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© The Author(s) 2015 Reprinted by permission of SAGE Publications **Title:** Dual benefits of a student-assisted inter-professional men's healthy lifestyle pilot

program

Running head: inter-professional men's health program

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Conflict of interest

The authors report no conflicts of interest.

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Title: Dual benefits of a student-assisted inter-professional men's healthy lifestyle pilot

program

Abstract

Men are less willing to seek health professional advice than women, and die more often than

women from preventable causes. Therefore it is important to increase male engagement with

health initiatives. This study reports the outcomes of a student-assisted, inter-professional, 12

week health program for overweight adult males. The program included weekly health

education and structured, supervised group exercise sessions. Thirteen males (participants)

and eighteen university students (session facilitators) completed the program. Participants

were assessed for a range of health and physical activity measures and health and health

profession knowledge. Participants demonstrated significant improvement in activity,

knowledge and perceptions of physical and mental function, and appreciated the guided,

group sessions. Students completed an inter-professional readiness questionnaire and reported

significant improvement in the understanding of the benefits of inter-professional education

and of their role in health care. This program provides evidence of the dual benefit that

occurs from the delivery of a student-assisted, inter-professional men's health program to at-

risk community members.

Key words: exercise, health education, men's health program

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Main Article

Title: Dual benefits of a student-assisted inter-professional men's healthy lifestyle pilot program

Introduction

Health professionals have identified males as a 'hard to reach' population for health promotion and illness prevention initiatives (Bottorff et al., 2014). Males are less willing than females to have an annual check-up, seek health professional advice, and attend health education sessions (Bottorff et al., 2014; Harris & McKenzie, 2006), and die more often than females from preventable causes (Bilsker, Goldenberg, & Davison, 2010). It is therefore important to increase male engagement with health related education and activity by developing male specific health promotion programs. Approaches that challenge male attitudes to health based on beliefs about traditional masculinity and the socially prescribed roles of the male (Galdas, Cheater, & Marshall, 2005) are recommended. While structured exercise interventions for men are effective at reducing cardiovascular disease risk factors in older adult males (Kerr, Leicht, & Spinks, 2008; Lee, Paffenbarger, & Thompson, 2001), group exercise combined with education has additional psych-social benefits for men, such as improved motivation to exercise, the formation of new friendships and the feeling of shared identity and normalisation of experiences (Barnett, Yau & Gray, 2014). Combined exercise and education programs have also resulted in improved physical health outcomes such as weight and blood pressure reduction, increased self-reported physical activity, positive alterations in quality of life measures and confidence with ability to access health care for adult males with diverse health conditions (Barnett, Yau & Gray, 2014; Bazzano et al., 2009; Morgan et al., 2014; Schutgens, Schuring, Voorham & Burdof, 2009). Delivering healthy lifestyle programs that combine exercise and health education in collaboration with sporting

organisations has been reported to increase health outcomes for both younger (Pringle et al., 2013) and middle-aged to older (Sealey, Twomey, Pringle, Cheffins, & Gupta, 2013) adult males. It has been suggested that the success of these programs is men's familiarity and comfort with the setting (Bottorff et al., 2014). However, reliance on sporting club settings reinforces some of the male stereotypes that can contribute to poor male engagement with health services and may not engage those males who do not fit the sport stereotype. A health or clinic-based setting may provide an alternative environment without stereotypical gender associations. Contemporary health service delivery promotes an inter-professional practice model of patient care and this is enacted through the development of inter-professional health clinics (Timpone, 2012). The Inter-professional Diabetes Clinic in Washington County is a university-based collaborative teaching and practice model that combined inter-professional practice with inter-professional education (IPE) (Timpone, 2012). IPE is defined as 'Occasions when two or more professions learn from, with and about each other to improve collaboration and the quality of care', and there is general agreement that inter-professional education during health training programs is the most effective way to embed interprofessional practice skills in the future health workforce (The Inter-Professional Curriculum Renewal Consortium, 2013). The Inter-professional Diabetes Clinic resulted in high patient satisfaction with the provision of care and the flow between services; and high student agreement that the practice enhanced their appreciation of the value of inter-professional care that they benefited from the interaction with other student professionals, and gained better knowledge of the roles of other professionals in patient care (Timpone, 2012). Similarly, students that participated in IPE via case conferencing agreed that it was an effective learning experience, that they learned how other disciplines approach patient care and that the interdisciplinary approach had advantages over single-discipline patient care (Jobst et al., 2013). In light of the health benefits associated with group exercise and education programs,

