

# BMJ Open While you're waiting, a waiting room-based, cardiovascular disease-focused educational program: protocol for a randomised controlled trial

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## ABSTRACT

**Introduction** Patients with cardiovascular disease (CVD) frequently attend outpatient clinics and spend a significant amount of time in waiting rooms. Currently, this time is poorly used. This study aims to investigate whether providing CVD and cardiopulmonary resuscitation (CPR) education to waiting patients in a cardiology clinic of a large referral hospital improves motivation to change health behaviours, CPR knowledge, behaviours and clinic satisfaction post clinic, and whether there is any impact on reported CVD lifestyle behaviours or relevant CPR outcomes at 30 days.

**Methods and analysis** Randomised controlled trial with parallel design to be conducted among 330 patients in the waiting room of a chest pain clinic in a tertiary referral hospital. Intervention (n=220) participants will receive a tablet-delivered series of educational videos catered to self-reported topics of interest (physical activity, blood pressure, diet, medications, smoking and general health) and level of health knowledge. Control (n=110) participants will receive usual care. In a substudy, intervention participants will be randomised 1:1 to receive an extra video on CPR or no extra video. The primary outcome will be the proportion of intervention and control participants who report high motivation to improve physical activity, diet and blood pressure monitoring at end of clinic. The primary outcome of the CPR study will be confidence to perform CPR post clinic. Secondary analysis will examine impact on clinic satisfaction, lifestyle behaviours, CPR knowledge and willingness to perform CPR post clinic and at 30-day follow-up.

**Ethics and dissemination** Ethics approval has been received from the Western Sydney Local Health District Human Research Ethics Committee. All patients will provide informed consent via a tablet-based eConsent framework. Study results will be disseminated via the usual channels including peer-reviewed publications and presentations at national and international conferences.  
**Trial registration number** ANZCTR12618001725257.

## INTRODUCTION

The major risk factors for cardiovascular disease (CVD) are considered the largest contributors to global disease burden,<sup>1</sup> and coronary heart disease is the single leading cause of death in Australia.<sup>2</sup> Low survival

## Strengths and limitations of this study

- This study is a randomised controlled trial evaluating the feasibility and impact of a cardiovascular disease-focused educational programme delivered to patients in the waiting room of a rapid access cardiology clinic within a tertiary hospital in Sydney, Australia.
- The intervention is a series of educational videos customised to participant-reported level of health knowledge and topic of interest and will be compared with a control of usual care.
- The primary outcome will be participant-reported motivation to improve cardiovascular health-related lifestyle behaviours immediately post clinic visit.
- A nested study will assess whether a brief educational video on compression-only cardio-pulmonary resuscitation (CPR) will improve confidence and willingness to perform CPR.
- The study will be conducted in a single centre, the intervention delivered only in English and the outcomes will be measured using self-report Likert scales.

rates for out of hospital cardiac arrest is also an important contributor to CVD mortality.<sup>3,4</sup>

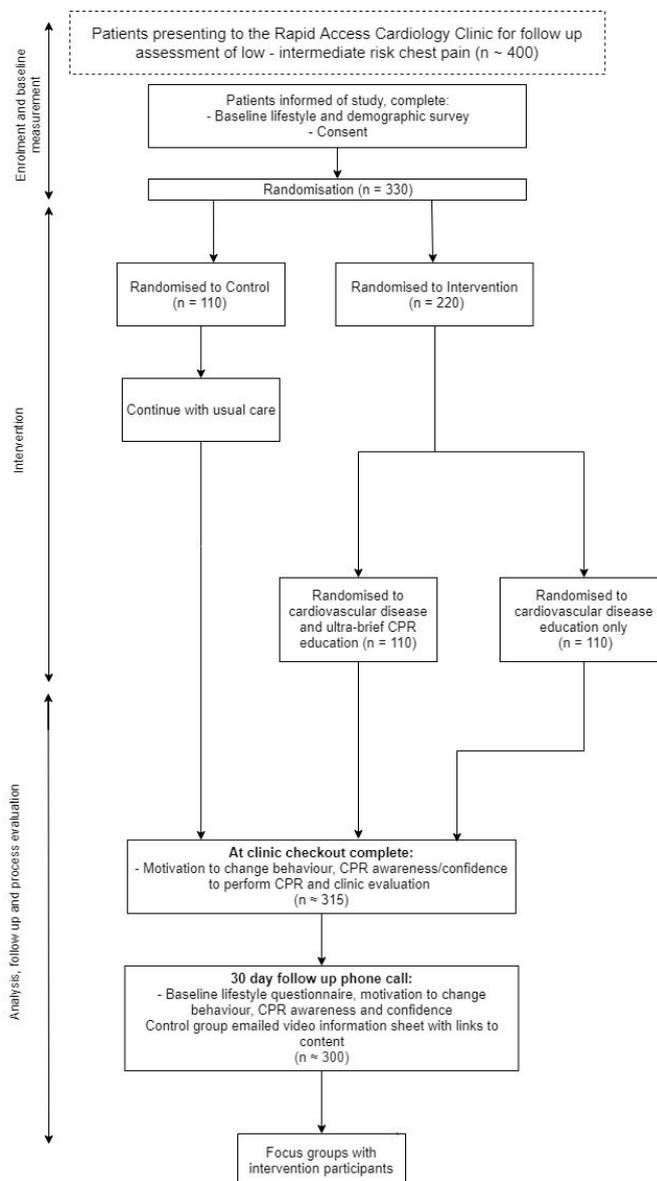
Low educational attainment and poor health literacy have consistently been associated with higher CVD risk,<sup>5</sup> and the development of educational interventions to support people at risk of CVD is a priority area across many peak CVD health bodies globally.<sup>6–8</sup> Multiple theoretical models have been proposed to explain the impact (or otherwise) of educational CVD prevention interventions on health attitudes and behaviours.<sup>9</sup> One example raised in the WHO's 2012 health education guide is the rational or 'knowledge, attitudes and practice' model, in which it is suggested that patient knowledge directly influences health attitudes and practices on a continuum.<sup>10,11</sup> This theoretical basis appears largely consistent with randomised clinical trial data. For

