KTI 13. PATIENT-MEDIATED KNOWLEDGE TRANSLATION INTERVENTIONS

WHAT ARE PATIENT-MEDIATED KNOWLEDGE TRANSLATION INTERVENTIONS?

PATIENT-MEDIATED KNOWLEDGE TRANSLATION INTERVENTIONS DESCRIPTION

- Various patient-mediated interventions that can be used during a single clinical encounter.
- Examples of interventions include: booklet, brochure, website, computer program, print material, counseling session, video.

PATIENT-MEDIATED KNOWLEDGE TRANSLATION INTERVENTIONS GOAL(S)

• Improve patient's involvement in their own care, and communication with their provider(s).

CURRENT FINDINGS FROM THE EVIDENCE

- Single interventions involving print material achieved beneficial outcomes, as did more complex interventions.
- Few studies were eligible, and no studies evaluated patient harms, or provider outcomes.

POINTS TO KEEP IN MIND

- This review has focused on patient-mediated interventions used when patients are meeting with a healthcare professional and are providing information to improve self-management of their condition(s).
- The researchers used the following taxonomy to guide their self-management interventions:
 - Inform Information that provides patients with knowledge about their condition and an understanding of how to manage it (e.g., about condition and treatment, activities of daily living, lifestyle advice).
 - Activate Information or tools to prompt action for actively managing the condition and enhancing quality of life (e.g., decision aid, lifestyle monitoring, action plan).
 - Collaborate Information or mechanisms that lead to interaction and engagement (e.g., communication with providers, available resources, social support)

SYSTEMATIC REVIEW OF THE EVIDENCE FOR PATIENT-MEDIATED KNOWLEDGE TRANSLATION INTERVENTIONS

Source: Gagliardi AR, Légaré F, Brouwers MC, Webster F, Badley E, Straus S. Patient-mediated knowledge translation (PKT) interventions for clinical encounters: a systematic review. Implementation Science. 2015 Dec;11(1):26.

EVIDENCE FROM THE SYSTEMATIC REVIEW		
Description of	Types of interventions used:	
Patient-Mediated	Print material (brochures 5, booklets 1, variety of print	
Knowledge	material 2, list of websites 2)	
Translation	Electronic material (video 4, computer program 5, website	
Interventions	1)	
	Counseling (not specified)	
	10 studies offered a single PKT intervention (2 arthritis, 8 cancer), and 6 studies offered a multifaceted PKT intervention (3 arthritis, 3 cancer).	
Setting	<u>Healthcare settings:</u> Ambulatory care	
	Healthcare topic: Osteoarthritis, rheumatoid arthritis, breast	
	cancer, prostate cancer.	
	Study location: USA (n=10), Canada (n=1), UK (n=2), China (n=1),	
	France (n=1), Netherlands(n=1).	
Intervention	Nurses, researchers, case managers, health educators, urologists,	
Deliverer	psychologists, public health personnel, medical librarian	
Intervention	Patients with osteoarthritis, rheumatoid arthritis, breast cancer or	
Recipient	prostate cancer	
Quality of the	High risk of bias (Assessment tool: ROBIS)	
systematic review		
Quality of studies	7 High quality	
included in	6 Low quality	
systematic review	3 Unclear quality	
OUTCOMES OF SYST		
Comparisons:	1. Patient-mediated intervention vs. none	
Patient Process outcomes:	 Knowledge outcome: 1 RCT (high risk of bias) reported improved knowledge after text and graphic information. 1 observational study (low risk of bias) reported improved knowledge with a computer application and list of websites. 	
	Decision-making outcome: • Decisional conflict, readiness or intention, anxiety, satisfaction, preparedness for decision-making, improved in 9 studies.	
	Communication outcome: • 1 RCT (low risk of bias) reported no difference.	

	no studies.
	Satisfaction outcome: • In 7 studies, majority of participants had favourable views
	of the intervention.
Health care provider	Provider satisfaction outcome:
process outcomes:	 In 1 study, high overall satisfaction with a print material toolkit (82%) was reported.
	 Intention to give the toolkit to patients fell from 92% before the study to 64% after the study.
System/organization	Health service use:
outcomes:	 In 1 study, no significant effect on number of visits to oncologist, time spent with oncologist, time spent in telephone consultations but significantly more time spent with nurses.

OPERATIONALIZATION OF PATIENT-MEDIATED KNOWLEDGE TRANSLATION INTERVENTIONS

No information was provided in the review.

STUDY EXAMPLE OF PATIENT-MEDIATED KNOWLEDGE TRANSLATION INTERVENTIONS FROM THE SYSTEMATIC REVIEW

Source: McDonald DD, Gifford T, Walsh S. Effect of a virtual pain coach on older adults' pain communication: a pilot study. Pain Management Nursing. 2011 Mar 1;12(1):50-6.

STUDY INFORMATION		
Goals of	To positively impact older adults who are experiencing pain by	
Intervention	providing a virtual pain coach to improve their pain communication.	
Description of	Virtual practitioner coach	
Intervention	 Two important components that were taught to the patients: Practicing their selection of personally relevant pain management topics to discuss with the practitioner Practicing taking their turn and discussing their pain. Virtual coach was a female, dressed professionally appearing in an examination room and was instructing the older patients to practice talking to her about their pain. The coach detected and responded to pauses by encouraging older adults to describe additional information, provided general positive feedback on the practice session, and concluded the coaching session by encouraging older adults to share their important pain information with their practitioner. 3 main statements: a) "I am going to help you practice talking with your healthcare practitioner so you can be sure to say all the important information about your pain that you need to 	

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	 when you talk. Pretend that I am your health care practitioner and respond out loud to me. Hello. Tell me about your pain, aches, soreness, or discomfort." b) "Very good. Is there anything else you would like to tell me about your pain, aches, soreness, or discomfort?" and c) "You have shared lots of helpful information about your pain. It is very important that you now tell your health care practitioner your pain information so that you can get your pain reduced to a mild or lower level." 		
	 Video practitioner coach Consisted of a videotaped practitioner verbalizing the 3 main statements as the virtual practitioner 		
	 Separate video clips appeared in the same sequence as the virtual practitioner statements with each statement initiated after the participant touched the space bar. Unlike the virtual pain coach, the video coach was unable to 		
	detect pauses or encourage participants to continue talking about their osteoarthritis pain.		
Setting	Community		
Intervention	Video or virtual practitioner		
Deliverer			
Intervention	Older patients		
Recipient			
Quality of the	High quality		
Study			
STUDY OUTCOM	STUDY OUTCOMES		
Comparison	Virtual practitioner coach vs video practitioner coach vs no coach		
Patient Process	Older adults described M¼ 6.3 (SD ¼ 3.17), M¼ 3.0 (SD ¼ 2.08), and		
Outcomes	$M\frac{1}{4}$ 5.2 (SD $\frac{1}{4}$ 2.40) items of important pain information as a result of		
	the virtual coach, video coach, and no coach conditions, respectively.		
	Older adults who practiced talking with the virtual coach described		
	more than one additional item of important pain information.		
	In conclusion, the virtual coaching and education intervention might enable older adults to communicate their pain management information more effectively to their practitioners.		