and the benefits of inter-professional models of practice and education, the aim of the current project is to pilot and report on the outcomes of a student-assisted, inter-professional, 12 week education and exercise program for overweight adult males. This paper explores:

- 1) The health outcomes and change in health service knowledge of participants,
- Participant satisfaction with an inter-professional model of student-assisted health program delivery, and
- 3) Student learning outcomes as they relate to men's health promotion, discipline specific and inter-professional skills and knowledge.

Method

This project received ethics approval from the James Cook University Human Ethics Committee (H5732). This project is a pilot study.

Participants

Men aged 35-65 years, with a self-measured waist girth of greater than 94 cm were eligible to participate. A \$99 registration fee was charged to assist with cost recovery. Fourteen participants commenced the program and thirteen finished, with one participant transferring to an individualised program. Students currently enrolled in the Dentistry, Exercise Physiology (Clinical), Medicine, Nursing Science, Pharmacy, Physiotherapy, Psychology and Speech Pathology courses at James Cook University were invited to participate. Most students were in the final year of their course and the earliest involvement was at the end of the second year of study. Discipline mentors assisted students in preparing for the education session and attended the program evenings when their student group presented. Prior to the program commencement, students met with the program leader (senior lecturer, Exercise Physiology) and the inter-professional coordinator (IPC) for induction sessions and assistance

with education session design. The program leader facilitated the program sessions, supervised the education sessions with the relevant discipline mentor, and collected and analysed the program outcomes. A recently graduated Accredited Exercise Physiologist was employed to lead the group exercise sessions with assistance from students.

Program design

The program ran for 12 weeks and consisted of a 10-week (weeks two to eleven) combined exercise and education program with a program introduction and baseline data collection (week one) and follow-up data collection and program evaluation (week twelve). The session that was scheduled for week ten coincided with a public holiday and therefore home-based challenges were set for that week.

The exercise component of the program involved participation in a 1-hour group exercise class for each of the ten weeks. The group exercise program was specifically designed to be suitable for the range of fitness and health conditions with inclusion of alternate exercises as needed, and included slight exercise or intensity progressions each week. Each session incorporated a five minute dynamic warm up, a 45-50 minute combined low-moderate intensity cardiovascular and resistance circuit session and a five minute stretching cool down. Every participant had blood pressure measured before participating in each exercise class. An example exercise session outline is provided in Table 1.

Insert Table 1 here

In addition to the once-weekly supervised group exercise session, participants were each provided with a pedometer (Yamax Digiwalker, Toky, Japan) and were encouraged to achieve 10,000 steps each day and to record the daily steps in the diary provided. The Yamax pedometer is a reliable and valid device for measuring step count (Crouter et al., 2003). The 10,000 steps per day recommendation matches the 'active' classification for physical activity

(Tudor-Locke & Bassett, 2004) and is an acknowledged daily physical activity recommendation (Choi, Pak, Choi & Choi, 2007). The 10,000 steps program has been successfully implemented as a self-regulated physical activity measure in regional Australian communities (Brown, Eakin, Mummery & Trost, 2003). While the one group exercise session each week alone does not meet the recommendations for regular physical activity (American College of Sports Medicine, 2014), the combination of the group session and the self-regulated walking program should.

Each week, students from one discipline presented a 1-hour health education session to participants and to students from other disciplines (Table 2). At the start of each education session, students would explain the role of their health discipline in providing health care services. Students were scheduled to attend at least three weeks of the program, one when they were presenting and two other sessions where they were able to observe and participate in education activities led by other disciplines and the exercise sessions. Some students voluntarily participated in additional weeks.