example, brief educational interventions in cardiopulmonary resuscitation (CPR) improve knowledge, confidence and willingness to perform CPR.<sup>12 13</sup> There is also an extensive literature that describes the potential for brief educational interventions to impact smoking and alcohol-related attitudes and behaviours.<sup>14 15</sup> However, within most clinical settings, there is insufficient time to deliver important health-related education and promotion. Patients who attend health services spend large amount of time in waiting rooms waiting for their appointment.<sup>16</sup> This time burden is growing, poorly used and is cumulative for patients with chronic health conditions that frequently attend healthcare appointments.<sup>17</sup> Yet, this time also presents an opportunity to deliver health education to patients at risk of CVD with little to no time cost for clinicians or patients.

Historically, the clinic waiting room has been used to distribute health education and prevention material with little strategic approach.<sup>18</sup> The efficacy of some specific approaches to waiting room education, such as printed posters/pamphlets, provision of screening assessments or educational programmes in waiting rooms, have been investigated.<sup>19</sup> These have suggested some benefits of waiting room-based interventions. For example, Warner *et al* (2008) ran a multicentre cluster randomised controlled trial of 38635 patients in three sexual health clinics in the USA and found that a 23-minute video of patient-centred vignettes promoting safe sexual behaviour was effective in reducing sexually transmitted infections (HR 0.91, 95% CI 0.84 to 0.99).<sup>20</sup> Data from non-randomised studies also suggest provision of education in the waiting room improves patient satisfaction.<sup>21–23</sup> However, little is known about the impact of these interventions on health attitudes and behaviours. Berkhout *et al* undertook a systematic review of 21 audio-visual interventions in primary care waiting rooms. They found evidence for knowledge improvement, yet no evidence of impact on health behaviours or attitudes, but there were a number of methodological limitations noted.<sup>24</sup>

There is a paucity of research investigating the impact of education in waiting rooms related to CVD prevention and CPR training. A small study (n=100) in an emergency department waiting room found participants exposed to a 1-minute video were more likely to perform CPR correctly, indicating such interventions may be feasible and effective for CVD prevention as well.<sup>25</sup> We hypothesise that patients attending outpatient cardiology clinics, having recently experienced a potential cardiac event, will be highly motivated to engage in both CVD and CPR education. A 2018 Australian qualitative study of cardiac patients and their spouses (n=12 pairs) found there is strong interest in CPR training among this population, with only one patient-spouse pair stating they had no interest in CPR training.<sup>26</sup>

This study aims to examine in a pragmatic, single-blinded randomised controlled trial of patients in the waiting room of an outpatient cardiology clinic whether waiting room-based CVD prevention educational videos



**Figure 1** Study Consolidated Standards of Reporting Trials (CONSORT) diagram. CPR, cardiopulmonary resuscitation.

compared with usual care can increase patient motivation to improve cardiovascular health, satisfaction with health services and CVD health-related behaviours. In addition, to specifically examine educational videos impact on CPR knowledge and confidence, intervention participants will be randomly split into two groups with one group to receive an additional CPR video.

## METHODS

### Study design

A single-centre, single-blind, parallel designed randomised controlled trial of 330 patients in the waiting room of an outpatient cardiology clinic within a tertiary teaching hospital in Sydney, Australia (figure 1). Intervention (n=220) participants will receive a tablet-delivered curated series of advertisement free, web-based

educational videos covering multiple CVD-related topics. Control (n=110) participants will receive usual care.

Among intervention participants, a second randomisation into two groups will occur, with one group to receive an additional 2-minute educational video on chest only CPR (n=110) or no additional video (n=110). Patients will be assessed post clinic and at 30 days for measures of motivation to improve lifestyle behaviours, clinic satisfaction, actual lifestyle behaviours and knowledge of/confidence to perform CPR.

### Patient population

The study population will be patients presenting to the Rapid Access Cardiology (RAC) Clinic Westmead Hospital. The RAC is a clinic providing specialist assessment of low-intermediate risk chest pain. Most patients seen are first presentation patients as the clinic's remit is to not conduct long-term follow-up of patients to enable the clinic to continue to provide rapid access to new chest pain patients.<sup>27</sup> Data from a 2015 audit show 13% of patients had pre-existing coronary artery disease (CAD) and 7.9% were diagnosed with new CAD. Many patients presenting to this clinic have multiple CAD risk factors (81.3% had  $\geq 2$  cardiovascular risk factors of pre-existing CAD, chronic renal failure, diabetes, hyperlipidaemia, hypertension, overweight/obesity, smoker).<sup>28</sup> We therefore predicted that this patient population would be interested in receiving education on CVD risk factors and motivated to make behavioural changes to improve their health following clinic attendance.

### Intervention development, patient and public involvement

The intervention comprised a set of curated educational videos delivered on tablets with patients able to select content to view. The development of the intervention was through a multistage process involving researchers, clinical personnel and consumers to select the delivery platform, the approach to content selection and the approach to content distribution.

