High-tech cancer treatment solutions ensure effective treatment

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Across the globe, cancer treatment techniques and tools have significantly improved over the past few years and India is also expanding its uptake of high-tech solutions for cancer treatment to ensure that people can access effective treatment, within the country, at affordable rates.

October is the month dedicated to Breast Cancer Awareness. According to the Ministry of Health and Family Welfare, the incidence of breast cancer is 25.8 per 100,000 women and is expected to rise to 35 per 100,000 women in 2026.

The very first step to successful cancer prognosis is to get it diagnosed before it is widely spread and life-threatening. With hospitals and technicians adopting early detection technologies, these are some of the flexible and affordable solutions that can enable efficient diagnosis and enable better treatment -

- Mammography displays, which offer medical grade visualisation, allow flexible positioning of multiple images on the screen and are designed to facilitate optimal use of picture archive and communications systems (PACS) and efficient breast imaging. Mammography displays such as Barco's Coronis Uniti Diagnostic Display offer high image quality, productivity features, and ergonomics to address specific challenges in modern radiology. Coronis Uniti's USP lies in the fact that it supports 2-D and 3-D imaging, offering features to optimise reading experience. It features optical glass technology to reduce reflections and enhances image sharpness for greater viewing comfort. It can be turned into a virtual lightbox to compare film-based priors – using a handy film clip – with current digital exams, ensuring early and precise diagnosis.
- Breast Ultrasound Solutions detect additional early-stage, invasive breast cancers when combined with mammography. BreastNav, a breast ultrasound solution by Esaote, is designed on a model-adaptive algorithm and represents the real shape and morphology of the patient's breast, on a virtual model. BreastNav environment can

integrate other advanced technologies like microV, microE, ElaXto and QElaXto 2D to offer a complete analysis of breast lesions and provide 3D localization rendering.

- Digital breast tomosynthesis help doctors to easily detect breast cancers. Offered by GE Healthcare, the Seno Iris is a data-intensive technology that pushes the boundaries of viewing tools, enhancing the ability of doctors and technicians to efficiently and accurately diagnose patients. Seno Iris can help doctors in quickly and optimally exploring precise, detailed 3D images.