

# The physicAl aCtivity Counselling for young adult cancEr SurvivorS (ACCESS) trial: A protocol for a parallel, two-arm pilot randomized controlled trial

uOttawa

**Jennifer Brunet, PhD**<sup>1,2</sup>, Jenson Price, MA<sup>1</sup>, Amirrtha Srikanthan, MD, MSc<sup>3</sup>, Fiona Gillison, PhD<sup>4</sup>, Martyn Standage, PhD<sup>4</sup>, Monica Taljaard, PhD<sup>2</sup>, Mark R. Beauchamp, PhD<sup>5</sup>, Jennifer Reed, PhD<sup>1,6</sup>, Amanda Wurz, PhD<sup>7</sup>

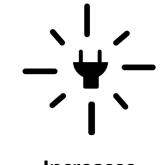
<sup>1</sup> University of Ottawa; <sup>2</sup> Ottawa Hospital Research Institute; <sup>3</sup> The Ottawa Hospital; <sup>4</sup> University of Bath; <sup>5</sup> University of British Columbia; <sup>6</sup> University of Ottawa Heart Institute; <sup>7</sup> University of the Fraser Valley

# Benefits of Physical Activity (PA)

















**Promotes overall health** and wellbeing

**Improves relationships &** feelings of social support

**Enhances cognitive** functioning

**Sessions** 

Boosts immune system

Theme

Introduction &

Discovery

Improves flexibility, strength, & endurance

Enhances mood

**Topics** 

**Increases self-efficacy,** confidence, & competence

# **Background and Rationale**

- Globally, 1.2 million young adults (≥18 years) are diagnosed with cancer each year
- Many survivors report persistent side effects that impair their quality of life
- PA holds promise as a behavioural intervention to mitigate persistent side effects and improve quality of life post cancer treatment
  - Few young adult cancer survivors are active enough to incur benefits
- PA behaviour change is challenging and supportive cancer care focused on promoting PA is not always prioritized, particularly in non-urban areas
- The ubiquity of the Internet means interventions offering support for PA could be implemented across and beyond urban areas to promote PA in young adult cancer survivors

## **Current Project & Objectives**

- We developed a novel and theoretically-informed behaviour change support intervention (i.e., the ACCESS intervention) to promote PA via videoconference in young adult cancer survivors
- As a first step, we want to establish if the ACCESS intervention, and the methods we propose to use to evaluate its effects, are feasible and acceptable
  - If so, then future research may then look at its effectiveness and costs to support the identification of a quality, cost-effective intervention to promote PA

### **Objectives**

- 1. Assess intervention and trial feasibility and acceptability
- 2. Generate data on PA behaviour

## Methods

#### Study and intervention design

- Parallel, two-arm pilot randomized controlled trial (RCT) with 1:1 allocation ratio (stratified by biological sex) to intervention group or usual care (i.e., no intervention)
- Intervention consists of 6 x 60 min real-time sessions delivered biweekly via videoconferencing by trained PA counsellors



## **Participants**

- Young adult survivors across Canada are recruited via healthcare providers' referral and self-referral
- Inclusion criteria:
  - ➤ Currently 18–39 years
  - > Received a first diagnosis of invasive, non-metastatic cancer between 18–39 years
  - Completed primary treatment for cancer <5 years</p>
  - ➤ Able to read/speak English
  - Have access to videoconferencing technology
- Exclusion criteria:
  - Evidence of current cancer
  - > Physical impairments precluding participation in PA
  - > Self-report ≥150 min/week of moderate-to-vigorous intensity aerobic PA in the month prior to screening
  - ➤ Non-ambulatory status

#### **ACCESS Intervention (see Table 1)**

- Targets self-determination theory (SDT) constructs, focusing on:
  - Providing autonomy support, structure, and interpersonal involvement;
  - > Increasing perceptions of autonomy, competence, and relatedness; and Increasing autonomous motivation
- Includes content & relational techniques to augment SDT constructs and facilitate behaviour change
- PA counsellors use motivational/behaviour change techniques and motivational interviewing techniques that align with SDT to support the delivery of the content

	Discovery	<ul> <li>Discuss goal setting for PA and create initial action plan</li> <li>Discuss PA self-monitoring techniques</li> </ul>
2	Setting up for Success	<ul> <li>Discuss what is/is not PA</li> <li>Discuss PA barrier identification and management</li> <li>Update action plan</li> </ul>
3	Getting Going	<ul> <li>Discuss social support for PA</li> <li>Discuss time management</li> <li>Update action plan</li> </ul>
4	Adjusting your Perspective	<ul> <li>Discuss how PA is related to mood</li> <li>Discuss environmental restructuring</li> <li>Update action plan</li> </ul>
5	Reinforcing New Behaviours	<ul> <li>Encourage self-identifying of self as a PA role model</li> <li>Discuss framing/reframing PA</li> <li>Update action plan</li> </ul>
6	Keep Going!	<ul> <li>Review topics covered throughout the program</li> <li>Explore how PA fits into life long-term</li> <li>Revise/create a new action plan for future</li> <li>Discuss strategies for managing stress</li> </ul>

Table 1

Welcome and introductions

Discuss the benefits of PA and risks of inactivity

## **Data Collection & Analysis**

Re-iterate that PA journey is not linear

- Feasibility outcomes (i.e., enrollment, allocation, follow-up, analysis) are tracked by study staff
- Acceptability is assessed through interviews with persons receiving (i.e., young adult cancer survivors) and delivering (i.e., PA counsellors) the intervention
- PA behaviour is measured using accelerometers
- Assessments schedule: pre-randomization, post-intervention period, and 24 weeks post-baseline
- Quantitative analyses will involve descriptive statistics and linear regression analysis
- Qualitative analyses will involve content analysis

#### Conclusion

- Feasibility and acceptability data will help to determine which refinements, if any, are required to the intervention, implementation approach, and proposed evaluation methods prior to advancing to a large, full-scale RCT
- PA behaviour data collected will inform the sample size calculation for a large, full-scale RCT

#### Acknowledgements



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