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India's Leading
RADIATION ONCOLOGY TEAM
Now Backed By
A NEW BENCHMARK IN HIGH-PRECISION RADIOTHERAPY

Introducing

India's First Varian Edge with RapidArc Dynamic, Identify™ and HyperArc®

at Medanta Gurugram

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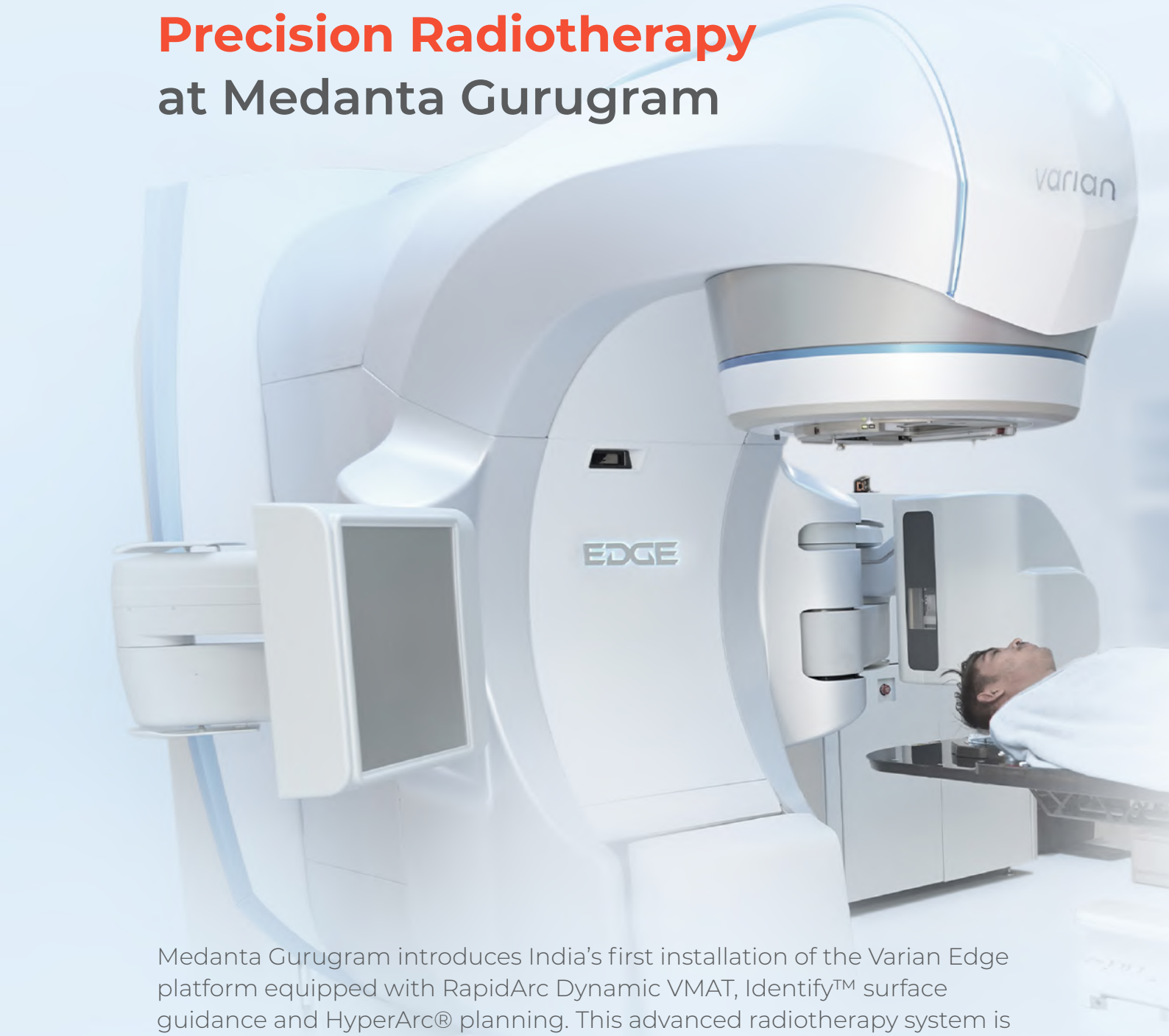
Next-Generation Precision Radiotherapy at Medanta Gurugram



Medanta Gurugram introduces India's first installation of the Varian Edge platform equipped with RapidArc Dynamic VMAT, Identify™ surface guidance and HyperArc® planning. This advanced radiotherapy system is designed for high-accuracy, image-guided and motion-managed cancer treatment, enabling clinicians to deliver conformal doses with exceptional precision.

With RapidArc Dynamic, the system modulates dose rate, beam shape and gantry speed in real time. Combined with Identify™ for surface tracking and HyperArc® for automated SRS planning, the Varian Edge elevates the standard of care across a wide range of tumour sites.

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HOW VARIAN EDGE OPERATES

Real-Time Image Guidance

High-resolution kV imaging and cone-beam CT verify tumour location before and during treatment to ensure accurate targeting.

Surface-Guided Radiotherapy (Identify™)

Identify™ tracks the patient's surface in real time to aid precise positioning, reduce setup variability and help monitor movement during treatment.

