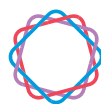




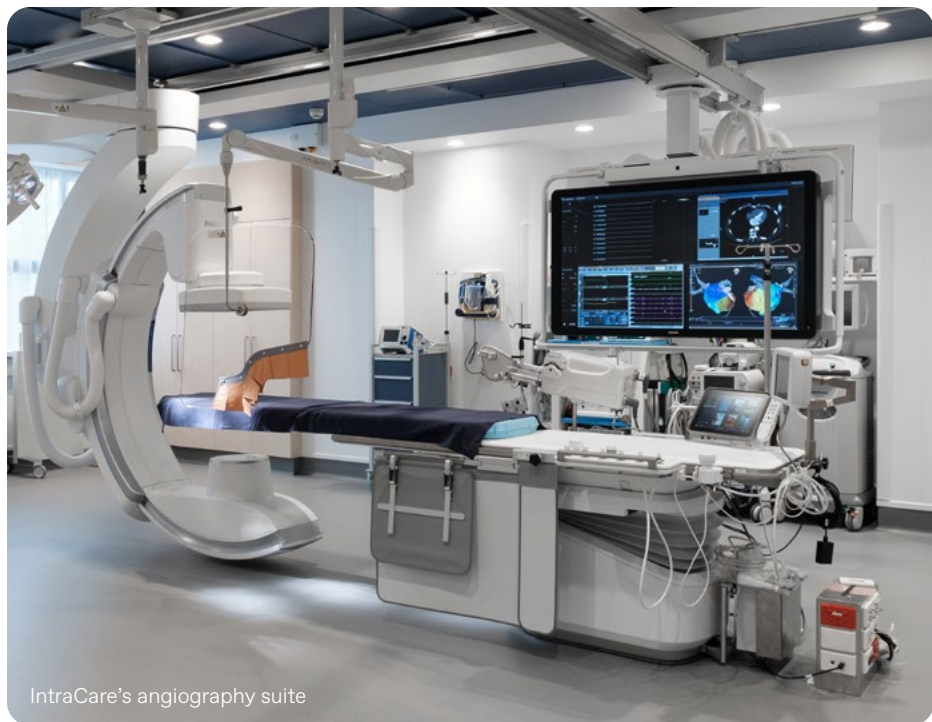
YOUR GUIDE TO

Right Heart Catheterisation



IntraCare

Interventional
Cardiology



IntraCare's angiography suite

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About this procedure

This guide provides information about a right heart catheterisation, also known as a right heart study (RHS) procedure. It includes details about what is involved, how to prepare and what to expect during and after the procedure. Please use this in addition to information from your doctor and nurse.

A right heart study is performed in an angiography suite at IntraCare in Epsom. Your cardiologist will be assisted by our team of nurses and other highly skilled personnel.

Both IntraCare and Allevia Hospital will be involved with your care for this procedure. Allevia Hospital is responsible for your admission, preparation and aftercare in the Cardiac Investigation Unit (CIU).

What is a Right Heart Study?

A right heart catheter study is a minimally invasive medical procedure that provides useful information about how well the right side of your heart is pumping. It involves measuring the pressures inside your heart and the main blood vessels of your lungs.

Why do I need a Right Heart Study?

RHS is the gold standard method to diagnose conditions such as heart failure, congenital heart disease, pulmonary hypertension or heart valve disease so that your doctor can appropriately manage your condition. You may also need a right heart study if you are being evaluated for a heart or lung transplant. It is also a valuable tool to differentiate if you have a restrictive or constrictive heart disease.

Before your procedure

Pre-procedure phone call

A nurse from IntraCare will call you 24–48 hours prior to your procedure to discuss the following information:

- Your admission time.
- When you should stop eating and drinking.
- Medication instructions.
- Allergies (including medications, contrast dye, dressings/plasters and food).
- Answer any further questions.

Fasting instructions

To ensure your safety during the procedure, it is important that you follow the fasting guidelines below:

Food – **Stop 6 hours prior** to procedure. Do not consume any of the following within 6 hours of your planned procedure time:

- Solid food
- Milk-based products
- Soluble fibre
- Jelly

Fluids – Clear (transparent) fluids are encouraged up to **2 hours before** your planned procedure time. These include:

- Water
- Clear juices
- Cordials
- Black tea or coffee

Avoid fluids containing milk, pulp, or jelly.

Sip-Til-Send (STS) Protocol*

- Unless advised otherwise, you can sip up to **200ml of water per hour** in the 2 hours before your planned procedure time.

* Your nurse will confirm during your pre-procedure phone call whether this protocol is suitable for you.

Anticoagulation (blood thinner)

- If you are taking a blood thinner e.g. Dabigatran (Pradaxa), Rivaroxaban, Warfarin or Clexane, your cardiologist will advise if you need to stop this medication temporarily for a few days before the procedure.
- If you are taking Warfarin, our nurses will review your INR levels prior to your procedure and advise any medication changes if necessary.

