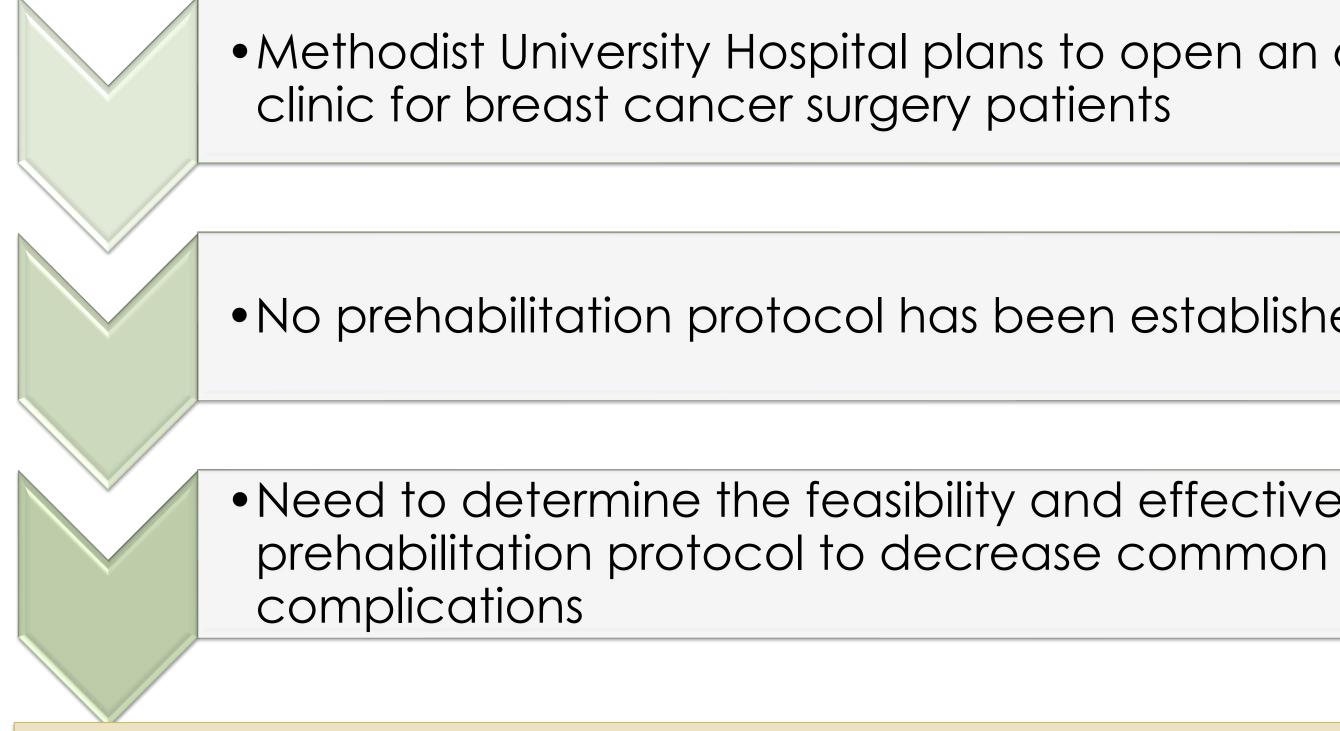


BACKGROUND & RATIONALE



PICO QUESTION

For patients undergoing breast cancer surgery, is a prehabilitation (prehab) program feasible and effe decreasing complications related to surgery as cor to only receiving post-surgical rehabilitation?

COMMON COMPLICATIONS

Adhesive Limited upper Capsulitis Lymphedema extremity (Frozen mobility Shoulder) Normal Lymphedema

https://www.enerskin.com/blogs/blogs/compression-sleeves-for-lymphedema-management

Feasibility and Effectiveness of a Prehabilitation Program Prior to Breast Cancer Surgery: A Critically Appraised Topic Emma Choi, MOT/S, Carol Houston, MOT/S, Morgan Mills, MOT/S, Alissa Lee, MOT/S, Kayla Woods, MOT/S Faculty Advisor: Anita Witt Mitchell, PhD, OTR, FAOTA; Mentor: Holly Greer, MOT, OTR/L, CLS University of Tennessee Health Science Center SEARCH METHODS **PREHABILITATION COMPONENTS** NHAL, Medline, Google Scholar, Initial assessment with ROM measurement VOR breast cancer surgery) AND Prehab program: exercises and education on OR prehab*) dies with female patients Post-surgery assessment with ROM measurement rring more than 10 years ago **CLINICAL BOTTOM LINES AAIN FINDINGS** Evidence for Evidence for Limitations ndings effectiveness feasibility was Was moderate inconclusive tistical Small sample ance difference Selection Bias in physical No standardized intervention duration **RECOMMENDATIONS FOR IMPLEMENTATION** No long-term follow-up odal prehab is Recommend implementing a prehab program with caution and monitoring. t > 10 oshoulder • Variable follow-up tion ROM evaluation Recommend monitoring results by using Quick Dash and orse shoulder • Variable type of surgery • Limited inter-rater mo. postop Lymphedema Quality of Life Tool (LYMQOL ARM). orse shoulder reliability of ROM mo. Postop measurements eted exercises Secondary analyses of Recommend variety of upper body resistance/strength roups displayed a separate study ant training, aerobic exercises, and stretching. • Small sample rements in / and stress **PATIENT REPORT** REFERENCES nysical activity = Researcher availability very 3 weeks

n outpatient	Datak	tabases SCO		Med, CINHAL, Medline, PUS		
hed	Search	Search Terms		 (mastectomy OR breast car (prehabilitation OR prehab* 		
reness of a n	Inclusion	Inclusion Criteria		•English, Studies with femc		
	Exclusion	n Criteria	 Studies 	s occurring more tha	r	
	S	EARCH R	ESULTS	S & MAIN FIND		
a fective for ampared	Study	Interven	tion	Findings		
	Level II Heiman et al. • RCT • QS: 74%	 30 min/day unsupervised physical activ weeks before after surgery) 	aerobic vity (4 and	No statistical significance difference found in physical recovery		
	Wu et al. • Cohort • QS: 72%	 8 UE resistanc training exerc Health educc Psychosocial 	e • cises ation	Multimodal prehab is feasible		
	Level III					
Diminished sychosocial health	Baima et al., • Small Scale RCT • QS: 68%	• 3 UE exercises		66% lost > 10 oshoulder abduction ROM 29% worse shoulder pain 1 mo. postop 15% worse shoulder pain 3 mo. Postop Completed exercises		
	 Knoerl et al Secondary Analysis of an RCT QS: 70% 	 30-45 min of aerobics 20 min of strength training 10 min of stretching Surgery prep book Audio guide 		Both groups displayed significant improvements in anxiety and stress		
	Level IV					
	 Nilsson et al. Correlational St udy QS: 95.45% 	 Self-report of activity prior t surgery 	• •	 ^ of physical activity = ^ recovery 3 weeks post-op Level of physical activity did not have a significant effect on mental recovery 		

More research needed to determine effectiveness