Motion Management and Tracking

A 6-degree-of-freedom couch and respiratory motion monitoring ensure accurate, respiratory-gated treatment for moving tumours in the chest and abdomen.

Fine Beam Shaping

A 2.5 mm high-definition multileaf collimator (HD-MLC) sculpts beams closely around tumour contours, improving conformity while limiting exposure to normal tissues.

High Dose-Rate Delivery

Edge supports flattening-filter-free (FFF) dose rates up to 2400 MU/min, enabling shorter and more efficient treatment sessions.

Continuous Accuracy Assurance

The system performs ongoing geometric and positional checks throughout treatment to maintain sub-millimetre precision.

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PATIENT BENEFITS

Shorter, more comfortable sessions

High-speed, precise dose delivery means patients spend less time on the treatment couch, with sessions as short as 1 minute, making treatment easier and less tiring.

Fewer visits for selected cancers

Certain cancers can be treated in just 3 to 5 sessions instead of multi-week courses, reducing travel and making treatment more convenient.

Comfortable setup with minimal or no masks

Identify™ surface guidance lets many treatments be delivered with open or light-contact masks, and some sites can be treated without any mask. This is helpful for patients who feel anxious or claustrophobic.

Real-time motion tracking for safer treatment

Identify™ continuously monitors breathing and body movement. If alignment shifts, the system pauses automatically, ensuring radiation is delivered only when the patient is perfectly positioned.

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Suitable for moving tumours

Cancers in the lung, liver, chest or upper abdomen can be treated precisely even as the patient breathes normally, improving accuracy and comfort.

Single-session treatment for multiple brain tumours

HyperArc® enables several brain lesions to be treated in one session without repositioning, improving comfort and reducing time in the machine.

Better protection for healthy organs

The system shapes radiation accurately around the tumour, helping reduce exposure to normal tissues and lowering the chances of side-effects.

Non-invasive with no recovery time

There are no cuts, no anaesthesia and no need for a hospital stay. Treatment is painless and patients can go home shortly after each session.

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TECHNICAL CAPABILITIES

Sub-Millimetre Precision

Integrated imaging, advanced beam modulation and couch corrections ensure highly accurate dose delivery.

Identify™ Surface Guidance

Provides continuous motion monitoring and verification for improved setup accuracy and patient safety.

RapidArc Dynamic VMAT

Dynamic modulation of gantry motion, beam shape and dose rate supports fast, conformal treatments in one or more arcs.

High Definition MLC (2.5 mm)

Enables precise treatment of small or irregularly shaped targets.

HyperArc® Non-Coplanar SRS Planning

Automated planning and delivery for multiple brain metastases with optimised non-coplanar beam geometry.

High Dose Rate Output

FFF beam options up to 2400 MU/min reduce overall treatment time.

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Advantages Over Conventional Systems

- Enhanced accuracy for SRS/SBRT
- Reduced dose to organs at risk
- Faster treatment sessions
- Reliable delivery for mobile tumours
- Better capability for complex anatomical areas
- Workflow efficiency supporting high-volume clinical use

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CANCERS TREATED USING THE VARIAN EDGE

Brain and CNS

- Brain metastases (including multi-met)
- Meningiomas
- Primary brain tumours (Gliomas, Ependymomas)

Chest

- Non-small cell lung cancer and small cell lung cancer
- Oligometastatic lesions
- Breast cancer

Spine

- Metastatic or paraspinal tumours
- Cases requiring tight margins near the spinal cord

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Liver and Upper Abdomen

- Pancreatic cancers
- Gall bladder cancers
- Stomach cancer
- Selected liver cancers

Head and Neck

- Oropharyngeal, nasopharyngeal and skull-base lesions
- Re-irradiation requiring high precision

Prostate and Pelvis

- Prostate cancer – high risk disease
- Rectal cancer

Other Sites

- Soft-tissue sarcomas
- Total skin electron therapy

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TREATMENT APPROACHES SUPPORTED

- **Conventional Radiotherapy**
  Standard fractionation for large or complex tumours
- **Hypofractionated Radiotherapy**
  Higher dose per sitting given over fewer sessions
- **Stereotactic Body Radiotherapy (SBRT)**
  Ablative doses for lung, liver, spine, and other small targets
- **Stereotactic Radiosurgery (SRS)**
  High-dose treatment for brain and selected spine lesions
- **Adaptive Support**
  Imaging-based adjustments when relevant anatomical changes occur

PATIENT JOURNEY AT MEDANTA

- **Initial Evaluation**
  Specialist consultation and eligibility assessment
- **CT Simulation and Imaging**
  Immobilisation, motion assessment, CT scan, tumour mapping
- **Treatment Planning**
  Individualised planning using RapidArc Dynamic and, where required, HyperArc®

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- **Treatment Delivery**
  Short, precise sessions using IGRT, SGRT and motion management.
- **Follow-Up**
  Assessment of response, side-effects and long-term monitoring.

Service Availability

The Varian Edge with RapidArc Dynamic, Identify™ and HyperArc® is now operational at Medanta Gurugram, supported by a India's leading radiation oncology team specialising in stereotactic and complex radiotherapy.

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