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Yashoda Medicity introduces Indiaâ??s first Elekta Unity MR Linac with integrated CMM

05 May 2025 | News

Elekta Unity MR Linac features a high-resolution 1.5 T MRI



Ghaziabad-based Yashoda Medicity has introduced the Elekta Unity MR Linac, an advanced radiation therapy system combining Magnetic Resonance Imaging (MRI) with a Linear Accelerator (LINAC) and Integrated CMM for the first time in India.
This marks the first installation in India with advanced integrated CMM (Comprehensive Motion Management).

The Elekta Unity MR Linac features a high-resolution 1.5 T MRI, which allows for real-time imaging during radiation therapy. This capability enables doctors to visualize tumors and surrounding healthy tissues with exceptional clarity and adapt treatment plans based on daily anatomical changes. The result is improved targeting accuracy, reduced damage to healthy organs, and enhanced treatment outcomes for patients.

Unlike traditional CBCT systems, Elekta Unity's MRI offers superior soft-tissue contrast, improving tumor visualization. It also supports hypo fractionated treatments, delivering higher doses in fewer sessions, which optimizes patient convenience and clinical resources. It allows sub-millimetric accuracy and is particularly effective for treating tiny tumours, lymph nodes, and oligometastatic lesions. Additionally, remote access allows clinicians to review and approve treatment plans from any location, improving workflow efficiency.

The system also paves the way for Biology-Guided Radiotherapy (BgRT), an emerging approach using biological markers like gene expression or hypoxia levels to further personalize radiation therapy.