

INTRODUCTION

In 2011 there were 224,280 people living in in nursing homes, chronic care or long-term care hospitals in Canada (Statistics Canada, 2011).

It is important that long-term care facilities offer interesting programs to residents, even though they may have limited functioning (Tak, Kedia, Tongumpun, & Hong, 2015).

Research suggest that horticultural programs could offer people with varying degrees of limitations an opportunity to improve cognitive, social, emotional and physical domains (Carman, 2011; Pfeffer & Deyton, 2009; Slavens, 2007; Wang & Macmillan, 2011)

DEFINITIONS





"Long-term residential care services provide 24-hour professional supervision and care in a protective, supportive environment for people who have complex care needs and can no longer be cared for in their own homes or in an assisted living residence." (Province of British Columbia, 2017)

Horticultural programs are purposeful multisensory activities using plant materials to engage people in a recreational activity that can improve or maintain functioning and quality of life.

PURPOSE

The purpose of the research is to develop strategies for running mobile one-to-one horticultural programs for older adults living in complex care facilities and to explore the benefits of these programs.

METHOD

Participants

There was a total of 11 participants:

7 Residents

- Recruited using convenience sampling
- Criteria of being a resident
- 50 and over
- Ability to read English
- Sessions were recorded
- Observations and inferences were documented

<u>4 Staff</u>

- Recruited using convenience sampling
- 3 face-to-face interviews with recreation aides
- 1 e-mail response with staff from another department

Data Collection

Qualitative

- Observations based on residents participation in horticultural activities
- Transcripts from 9 sessions of horticultural activities. 20f the 7 residents participated in two sessions
- Interview notes from 4 staff members
- Field notes

Quantitative

- Number of sessions and length of session
- Activity chosen
- Number of laughs

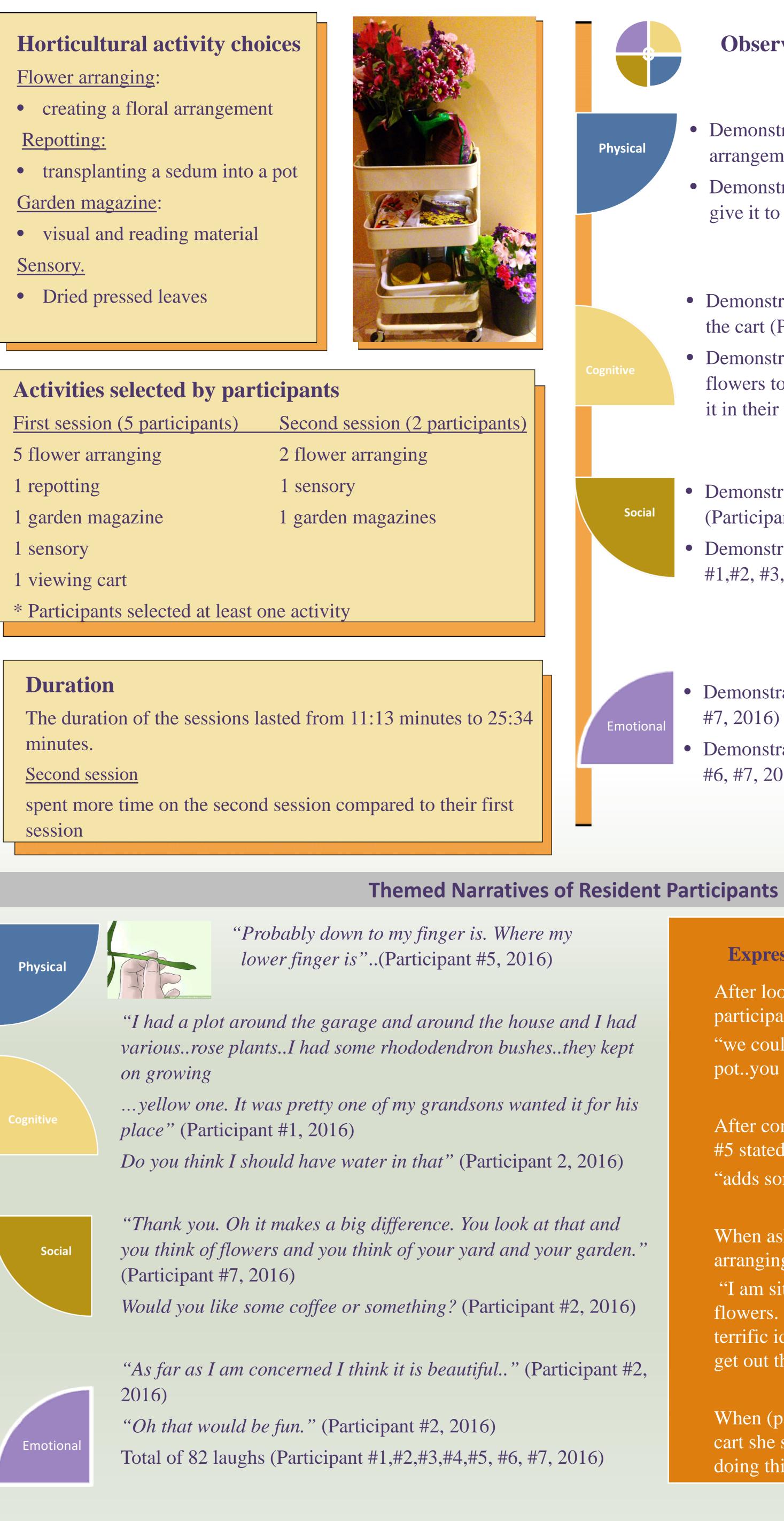
The Impact of Horticultural Programs in Long-Term Care Services

