BioSpectrum
the business of Bio & Health Sciences
ASIA EDITION

Pantai Hospital launches AI-powered adaptive radiotherapy system for cancer care in Malaysia

June 11, 2026 | News

Helping clinicians deliver more precise radiotherapy while reducing unnecessary exposure to healthy tissue



Pantai Hospital Kuala Lumpur, part of the IHH Healthcare multinational network, has launched the Varian Ethos with HyperSight, an artificial intelligence (AI)-powered, image-guided adaptive radiotherapy system that enables cancer treatment plans to be adapted based on changes in a patient's anatomy during the course of treatment.

The launch was officiated by Hanifah Hajar Taib, Deputy Minister of Health Malaysia, marking an important step in Pantai Hospital Kuala Lumpur's ongoing efforts to strengthen oncology care and support greater access to specialised cancer treatment in Malaysia.

As the latest addition to the hospital's Cancer Centre, Varian Ethos with Hypersight represents a new generation of radiotherapy technology that allows clinicians to adapt treatment plans daily based on changes in a patient's anatomy, tumour size, or organ movement. Throughout the course of cancer treatment, a patient's body and even tumour position can naturally change from day to day. Varian Ethos with Hypersight is designed to detect these changes in real time, allowing clinicians to continuously refine treatment so radiation remains focused on the tumour while protecting nearby healthy tissue.

Beyond radiotherapy, Pantai Hospital Kuala Lumpur continues to strengthen its oncology services through clinical research, site-specific oncology care and newer treatment approaches, including CAR-T cell therapy. With the introduction of Varian Ethos with Hypersight, Pantai Hospital Kuala Lumpur continues to strengthen its oncology services by bringing together technology, clinical expertise and multidisciplinary care to support cancer patients through more personalised treatment.