoclonal Antibodies, Cytokines, CAR-T Cell Therapy and Dendritic Cell Vaccines)

## Integrated Services

- + Genetic Counselling
- + Cancer Screening and Preventive Oncology
- + Palliative and Supportive Care
- + Patient and Caregiver Counselling

## Care Delivery Infrastructure

- + Treatment planning with multidisciplinary tumour board
- + Dedicated daycare chemotherapy units with oncology-trained nurses
- + Continuous monitoring of treatment tolerance and toxicity

# Haemato-oncology



Integrated care for leukaemia, lymphoma, and multiple myeloma



Precision diagnostics and personalised therapy across paediatric and adult cases



Globally benchmarked bone marrow transplant programme

## Services and Procedures

- + Personalised chemotherapy protocols for acute and chronic blood cancers
- + Immunotherapy and antibody-based treatments for relapsed disease
- + CAR-T cell therapy eligibility screening and preparatory management
- + Autologous, allogeneic, haploidentical, and unrelated donor transplants
- + Paediatric transplants for blood cancers
- + Stem cell collection, cryopreservation, and long-term follow-up care
- + GVHD prevention, management, and survivorship monitoring
- + Precision diagnostics: Flow cytometry, bone marrow biopsy, molecular profiling
- + Stem cell transplants for leukaemia, lymphoma, myeloma, and MDS
- + Targeted therapy for FLT3, BCR-ABL, IDH1/2 mutations



# CAR-T Cell Therapy



Among the few centres in India equipped to deliver CAR-T cell therapy



Uses genetically reprogrammed immune cells to target and destroy cancer cells



Effective in relapsed or refractory blood cancers, unresponsive to conventional treatment

## What Makes Our CAR-T Cell Therapy Programme Unique

- + Offered for select cases of relapsed/refractory B-cell acute lymphoblastic leukaemia (ALL), non-Hodgkin's lymphoma, and other high-risk blood cancers
- + Performed by a multidisciplinary team of haemato-oncologists, transplant specialists, and immunotherapy experts
- + Apheresis-based T-cell extraction, followed by laboratory modification using viral or non-viral vectors
- + Reinfusion after lymphodepleting chemotherapy, followed by high-dependency monitoring in transplant-grade ICUs
- + Proactive management of complications like cytokine release syndrome (CRS) and neurotoxicity
- + In-house or partnered cell processing facilities with cryopreservation and strict quality control
- + Integrated psychosocial and nutritional support throughout the treatment cycle

# Radiation Oncology

At the heart of our approach lies cutting-edge technology, deeply personalised treatment planning, and a team committed to delivering care with clinical excellence and compassion.



# A Full Spectrum of Cutting-Edge Radiation Technologies for Personalised Treatment

## VARIAN EDGE WITH HYPERARC™



- + First in North India to introduce the Varian Edge platform
- + Uses high precision, motion-tracked treatments for brain, spine, lung, and more
- + Capable of IMRT, VMAT, IGRT, SBRT, SRS, and SRT
- + HyperArc enables single-isocenter treatment delivery in multiple lesions
- + Facilitates non-invasive radiosurgery for small, deeply located, and inoperable tumours
- + Real-time image guidance with sub-millimetre accuracy
- + 6D treatment couch for enhanced positioning and comfort

## BRACHYTHERAPY



- + BRAVOS - Varian HDR brachytherapy system
- + Intracavitary and interstitial brachytherapy for cervical, uterine, soft tissue, and oesophageal cancers
- + Surface mould therapy for limb-sparing sarcoma treatments

## ADDITIONAL TECHNIQUES



- + High-dose-rate intraluminal and intracavitary therapy
- + Fusion imaging and integrated dosimetry
- + Motion management with RGSC and fiducial tracking
- + Frameless immobilisation systems
- + Sub-micro millimetre multileaf collimators (MLC)

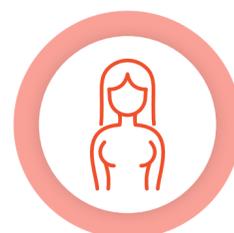


# Surgical Oncology

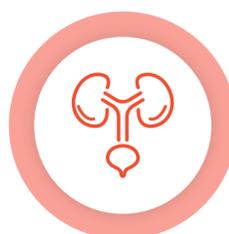
At Medanta Cancer Institute, cancer surgeries are performed in one of 20 advanced operating theatres, including specialised suites for robotic, laparoscopic, and high-complexity open procedures. Our surgeons bring deep, organ-specific expertise across breast, gastrointestinal, gynaecological, neurological, head and neck, and urological oncology.



