

THE MOST INNOVATIVE CANCER DIAGNOSTICS

GE Discovery™ VCT PET/CT System

The first step in the treatment of any ailment is to successfully diagnose the problem. At Nazha Cancer Center, we believe the earlier, the better.

With the technology of **GE Discovery VCT-PET/CT Imaging**, that belief is made possible for our patients.

The Discovery VCT is a high-speed, high-resolution scanner that detects infections, inflammatory conditions and types of cancer at their earliest onset. That means shorter procedures and the most advantageous treatment plans for patients.

In a single rotation, the state-of-the-art machine creates 64 credit-card-thin CT images of unsurpassed quality that are combined to form a 3D view of the patient's anatomy. The PET component of the scanner is able to demonstrate abnormalities, and can be performed in conjunction with or separate from the CT scan at the request of the ordering physician.



The Discovery VCT system is also used for radiation therapy treatment planning. A CT simulation is performed with the patient in the treatment position. The radiation oncologist uses a powerful computer to generate a 3D image by contouring the tumor volume and critical structures on each slice of the scan. From there, optimal treatment of the tumor can be determined. PET Imaging can be fused into the treatment plan if the tumor is difficult to distinguish from the surrounding normal tissue.



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