

HCG unveils AI-based adaptive radiation treatment in Bengaluru

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Sets a new benchmark for personalised cancer care with the launch of India's first innovative 'Ethos Therapy'

To provide patients access to world-class treatment facilities and with a commitment to offering high-quality clinical care, HCG Cancer Hospital, Bengaluru, has announced the launch of India's first Varian Ethos therapy, an Artificial Intelligence (AI)-driven holistic solution designed to increase the capability, flexibility and efficiency of radiotherapy.

This new solution is designed to deliver an entire adaptive treatment in a typical 15-minute timeslot. It uses augmented intelligence, a convergence of people and AI working together for better outcomes. This game-changing radiation therapy personalises cancer care using Adaptive Intelligence based on the patient's anatomy and the position of the tumour at the time of treatment.

Ethos Therapy, the first-of-its-kind in India and a novel technique in the world, provides the ability to alter the treatment plan based on tumour and anatomical changes. This unique technology can capture movements in internal or external anatomy during each treatment and enhance their pre-treatment plans by enabling them to gain insight through the advanced power of AI-enhanced image segmentation and treatment planning. It also applies automated dose accumulation to forecast and monitor treatment progress and enhances the treatment ability by making radiation personalised and targeted that gives better outcomes with minimised side effects.

The system enables clinicians to efficiently deliver an entire personalised treatment in a 15-minute timeslot which is significantly shorter compared with other treatment systems that take more than 40 minutes, often due to the manual reconfiguration of the treatment.