



Procedure Information Sheet - PSMA Positron Emission Tomography and Computed Tomography (PSMA PET-CT)

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Name: Sex/Age:
Doc. No.: Adm. Date:
Attn. Dr.:
Patient No.: PN

*Please fill in /
affix patient's label*

Introduction

Prostate specific membrane antigen (PSMA) is a transmembrane protein with significant elevated expression in prostate cancer cells. PSMA Positron Emission Tomography – Computed Tomography (PSMA PET-CT) can detect primary and metastatic prostate cancer that promises accurate staging of primary prostate cancer. The recurrent lymph node and bone can be clearly distinguished even at low PSA-values, making the re-staging after recurrence more accurate.

Preparation

- If intravenous injection of contrast medium is indicated:
 - A written consent is required.
 - Fasting for 3 hours prior to examination. *Plain water is allowed.*
 - Please inform your doctor if you have history of adverse reaction to contrast medium. Doctors may prescribe steroid premedication for you before injection of contrast medium.
 - If you are diabetic and taking **Metformin**, please stop taking the medicine on the day of examination and 48 hours afterwards.
- No Barium studied in last 10 days before appointment.
- Uncooperative patients may require sedation which should be prescribed by referring doctors.
- Stoma, incontinent patients should bring along spare stoma and urinary bags/diapers.
- Please bring with medical records, films or reports for reference.

Procedure

- The whole procedure takes about 2-3 hours and is monitored by healthcare professionals.
- Set up an intravenous line.
- Radiopharmaceutical is injected and remains quiet for 1 hour.
- Empty bladder before scan.
- During the examination, lie on the table of the PET-CT scanner. Please keep still for 20 minutes and listen carefully to the instructions given by our staff.
- Intravenous contrast medium may be needed to improve the diagnostic quality of the images.

On the Same Day after Examination

- Resume diet and exercise.
- Encourage water intake.
- Please urinate seated to avoid spillage on the floor and flush the toilet twice.
- Avoid prolonged and close contact with pregnant women and children under 12 years of age.



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Complications of Contrast Medium Administration

- Mild reactions** – Itching, urticaria, nausea, vomiting, feeling of warmth, pain at the injection site, sneezing, coughing, etc.
- More severe reactions** – Shortness of breath, wheezing, irregular heartbeat, chest pain, convulsions, kidney failure, hypertension, unconsciousness, etc. These reactions usually require medical treatment and the chance of occurrence is about 4 in 10,000.
- Death** – The chance of death is rare and the fatal occurrence is about 2.1 in 1,000,000.
- Delayed reactions** – A few patients may experience delayed reactions and include arm pain, itching, rash, painful or swollen salivary glands, etc.
- Contrast extravasation** – It is a potential complication that due to the leakage of contrast medium to soft tissue adjacent to the injection site. It may result in swelling or pain and is commonly self-limited. More severe injuries may result in tissue necrosis.
- For diabetic patients on **Metformin** and with impaired kidney function, there is increased risk of lactic acidosis.

Remarks

If you have any question about the procedure, please feel free to ask the staff of the Radiology Department.

References

- Smart Patient (Website : <http://www21.ha.org.hk>)
- ⁶⁸Ga-PSMA PET/CT: Joint EANM and SNMMI procedure guideline for prostate cancer imaging: (Version 1.0, 2017)
- ACR Manual on Contrast Media (Version 10.3, 2018)

I acknowledge that I have understood the above information and was given opportunity to ask questions concerning my procedure.

Name of Patient / Relative

Signature

Relationship (If any)

Date