Breast Oncology



Uro-oncology



Neuro-oncology



Ortho-oncology



Cardio-oncology



Gynae-oncology



Gastrointestinal  
Oncology



Head and Neck  
Oncology



**ORGAN  
SPECIFIC  
EXPERTISE**

# Breast Oncology



Among the first dedicated breast cancer units in the country



Comprehensive surgical care including reconstructive procedures



Pioneer centre for MRI-guided Vacuum-Assisted Breast Biopsy (VABB)

## Services and Procedures

- + Breast-conserving surgery (lumpectomy) with oncoplastic reconstruction
- + Skin- and nipple-sparing mastectomy with immediate/delayed reconstruction
- + Preventive mastectomy for high-risk or BRCA-positive individuals
- + Surgery for locally advanced, recurrent, or metastatic breast cancer
- + Excision of benign breast tumours (fibroadenomas, phyllodes)
- + Sentinel lymph node biopsy and axillary dissection
- + Wire-guided and vacuum-assisted biopsy/removal under ultrasound or mammography
- + Prosthetic counselling and support for post-surgical rehabilitation



# Head and Neck Oncology



One of India's most qualified teams for head and neck cancers



Expertise in tumours of the mouth, throat, larynx, thyroid, parotid, sinuses, and skull base



Advanced reconstruction, and nerve-preserving techniques

## Services and Procedures

- + Composite resection for oral cavity cancers (including jawbone)
- + Glossectomy (partial or total) with microvascular flap reconstruction
- + Total and partial laryngectomy with voice rehabilitation techniques
- + Neck dissection with nerve-sparing protocols
- + Parotidectomy with facial nerve preservation
- + Surgery for recurrent or previously irradiated head and neck cancers
- + Endoscopic skull base surgery for tumours of the nasal cavity and sinuses
- + Mandibular and maxillary reconstruction using fibula or radial forearm flaps
- + Tracheostomy and feeding tube placement for surgical airway and nutrition access
- + Surgical management of thyroid, parathyroid, and salivary gland malignancies



# Gastrointestinal Oncology



Advanced laparoscopic and robotic surgeries for complex GI cancers



Pioneer centre for HIPEC (Hyperthermic Intraperitoneal Chemotherapy) in India



Expertise in oesophageal, gastric, liver, pancreatic, colon, and rectal cancers

## Services and Procedures

- + Minimally invasive and robotic surgeries for oesophageal, gastric, and colorectal cancers
- + Whipple's procedure for pancreatic head cancers
- + Liver resections (anatomic and non-anatomic) for hepatocellular carcinoma and metastases
- + Liver transplant for select cases of liver cancer and end-stage liver disease
- + Multivisceral resections for locally advanced abdominal malignancies
- + Radical cholecystectomy for gallbladder cancer
- + Surgical management of cholangiocarcinoma (intrahepatic and extrahepatic)
- + Colorectal cancer surgeries, including low anterior resection and abdominoperineal resection
- + HIPEC for peritoneal metastases and advanced abdominal cancers
- + Advanced laparoscopic gastrectomies, and oesophagectomies
- + Sphincter-preserving surgeries for low rectal cancers
- + Stoma creation and stoma care counselling for colorectal procedures
- + Palliative minimally invasive surgery for malignant intestinal obstruction



# Gynae-oncology



Leading expertise in open, laparoscopic, and robotic surgeries for gynaecological cancers



