

"Bridging the C's": Development and evaluation of innovative peer-led physical activity programs for mental health service users

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Dr. Candida Graham & Dr. Roseann Larstone No Conflicts of Interest















Northern Medical Program
University of Northern BC
Northern Health
BC Schizophrenia Society
Vancouver Foundation
Chinook Yoga
YMCA



Building healthy communities





The British Columbia Schizophrenia Society for the Northern Interior, are family members & individuals affected by mental illness & addictions working with service providers to achieve a more comprehensive continuum of mental health & addictions services.

(www.bcsspgbranch.org)

The BCSSNI officially opened the Activity Centre for Empowerment [ACE] in 2004. (www.bcsspgace.org)





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BRIEF REPORT

Healthy Living? By Whose Standards? Engaging Mental Health Service Recipients to Understand Their Perspectives of, and Barriers to, Healthy Living

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Objective: It is well recognized that mental health service recipients experience high rates of cardiometabolic disorders, have poorer diets, and exercise less than the general population. This study sought to explore the meaning of a healthy lifestyle for this population and the barriers they experience to healthy living. Method: Focus groups were conducted with 23 individuals who experience serious mental health issues. The meaning of a healthy lifestyle and the barriers participants experience to living healthily were explored. Results: Participants perceived a healthy lifestyle in broader terms than professional guidelines for exercise and diet. A broad framework including friendship, affordable safe housing, employment, spiritual, and emotional good health, as well as healthy eating and exercise, is described. Barriers identified by participants were poor mental and physical health and stigma (structural, social, and self). An unexpected result was the group problem solving that occurred during the focus groups. Conclusions and Implications for Practice: Health care professionals need to understand mental health service recipients' perspectives of a "healthy lifestyle." An understanding of barriers within this context is required, as only then will we be able to empathize and assist as health care professionals. This study also shows that realistic, innovative, and pragmatic solutions occur when mental health service recipients are empowered.

Keywords: mental illness, health, lifestyle



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Research Article

A Qualitative Study Exploring Facilitators for Improved Health Behaviors and Health Behavior Programs: Mental Health Service Users' Perspectives

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Objective. Mental health service users experience high rates of cardiometabolic disorders and have a 20–25% shorter life expectancy than the general population from such disorders. Clinician-led health behavior programs have shown moderate improvements, for mental health service users, in managing aspects of cardiometabolic disorders. This study sought to potentially enhance health initiatives by exploring (1) facilitators that help mental health service users engage in better health behaviors and (2) the types of health programs mental health service users want to develop. Methods. A qualitative study utilizing focus groups was conducted with 37 mental health service users attending a psychosocial rehabilitation center, in Northern British Columbia, Canada. Results. Four major facilitator themes were identified: (1) factors of empowerment, self-value, and personal growth; (2) the need for social support; (3) pragmatic aspects of motivation and planning; and (4) access. Participants believed that engaging with programs of physical activity, nutrition, creativity, and illness support would motivate them to live more healthily. Conclusions and Implications for Practice. Being able to contribute to health behavior programs, feeling valued and able to experience personal growth are vital factors to engage mental health service users in health programs. Clinicians and health care policy makers need to account for these considerations to improve success of health improvement initiatives for this population.

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Background

Individuals with severe mental illness (SMI) have elevated rates of physical ill health including cardio-metabolic disease (Olfson et al., 2015; Saha et al., 2007)

Type 2 diabetes in individuals with schizophrenia is 2–4 times higher than in the general population (Holt et al., 2005; Mezuk et al., 2008)



Individuals with SMI have a 20% shorter life expectancy (Marder et al., 2004)

Lifestyle factors include rates of smoking, excess caloric intake, poor diet, & lack of exercise

(Nolte & Martin, 2008; Robson & Gray, 2007)



Targeted behavioral interventions show clinically significant health improvements & impact on cardiometabolic risk reduction for MHSUs

(Bartels et al., 2013, 2015; Daumit et al., 2013; Green et al., 2015)

Attrition from such programs by individuals with SMI is reported to be high (Brown & Chan, 2006; Kemp et al., 2009).



