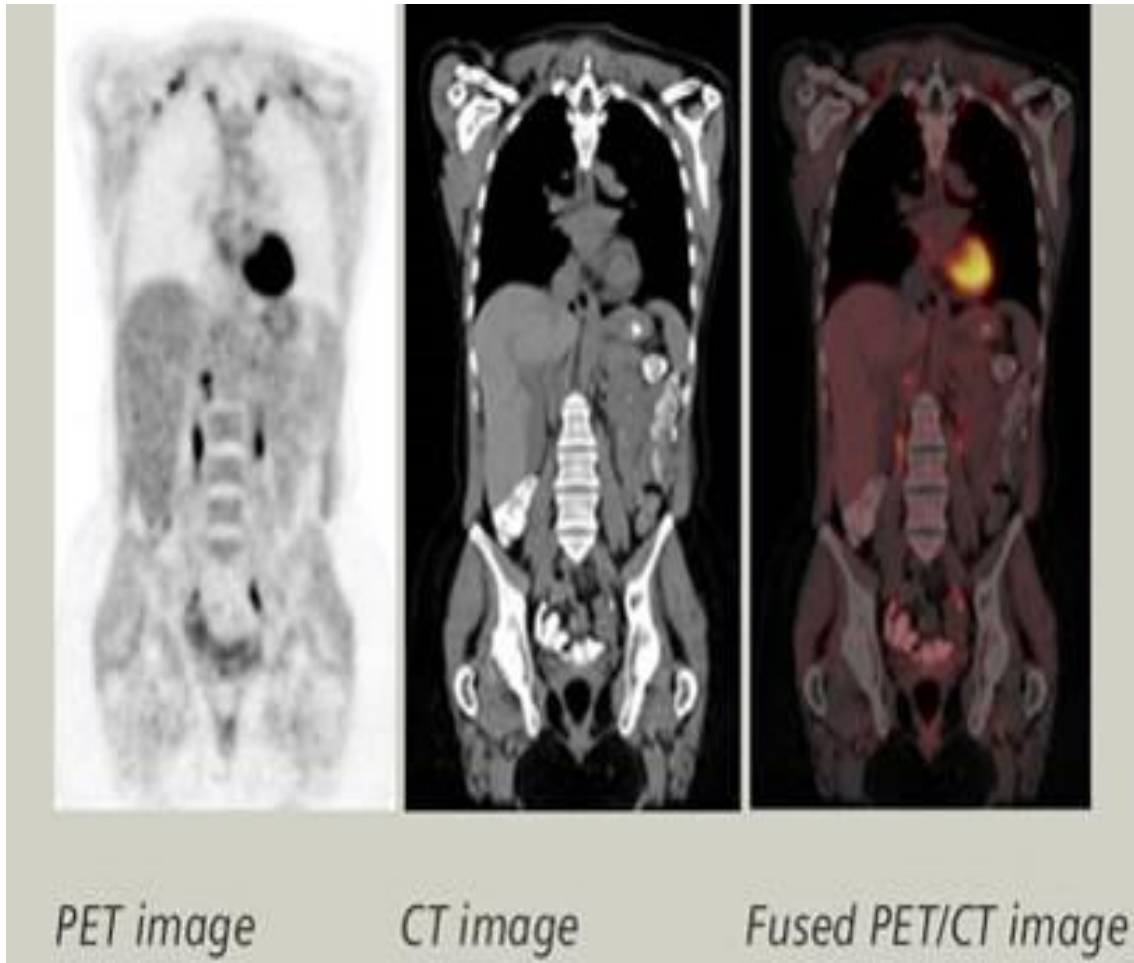




**SRI RAMACHANDRA MEDICAL CENTRE
PORUR, CHENNAI – 600 116**

DEPARTMENT OF NUCLEAR MEDICINE & PET CT





SIEMENS BIOGRAPH HORIZON WITH TrueV

WHAT IS PET?

PET is an acronym for **Positron Emission Tomography**

PET uses radiation or nuclear medicine imaging to produce 3-dimensional color images of the functional processes within the human body.

A Computed Tomography (CT) scan shows the structure. Merging these two scans into one highly sophisticated PET/CT imaging technique provides detailed information about presence or spread of disease and accurately identifies its precise location.

HOW DOES PET WORK?

Radioactive glucose (sugar) called a radiotracer is injected into the vein of patient arm. The tracer travels through the body and is absorbed by the organs and tissues being studied. The energy given off by the tracer substance is converted into 3-dimensional pictures.

PATIENT PREPARATION

Prior appointment is needed.

Overnight fasting is required.

- **Take regular medications with water except diabetic medications.**
- **Blood glucose should be less than 130 -140 before the injection of radioactive glucose.**
- **Expect the procedure to last minimum of 2-3 hours.**
- **Wear Comfortable dress (Dress to be changed before the scan)**
- **If allergic to any medications please inform us**
- **Bring all old reports**
- **Blood urea, Serum creatinine, Report (Not More than 10 days Old)**
- **For In Patient – Fix IV line**
- **Contact No : 044 - 45928500 EXTN : 194, 3459**
- **APPOINTMENT IS LIABLE TO GET DELAYED / CANCELLED DEPENDING UPON THE AVAILABILITY OF ISOTOPE.**
- **APPOINTMENT WILL NOT BE GIVEN OVER PHONE /E-MAIL AS PATIENT/THE ATTENDER WILL BE GIVEN THE INSTRUCTIONS IN PERSON**

INDICATIONS FOR PET SCAN

The PET-CT is used mainly in oncological conditions as well as in some cardiologic and neurological conditions.

- ❖ The early identification of neoplastic lesions
- ❖ An assessment of the progression of the neoplasm
- ❖ Precise treatment planning (e.g. radiotherapy)
- ❖ Precise pre-surgery planning (accurate determination of the spread of the tumour)
- ❖ The early evaluation of the effectiveness of treatment
- ❖ The fastest possible detection of any recurrence of neoplastic disease.
- ❖ PET-CT Brain (For Dementia)
- ❖ Cardiac PET-CT for Myocardial Viability

CONTRAINDICATIONS FOR PET-CT SCAN

PREGNANCY

Breastfeeding poses some limitations for the examination - It is advisable to stop breastfeeding for 24 hours after administration of the radiotracer, and the first lot of milk produced after the procedure should not be given to the child

Improper preparation of the patient for the PET-CT scan

The scan should not be performed immediately after or during radiotherapy, chemotherapy, after endoscopic examinations, operations, and biopsies, excluding individual cases as prescribed by the physician.

HOW LONG WILL IT TAKE FOR THE SCAN REPORT TO GET READY ?

24 hours from the time of completion of scanning usually.

WHERE SHOULD WE COLLECT THE REPORT FROM?

Reports could be collected at the PET CT department situated in Ground Floor (**F0**) within the working hours (8.00Am-4.00Pm) Except on Holidays

