Feasibility and effectiveness of preoperative exercise therapy for cancer diagnoses in Victoria.

Presented by: Mr. Declan Hennessy MSc. Doctor of Philosophy (Clinical Exercise Physiology)

Supervised by: Prof. Fergal Grace, Dr Matt Wallen



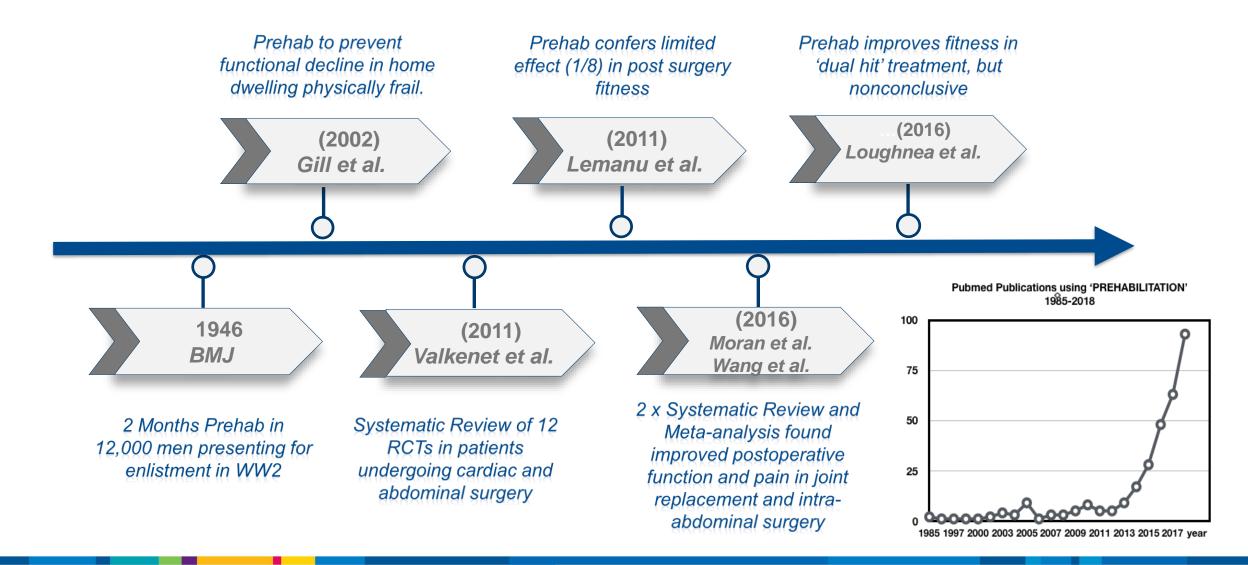


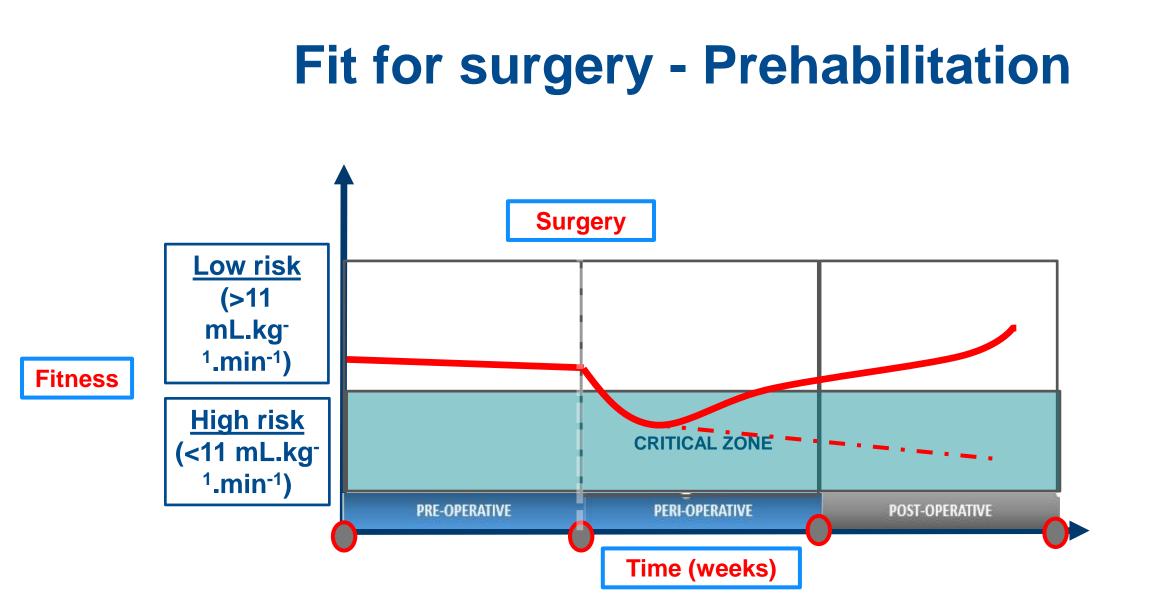






Prehabilitation Timeline





Application of prehabilitation in Western Victoria

Developing a best practice, <u>preoperative exercise therapy</u> 'prehabilitation' model for patients with prostate, colorectal and breast cancer, in the Grampians region of Victoria

