RUTGERS School of Nursing

Introduction

- Mobility during hospitalization is vital to prevent a decrease in patients' functional level and risk of complications.
- Mobility decreases cancer-related fatigue in both newly-diagnosed patients as well as patients who have been undergoing treatment over a period of time (National Comprehensive Cancer Network [NCCN], 2020).

Background and Significance

- Oncology patients are at a higher risk of developing complications due to immobility.
- Preventable hospital-acquired complications due to immobility include: pressure injuries, falls, pneumonia, and venous thromboembolisms (Teodoro, 2016).
- Hospital-acquired complication take longer to treat and can impact a patient's length of stay (LOS) as well as their discharge disposition.
- Being physically active has many benefits to cancer patients that include: improving muscle strength, lowering the risk of osteoporosis, improving blood flow, controlling weight, lowering risk for heart disease, and improving overall quality of life (American Cancer Society, 2014).
- The Johns Hopkins-Highest Level of Mobility (JH-HLM) scale is used to standardize patient mobility levels and assist staff in setting mobility goals with patients to promote early mobilization and decrease complications (Hoyer et al., 2016).
- The JH-HLM scale was recently implemented in the project organization in February 2021. It is used in addition to the Activity Measure for Post Acute Care (AMPAC) scale.

Clinical Question

• Will the implementation of the JH-HLM scale promote early mobility and improve patient outcomes in the oncology population?

Contact Information

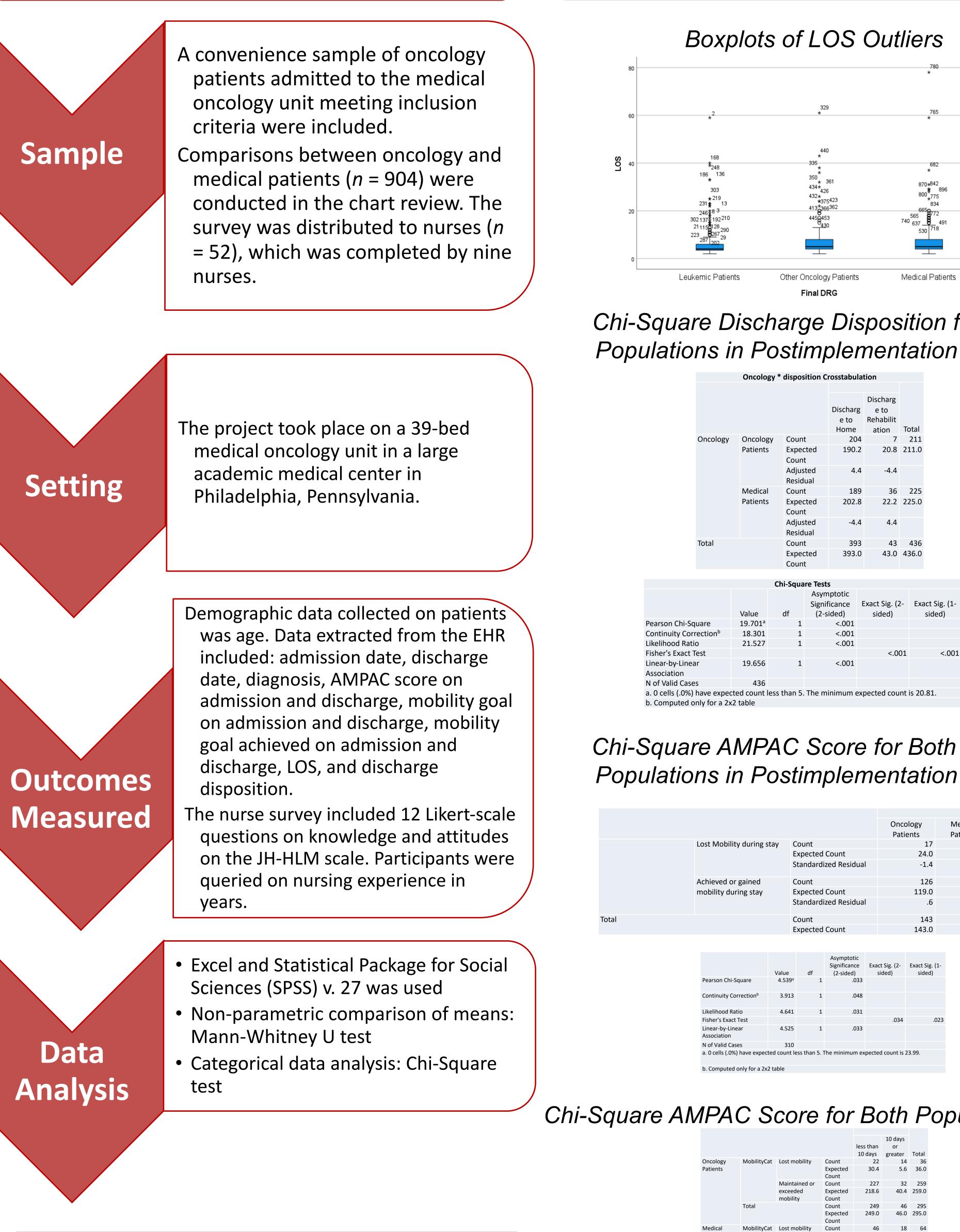
Tabata Verga MSN, RN-BC, CNL Verga.tabatar@gmail.com