Insert Table 2 here

At the end of each evening session, students would participate in a 15-20 minute debriefing session facilitated by the program leader. During these sessions the students discussed what they had learnt about, how the participants responded, and discussed how each health profession could assist with the delivery of health services associated with that evening's education session.

Outcome measures

At the baseline and final data collection sessions, participants completed a series of physical health measures, surveys and questionnaires. The physical health measures included height, mass, Body Mass Index (BMI, calculated from height and mass), waist girth and resting blood pressure. BMI, waist girth and blood pressure are known risk factors for cardiovascular disease (American College of Sports Medicine, 2014 p.27). Participants completed the International Physical Activity Questionnaire Short Form (IPAQ) (Ekelund et al., 2006) and the Short Form 12 Health Survey® (SF12, Maruish, 2012). The IPAQ is a valid and reliable self-report questionnaire (Craig et al., 2003) that provides a seven day recall of time spent being physically active and has been used previously to assess physical activity programs that included the 10,000 steps goal (De Cocker, De Bourdeaudhuij, Brown, & Cardon, 2011). The IPAQ includes four questions that ask the participant to quantify the duration of vigorous intensity physical activity, moderate intensity physical activity, walking and sitting that occurred in the previous week The SF12 is a 12-item self-report questionnaire that provides a quantitative measure of physical and mental components of health. The survey includes a five-point overall health rating, questions relating to the frequency and extent of daily activity limitations associated with general health, physical and emotional health problems and pain, and a 1-week recall of emotional state. Participants completed a questionnaire that asked them to describe the role that each of the eight participating health professions have in providing health care services to community members, with the responses scored according to correctness and comprehensiveness of the answer. One mark was assigned for each answer that was both correct and comprehensive, while a half mark was assigned if the response was correct but brief in detail. Participants also completed a nine-item health knowledge questionnaire designed by the students and that was based on the content of the education sessions. The health-knowledge questionnaire was scored in the same way as the health professions questionnaire.

Students completed the same health professions knowledge questionnaire as the participants, and completed the Readiness for Inter-Professional Learning Scale (RIPLS) questionnaire, which is used to explore student perceptions and attitudes towards inter-professional learning (Parsell & Blish, 1999). Items 10-12 and 17-19 of the RIPLS were recoded for analysis due to the negative nature of the wording, to allow for an overall RIPLS sum to be reported. At the final session the participants and students completed paper-based evaluations and attended separate focus groups facilitated by the program leader and the IPC.

Statistical analysis

Data from the participant health measures and questionnaires are reported as means and standard deviations, while evaluation information collected from surveys and focus groups were reported as common themes and example responses. Pre- and post- program comparisons were carried out using repeated measures ANOVAs with an alpha significance level of p<0.05. Cohen's D effect sizes were calculated as the difference between the pre- and post-mean, divided by the combined standard deviation. Data included in the repeated measures ANOVAs were normally distributed with no violation of standard statistical assumptions.

Results

Participant Health Outcomes

The average age of participants was 50 ± 8 years (range: 35-64 years). Participants self-reported the presence of health conditions such as cardiovascular disease, diabetes, acute and chronic musculoskeletal complaints, inflammatory bowel syndrome and gout. Participant attendance averaged eleven out of twelve sessions (range: 9-12). Participants indicated being overweight, having current health conditions and the opportunity to participate in a group

program as the motivators for participation. Post-program changes in blood pressure, waist girth, mass and BMI were not statistically significant (p = 0.05-0.65, Table 2). Participants reported a range of lifestyle changes adopted throughout the program, such as modifications to exercise, nutrition, dental hygiene and medications, that resulted in a positive shift in physical and mental function (SF12) and physical activity (IPAQ) (Table 3), as further evidenced by the following participant comments:

"Feel more energetic, not as breathless when I do things like climbing on truck etc" (survey response).

"Better sleep, more relaxed compared to time prior to the program" (survey response).

Insert Table 3 here

The group average daily step count was approximately 6600 steps (range 1500-8700 steps). While steps did not increase across weeks, the pedometers were useful as an educational tool:

"One of the biggest incentives for me of the whole program was the pedometer diary... I was determined to try to increase that thing, I think the best I ever did in a day was 9850 or something, I never got to the 10,000 but it was there remind me to try to go that extra bit of distance" (focus group response).