Other regular medications

Please continue to take these unless advised otherwise by your cardiologist. If you are taking a diuretic or water pills (e.g. frusemide, spironolactone), you may need to withhold this on the morning of the procedure. It is important that you let us know if you are taking the following medications: Liraglutide (Victoza™, Saxenda™) Dulaglutide (Trulicity™), Semaglutide (Ozempic™, Wegovy™), Tirzepatide (Mounjaro™).

Reminders for the day of your procedure

- If you are on regular medication, please bring this with you in its original packaging.
- Please leave all your jewellery and valuables at home. You are welcome to bring your mobile phone in with you.
- We recommend wearing loose-fitting clothing and shoes that are easy to slip on/off.
- You are encouraged to bring a friend or a family member as a support person before and after your procedure.
- This is commonly a day stay procedure, but please bring an overnight bag with you in case you are required to stay overnight.
- The planned procedure time is an estimate only and may vary. We will keep you informed of any unexpected delays on the day.

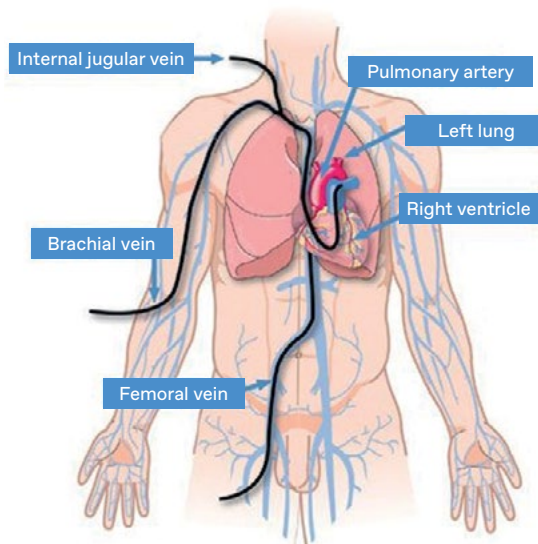
Informed consent

As with any procedure, there are potential risks involved. Your cardiologist will explain the procedure, discuss possible risks and answer any questions you may have. Your whānau or support person are welcome to be part of this discussion. You will then be asked to sign the consent form. This will occur either at an earlier appointment, or on the day of your procedure.

Your procedure

A small intravenous (IV) line will be inserted into a vein in your arm. This will be used to administer medication to help you relax and to keep you comfortable during the procedure. We may need to remove hair with clippers at the access site for sterile preparation. Please avoid shaving the area yourself as this may cause minor abrasions to the skin, increasing the risk of infection.

Other devices for monitoring blood pressure, heart rate and oxygen levels will be fitted to ensure your safety during the procedure.



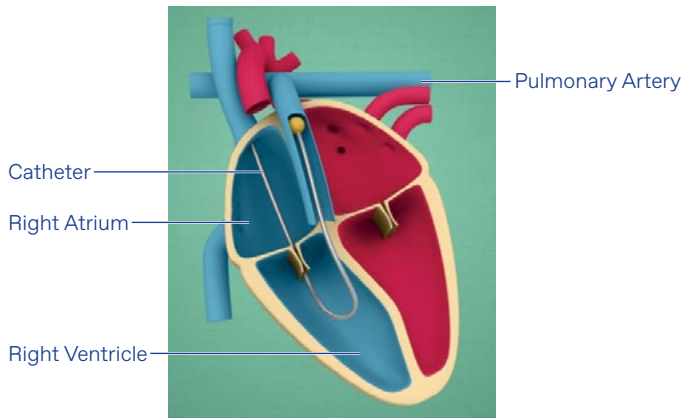
Standard approaches for catheter access

The procedure

The test is performed using X-ray imaging and will last approximately 30 minutes to an hour. You will need to lie flat on a movable table beneath an X-ray machine. You will be monitored throughout the procedure.

A small plastic tube (sheath) is inserted into a vein in the neck or in the groin. A catheter tube, called a Swan-Ganz, is then inserted through the sheath and guided into the right side of the heart and pulmonary arteries. The pressure is measured throughout the procedure. You may be asked to hold your breath at times if you are able. A saline solution is injected through the catheter to measure the blood flow.

Once the procedure is complete, the catheters and sheaths are removed, and pressure is applied over the vein to help close it and manage any bleeding.



After your procedure

You will be transferred from IntraCare to CIU, where the Allevia Hospital team will look after you during your recovery. You will usually be discharged home after 4-6 hours if appropriate. Prior to your discharge, the nursing staff will give you advice about your medication, procedure site care and resuming your normal daily activities.