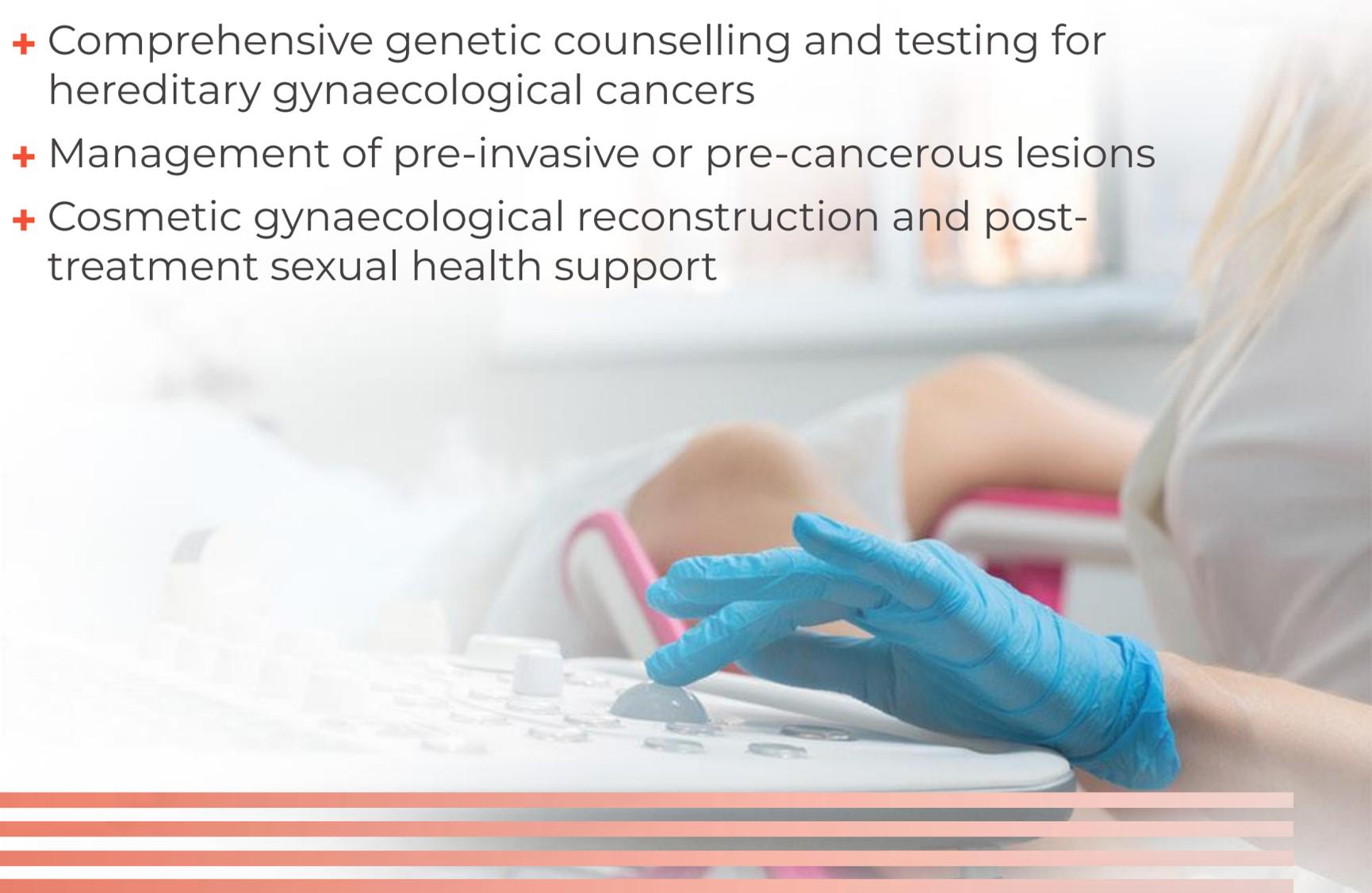
Dedicated programmes for oncofertility, hereditary cancer prevention, and rehabilitation



Nerve- and organ-preserving techniques to safeguard reproductive health and fertility

## Services and Procedures

- + Robotic and laparoscopic hysterectomy for early-stage uterine and cervical cancers
- + Ovarian cancer cytoreductive surgery including lymphadenectomy and omentectomy
- + HIPEC for advanced or recurrent ovarian and peritoneal carcinomatosis
- + Radical trachelectomy for fertility preservation in early cervical cancer
- + Vulvectomy and pelvic exenteration for advanced vulvar or recurrent disease
- + Oncofertility preservation including ovarian tissue and oocyte cryopreservation
- + Preventive surgeries (e.g., risk-reducing salpingo-oophorectomy) for BRCA-positive patients
- + Comprehensive genetic counselling and testing for hereditary gynaecological cancers
- + Management of pre-invasive or pre-cancerous lesions
- + Cosmetic gynaecological reconstruction and post-treatment sexual health support