Participant satisfaction with the student assisted program

All participants rated the exercise sessions as useful (54% extremely useful and 46% very useful) and the majority rated each education session as either extremely or very useful (67-91%). Participants appreciated the group set-up, and the organised, tailored and supervised routine of the exercise sessions.

Highlights of the education sessions included the students' knowledge and professionalism, easily understood format, and informative and relaxed nature of the sessions. Sessions that included specific practical applications such as how to brush teeth and how to screen for prostate cancer featured highly in the positive participant comments. The participants were highly appreciative of the role students played in the program and were impressed by their dedication and professionalism, as indicated by the following response:

"The students did a great job. The fact they volunteered shows commitment to their career choice" (survey response).

All participants agreed that they would recommend the program to others, with reasons including:

"Great starting point for those who want to change lifestyle for the better" (survey response).

"It is good to have a safe place to talk about your health because men typically don't do this in the workplace or other places... it is good where everyone has made the commitment to come into something and already you are opening yourselves up to new ideas and to talk" (focus group response).

All participants also indicated that they were planning further lifestyle changes including increasing activity, diversifying activity, and improving time management. Overall, a key outcome of the program was the enhanced understanding of health:

"It has woke (sic) me up and think that actually each one of these things is part of my health and I need to update it all the time, I need to stay on top of my exercise, I need to stay on top of my healthy eating, I need to go to the dentist, I need to get my prostate checked, I need to do all of these to keep rolling forward (focus group response).

Student learning outcomes

In total, 18 students across eight disciplines participated, with 17 students completing the RIPLS questionnaires and survey, and 16 students participating in focus groups. Fourteen students participated in at least two sessions presented by other disciplines in addition to their own presentation; with the other four students participating in at least one other-discipline evening. There were three occasions where a student did not attend a scheduled session, and this was due to other assessments being due (two students) and car trouble (one student). Students from the Exercise Physiology and Psychology disciplines were able to include the program participation as clinical placement hours and the Speech Pathology students were able to include the education flyer that they designed for the participants in their professional portfolio. Students from all other disciplines indicated that their participation would not contribute to their course. Five students had prior experience in inter-professional activities, and this was linked to participation in group assessment or learning activities with other disciplines in previous subjects (four responses) and participation in another community-based program (one response).

There was a statistically significant positive change in the students' responses to the RIPLS questions 'I don't want to waste my time learning with other health care students' (recoded numbers 4.4 ± 0.6 up to 4.7 ± 0.5 , p=0.04) and 'I am not sure what my professional role will be' (recoded numbers 4.0 ± 1.2 up to 4.8 ± 0.4 , p=0.01), indicating an improved understanding of the benefits of inter-professional education and of their role in health care. No other RIPLS changes were significant, despite a positive shift in the overall score (80.3 ± 12.7 up to 83.6 ± 7.6). When student responses were compared between those undertaking the final year of the degree (n=12) and those in the earlier years of study (n=3), the biggest RIPLS overall score change was seen in non-final year students (12 ± 10 , median increase in overall score of

9; compared to 2 ± 4 median increase in overall score of 0). A student comment on the RIPLS questionnaire that illustrates the benefit of the program states:

"Firstly, I had more autonomy during this IP clinic to develop skills in our own preferred way, where as our normal placements are followed closely by an educator. More independence allowed me to go to my own space and strengthen areas of practice that I feel is important. The most valuable aspects were working with people from different disciplines, of whom you had no prior connections, working in a new environment, learning to be a better communicator, getting real time feedback on how my area of practice affects peoples' lives/health" (survey response).

Despite being able to provide basic information about each profession at program commencement, students significantly improved their knowledge of the role of the health professions from 5.2 ± 1.0 up to 6.3 ± 1.0 (maximum score out of 8; p<0.001). The increased scores were mostly reflected in the additional level of detail provided to the answers. Student participation in the exercise and the education sessions delivered by other disciplines' resulted in a range of inter-professional learning outcomes:

"I learned about the role of other health professionals and how we all must work together to better a patients' health" (survey response).