Recovery and discharge

- Following your procedure, it is important that you **do not drive for 24 hours**. Please ensure you have a family member or friend to drive you home from the hospital, as you may still be under the effects of sedation.
- You will need to arrange someone to be at home with you on the day of your discharge and overnight to support you in your recovery.
- Due to the sedation, you may feel lethargic afterwards with reduced concentration. For this reason, for 24 hours after your procedure:
 - Do not do any activity requiring strength, concentration, or full alertness.
 - Do not make any legal decisions or sign legal documents.

Resuming activities

- You will be able to return to work the day after having the procedure unless there are concerns from your cardiologist.
- You can do light exercise after 48 hours.

Medication

Your cardiologist will discuss any medication changes with you, if necessary. If you have any questions regarding your medications after your procedure, please contact your cardiologist.

Follow up appointment

You will be seen in clinic at The Heart Group approximately 1–3 months following your procedure. If you have minor concerns prior to your follow up appointment, please arrange to see your general practitioner (GP) or contact IntraCare.

Femoral (groin) site care

It is normal to experience some bruising at the puncture site. During the first 5-7 days after your procedure:

- Do not do any heavy lifting (>5kg) or strenuous exercise.
- If you do need to cough or sneeze, you can hold gentle pressure over the puncture site during this to decrease the risk of it bleeding.
- Do not sit in a bath, hot tub or spa until the skin has healed (5-7 days).
- Do not cross your legs while sitting.
- You may resume walking if your puncture site is not painful.
- If applicable, remove the dressing on your groin once the skin has healed (approximately 3 days).

Haematoma

It is not uncommon for a small haematoma to develop following this procedure. A haematoma is a collection of blood under the skin that is sometimes painful. A small hard lump (similar in size to a pea) may also be felt under the skin and remain for several weeks.

- If a large lump (haematoma) occurs, lie down, and get another person to press down firmly on the centre of the haematoma for approximately 10 minutes.
- If after releasing pressure, the haematoma reoccurs, keep applying the pressure and go to your local accident and emergency department.

Bleeding

- It is common for there to be a small amount of ooze. If this occurs, lightly press on the area for 5-10 minutes.
- If there is significant bleeding, you should lie flat, and another person will need to apply firm pressure for 10 minutes. If this does not stop the bleeding, call an ambulance.

Seek immediate medical attention (dial 111 for an ambulance) if there is excessive bleeding from the puncture site or if you are experiencing severe chest pain.

Please take this booklet and your discharge summary with you if visiting the GP, afterhours or hospital.

**If you have any concerns after your procedure, please contact IntraCare:
Monday to Friday: 09 630 1961 (between 6:30am and 6:00pm).
For after-hours, weekends, and public holidays, contact 027 482 0763.**

How to find us

IntraCare Epsom

Both IntraCare and Allevia Hospital will be involved with your care for this procedure.

When you arrive, please report to the Allevia Hospital Admissions Lounge (2 on the map).

Directions to the Admissions Lounge:

- From the Level 1 Carpark – Walk across the footbridge towards the main reception. Take the Yellow Lift to Level 2. The Admissions Lounge will be on your right as you exit the lift.
- From the Ground Floor Carpark – Follow the blue walkway to the Yellow Lift and take it to Level 2. The Admissions Lounge will be on your right as you exit the lift.

98 Mountain Rd, Epsom, Auckland 1023

P: +64 9 630 1961 (Monday to Friday 6:30am–6:00pm)

P: +64 27 482 0763 (after hours, weekends and public holidays)

E: admin@intracare.co.nz

W: intracare.co.nz

Where to park


A 10 minute patient ‘drop off zone’ is available on the level 1 carpark. Head up the ramp as you enter the carpark from the Main Entrance (Gate 1) on Mountain Road.


The first 30 minutes are free and apply only once the vehicle licence plate number has been entered into a payment terminal. Patient parking is available on all levels of the car park. Parking limits apply, and parking spaces are marked (P90, P180, and All Day Parking).

The Allevia Hospital parking is managed by a separate company, and a fine may be issued if your vehicle breaches any of the parking terms and conditions.

There is free 120 minute parking available nearby on Mountain Road, Gilgit Road and Almorah Road after 9am.



 Main entrance to patient and visitor car park
~ 250 spaces

 Walkway to main reception
Pedestrian access to main reception from car park

 Yellow Lift

- | | |
|---|---|
| 1 Allevia Hospital reception and Allevia Radiology 1 reception | 8 Awanui Labs (blood tests) |
| 2 Admissions Lounge | 9 Allevia Radiology 2 (CT, ultrasound) |
| 3 Canopy Cancer Care | 10 The Heart Group |
| 4 ARO (Auckland Radiation Oncology) | 11 Allevia Radiology PET-CT Canopy Cancer Care |
| 5 Allevia Café and outdoor dining courtyard | 12 Allevia Specialist Centre |
| 6 Allevia Pharmacy | 13 Allevia Radiology 1 (MRI/X-ray) |
| 7 IntraCare | A B C D E Allevia Specialist Centre entrances |



IntraCare

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