



**NUCLEAR MEDICINE  
CENTRE**

**SUNWAY**  
**MEDICAL CENTRE**  
Sunway City Kuala Lumpur



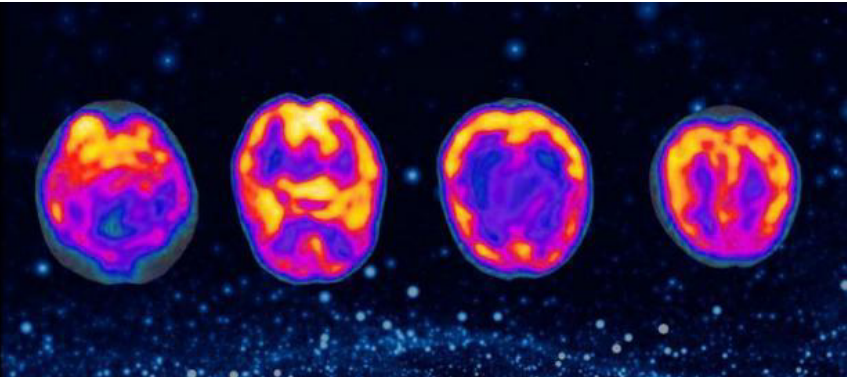
**Brain Perfusion Scan x SPECT-CT**

# WHAT IS A BRAIN PERFUSION SCAN?



Your brain function is influenced by the blood flow in your brain. A brain perfusion scan can help to diagnose diseases that affect blood flow (i.e., oxygen supply) to the brain, such as:

- Epilepsy
- Dementia
- Stroke or transient ischemic attack (TIA)
- Moyamoya disease
- Recent head injury
- Psychological disease



## DO I NEED TO PREPARE FOR THE SCAN?

Yes. Smoking, caffeine, alcohol, cola and energy drinks are prohibited 2 days before the scan. Also, you should consult your primary doctor about medications that may affect blood flow in your brain.



## HOW IS A BRAIN PERFUSION SCAN DONE?

This scan will require 2 days to be completed, with 3 hours allocated for each day. When you arrive at our department, our Nuclear Medicine staff will explain the entire procedure to you. You will lie down on the imaging table, and the gamma cameras will be placed above your head.

You will receive a small injection of a radioactive tracer into a vein, and the scan will begin 40 to 90 minutes after the injection. During this time, you will rest quietly. The radioactive tracer will pass through your brain and continuous images of your brain will be captured. It is important to remain still during the scan, as any movement will lead to inaccuracies in the scan results.





## RISKS OF A BRAIN PERFUSION SCAN



- You may experience slight pain at the injection site.
- Side effects from the injection are not common, but some people may experience a skin rash, headache, upset stomach, vertigo or dizziness
- The injection contains a small amount of radioactive tracer used for the scan, which emits radiation. However, this scan only uses a minimal amount of radiation. Your referring doctor will only recommend a brain perfusion scan if the risks of not getting the test are greater than the risks of the test itself.

## AFTER THE SCAN

After the scan, you can eat normally and continue to drink water for the rest of the day. Most of the radioactive material will pass out of your body through your urine or stool. The radioactivity should completely disappear within 24 hours.

Patients are advised to maintain a distance of 1 meter from children or pregnant women for the rest of the day. This is to avoid exposing babies and children to unnecessary radiation.





## WHEN YOU WILL GET THE REPORT?

The Nuclear Medicine Physician's report will be prepared shortly after your scan, but it may take some time to reach your referring doctor or be ready for collection. It is typically available at the end of the day.



For more information, kindly contact us:

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**Our Nuclear Medicine Centre is located at  
Basement, Tower C**

**Operation Hours**

Monday - Friday: 8.30am - 5.30pm

Saturday: 8.30am - 12.30pm


Closed On Sundays & Public Holidays


**Sunway Medical Centre Sdn Bhd**

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