The PROTECT Trial

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Ballarat Regional Inter

CancerCent

Care, Treatment & Research

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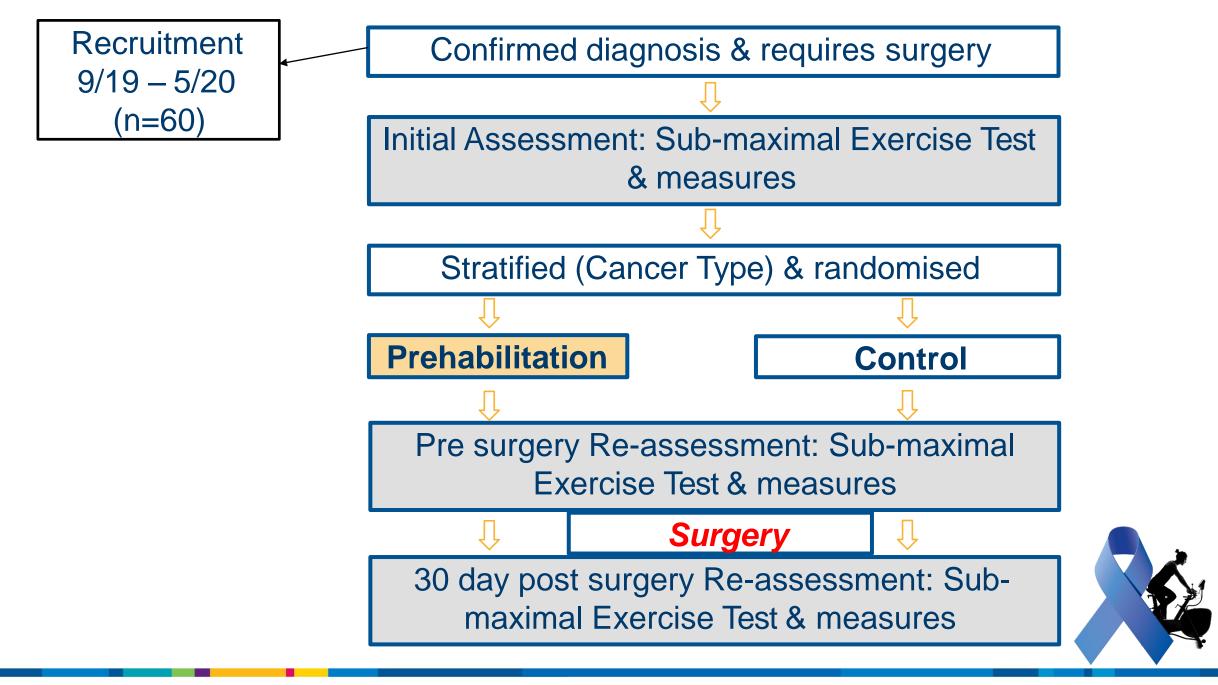
Pre-registered clinical trial (ACTRN12619000214134)





Grampians Integrated Cancer Service (GICS)





Feasibility and effectiveness of preoperative exercise therapy for cancer diagnoses in Victoria.

Prehabilitation intervention

• How often:

- 2-3 x per week for 4+ weeks
- How hard:
 - Aerobic exercise: 40-70% of heart rate reserve (HRR) achieved during initial exercise test.

• How long:

• 45-60 minutes each session

• Doing what:

 Supervised aerobic exercise (Treadmill, Stationary bike, crosstrainer)

Where and Whom?

Primary Study Location:



Enrolment criteria:

- Written informed consent
- Diagnosed with prostate, colorectal or breast cancer requiring surgery

Secondary Study Locations: •





- Age ≥ 18 years
- ECOG status 0-1
 - Participant availability



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Study design – Methodology

- **CONSORT** compliant randomised controlled trial (RCT) for prostate, colon and breast cancer patients undergoing surgery.
- Primary outcomes:
 - safety (adverse events and serious adverse events),
 - feasibility (adherence and compliance) and
 - effectiveness (cardiopulmonary testing)
- Secondary outcomes
 - Blood biochemistry (immunology), Quality of Life (QoL), large artery compliance



("Consort - Welcome to the CONSORT Website", 2019)