"I need to talk more to other professions as my understanding of their roles was obviously very limited. Pharmacy has a larger role to play... Many of the professions overlap. By working together and giving similar advice we can improve health significantly e.g. diet and teeth, overall health etc" (survey response).

Students indicated the development of self-confidence, discipline and context knowledge, group speaking skills, leadership and communication skills, team work skills, organisational skills, professionalism skills and advocacy and engagement skills as a direct result of

preparing and facilitating their discipline-specific education session, as highlighted in the following responses:

"Talking to men about sexual health is always challenging, so I suppose I honed the skill of getting people to engage, which will be important as a Doctor" (survey response).

"Furthering my knowledge base in the topic area, team bonding/working, confidence in myself and advocating for our profession" (survey response).

"Cementing my knowledge of nutrition, team work skills, leadership and communication" (survey response).

Students faced the challenges of time management, study commitments, nervousness with public speaking, and understanding the client's circumstances. Despite these challenges, the students were overwhelmingly positive about their experience, and reported that meeting and working with other students, seeing the health changes and enjoyment of the participants, achieving specific learning outcomes, and the overall program organisation were the best aspects of the program.

"'Ability to work with other health professions, develop my knowledge, skills and educate others, make a difference and have fun learning" (survey response).

"Seeing the men after 10 weeks and noticing health changes. Knowing I provided them with valuable info to help them change their health is something really special and what I am proud of" (survey response).

All students indicated that they would recommend the program to other students with example responses including:

"For sure! There is a wealth of experience that you get from an opportunity like this that you wouldn't normally get as an undergraduate student, definitely worth it" (survey response).

"Yes, again I feel that improving relationships with other health professionals will allow better communication in the workplace, and ultimately better the care towards the patients" (survey response).

Discussion

Overall, participants were highly satisfied with a student assisted, inter-professional men's health program that resulted in improved health outcomes. Students were highly satisfied with the professional and inter-professional learning opportunities afforded by the program. This study resulted in significant improvement in both the health and health professions knowledge of the participants. Participants in an Ireland-based lifestyle intervention program for adult males also reported increased knowledge and awareness of health and health-related issues, and the opportunity to talk to health professionals (McMahon, Hodgins, & Kelleher, 2002). The findings from both studies may indicate an increased likelihood for participants to undertake self-help measures to improve lifestyle and to seek assistance from the relevant health professionals when health concerns arise.

A significant improvement in both the physical and mental components of health and well-being was evidenced in the current program. The physical improvements related to reduced limitations associated with moderate activities and with climbing several flights of stairs, and reduced incidence of problems with performing daily activities. The improved mental components were vitality and mental health, which were represented as the frequency of having a lot of energy in the past week, and the frequency of feeling calm and peaceful and not feeling downhearted and depressed in the last week, respectively. The improvement in the mental components of health was also evident in the survey and focus group comments with feelings of happiness, being relaxed, being energetic and being in control reported. This relatively acute mental health improvement has been previously documented for healthy

lifestyle and for exercise-only interventions in older adult males. (Sealey, 2010; Sealey et al., 2013). It appears important therefore to include exercise or physical activity in healthy lifestyle intervention programs for men due to the direct influence of exercise on well-being. The participants (as a group) did not significantly improve their blood pressure, waist or BMI measures across the program. However the 2/6 mmHg reduction in blood pressure, the 2 cm reduction in waist girth and the 1-point reduction in BMI is similar to the proportional reduction in blood pressure noted as a significant outcome of a combined exercise and education program for unemployed adults (Schutgens et al., 2009), and may be a clinically relevant overall group improvement that requires statistical interrogation with a larger sample size.. There was also a significant reduction in self-report weekday sitting time by approximately 2 hours, coinciding with a three-fold increase in overall self-report weekly activity duration (330 minutes versus 918 minutes) despite not achieving the 10,000 step per day target. Despite the daily steps being below the national average (Australian Bureau of Statistics, 2013), the pedometers were a useful awareness tool, allowing participants to recognise how much walking they typically undertake each day, and how much walking time is needed to achieve the recommended 10,000 steps.