The video content was identified through internet searches and recommendations from a range of individuals. A short list of videos was brought together by investigators applying some simple selection criteria: that they were advertisement free, easily accessible on YouTube and addressed topics relevant to CVD prevention including diet, physical activity, hypertension, smoking, medications and CPR education. Investigators prioritised Australian made videos; however, some high-quality resources from the UK and USA were also included.

Curation of the short-listed videos for the purposes of the study was done with the input of a multidisciplinary

group of 11 clinical and research staff (cardiology, dietetics, psychology, exercise physiology, physiotherapy, nursing) at Westmead Hospital, and a convenience sample of 21 consumers with CVD recruited via the Cardiomyopathy Association of Australia. Clinicians and consumer input were obtained by a survey tool asking them to rate videos. Clinicians were asked about content accuracy, educational value, perceived utility, appropriate health literacy, potential to cause anxiety and overall whether they would recommend the video to patients to motivate lifestyle change.

Consumers were asked whether videos were engaging, had potential impact on knowledge and potential to motivate a change in lifestyle. Following this input, five videos were excluded due to complexity of content conveyed, inappropriate tone and potential to cause anxiety in the selected patient population.

The final list of videos included 21 educational videos, 7 on diet, 4 on physical activity, 2 on hypertension, 2 on heart attack, 1 on smoking, 1 on alcohol use, 3 on medications and 1 on CPR. Overall, 11 were assigned to a separate general health category. The mean video length was 3 min, 14 s (range 57 s–6 min, 50 s). Top-rated clinician and consumer videos were assigned as 'staff pick' (see figure 2) and appeared at the top of the video list for intervention participants. Other videos were ordered in descending order according to clinician and consumer rating. Participants scan through the list of videos created by their health knowledge and topic of interest selections and decide which videos they would like to watch with minimal input from research staff.

### Participant eligibility

Inclusion criteria are as follows:

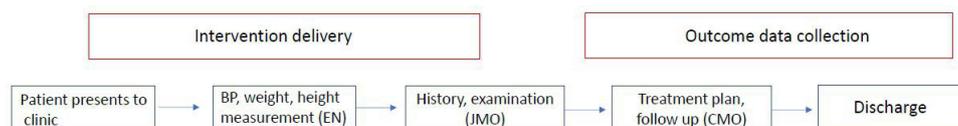
1. Adults over 18 years of age.
2. Present at the RAC Westmead for specialist assessment.

Exclusion criteria are as follows:

1. Too unwell (physically or mentally) to complete surveys and/or watch videos.
2. Insufficient English language competency to provide informed consent.
3. Previously recruited to the study.

### Recruitment and consent

Eligible patients will be recruited in the waiting room of the RAC clinic in cooperation with clinic staff who will advise if patients meet exclusion criteria (1) or (2). Trained staff will explain the study to potential participants. Recruitment, intervention delivery and outcome collection will be performed around existing clinic flow



**Figure 2** Recruitment procedure: intervention delivery and data collection. CMO, consultant medical officer; EN, enrolled nurse; JMO, junior medical officer.

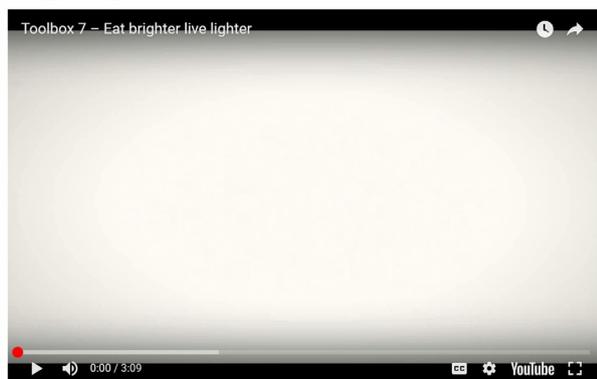


### Eat Brighter Live Lighter \*Staff Pick\*

Daniel, ever noticed how bright the veggies are on your plate? If your meal is more colourful, it's probably healthier. Find out how to increase your fruit and vegetable intake and what this will do for your health.

Click the Youtube icon to play the video

#### Eat brighter live lighter



2) What did you think of that video?

Five horizontal buttons with smiley face icons representing a Likert scale from sad to happy.

you don't have to respond

reset

3) Any further comments on this video?

Text input field for comments.

**Figure 3** Intervention delivery (video reference: [https://www.youtube.com/watch?v=v\\_UPWQze2DU](https://www.youtube.com/watch?v=v_UPWQze2DU)).

such that participation in the study does not increase patient waiting time or affect clinical care (figure 3).

As a waiver of consent was not allowed by the ethics and governance committee overseeing the study, participants will complete eConsent (see online supplemental appendix 1) on iPads provided by the study. The eConsent form will be incorporated into the Research Electronic Data Capture (REDCap) form such that the patient must agree to, complete and sign the eConsent before any data collection or intervention delivery occurs. If patients do not wish to participate, there will be opportunity to decline or withdraw during the clinic day. Ethical approval was obtained from Western Sydney Local Health District Human Research Ethics Committee in December 2018. The first participant was recruited in December 2018.

This trial is registered on the Australian New Zealand Clinical Trials Registry. This includes all items from the WHO Trial Registration Data Set. Final follow-up is anticipated to be complete by April 2020.