# Neuro-oncology



Advanced neuro-oncology surgeries for brain and spine tumours



Intraoperative fluorescence, microscope and endoscope



Focus on complete tumour removal with maximum safety for speech, movement, and quality of life

## Services and Procedures

- + Microsurgical resection of all brain and spinal tumours
- + Awake craniotomy for tumours near speech or motor areas
- + Skull base tumour surgeries, including endoscopic and microscopic procedures
- + Spinal cord tumour resections (intradural, extradural, and intramedullary)
- + Minimally invasive keyhole and endoscopic approaches for select brain tumours
- + Integration with radiation, medical oncology, and rehabilitation for post-surgical recovery
- + Intraoperative navigation, monitoring, and imaging to preserve neurological function
- + Stereotactic biopsies and CSF diversion procedures for diagnosis and palliation



# Uro-oncology



Expertise in kidney, bladder, prostate, penile, and testicular cancers



Robotic, laparoscopic, and nerve-sparing techniques for surgical precision



Focus on preserving urinary and sexual function while ensuring cancer control

## Services and Procedures

- + Robotic radical prostatectomy with nerve-sparing techniques for localised prostate cancer
- + Partial and radical nephrectomy for kidney tumours (robotic/laparoscopic/open)
- + Cystectomy with neobladder or ileal conduit for invasive bladder cancer
- + Retroperitoneal lymph node dissection (RPLND) for testicular and urothelial cancers
- + Ureteric tumour resection and reconstruction
- + Endoscopic tumour resection and management of upper tract urothelial cancers
- + Penile cancer surgery with lymphadenectomy and reconstructive options
- + Integration with medical oncology for neoadjuvant and adjuvant therapies



# Second Opinion at Medanta

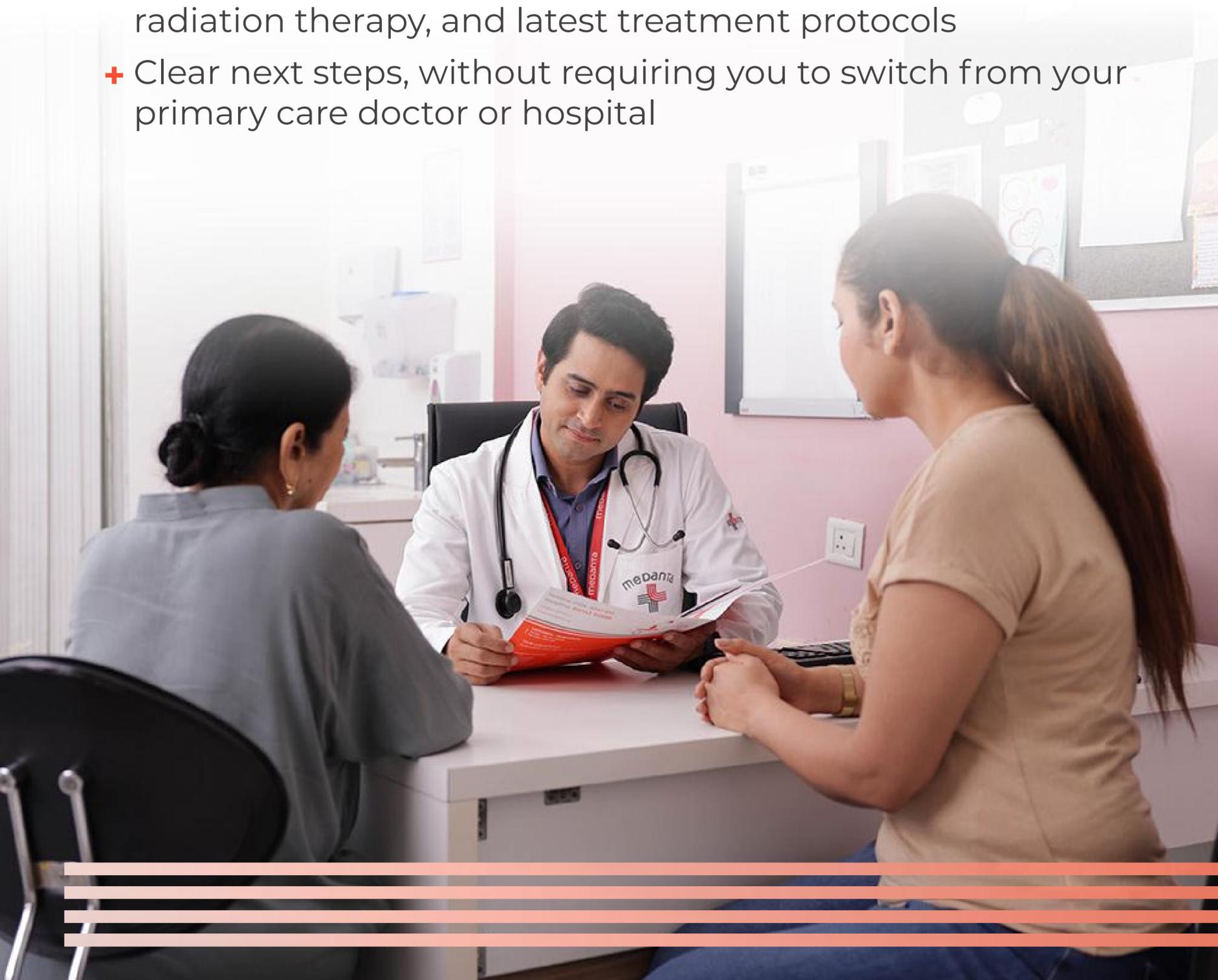
## Because Cancer Leaves No Room for Compromise