Eva Kwong

Douglas College Therapeutic Recreation Student Researcher

FINDINGS

Mobile One-to-One Horticultural Activity Cart



Observations

- Demonstrated ability to walk carrying her flower arrangement to the dining room (Participant #2, 2016)
- Demonstrated ability pull out flowers by the stem and give it to me (Participant #2,# 5, #6, #8, 2016)
- Demonstrated ability to recall names of flowers from the cart (Participant #1, #5, #8, 2016)
- Demonstrated ability to make decisions about which flowers to choose from the bucket and where to place it in their vase (Participant #2, #4, #5, #7, 2016)
- - Demonstrated ability to respond to questions (Participant #1, #2, #3, #4, #5, #6, #7, 2016)
 - Demonstrated ability to ask questions (Participant #1,#2, #3, #4, #5, #6, #7, 2016)
- Demonstrated smiling (Participant #1,#2,#3,#4, #5,# 6, #7, 2016)
- Demonstrated laughter (Participant #1,#2,#3, #4, #5, #6, #7, 2016)

	Expressed benefit of Horticultural Program
ł	After looking at the sedum plant and the pots participant # 4 stated:
	"we could all start onewe could all have a potyou could see it grow"
5	
	After completing flower arrangement participant #5 stated:
	"adds some cheerfulness to your surroundings"
"	When asked if it would be good to have flower arranging in people's room participant #7 stated:
	"I am sitting here and I can't get out to buy flowers. If you came around I could pick outIt's a
2,	terrific ideaThere's are a lot of seniors who can't get out the door like myself right now."
	When (participant #2, 2016) saw the horticultural cart she stated: "I think it is wonderful that you are doing this."

- experience.

- programs.

Horticulture, 1832-43.

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FINDINGS

Themed Narratives of Staff Members

• All the recreation aide participants have had positive experience running horticultural programs and were looking forward to implementing horticultural programs in the workplace.

• They observed benefits for the residents that participated in the horticultural program.

• Other support staff indicated that seeing fresh cut flowers in the workplace generates positive emotions.

CONCLUSION

• It is important to implement horticultural activities for this population as many residents have enjoyed horticulture in earlier years.

• Horticultural programming in long term care would normalize the

• Participants voiced their interest in a desire to continue a past interest.

• Horticultural program carts are mobile, allowing the therapist to bring the program to residents' rooms.

• Choices of a variety of activities allow residents a locus of control.

• Evidence suggests that participating in horticulture activities engages physical, cognitive, social, and emotional functioning.

• Preplanning for a variety of adaptions in the program are important in allowing flow and empowerment for the residents.

LIMITATIONS

• Limited participant demographic as only functional participants that could read English were able to participate.

Inability to quantify changes of cognitive, physical, social and emotional functioning.

• Lack of control group to compare with.

RECOMMENDATIONS

• Recognize benefits and interests for residents and provide one-to-one horticultural programing.

• Research more ways of adapting horticultural programs to improve accessibility.

• Bench mark abilities prior to starting program.

• Test results for after the 3 month program to make comparison.

• Program duration for twice a week for 3 months.

• Video tape sessions.

• Further research on individuals that have lower cognition

• Further research on ways to measure benefits of horticultural

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