The Hopkins Centre

Research for Rehabilitation and Resilience

Fostering self-management within an upper limb therapy group for stroke survivors and their caregivers

Carly Gomura & Kylie Bower Princess Alexandra Hospital

Introduction

Self-management is recommended in the Australian Clinical Guidelines for Stroke Management 2017. It aims to help stroke survivors adopt **strategies** to manage changes in physical and cognitive ability, relationships, and to better participate in their community. 1

Opportunities exist for self-management care planning to commence within the acute inpatient episode of care, to best prepare stroke survivors and their caregivers to manage their chronic condition for the longer-term. ^{2,3}

Purpose

Existing models outline a process for which self-management behaviours may be developed and adopted.⁴

This process requires the provision of effective therapeutic interventions to allow stroke survivors to acquire self-management skills and the self-efficacy to put these skills into practice.

Our project explored the impact of therapeutic interventions in imparting self-management skills, behaviours and self-efficacy for upper limb management post-stroke.

Methods

A stroke-specific upper limb education group in an inpatient rehabilitation setting was redesigned to target the development of self-management skills through the provision of the following interventions which are supported in the literature ^{3,4} :

Goal setting: impairment, activity and participation goals are set in collaboration with stroke survivors and their caregivers, as part of an established joint Occupational Therapy/Physiotherapy upper limb management proces

These goals are incorporated into education and exercise, and goal performance is monitored at each aroup

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Acknowledgements

wish to acknowledge the combined efforts of the PA Hospital GARU Occupational Therapy team and students for their work towards this project outcome over 2017-2018.

Active information provision: the group commences with education and discussion on a rotating list of topics, using an education resource that adopts a self-management approach. A variety of multimedia tools are incorporated, such as the EnableMe website.

Problems after your stroke

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te is an injury to an area of your brail stop or change: our your brain sends messages to yo o jike telling a muscle to move; and ge your brain understands message o jike understandig what somethin

Shoulder joint probl

Changes in feeling ('s

Swelling D Mussle I

Difficulty paying attention to one arr

ages from your



Involving carers: caregivers are encouraged to attend the group, to develop their own knowledge-

base and to develop skills to support the stroke survivors ongoing self-management care plan.



Emotional / social focus: attendees are encouraged to share their experiences with managing their upper limb throughout their recovery. This is supplemented with a targeted

education topic addressing basic social and emotional aspects to upper limb changes after a stroke.

Evaluation of the upper limb education group was conducted via pre-post survey of participants, measuring their perceived knowledge, skills and confidence in caring for their stroke-affected upper limb

A separate cohort of stroke survivors not involved in a targeted self-management approach to upper limb recovery were also surveyed for comparison.

Literature Cited

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Warner G, Packer T, Villeneuve M, Audulv A & Versnel J (2015) A systematic review of the effectives of stroke self-management programs for improving function and participation outcomes: self-management programs for stroke survivors, Disability and Rehabilitation, 37:23, 2141-2163

Results

Participants demonstrated improved selfratings of knowledge, skill and confidence in upper limb self-management following participation in the group.

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Participants identified a continued practice of upper limb self-management behaviours following completion of the group, and the benefit of peer support and encouragement that the group provided.

"[we] continued with the forward reaching...and developed on that to enable using a wheelie walker

"group support and encouragement, doing some activities together [was helpful]"

The separate cohort of stroke survivors not involved in this group displayed high levels of perceived knowledge, skills and confidence in caring for their stroke-affected upper limb.

This outcome may represent the discrepancy between perceived and attained knowledge.

This gap has been demonstrated to lead to ineffective self-management behaviours within stroke literature. 6

	Perceived knowledge			
	no	yes		
yes	They don't know they know.	They know they know.		
	They don't know they don't know.	They know they don't know.		

Conclusion

A self-management framework can be successfully incorporated into a group setting to foster self-management knowledge, skills and the efficacy to translate these into ongoing selfmanagement behaviours. A group setting provides an opportunity for peer support amongst participants, and can be an appropriate setting for consolidating selfmanagement skills.

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