At the Medanta Cancer Institute, we welcome patients who are mid-journey, recently diagnosed, or exploring alternatives. Our Tumour Board approach ensures that every second opinion is not just one view, but the collective insight of our top oncologists across disciplines.

Whether you choose to continue care with us or simply need expert guidance, our second opinion service is designed to empower you with information.

## What Can You Expect When You Come to Medanta for a Second Opinion?

- + A full case review based on your reports, scans, and history
- + Guidance on advanced and alternative care options including precision medicine, minimally invasive surgeries, radiation therapy, and latest treatment protocols
- + Clear next steps, without requiring you to switch from your primary care doctor or hospital



# REAL STORIES REAL RECOVERIES



# Successful Treatment of Triple-Negative Breast Cancer in a Young Woman

How a 29-year-old, Ms. Ayushi Swaroop, turned a frightening diagnosis into a journey of courage, resilience, and recovery.

## When a Lump Raised Unexpected Concerns

At just 29 years old, Ms. Ayushi Swaroop noticed a lump in her breast that had persisted for two weeks. Initial scans outside suggested a benign fibroadenoma, and even the FNAC showed only proliferative breast disease with atypia. But during her examination at Medanta, doctors sensed something was not right.

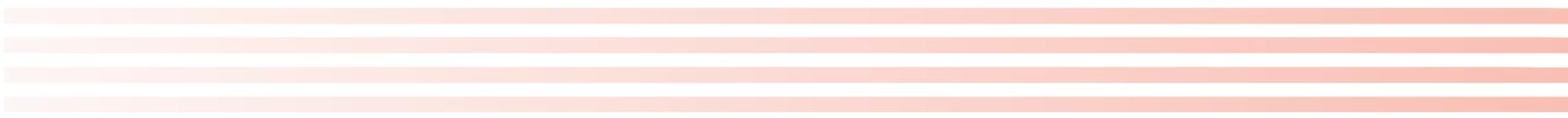
A repeat ultrasound and mammogram revealed a BIRADS 4b lesion, carrying nearly a 50% risk of malignancy. A Tru-Cut biopsy confirmed the suspicion: triple-negative breast cancer. The diagnosis came as a shock — not only was she so young, but this was also one of the most aggressive forms of breast cancer.

## A Comprehensive and Compassionate Treatment Plan

The team quickly set out a detailed plan. Since chemotherapy could affect her fertility, Ms. Ayushi was counselled about oocyte cryopreservation, ensuring her ability to embrace motherhood in the future. Before starting systemic therapy, she underwent tumour mapping and chemoport insertion. She then had successful ovarian stimulation and cryopreservation of her oocytes.