Eighteen students from eight health disciplines assisted with the delivery of the men's health program. The students experienced an inter-professional learning environment where they were able to teach and learn in a collaborative inter-professional environment. Students self-reported the development of a range of professional skills, knowledge and attributes and significantly improved knowledge of the role of health professions in health service delivery. For those students who were in the early stages of their degree, a 12-point median change between the pre-and post RIPLS was noted, and while no statistical comparisons were calculated due to the small sample size of this cohort, the early IPE experience may have contributed to positive student perception of and readiness to engage in inter-professional

activities. Similar IPE learning outcomes of enhanced knowledge and respect and understanding of other professions have been previously reported for students who are positioned in the early stages of the degree however, students reported concern about being forced to learn irrelevant skills (Tunstall-Pedoe, Rink, & Hilton, 2003). It has been acknowledged that students entering health degrees have already established stereotypical views of health professions, some of which are negatively oriented toward the 'other' professions (Reeves, 2000). Incorporating IPE experiences early and frequently throughout the degree is expected to elicit positive changes in these views (Carpenter, 1995a). Parsell and colleagues (1998) described how IPE experiences in final year students across a range of health professions elicited a positive change in perception of professions, particularly with respect to knowledge of the role of other professions and enhanced respect. Similar attitudinal shifts were reported for final year students by Carpenter (1995b) however the positive change was not consistent across all professions. In the current study, while the final year students did not report a positive change in their perceptions of IPE, it should be noted that their prior perceptions were already positive in nature and therefore the IPE experience may have consolidated the positive perceptions. Therefore early IPE may re-shape negative perceptions and provide the opportunity for early professional advocacy, while later IPE should aim to consolidate, enhance and broaden professional skills and knowledge.

The self-reported achievement of learning outcomes in the current study included an appreciation of the roles of difference professions and the importance of inter-professional practice in the health services, enhanced communication skills particularly when discussing challenging or sensitive topics, improved discipline-specific content knowledge, enhanced team work skills, and improved ability to and recognition of the importance of advocating the profession in an inter-professional context. Previous projects have similarly reported student perceptions of enhanced learning with a focus on enhanced knowledge, working in teams,

communication, ethical considerations and problem solving processes (Parsell, Spalding, & Bligh, 1998; Ponzer et al., 2004; Tunstall-Pedoe, Rink, & Hilton, 2003). These findings provide evidence that IPE plays an important role in the development of professional skills, and future research should focus on processes to assess and assure the development of professional skills, knowledge and attributes in authentic learning environments.

The strengths of the current program include the voluntary commitment by staff mentors and the students, institutional support, regular positive and constructive feedback to students (by way of weekly debriefing sessions) and the willingness of the participants to engage in a student-assisted program. These strengths align with the contact hypothesis model presented by Hewstone and Brown (1986), where positive attitudinal changes occur through a combination of positive expectations, cooperative environment, perception of typicality, institutional support successful joint work, status equality, positive feedback and understanding of differences and similarities in roles.

The main limitations of the study design were the small sample size (pilot research), the absence of a control group, the absence of long term follow-up data collection, and the inclusion of only one exercise session each week with encouragement to participate in self-directed walking on other days. An increase of supervised and structured exercise sessions to two or three sessions each week is likely to have resulted in further improvements in health outcomes in adult males, as evidenced previously (Kerr, Leicht, & Spinks, 2008; Sealey & Tope, 2011). The main limitation of the student-assisted inter-professional component of the program was the limited number of sessions attended by students due to the pilot nature of this program, and the inability for most students to count their participation as formal placement at the time of program establishment.

Future iterations of this program should consider broadening the scope of the education sessions, an increase in the number of exercise sessions each week, and involvement of more participants and students.