Promoting Mobility In Oncology Patients Using Goal-Directed Care

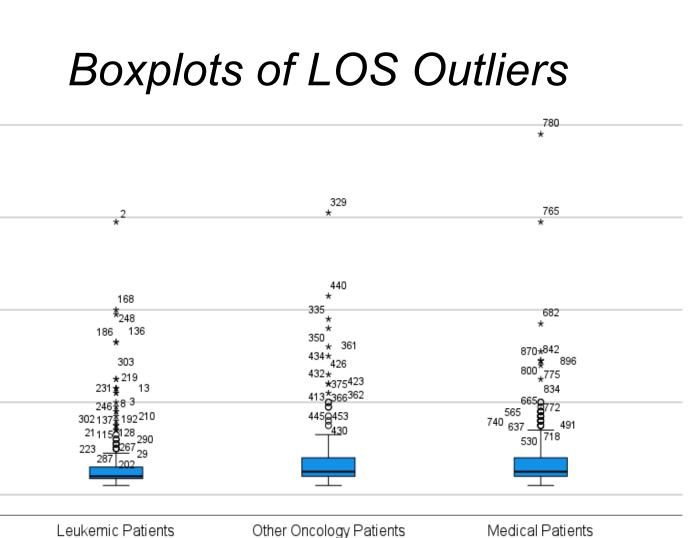
Author: Tabata Verga MSN, RN-BC, CNL DNP Chair: Barbara Niedz PhD, RN, CPHQ DNP Team Member: John Renzi DNP, MBA, RN, CCTM, NE-BC

Methodology

Results



References



Chi-Square Discharge Disposition for Both **Populations in Postimplementation Period**

Chi-Square AMPAC Score for Both Patient **Populations in Postimplementation Period**

					ology	Medical	_
				Pati	ents	Patients	Tota
Lost Mobility during st	tay	Count			17	35	
		Expected	Count		24.0	28.0	
		Standard	ized Residua	l	-1.4	1.3	
Achieved or gained		Count			126	132	
mobility during stay		Expected	Count		119.0	139.0	2
, , ,		-	ized Residua	I	.6	6	
		Count			143	167	
		Expected	Count		143.0	167.0	3
Pearson Chi-Square	Value 4.539			Exact Sig. (2- sided)	Exact Sig. (1- sided)		
Continuity Correction ^b	3.913	3 1	.048				
Likelihood Ratio	4.642	1 1	.031				
Fisher's Exact Test				.034	.023		
Linear-by-Linear Association	4.525	5 1	.033				
	310)					
N of Valid Cases	510				23.99.		

Chi-Square AMPAC Score for Both Populations and

						10 days			
					less than	or			
Oncology Patients					10 days	greater	Total		
	Oncology	MobilityCat	Lost mobility	Count	22	14	36		
	wied since year	,	Expected Count	30.4	5.6	36.0			
			Maintained or	Count	227	32	259		
			exceeded mobility	Expected Count	218.6	40.4	259.0		
		Total		Count	249	46	295		
				Expected Count	249.0	46.0	295.0		
	Medical		Lost mobility	Count	46	18	64		
	Patients			Expected Count	52.1	11.9	64.0		
			Maintained or	Count	203	39	242		
			exceeded mobility	Expected Count	196.9		242.0		
		Total		Count	249	57	306		
				Expected Count	249.0	57.0	306.0		
						Asymptot			
			Value	df		Significance	e (2-	Exact Sig. (2-sided)	Exact Sig. (1-sided
ients	Pearson Chi-Squa	ire	16.907 ^a	ui	1	sided)	<.001	Exact Sig. (2-Sided)	Exact Sig. (1-Sided
		Continuity Correction ^b			1		<.001		
	Likelihood Ratio				1		<.001		
		Fisher's Exact Test			-			<.001	<.00
	Linear-by-Linear	Linear-by-Linear Association			1		<.001		
	N of Valid Cases		295						
ents	Pearson Chi-Squa	Pearson Chi-Square			1		.028		
	Continuity Correc	Continuity Correction ^b			1		.044		
	Likelihood Ratio	Likelihood Ratio			1		.035		
	Fisher's Exact Tes	Fisher's Exact Test						.045	.02
		Linear-by-Linear Association			1		.028		
	N of Valid Cases		306						
	count less than 5. The n	ninimum expect	ed count is 5.61.						
only for a 2x2 tak									
have avaated	count less than 5. The n	ainimum avnact	ad accuration 11 02						

Oncology Patie

Medical Patie

a. 0 cells (.0%) b. Computed of c. 0 cells (.0%)

Discussion

- expected, opposite for medical patients
- LOS increased in postimplementation period More oncology patients discharged to home than
- discharge
- Majority of patients did not achieve or achieved a lower JH-HLM score, along with longer LOS
- Nurse survey: barriers to mobilization were disease complication and time. Nurses felt more comfortable mobilizing patients after seen by physical therapy.

Implications for Clinical Practice

- Communication of AMPAC scores, JH-HLM scale, along with mobility level changes during multidisciplinary rounds
- Increasing collaboration of the healthcare team towards mobility
- Use of ancillary staff to assist nurses in meeting patient's mobility goals

Implications for Healthcare Policy

• Opportunity exists in implementing a mobility protocol

Implications for Quality and Safety

• Although not analyzed for this project, can be an area of interest to the organization

Implications for Education

• Education to nursing staff on: how the AMPAC score related to the JH-HLM goal that is set for their patients, safe patient handling, chair or bed exercises, and review current mobility equipment

Implications for Financial Costs

 Having a shorter LOS by encouraging mobility and decreasing the risk of hospital acquired complications can influence financial costs

- Higher number of oncology patients who
- maintained/exceeded AMPAC and less patients lost
- mobility, opposite for medical patients
- Longer LOS patients had lower AMPAC scores on