Over the next six months, Ms. Ayushi bravely endured chemotherapy (dose-dense AC x4 followed by paclitaxel x12). To everyone's relief, she showed a complete response. This was followed by breast-conserving surgery with level 2 oncoplasty (round block technique), and then adjuvant radiotherapy with rapid arc technique. To consolidate the treatment, she also received 6 cycles of oral chemotherapy.

Throughout this journey, Ms. Ayushi was not alone. Alongside medical treatment, she received consistent psychosocial support to help her manage anxiety, depression, and side effects such as hair loss.



## The Outcome and a New Chapter in Life

Two years later, Ms. Ayushi is not only cancer-free but also thriving in her personal and professional life. After completing treatment, she channelled her resilience into launching her own start-up, embracing her role as a budding entrepreneur.

Her story is a powerful reminder that cancer care is not just about fighting disease — it is about preserving dignity, protecting future dreams, and helping patients and their families rediscover hope.

Because even in the face of the most aggressive cancers, courage, science, and compassion can rewrite the ending.

***Cancer ki mushkil  
ladaai ko aapke saath  
milkar ladna...  
Jaanta hai Medanta***

# Complex Reconstruction Surgery for Tongue Cancer

How a young political leader, Mr. Vidya Bhushan Dwivedi, regained his voice and confidence after complex surgery.

## When An Ulcer Refused To Heal

At just 45 years old, Mr. Vidya Bhushan Dwivedi, an active political worker, noticed a persistent ulcer on the right side of his tongue. At first, he paid little attention because it was painless. But as weeks turned into months, the wound refused to heal. Living with diabetes and hypertension, he grew increasingly concerned — not just about his health, but also about his ability to speak clearly, which was central to his role in public life.

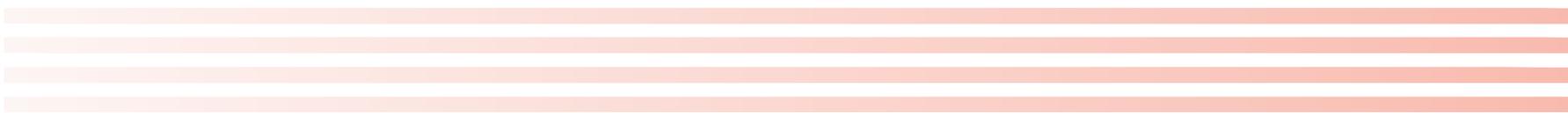
The timing made things harder. The world was still recovering from the trauma of COVID-19, and travel for treatment was difficult. Closer to home, he did not find the expertise he was looking for. Determined not to compromise, he travelled to Medanta, where his fears were confirmed: tests revealed carcinoma of the right lateral border of the tongue.

## Surgery That Preserved His Voice

For Mr. Vidya, the challenge was not just fighting cancer — it was the fear of losing his voice. Doctors explained that the only way forward was surgery. On 12 May 2022, he underwent a right partial glossectomy with modified radical neck dissection, along with free radial forearm flap reconstruction and tracheostomy.

The procedure was highly complex, requiring removal of cancerous tissue while performing delicate microsurgical reconstruction of the tongue. This was not only to restore appearance, but also to preserve vital functions of speech and swallowing.

Histopathology confirmed squamous cell carcinoma, Stage pT1 N1, and, to his great relief, further radiation therapy was not required.



## The Journey to Recovery

The days following surgery were critical. Mr. Vidya was closely monitored in the ICU and supported with antibiotics, nutritional therapy, and tracheostomy care. Gradually, he began his rehabilitation — learning to eat, swallow, and most importantly, to speak again. He was discharged in stable condition on 25 May 2022.

## The Outcome and a Life Reclaimed

Four years later, Mr. Vidya reflects on that time with gratitude. He continues to live a full and active life, attending public gatherings and speaking with clarity. He often recalls the courage it took to undergo such a major operation far from home, but also emphasises how much he values the preserved speech that allows him to serve people and live with confidence.

Because saving a life is important, but preserving the voice that gives it meaning is priceless.