## Randomisation

Once participants have consented, the baseline survey (see online supplemental appendix 2) will be initiated on the tablet. Following this, participants will be randomised, with control participants provided a thank you message and intervention participants receiving the initial intervention. Randomisation will occur centrally via a computer-generated sequence, using the randomise R library of R statistical software (V.3.5.1) and the sequence imported into the REDCap platform. Randomisation will be 2:1 such that there are two intervention patients per one control patient and in randomised permuted blocks of six and three to reduce predictability and ensure a balance between the two arms. Within the intervention arm, participants will be randomised again to receive a CPR video in addition to the other videos or to only receive educational videos.

The randomisation key will be loaded on to the online software platform used to deliver the intervention, the REDCap.<sup>29 30</sup> Due to the nature of the intervention, clinic staff and patients cannot be blinded. Study staff recruiting patients and follow-up outcome assessors will be blinded to the condition patients have been randomised to.

## Intervention group

Participants allocated to intervention will be asked about their level of health knowledge (low, medium or high) and topics of interest (physical activity, medications, diet, hypertension, heart attack or general education). This preferences data will be used to generate a customised list of videos using the REDCap queuing feature. Videos are to be delivered through an embedded YouTube link, as if the participants are watching the video online themselves (see figure 3). Prior to receiving the video list, half the participants in the intervention arm will be directed to a 2-minute educational CPR video on YouTube, half will not. Participants will be provided with headphones such that intervention delivery does not disturb others in the waiting room.

## Control

Control participants will only complete the baseline and follow-up surveys and not be offered videos on the tablets and will proceed through usual care in the waiting room. The waiting room in the RAC clinic has some educational posters on the wall, some educational leaflets and a small central television on low volume fixed to a channel chosen by administrative staff. At 30-day follow-up, a copy of the video library with YouTube links will be offered to all control participants.

## Study outcomes

### Primary study

The primary outcome is motivation to improve two or more of three CVD prevention behaviours—diet, physical activity and blood pressure monitoring immediately post clinic. Motivation will be assessed with a self-reported 7-point Likert scale. A response of 6 or 7 will be

considered motivated (see online supplemental appendix 3). This outcome will also be assessed as the mean participant score on a continuous scale that combines these three variables (out of a maximum score of 21), and the mean participant score on each separate scale (out of a maximum score of 7).

### CPR substudy

For the CPR substudy, the primary outcome will be confidence to perform CPR immediately post clinic. CPR confidence will be measured on a 5-point Likert Scale, with a response of 4 or 5 considered confident (see online supplemental appendix 3). Mean participant confidence scores out of 5 will also be assessed.

### Secondary outcomes

The secondary outcomes measured at end of clinic will be:

- ▶ Satisfaction with clinic experience—self-report Likert scales.
- ▶ Willingness to perform CPR—yes/no.
- ▶ Knowledge of CPR—true/false.

The secondary outcomes measured at 30-day follow-up will be:

- ▶ Motivation to improve physical activity and diet—self-report Likert Scale.
- ▶ Mediation adherence—self-report yes/no.
- ▶ Diet—self-report Likert Scale.
- ▶ Exercise—self-report Likert Scale.
- ▶ CPR confidence—self-report Likert Scale.
- ▶ Willingness to perform CPR—yes/no.
- ▶ CPR knowledge—true/false.

### Data collection and management

Data are collected at baseline, end of the clinic visit and at 30-day follow-up (table 1).

Baseline data will include demographic information, medical history, behaviour and CVD risk factors and be extracted from participant clinical records and supplemented by a brief baseline questionnaire delivered through the REDCap platform on the iPads.

The end of clinic survey is delivered as a paper-based survey given to participants on exiting the clinic and the 30-day follow-up evaluations will be conducted via phone call by study staff (see online supplemental appendices 2–4). Investigators elected to deliver this as a paper-based survey because it ensured participants were not able to enter data into the end of clinic survey prematurely (ie, prior to completion of their clinic appointment), and ensured tablets were available to recruit subsequent participants.

Additional data collected will include total time spent in clinic as a proxy for clinic waiting time. This is collected by clinic administration staff who log patient arrival and departure time in a centralised hospital computer system. Participant feedback on intervention acceptability will be collected in free text and using a visual satisfaction score (see figure 3). Data will be managed in the RedCap system

**Table 1** Timing and mode of collection of data used in the study

Survey	Baseline (pre clinic)	End of clinic	30-day follow-up
Demographic information and medical history and behaviour/risk factors*	x		
Motivation to improve diet and increase physical activity (see online supplemental appendices 3 and 4)		x	x
Motivation to regularly measure blood pressure (see online supplemental appendix 3)		x	
Satisfaction with clinic education, wait time and clinic overall (see online supplemental appendix 3)		x	
Self-reported physical activity, fruit intake, vegetable intake and medication adherence (see online supplemental appendices 2 and 4)	x		x
Confidence, willingness to perform CPR and awareness (see online supplemental appendices 2–4)	x	x	x

\*Information from online supplemental appendix 2 questions and data routinely collected in clinic. CPR, cardio-pulmonary resuscitation.

during the trial with programmed range checks and sense checks. Physical source data for the end of clinic survey will be stored in a locked office accessible only by card. Primary outcome data will be monitored against source data. At study completion, data will be exported for analysis. Exported data files will be stored in secure password-protected servers at the University of Sydney in compliance with ethical commitments. As no harm is anticipated from this intervention, we do not require a data safety monitoring board.

