



## PATIENT DETAILS

Name

Address

DOB

Telephone

☐ GENERAL NUCLEAR MEDICINE

☐ Bone

☐ Other (please specify)

☐ MYOCARDIAL PERFUSION

☐ Exercise

☐ Dipyridamole / Adenosine

☐ Dobutamine

DATE OF LAST TEST

☐ NUCLEAR MEDICINE THERAPY

☐ POSITRON EMISSION TOMOGRAPHY (PET/CT) (Hervey Bay)

AREA TO BE EXAMINED

CLINICAL HISTORY

REFERRING DOCTOR

Provider Number

Name

Address

Signature

Date

**DR. ANDREW SOUTHEE**

MBBS (Hons) MRCP(UK) FRCP  
FRACP FAANMS MANZSNM

**DR. JOSEPH WONG**

MBBS (Hons) MBA(UQ) FRACP FAANMS

## APPOINTMENT DETAILS

Day:

Date:

Time:

## HERVEY BAY

**Hervey Bay  
Medical Centre**

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## BUNDABERG

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Widebay Nuclear Medicine  
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## DIAGNOSTIC NUCLEAR MEDICINE

### Bone Scan

Bone metastases, osteomyelitis, stress fractures, bone tumours, arthritis, loose prosthesis, osteonecrosis, CRPS and tumour staging.

### Thyroid Scan

Thyroid nodules, goitre, all causes of hyperthyroidism, thyroiditis.

### Myocardial Perfusion

("thallium"/"sestamibi"/"MPS")

Assessment of myocardial ischaemia and viability. For patients unable to exercise dipyridamole or dobutamine (for asthmatics) are used. Rest and post stress images.

### Lung Scan

Ventilation and perfusion-pulmonary emboli. More sensitive and far less radiation than helical CTPA. Regional quantification. Right to left shunts.

### Renal Scan (DTPA)

(+/-captopril or frusemide)

Differential renal functions, renovascular hypertension, ureteric obstruction. MAG3 is substituted in children. Camera based GFR quantification.

### Renal Scan (DMSA)

Renal scarring and acute pyelonephritis (more sensitive than ultrasound). Differential function (particularly if one kidney is small or ectopic).

### Gallium Scan

PUO. Sarcoidosis. Chronic infections, eg osteomyelitis and infected joint prosthesis. Lymphoma staging and response to treatment.

### White Cell Scan

Localisation of acute or subacute infection. Assessment of activity of inflammatory bowel disease.

### Colloid Liver Scan

Diffuse or chronic liver disease. Assessment of liver nodules (FNH).

### Labelled Red Cell Scan

Haemangioma of the liver. Gastrointestinal haemorrhage.

### Biliary Scan (HIDA)

Acute cholecystitis. Biliary obstruction or dysfunction. Response to a fatty meal or CCK used to assess chronic cholecystitis or sphincter of Oddi dysfunction.

### Lymphoscintigraphy

Sentinel node localisation in breast cancer and melanoma. Assessment of lymphoedema and lymphatic drainage.

### Cerebral Perfusion (Ceretec)

Dementias and cognitive impairment and cerebrovascular disease.

### Gastric Emptying

Quantitative assessment of solid gastric emptying using a labelled egg sandwich. There are alternatives for patients allergic to eggs. Half clearance time and % retained at 4 hours are calculated. Liquid emptying can also be assessed (separate study).

### Colonic Transit

Small and large bowel clearance using sequential images over 5 days.

### Lacrimal Scan

Functional nasolacrimal duct obstruction.

## NUCLEAR MEDICINE THERAPY

### Radioactive Iodine (1-131)

Treatment of hyperthyroidism.

## PATIENT PREPARATION

- ☐ **Bone Scan** - remain well hydrated. Images performed 2-3 hours after injecting and take up to 1 hour.
- ☐ **Myocardial Perfusion Scan (Thallium, Sestamibi, MPS)** - fast for 3 hours after a light breakfast, then have clear fluids sparingly. No caffeine (tea or coffee) for 24 hours. Omit betablockers on day of test. If done on a 'one day' protocol allow 3-4 hours. More detailed written information provided. Please note Medicare limits reimbursement to every 2 years for GPs and 12 months for specialists.
- ☐ **Biliary Scans (HIDA, HIDA/CCK)** - fast for 4 hours.
- ☐ **Gastric Emptying** - fast for 8 hours.
- ☐ **Renal Scans** - remain well hydrated. If renal artery stenosis is being assessed ACE inhibitors need to be reviewed.
- ☐ **Positron Emission Tomography (PET)** - Remain well hydrated. Keep warm. Wear loose comfortable clothing without metal eg zippers or underwire bras. Take usual medications. Remove facial and neck jewellery.
  - ☐ **PMSA PET/CT** - requires no further preparation.
  - ☐ **FDG PET/CT** - requires further preparation. Fast for 6 hours but drink water (no sugars) freely. Diabetics - specific information will be provided.

Most other procedures have no special preparation.

This request form may be taken to any diagnostic imaging provider, please discuss this with your doctor.