Barriers

Facilitators

Illness symptoms (Ussher et al., 2007, Graham et al., 2013) Motivation (Graham et al., 2014)

Medication side-effects

Access

(Graham et al., 2013; Soundy et al., 2007)

(Graham et al., 2014)

Stigma (Graham et al., 2013)

(Graham et al., 2014)

Minimal support

(Soundy et al., 2007)

Peer Support

(Browne et al., 2016; Graham et al., 2014; McKibben et al., 2014; Naslund et al., 2016)

Empowerment/personal growth



Peer-led interventions: an under-utilized approach

- Peer-facilitation is effective (Ashton et al., 2013; Dickerson et al., 2016;
 Druss et al., 2010 Ford et al., 2013)
- Provides social support & role-modeling (Gray et al., 2013)
- Promising model to increase effectiveness & reach of health interventions (Chinman et al., 2014; Ginis et al., 2013).



Purpose

- Explore program feasibility & acceptability
- Evaluate peer-developed & peer-led physical activity programs tailored for MHSUs



Theoretical framework

Informed by:

- Self-determination theory (SDT) (Deci & Ryan, 2000; 2012; 2014).
- 2) Community-based participatory research (Israel et al., 1998; 2005)

Producing:

3) Participant And Community Empowerment (PACE) (Graham et al., 2017 in preparation)



Physical Activity Programs

- 1) Peer-led walking program;
- 2) Yoga program;
- 3) Fitness program developed with the YMCA.



Bridging the C's: Community, Connectedness, and Collaborative Partnerships to improve the Cardiometabolic health of individuals with enduring mental illness

Physical Activity Initiative





Faculty of Medicine

vancouver

foundation

Start walking! Here's how:

Step 1: Choose the walking level that is right for you:

- Beginner: 10—20 minute walks on a flat surface
- Advanced: walks up to 1 hour, includes trail hiking

Step 2: Equipment check:

- Walking shoes *
- Rain poncho/umbrella, water bottle, pedometer, log book (optional—these items may be available for you at the ACE)

Step 3: Contact the Centre
Coordinator at the ACE to join a
group and start walking!

Need shoes?

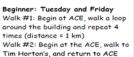
Funding for fitness equipment such as sneakers may be available through <u>Consumer and Family Initiative Funds</u>. For more information and to fill out an application please see Nansi at ACE or email mentalhealthadvisory <u>@googlegroups.com</u>

Transportation

Meeting up with your group:
Many walks will begin at ACE.
A PG Transit bus pass may be
necessary to meet your group for
certain walks. Bus passes can be
provided for Walking Group
members—please see the ACE
Coordinator for more details.

PG Transit bus routes (from stop at 7th and Dominion): To the Pine Centre Mall: #46 To UNBC (or Foothills and 15th Ave): #15 To YMCA/ Masich Place: #46

Summer/outdoor



Advanced: Mon., Wed., Friday
Walk #1: Begin 15th Ave and Foothills, walk up University Hill to
UNBC and return (6 km)
Walk #2: Begin Masich Place, walk
to Ospika, continue to Tyner Blvd,
end at Walmart (7 km one way)

after a break. (0.7 km one way)

Winter/indoor



Beginner

- Pine Centre Mall (Take bus #46)- PG Coliseum Indoor track (meet
- at ACE)
 Advanced:
 UNBC Northern Sports Centre
 Indoor Track (Take bus #15)



Evaluation

Focus groups (6- and 12-month)

"How has it been participating in the health program(s) you have been involved with?"

"Have you observed any benefits / harms in participating?"

"What has worked well for you / what has been difficult for you in the program(s)?"

"How could it be changed to be better?