### Sample size

We estimated a sample size of 330 (2:1 intervention:control ratio), allowing for ~5% attrition, two-sided tests, and type 1 error of 5% will have 80% power to detect a relative increase of 41% (relative risk (RR) 1.41) in the proportion reporting they are highly motivated in two of three key behaviours.<sup>31</sup> That is, an absolute increase of 16.4%, from 40% to 56.4%. We have assumed that approximately 40% of control participants would report being highly motivated to change behaviour (equal or greater than 6 on a 7-point Likert Scale) based on data reported by Deci *et al* on patients undergoing chest pain by specialists having high levels of motivation for lifestyle change (mean self-reported autonomous motivation 6.07 on a 7-point positively skewed Likert Scale approximately 1 week post episode (n=252, SD=0.81)).<sup>32</sup>

In addition, we estimated a sample size of 220 (1:1 intervention:control ratio), allowing for ~5% attrition, two-sided tests and type 1 error of 5% will have 80% power to detect a relative increase of 37% (RR 1.37) in the intervention arm. That is, an absolute increase of 18.5%, from



50% to 68.5%. We have assumed a control rate of 50% from a survey of CPR education administered to a convenience sample of 100 visitors entering Westmead Hospital on World Heart Day in September 2018 that found 50% responded 'agree' or 'strongly agree' to the question 'I am confident in my ability to perform CPR'.

### Statistical analysis

Our analysis will be according to a separate statistical analysis plan that will be finalised prior to study completion, data lock and unblinding. Analysis will follow the principals of intention to treat, with participants analysed in the arm they have been allocated. All outcomes will be assessed in an adjusted analysis (log binomial for binary outcomes and analysis of covariance for continuous outcomes), which will be considered the primary approach. All adjusted analyses will include age, sex, total waiting time and educational level as covariates. Where outcome measures are available at baseline, the corresponding baseline value will also be included as a covariate. Intervention and control groups will also be compared in an unadjusted analysis, using a  $\chi^2$  test for binary outcome measures and independent sample t-tests for continuous outcomes. The interaction of treatment effect and age, gender, education, ethnicity and category of presentation (typical/atypical chest pain, arrhythmia or other) will also be explored. However, the study is not powered for analysis of these subgroups. As we are expecting data missingness for the primary outcome to be low (<5%), primary analysis will be a complete-case analysis. There are no planned imputation analyses in the event of missing study data.

### Process evaluation

We aim to assess the reasons for impact, or lack thereof, on outcomes from the intervention. We will monitor screening to recruitment rates and note reasons for non-participation. This will be explored through participant reactions to videos during intervention delivery, types and number of videos watched during intervention delivery, surveys disseminated to clinic staff and focus groups conducted with participants after the 1-month follow-up.

We will conduct focus group discussions with a targeted sample of individuals to explore the acceptability and perceived utility of the intervention, factors that impact the success of the intervention, barriers and enablers to uptake of the intervention. This will also explore what information on which videos were preferred and why and whether participants found the intervention easy to access (especially patients from culturally and linguistically diverse background, Aboriginal and Torres Strait Islander people and older patients). In addition, we will seek advice and thoughts on how the intervention can be improved, how other facets of the clinic and the waiting process can be improved and advice on how this programme could be integrated into waiting rooms in other healthcare contexts.

Process evaluation surveys by clinic staff will focus on understanding how well the intervention is as it stands fits into the clinic flow and how this can be improved.

Focus groups will be conducted by trained staff. All focus groups will be recorded, transcribed and key themes identified for detailed qualitative analysis.

### DISCUSSION

Clinic waiting time is an unavoidable part of the health-care experience. Using this perceived wasted time for provision of education may enhance the clinic experience, enhance the clinical appointment experience by both patient and clinician and have other beneficial outcomes on patient motivation in health behaviour modification and self-management. The proposed study evaluates a waiting room-based cardiovascular education focused programme applied using content curated by clinicians, researchers and consumers of entirely off the shelf and freely available video content in a pragmatic, single-blind randomised controlled trial. Our primary objective is to assess the impact on patient motivation to improve health-related behaviours. However, important learnings will also be obtained on potential secondary benefits on patients and clinician experience and how such interventions can be applied in the waiting rooms.

This study presents a novel use of the traditionally neglected and perceived wasted patient waiting time. This study may have implications on the potential use of a wide variety of types of waiting times that occur across healthcare. Patient waiting times for elective surgery and the emergency department are substantial and increasing across multiple Organisation of Economic Co-operation and Development countries.<sup>33–35</sup> Observational data from multiple studies in the USA, Europe and Asia also indicate that waiting room time in the primary care and outpatients setting is significant and often exceeds time spent in consultation with physicians.<sup>16 36–38</sup> Some small studies have already suggested that interventions delivered during patient waiting time are beneficial in populations at risk of CVD;<sup>39–41</sup> however, we are not aware of any other studies where educational interventions are specifically delivered to patients with high CVD risk in cardiology clinic waiting rooms.

Using this time to improve patient experience and health is likely to be of high interest to clinic operators in both the private and public sectors. If successful, this concept is scalable, and the specific intervention and approach to development is also potentially significantly scalable. The approach to provision of curated information to patients at a time that they are interested in their health is of potential high yield. In the context of our information bombarded current society context in which information curation by the individual is challenging, it also is likely to be highly socially acceptable.