Conclusion

Overall this program has provided evidence of the dual benefit that occurs from the delivery of a student-assisted, inter-professional men's health program to at-risk community members. Participants enjoyed the program, improved in some aspects of self-reported health and well-being, and demonstrated increased knowledge of health care and health professional service provision. Students reported high satisfaction with program participation and reported improvements in and development of a range of professional knowledge, skills and attributes as a result of assisting in the facilitation of a translational and authentic community-based program.

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Table 1: Example group exercise session outline

Component	Duration	Exercise		
Dynamic warm up	5 minutes	Walk		
		Dynamic stretches – shoulder circles,		
		marching, lateral arm swings, walking		
		gluteal kicks		
Circuit exercises	45-50 minutes: 2	Hydraulic machine squats		
	rounds of 8 exercises, 1	Hydraulic machine chest press-seated row		
	minute per exercise	Chair sit-to-stands		
	with 30 second	Pulley machine tricep pushdown		
	transition	Box/ground calf raises		
		Dumbell bicep curls		
		Balance walk		
		Hydraulic lat-pulldown-shoulder press		
Cool down	5 minutes	Walk		
		Static stretches for the back, chest, arm and		
		leg muscle groups		

Table 2: Overview of weekly student-delivered education sessions

	presenting	participating
Program introduction	Program leader	Exercise Physiology
Exercise – the healthy habit	Exercise Physiology	Nursing Science
Practical healthy eating tips	Nursing Science	Pharmacy,
		Physiotherapy
Know your medications	Pharmacy	Psychology,
		Dentistry
Managing stress	Psychology	Physiotherapy,
		Pharmacy
Back care	Physiotherapy	Medicine,
		Psychology
Men's sexual health and prostate	Medicine	Speech Pathology,
cancer		Physiotherapy
Yell well – is your voice telling	Speech Pathology	Medicine, Dentistry
on you?		
Know your risk factors for CVD	Exercise Physiology	Nursing Science,
		Speech Pathology
Public holiday - At home exercise		
challenge		
How oral health impacts overall	Dentistry	Exercise Physiology
health		
Evaluation and wrap up	Program leader and	All disciplines
	IP coordinator	
	Exercise – the healthy habit Practical healthy eating tips Know your medications Managing stress Back care Men's sexual health and prostate cancer Yell well – is your voice telling on you? Know your risk factors for CVD Public holiday - At home exercise challenge How oral health impacts overall health	Exercise – the healthy habit Practical healthy eating tips Know your medications Managing stress Psychology Men's sexual health and prostate cancer Yell well – is your voice telling on you? Know your risk factors for CVD Public holiday - At home exercise challenge How oral health impacts overall bealth Evaluation and wrap up Program leader and

Table 3: Pre and post health measures and questionnaire responses.

Measures	Pre	Post	P-value	Effect
				size
Systolic blood pressure (mmHg)	143 ±14	141 ±18	0.645	0.125
Diastolic blood pressure (mmHg)	89 ±9	83 ±8	0.053	0.706
Waist girth (cm)	117 ±19	115 ±18	0.133	0.108
Mass (kg)	111 ±27	107 ±25	0.072	0.154
Body Mass Index (kg/m²)	35 ±8	34 ±7	0.066	0.133
Health knowledge (/9)	3 ±1	5 ±1	0.001*	2.000
Health professions knowledge (/8)	4 ±2	5 ±1	0.001*	0.667
IPAQ 7-day recall vigorous activity total	94 ±148	248 ±412	0.09	0.550
(minutes)				
IPAQ 7-day recall moderate activity total	94 ±119	225 ±283	0.129	0.652
(minutes)				
IPAQ 7-day recall walking total (minutes)	142 ±153	445 ±536	0.068	0.467
IPAQ 7-day recall weekday sitting total	595 ±161	479 ±222	0.037*	0.606
(minutes)				
SF12 physical components (maximum score	17.2 ±5.0	19.2 ±4.0	0.025*	0.444
26)				
SF12 mental components (maximum score 30)	21.2 ±4.7	24.8 ± 3.3	0.002*	0.900

NB: for all SF12 measures, a higher score indicates better health and well-being, with some data recoded according to the SF12 manual (Maruish, 2012). * = significant finding (p<0.05).