NORTHERN BRITISH COLUMBIA				
DEMOGRAPHICS	Baseline (n=33)	Mid-point (6-month) (n=21)	End-point (12-month) (n=15)	
Gender Male Female	n (% of sample) 8 (24.24%) 25 (75.76%)	n (% of sample) 4 (19.05%) 17 (80.95%)	n (% of sample) 4 (26.67%) 11 (73.33%)	
Age range	26 - 73(mean _{age} =50.09)	26-72 (mean _{age} =50)	33 – 72 (mean _{age} =53)	
Diagnoses*	Schizophrenia spectrum disorders 8 (24.24%) Bipolar and related disorders 6 (18.18%) Depressive disorders 10 (30.30%) Anxiety disorders 5 (15.15%) Obsessive-compulsive disorder 1 (3.03%) Trauma and stress-related disorders 2 (6.10%) Substance and addictive disorders 1 (3.03%) *Note. 18 participants had disorder comorbidity.	Schizophrenia spectrum disorders 7 (33.33%) Bipolar and related disorders 5 (23.80%) Depressive disorders 6 (28.57%) Anxiety disorders 6 (28.57%) Obsessive-compulsive disorders 1 (4.76%) Trauma and stress-related disorders 2 (9.52%) Substance and addictive disorders 1 (4.76%) *Note. 11 participants had disorder comorbidity.	Schizophrenia spectrum disorders 5 (33.33%) Bipolar and related disorders 2 (13.33%) Depressive disorders 4 (26.67%) Anxiety disorders 5 (33.33%) Obsessive-compulsive disorders 1 (6.67%) Trauma and stress-related disorders 1 (6.67%) Substance and addictive disorders 1 (6.67%) *Note. 8 participants had disorder comorbidity.	



Analysis

- Iterative process
- Grounded Theory Informed Thematic analysis
- Development of themes, concepts & theory emerging at 6 and 12 months



RESULTS Health Accessibility **Benefits** Relationships

"(Yoga) made me so Exemplary quotes "I've lost weight and my relaxed...it was just so quiet hips are feeling better than and peaceful and...your they used to be and the mind just cleared..." arthritis is not as bad as it used to be".

Physical

"I find it increases your

A. Health Benefits

endurance, it's healthy for you."

"I have seen some strength improvements & some alertness improvements."

mood lifter for me."

"I was very depressed for a long time there and this has been part of that helping to get out of it."

"I think it's been a good

Psychological

B. Accessibility	Geographic
Exemplary quotes	Proximity "I would've participated a lot if I didn't have to go all the

that makes a big difference."

way to the (sports centre).

For me that was just a bit

Psychosocial 'fit'

"We're comfortable here,

this is a comfortable safe.

place (the ACE) and to me

much".

Cost

class fee), \$20 bucks." members that are quite regular don't hold it against me that I'm not able to attend regularly." "The (sport centre), it's a **Ability** beautiful track, it's gorgeous, but...a person on disability "I love the fact that there's cannot afford it. It's a rich different groups for man's track." different people. So it's

"For some people, that's food for the month (cost of

transportation and facility or

Program

Flexibility

Scheduling

"I'm so glad that I have that

(flexibility) and that the

tailored for everybody's

needs."

Exemplary quotes	"Certain participants take it upon themselves to [walk] themselves sothat shows that the program is working because if I'm not there to walk with them and they're taking the initiative to walk without their peer leadthere's something happening."	"It encourages you more because you kind of don't want to let down the group so you think oh everybody else is going to be there so I'll be there too."

"[yoga] teach[es] acceptance of

for something or comparing to

"I'm always afraid everybody's

because of this I'm now doing

program] made a huge difference

more and I'm feeling better about

staring at me...[the walking

someone else".

it".

yourself...it's...just acknowledging

where you are, rather than striving

Peers

"Walking in a group, you have the

"it was quite frustrating when

different things happened,

conflict in the room, that I

all. I was floundering".

didn't have any guidance at

support and strength from your

peers rather than being

strangers on the street."

intimidated or anxious with

Community

"...the other thing is outside of the (centre), ... in the (community)

walking group that happens, I'm part of that family now too"

"I've seen (the YMCA instructors)

"I know most of the researchers by

outside of the walls of the centre,

on the street say hi to each other

name and we're able to, even

and that's a real human

community and we've had

friends...that really makes a

conversations, like we're

out in the

difference."

connection."

Self

C. Relationships



Discussion

First reported evaluation of peer-developed, peer-led PA programs

Peer Lead coaching & leadership skills development are required



Theory of Engagement & Change

1. Engagement resides in accessibility

First study to identify geographical accessibility/psychosocial belonging as part of engagement

2. Behaviour change resides in co-constituent relationships



Other considerations

Dropout a challenge – need forgiving flexibility

Role of self-determination & empowerment



Limitations

Selection bias

Economic incentives



Conclusion

Feasibility & acceptability

Integration of concepts of accessibility & relationships

Replication needed



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