### Potential limitations

This is a single-site study in one hospital in Western Sydney, Australia. We have taken a pragmatic and

minimalist approach to data collection to improve uptake and minimise impact in already crowded clinical waiting rooms. Hence, to reduce survey fatigue and maximise the time for intervention delivery in the waiting room, we have not delivered more involved, validated tools for the assessment of motivation, satisfaction with services and healthcare behaviours at baseline, post clinic and in follow-up. These factors could reduce our ability to measure the impact of the intervention. The short follow-up period (30 days) also limits our ability to determine if an impact on outcomes at follow-up translates to a lasting change in behaviour that improves health in the long term. Additionally, there is a potential that our integrated, tablet-based consenting, data collection and intervention delivery tool could deter older patients from using the intervention. We will be assessing shortcomings and potential areas for improvement of the delivery tool in our process evaluation.

## ETHICS AND DISSEMINATION

Ethics approval for this study has been granted by the Western Sydney Local Health District Human Research Ethics Committee. During the consenting and follow-up process, patients will be informed of their right to refuse participation in or withdraw from the study. This will not affect their care. Protocol deviations will be reported to this ethics committee and informed consent will be obtained from all study participants.

Study data will only be accessible by study investigators (DM, AT, CC) and the study statistician. Each study participant will be assigned a unique study identification number such that their name and contact number (required for follow-up) are stored separately to their study data. Authorship will be considered according to the International Committee of Journal Editors guidelines. Study results will be disseminated via the usual forums including peer-reviewed publication and at national and international conferences. Investigators will make full protocols and de-identified study data available on reasonable request and subject to ethical approval.

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**Contributors** DM: Conceptualisation, methodology, software, writing—original draft, and funding acquisition. AT: Conceptualisation, methodology, software, writing—review and editing, funding acquisition and supervision. CC: Conceptualisation, methodology, writing—review and editing, funding acquisition, supervision and accepts responsibility as the paper guarantor.

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## Baseline Survey

Please complete this 2 minute survey before receiving your personalised education program

---

Time baseline began

---

Gender

- Male  
 Female  
 Prefer not to say
- 

What is your age?

---

To which racial or ethnic group do you most identify?

- Aboriginal/Torres Strait Islander  
 Polynesian  
 European  
 American (North, Central and South)  
 South Asian (Bangladesh, India, Nepal, Pakistan, Sri Lanka)  
 East Asian (China, Japan, Taiwan)  
 South-East Asian (Vietnam, Cambodia, Laos, Burma, Malaysia, Singapore, Phillipines, Thailand, Indonesia, East Timor)  
 Middle-East and North African  
 Sub-Saharan Africa  
 Pacific Islander  
 Other
- 

Other ethnicity

---

What is the highest level of primary or secondary schooling completed?

- Did not go to school  
 Year 8 or below  
 Year 9 or equivalent  
 Year 10 or equivalent  
 Year 11 or equivalent  
 Year 12 or equivalent

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Have you completed a tertiary qualification?

- No
- Yes - still studying first qualification
- Yes - Trade certification/apprenticeship
- Yes - Diploma/graduate certificate
- Yes - Bachelor degree
- Yes - PhD/Masters
- Yes - Other

---

Other tertiary qualification

---

---

How often do you exercise?

(Think of exercise as activity that increases your breathing, heart rate or makes you sweat)

- Not at all
- Not regularly, but my job keeps me 'on the go'
- 30 minutes daily, for most days
- 30 minutes daily, 7 days a week
- More than 30 minutes a day, 7 days a week

---

How many servings of vegetables do you have a day?

(1 serve of cooked vegetables (eg broccoli/lentils) = 1/2 cup, 1 serve of raw vegetables (eg salad) = 1/2 cup)

- None
- Less than 2 serves daily
- 2-4 serves daily
- More than 4 serves daily

---

How many servings of fruit do you have a day?

(1 serve of fruit = 1 medium apple or similar)

- None
- Less than 1 serve a day
- More than 1 serve a day

---

Do you drink alcohol?

- Never
- On occasion
- Every weekend
- 2 standard drinks a day
- More than 2 standard drinks a day

---

Do you sometimes forget to take your medication?

- No
- Yes
- No medication

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---

I am confident in my ability to perform CPR

- Strongly disagree
- Disagree
- Neutral
- Agree
- Strongly Agree

---

Have you had training on CPR before?

- Yes
- No

---

How long ago did you complete your last training?

- Less than 6 months
- 6 months - 1 year
- 1 - 2 years
- 2 - 3 years
- 4 - 5 years
- More than 5 years ago

---

Why not?

- I havent thought about it before
- I dont have time
- I dont know where to access training
- Too expensive
- Not interested in learning how to give CPR
- Other

---

Other

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## End Of Clinic Survey

Please complete the survey below.

Thank you!

---

1) Attending the clinic today motivated me to improve my diet

- Very strongly disagree
- Strongly disagree
- Disagree
- Neutral
- Agree
- Strongly agree
- Very strongly agree

---

2) Attending the clinic today motivated me to increase my physical activity

- Very strongly disagree
- Strongly disagree
- Disagree
- Neutral
- Agree
- Strongly agree
- Very strongly agree

---

3) Attending the clinic today motivated me to regularly check my blood pressure

- Very strongly disagree
- Strongly disagree
- Disagree
- Neutral
- Agree
- Strongly agree
- Very strongly agree

---

4) I feel satisfied with the waiting time in the clinic today

- Very strongly disagree
- Strongly disagree
- Disagree
- Neutral
- Agree
- Strongly agree
- Very strongly agree

---

5) I feel satisfied with the education I received in the clinic today

- Very strongly disagree
- Strongly disagree
- Disagree
- Neutral
- Agree
- Strongly agree
- Very strongly agree

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6) I feel satisfied with the clinic overall today

- Very strongly disagree
- Strongly disagree
- Disagree
- Neutral
- Agree
- Strongly agree
- Very strongly agree

---

7) I am confident in my ability to perform CPR

- Strongly disagree
- Disagree
- Neutral
- Agree
- Strongly agree

---

8) Would you perform CPR on a stranger in an emergency situation?

