

FAST FACTS

Doctor Fast Facts

Protocol Number:	1.01
Alfred HREC Number:	269/15
Protocol:	Feasibility of identification of chemotherapy induced cardiac damage using novel exercise magnetic resonance imaging in breast cancer patients and exercise training for prevention; a pilot study.
Sponsor:	Funding supported by the Jack Brockhoff Foundation
Principle Investigator:	A/Prof Andre La Gerche

Primary and Secondary Objectives

PRIMARY OBJECTIVES

- 1) Evaluate the feasibility of exercise testing, exercise cardiac imaging and exercise training in patients with breast cancer.
- 2) Assess whether exercise cardiac magnetic imaging is more sensitive at detecting chemotherapy induced cardiac dysfunction than traditional measures (echocardiography performed at rest).

Inclusion Criteria

1. Female and diagnosed with breast cancer
2. Aged 18-70
3. Live within a geographically accessible area for follow-up
4. Scheduled for anthracycline-based chemotherapy
5. Capable of walking up 2 flights of stairs without stopping

Exclusion Criteria

1. A contraindication to anthracycline-based chemotherapy such as known structural heart disease
2. Atrial fibrillation
3. A contraindication to CMR such as a pacemaker or implanted metallic foreign body/device
4. Extensive breast reconstructive surgery or surgical advice precluding exercise for > 4 weeks

Design

Prospective observational study (40 subjects):

Exercise cardiac magnetic resonance imaging and cardiopulmonary testing (VO₂max testing) will be performed before and after anthracycline-based chemotherapy to assess whether there is a reduction in cardiac function and fitness, respectively.

Non-randomised sub-study (20 subjects formal exercise training, 20 subjects standard of care):

Volunteers will be offered the opportunity to participate in a structured exercise training program during chemotherapy to assess whether exercise training maintains fitness and cardiac function during chemotherapy.

Please refer to full current approved version of Protocol for more information.