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Amrita Hospital Faridabad partners with IIT-H for innovative cancer treatment technology

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Funded by ICMR, the project is expected to be completed in three years



Amrita Hospital in Faridabad has embarked on a groundbreaking collaboration with the Indian Institute of Technology Hyderabad (IIT-H), Eranki Labs, and Amrita Centre for Advanced Robotics to develop state-of-the-art technology in radiation therapy for cancer treatment.

Dr Bhaskar Viswanathan, Head of the Department of Radiation Oncology at Amrita Hospital, Faridabad, has been awarded a research grant to spearhead the development of an indigenous robotic ultrasound system for tumour motion and radiation hyperthermia. This technology aims to revolutionise cancer treatment by providing non-invasive, precise, and effective therapies.

The collaboration aims to leverage robotic ultrasound systems to track tumour movement in real-time, ensuring accurate radiation therapy delivery while minimising damage to surrounding healthy tissue.

Dr Avinash Eranki, Assistant Professor at the Department of Biomedical Engineering at IIT-H and CEO of Eranki Labs, underscored the importance of precise energy delivery in cancer treatment. He emphasised the interdisciplinary nature of the collaboration, combining expertise from medical and engineering domains to advance technology in cancer care.

The project, funded by the Indian Council of Medical Research (ICMR), is expected to be completed in three years.

The partnership between Amrita Hospital, IIT-H, and Eranki Labs signifies a significant step forward in cancer treatment technology, promising improved outcomes for patients battling this debilitating disease.