- Yes
- No

---

9) Would you perform CPR on someone you know in an emergency situation?

- Yes
- No

---

10) I would feel confident using a defibrillator in an emergency situation

- Strongly disagree
- Disagree
- Neutral
- Agree
- Strongly agree

---

11) To perform CPR, you must do breaths and compressions

- True
- False
- Not sure

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## 30 day follow up

Please complete the survey below.

Thank you!

---

1) I currently feel motivated to improve my diet

- Very strongly disagree
- Strongly disagree
- Disagree
- Neutral
- Agree
- Strongly agree
- Very strongly agree

---

2) How many servings of vegetables do you have a day

- None
- Less than 2 serves daily
- 2-4 serves daily
- More than 4 serves daily

---

3) How many servings of fruit do you have a day?

- None
- Less than 1 serve a day
- More than 1 serve a day

---

4) I currently feel motivated to improve my physical activity

- Very strongly disagree
- Strongly disagree
- Disagree
- Neutral
- Agree
- Strongly agree
- Very strongly agree

---

5) How often do you exercise?

- Not at all
- Not regularly, but my job keeps me 'on the go'
- 30 minutes daily, for most days
- 30 minutes daily, 7 days a week
- More than 30 minutes a day, 7 days a week

---

6) How many kinds of medication do you take?

---

---

7) In the last 7 days, have you forgotten to take your medication on any day?

---

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8) I am confident in my ability to perform CPR

- Strongly disagree  
 Disagree  
 Neutral  
 Agree  
 Strongly agree

---

9) Would you perform CPR on a stranger?

- Yes  
 No

---

10) Would you perform CPR on someone you know?

- Yes  
 No

---

11) Do you know what a defibrillator is?

- Yes  
 No

---

12) I would feel confident using a defibrillator in an emergency situation

- Strongly disagree  
 Disagree  
 Neutral  
 Agree  
 Strongly agree

---

13) To perform CPR, you must do breaths and compressions

- True  
 False  
 Not sure

---

14) Date completed \_\_\_\_\_

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## **Informed Consent**

Please complete the survey below.

Thank you!

---

Before we begin, it is important that:

1. We explain the details of this study to you
2. You understand all study procedures including consent, withdrawal, and what will be done with your information.

Please read these sections carefully. There are staff available that can answer any questions you have.

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## Participant Information Sheet



### Participant Information Sheet

**Interventional Study - Adult providing own consent**

*Westmead Hospital*

<b>Title</b>	<i>While you're waiting</i>
<b>Principal Investigator</b>	<i>Professor Clara Chow</i>
<b>Location</b>	<i>Westmead Hospital</i>

#### Part 1 What does my participation involve?

##### 1 Introduction

This research project is testing a new educational programme for patients at risk of developing heart disease.

This Participant Information Sheet tells you about the research project. It explains the details of the program. Please read this information carefully. Ask questions about anything that you don't understand or want to know more about. Before deciding whether to take part, you might want to talk about it with a relative or friend during the clinic visit.

Participation in this research is voluntary. If you don't wish to take part, you don't have to. You will receive the best possible care whether or not you take part.

You will be emailed a copy of this Participant Information sheet to keep.

##### 2 What is the purpose of this research?

The purpose of this research is to test if providing educational videos about preventing heart disease whilst in the waiting room is better than standard educational materials in the waiting room. It is hoped that by providing this education, patients will have more positive experience at the clinic, be more motivated to change their risk factors and have healthier lifestyles than those receiving usual care.

This research has been initiated by the study doctor, Professor Clara Chow

##### 3 What does participation in this research involve?

When you arrive in the Rapid Access Cardiology Clinic you will check in with the reception staff. You will either receive a tablet with the videos or have access to the standard written educational materials present in the waiting room. Tablets will be randomly assigned to deliver videos or not.

The videos are about heart disease and understanding risk factors, will be between 1 and 5 minutes long and have been selected by health professionals.

At the end of the clinic you will be asked to complete a survey about your experiences.

At 30 days after this clinic appointment, our staff will phone you to ask some follow up questions about your diet, exercise and use of medicines. This will take about 5 minutes.

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Professor Clara Chow

We will be comparing the experiences and motivation to change health behaviours in patients that have been offered the different types of educational materials.

This research project has been designed to make sure the researchers interpret the results in a fair and appropriate way and avoids study doctors or participants jumping to conclusions.

There are no additional costs associated with participating in this research project, nor will you be paid. All videos required as part of the research project will be provided to you free of charge.

**4 What do I have to do?**

There are no special requirements for this study, we just ask that before you leave clinic you complete the questionnaires.

**5 Other relevant information about the research project**

We will be running this study over approximately the next 6 months.

**6 Do I have to take part in this research project?**

Participation in any research project is voluntary.

**7 What are the alternatives to participation?**

You do not have to take part in this research project to receive treatment at this hospital. You have the option to withdraw your information.

**8 What are the possible benefits of taking part?**

We cannot guarantee you will receive any direct benefits from this research. The educational materials may improve your clinic experience. The information arising from this research project will help us determine what type of educational materials are best to offer to our patients in the waiting room.

**9 What are the possible risks and disadvantages of taking part?**

There are no known risks to watching a video on heart disease. Watching the videos will not delay your treatment or time to see the doctors in the clinic. If you find the video upsetting, please speak to your doctor when you see them today. If you become upset or distressed as a result of your participation in the research, the study doctor will be able to arrange for counselling by qualified staff or other appropriate support. This counselling will be provided free of charge.