*Sirf marz hi nhi, apne  
mareez ko bhi...  
Jaanta hai Medanta*

# Complex Surgery for Thyroid Cancer in a Young Woman

How 32-year-old Ms. Surbhi turned a misleading diagnosis into a story of timely surgery, comprehensive treatment, and recovery.

## When a Thyroid Nodule Raised Concern

At just 32 years old, Ms. Surbhi was referred for radio-frequency ablation of a 5.2 cm solitary thyroid nodule in the right lobe. Initial tests seemed reassuring. An ultrasound suggested a TIRADS-2 nodule, a biopsy described it as a papillary thyroid lesion without malignant nuclear features, and fine needle aspiration cytology (FNAC) reported it as Bethesda category III — atypia of undetermined significance. Despite these borderline reports, her doctors at Medanta remained vigilant. Concerned about the short history and recent increase in size, they recommended surgical management — a choice that would prove life-changing.

## From Suspicion to Certainty in the Operating Room

Ms. Surbhi underwent a planned right hemithyroidectomy with frozen section analysis of the thyroid lobe and lymph nodes. Intra-operatively, the right lobe was grossly enlarged with multiple enlarged lymph nodes in the central and lateral compartments.

Frozen section revealed that the entire lobe was replaced by papillary thyroid carcinoma, with malignant deposits in the right lateral lymph nodes. Recognising the urgency, the surgery was extended to a total thyroidectomy with bilateral central and right lateral compartment lymph node dissection.

## Path to Recovery

Post-surgery, Ms. Surbhi retained a normal voice and could take liquids the same evening. She developed transient biochemical hypocalcaemia, managed effectively with calcium and vitamin D supplements. She was discharged on the third post-operative day in stable condition.

Final histopathology confirmed classical papillary thyroid cancer measuring 7.5 × 4.5 × 4 cm, without capsular or vascular invasion. However, metastatic disease was present in 10 of 16 central nodes and 12 of 26 right lateral nodes.

## The Outcome and Why the Right Choice of Treatment Mattered

Had non-surgical ablation been performed, her cancer would have been left untreated in the thyroid and lymph nodes, leading to sub-optimal care and disease progression.

By choosing surgery, the team ensured complete clearance of disease, opening the path for safe recovery and long-term follow-up.

Because in thyroid cancer, the right decision at the right time saves more than a life — it preserves hope, health, and the future Ms. Surbhi envisioned for herself.

*Sahi decision, sahi  
time par, zindagi bhi  
bachati hai  
aur umeed bhi...  
Jaanta Hai Medanta*



# MEET OUR SPECIALISTS



# Medical Oncology



**Dr. Harsh Vardhan Atreya**  
Director



**Dr. Abhishek Singh**  
Director

# Haemato-oncology



**Dr. Anshul Gupta**  
Director

# Radiation Oncology



**Dr. Neeraj Rastogi**  
Director



**Dr. Mohd Suhaib**  
Director



**Dr. Resham Srivastava**  
Associate Director

# Surgical Oncology

## Breast Oncology



**Dr. Amit Agarwal**  
Director



**Dr. Roma Pradhan**  
Associate Director

## Head and Neck Oncology



**Dr. Vivekanand Singh**  
Director

## Gastrointestinal Oncology



**Dr. Anand Prakash**  
Director



**Dr. Sandeep Kumar Verma**  
Director

# Gynae-oncology



**Dr. Neelam Vinay**  
Director

# Neuro-oncology



**Dr. Ravi Shanker**  
Director



**Dr. Kamlesh Singh Bhaisor**  
Director

# Uro-oncology



**Dr. Rakesh Kapoor**  
Medical Director



**Dr. Aneesh Srivastava**  
Director



**Dr. Manmeet Singh**  
Director



Cancer ki mushkil ladaai  
ko aapke saath milkar ladna,

# Jaanta hai Medanta

*Multidisciplinary experts ki team ke saath  
milkar aapki beemari se ladna hum jaante hain.*

For appointment and more information, call

  **88-0000-1068**



## Medanta Network of Hospitals

Gurugram | Lucknow | Patna  
Indore | Ranchi | Noida



Click for more information  
[www.medanta.org](http://www.medanta.org)