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Digital PET-CT & Nuclear Medicine Department opens at Mahajan Imaging & Labs in Delhi

04 May 2026 | News

Offering a more comprehensive range of diagnostic and treatment-planning services



Former Indian cricket team captain Kapil Dev inaugurated the specialised Department of Digital PET-CT and Nuclear Medicine at Mahajan Imaging & Labs' Pusa Road centre, marking an expansion of advanced diagnostic and therapy capabilities.

With an increasing focus on early disease detection and precision diagnostics, the new department strengthens integrated diagnostics and advanced theranostics and treatment support across oncology, neurology, cardiology, and nephrology, among others.

The department brings together advanced imaging and nuclear medicine technologies under one roof, including a digital PET-CT system and a gamma camera. It builds on the centre's existing diagnostic capabilities at Pusa Road, which include high-end 3T MRI, 128-slice cardiac CT, along with ultrasound, mammography, X-ray, and CBCT services.

With the addition of nuclear medicine and therapy support, the centre now offers a more comprehensive range of diagnostic and treatment-planning services within a single coordinated environment.

The next-generation digital PET-CT system delivers high-resolution metabolic and anatomical imaging in a single scan, supporting the detection of small abnormalities with greater clarity. Its extended field of view enables complete organ coverage in a single pass, while the integrated CT component provides detailed anatomical context alongside metabolic insights. The system also reduces radiation exposure by up to 60 percent and enables faster scan times, improving both patient safety and efficiency.

The high-end gamma camera further expands the centre's capabilities in functional imaging and therapy support, allowing clinicians to assess organ function, evaluate cardiac activity, detect bone lesions, and support the management of conditions such as thyroid disorders and certain cancers through targeted radiation-based treatments.

The development comes amid a growing need for early and accurate diagnosis of complex diseases, particularly cancer. In India, around 100 out of every 1 lakh people are diagnosed with cancer, and according to the Indian Council of Medical Research, more than 14 lakh new cases were estimated in 2023.

PET-CT also plays a key role in radiation therapy planning by enabling accurate mapping of tumour volumes for precise targeting. It is used to monitor treatment effectiveness by distinguishing between active disease and post-treatment changes, allowing clinicians to adjust therapy as needed.