**11 Can I have other treatments during this research project?**

Whilst you are participating in this research project, you are able to take all of the medications or treatments you have been taking for your condition or for other reasons.

**12 What if I withdraw from this research project?**

If you decide to withdraw from the project, please notify a member of the research team before you withdraw.

If you do withdraw your consent during the research project, the study doctor and relevant study staff will not collect additional personal information from you, although personal information already collected will be retained to ensure that the results of the research project can be measured properly and to comply with law. You should be aware that data collected by the sponsor up to the time you withdraw will form part of the research project results. If you do not want them to do this, you must tell them before you join the research project.

**13 Could this research project be stopped unexpectedly?**

It is not anticipated that this project will be stopped for any reason.

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**14 What happens when the research project ends?**

We will report the results of the study in peer-reviewed papers and publish reports on our institutional websites.

**Part 2 How is the research project being conducted?****15 What will happen to information about me?**

Any information obtained in connection with this research project that can identify you will remain confidential. Your name will not be included in study databases, and all information will be stored using a study code. Your information will only be used for the purpose of this research project and it will only be disclosed with your permission, except as required by law.

In any publication and/or presentation about this research, information will be provided in such a way that you cannot be identified, except with your permission. All results will not contain your name and will be presented as a group and not individuals.

In accordance with relevant Australian and NSW privacy and other relevant laws, you have the right to request access to your information collected and stored by the research team. You also have the right to request that any information with which you disagree be corrected. Please contact the study team member named at the end of this document if you would like to access your information.

**16 Complaints and compensation**

If you suffer any injuries or complications as a result of this research project, you should contact the study team as soon as possible and you will be assisted with arranging appropriate medical treatment. If you are eligible for Medicare, you can receive any medical treatment required to treat the injury or complication, free of charge, as a public patient in any Australian public hospital.

**17 Who is organising and funding the research?**

This research project is being conducted by Professor Clara Chow.

No member of the research team will receive a personal financial benefit from your involvement in this research project (other than their ordinary wages).

**18 Who has reviewed the research project?**

All research in Australia involving humans is reviewed by an independent group of people called a Human Research Ethics Committee (HREC). The ethical aspects of this research project have been approved by the HREC of Western Sydney Local Health District.

This project will be carried out according to the *National Statement on Ethical Conduct in Human Research (2007)*. This statement has been developed to protect the interests of people who agree to participate in human research studies.

**19 Further information and who to contact**

The person you may need to contact will depend on the nature of your query.

If you want any further information concerning this project or if you have any medical problems which may be related to your involvement in the project (for example, any side effects), you can contact the principal study doctor Prof Clara Chow on 88903125 or any of the following people:

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**Clinical contact person**

Name	Professor Clara Chow
Position	Principal Investigator
Telephone	8890 3125
Email	clara.chow@sydney.edu.au

For matters relating to research at the site at which you are participating, the details of the local site complaints person are:

**Complaints contact person**

Position	Patient Advice and Liaison Service, Westmead Hospital
Telephone	8890 7014
Email	<a href="mailto:wslhd-pals-mail@health.nsw.gov.au">wslhd-pals-mail@health.nsw.gov.au</a>

If you have any complaints about any aspect of the project, the way it is being conducted or any questions about being a research participant in general, then you may contact:

**Reviewing HREC approving this research and HREC Executive Officer details**

Reviewing HREC name	Western Sydney Local Health District
HREC Executive Officer	Kellie Hansen
Telephone	8890 9007
Email	<a href="mailto:Wslhd-researchoffice@health.nsw.gov.au">Wslhd-researchoffice@health.nsw.gov.au</a>

**Local HREC Office contact (Single Site -Research Governance Officer)**

Position	Research Governance Officer
Telephone	8890 9007
Email	<a href="mailto:wslhd-rgo@health.nsw.gov.au">wslhd-rgo@health.nsw.gov.au</a>

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Please enter your email address so we can email the consent and withdrawal forms to you

\_\_\_\_\_  
(Your email address will not be used for any other purposes)

---

Do you agree to participate in the study?

Yes

No

(You do not have to participate. Your care will not be affected if you decline.)

---

Thank you for your time

---

By clicking yes, you are agreeing to the following declaration:

- I have read the Participant Information Sheet or someone has read it to me in a language that I understand.
- I understand the purposes, procedures and risks of the research described in the project.
- I give permission for my doctors, other health professionals, hospitals or laboratories outside this hospital to release information to Westmead Hospital concerning your disease and treatment for the purposes of this project. I understand that such information will remain confidential.
- I acknowledge that any regulatory authorities may have access to my medical records specifically related to this project to monitor the research in which I am agreeing to participate. However, I understand my identity will not be disclosed to anyone else or in publications or presentations.
- I have had an opportunity to ask questions and I am satisfied with the answers I have received.
- I freely agree to participate in this research project as described and understand that I am free to withdraw at any time during the study without affecting my future health care.
- I understand that I will be given a signed copy of this document to keep.
- I give permission for study coordinators to call me in 4 weeks to fill a 5 minute survey

---

Your First Name

\_\_\_\_\_

---

Your Last Name

\_\_\_\_\_

---

Your best contact number for follow up in 4 weeks time

\_\_\_\_\_

---

Please click on the link to the right to add your signature

\_\_\_\_\_

---

Today's date

\_\_\_\_\_